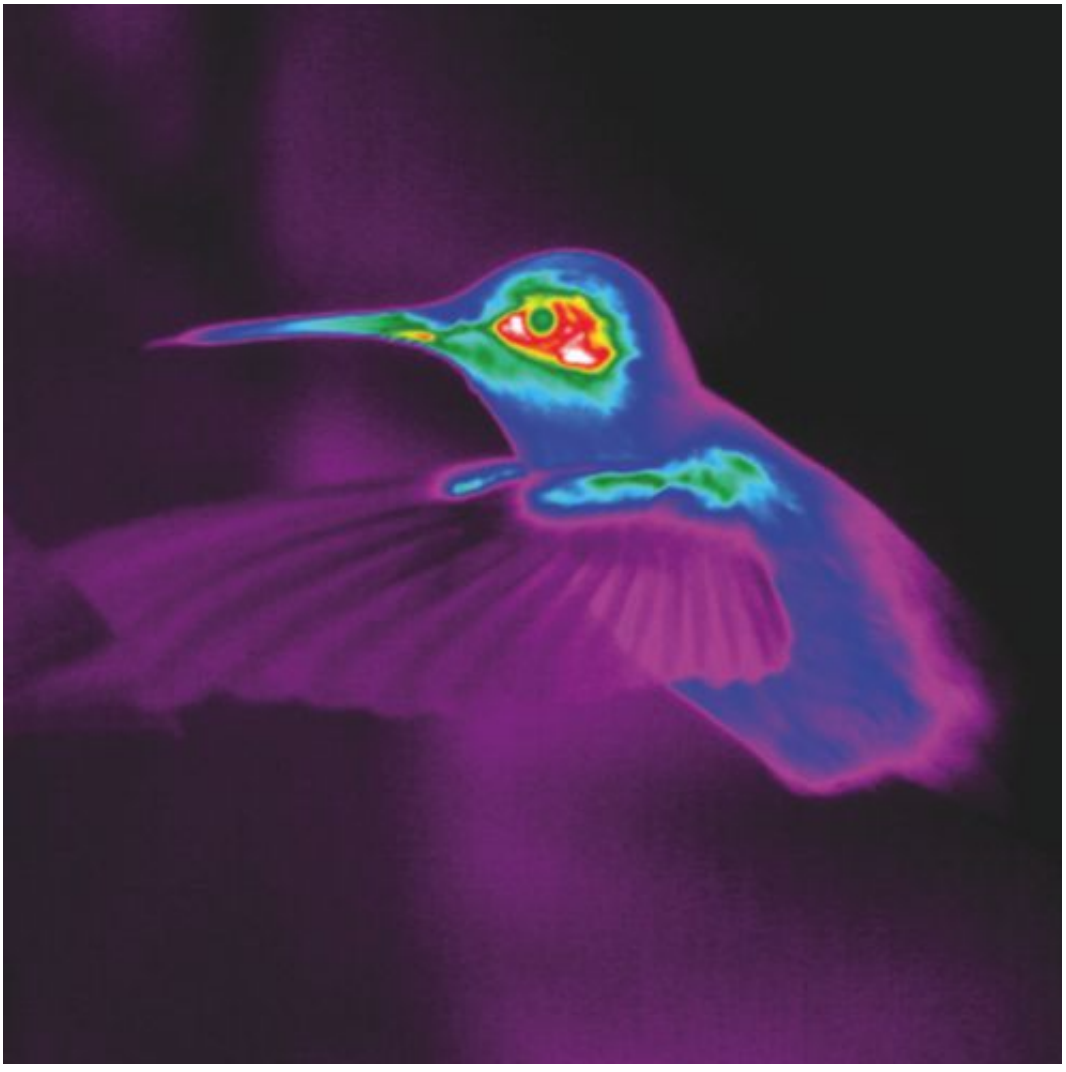
Publ. no.: T810225-en-US
Last updated: 2018-03-12

Latest catalogs: http://support.flir.com

Product Catalog 2018

FLIR Test & Measurement Products

A hummingbird in infrared.
© 2010, Austin Richards.



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Introduction

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Disclaimers

Legal disclaimer

All products manufactured by FLIR Systems are warranted against defective materials and workmanship for a period of one (1) year from the delivery date of the original purchase, provided such products have been under normal storage, use and service, and in accordance with FLIR Systems instruction.

Uncooled handheld infrared cameras manufactured by FLIR Systems are warranted against defective materials and workmanship for a period of two (2) years from the delivery date of the original purchase, provided such products have been under normal storage, use and service, and in accordance with FLIR Systems instruction, and provided that the camera has been registered within 60 days of original purchase.

Detectors for uncooled handheld infrared cameras manufactured by FLIR Systems are warranted against defective materials and workmanship for a period of ten (10) years from the delivery date of the original purchase, provided such products have been under normal storage, use and service, and in accordance with FLIR Systems instruction, and provided that the camera has been registered within 60 days of original purchase.

Products which are not manufactured by FLIR Systems but included in systems delivered by FLIR Systems to the original purchaser, carry the warranty, if any, of the particular supplier only. FLIR Systems has no responsibility whatsoever for such products.

The warranty extends only to the original purchaser and is not transferable. It is not applicable to any product which has been subjected to misuse, neglect, accident or abnormal conditions of operation. Expendable parts are excluded from the warranty.

In the case of a defect in a product covered by this warranty the product must not be further used in order to prevent additional damage. The purchaser shall promptly report any defect to FLIR Systems or this warranty will not apply.

FLIR Systems will, at its option, repair or replace any such defective product free of charge if, upon inspection, it proves to be defective in material or workmanship and provided that it is returned to FLIR Systems within the said one-year period.

FLIR Systems has no other obligation or liability for defects than those set forth above.

No other warranty is expressed or implied. FLIR Systems specifically disclaims the implied warranties of merchantability and fitness for a particular purpose.

FLIR Systems shall not be liable for any direct, indirect, special, incidental or consequential loss or damage, whether based on contract, tort or any other legal theory.

This warranty shall be governed by Swedish law.

Any dispute, controversy or claim arising out of or in connection with this warranty, shall be finally settled by arbitration in accordance with the Rules of the Arbitration Institute of the Stockholm Chamber of Commerce. The place of arbitration shall be Stockholm. The language to be used in the arbitral proceedings shall be English.

Usage statistics

FLIR Systems reserves the right to gather anonymous usage statistics to help maintain and improve the quality of our software and services.

Changes to registry

The registry entry:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet

\Control\Lsa\LmCompatibilityLevel

will be automatically changed to level 2 if the FLIR Camera Monitor service detects a FLIR camera connected to the computer with a USB cable. The modification will only be executed if the camera device implements a remote network service that supports network logons.

U.S. Government Regulations

This product may be subject to U.S. Export Regulations. Please send any inquiries to exportquestions@flir.com.

Disclaimers

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Names and marks appearing on the products herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

Quality assurance

The Quality Management System under which these products are developed and manufactured has been certified in accordance with the ISO 9001 standard.

FLIR Systems is committed to a policy of continuous development; therefore we reserve the right to make changes and improvements on any of the products without prior notice.

Patents

One or several of the following patents and/or design patents may apply to the products and/or features. Additional pending patents and/or pending design patents may also apply.

000279476-0001; 000439161; 000499579-0001; 000653423; 000726344; 000859020; 001106306-0001; 001707738; 001707746; 001707787; 001776519; 001954074; 002021543; 002058180; 002249953; 002531178; 0600574-8; 1144833; 1182246; 1182620; 1285345; 1299699; 1325808; 1336775; 1391114; 1402918; 1404291; 1411581; 1415075; 1421497; 1458284; 1678485; 1732314; 2106017; 2107799; 2381417; 3006596; 3006597; 466540; 483782; 484155; 4889913; 5177595; 60122153.2; 602004011681.5-08; 6707044; 68657; 7034300; 7110035; 7154093; 7157705; 7237946; 7312822; 7332716; 7336823; 7544944; 7667198; 7809258 B2; 7826736; 8,153,971; 8,823,803; 8,853,631; 8018649 B2; 8212210 B2; 8289372; 8354639 B2; 8384783; 8520970; 8565547; 8595689; 8599262; 8654239; 8680468; 8803093; D540838; D549758; D579475; D584755; D599,392; D615,113; D664,580; D664,581; D665,004; D665,440; D677298; D710,424 S; D718801; DI6702302-9; DI6903617-9; DI7002221-6; DI7002891-5; DI7002892-3; DI7005799-0; DM/057692; DM/061609; EP 2115696 B1; EP2315433; SE 0700240-5; US 8340414 B2; ZL 201330267619.5; ZL01823221.3; ZL01823226.4; ZL02331553.9; ZL02331554.7; ZL200480034894.0; ZL200530120994.2; ZL200610088759.5; ZL200630130114.4; ZL200730151141.4; ZL200730339504.7; ZL200820105768.8; ZL200830128581.2; ZL200880105236.4; ZL200880105769.2; ZL200930190061.9; ZL201030176127.1; ZL201030176130.3; ZL201030176157.2; ZL201030595931.3; ZL201130442354.9; ZL201230471744.3; ZL201230620731.8.

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User-to-user forums

Exchange ideas, problems, and infrared solutions with fellow thermographers around the world in our user-to-user forums. To go to the forums, visit:

http://forum.infraredtraining.com/

Calibration

We recommend that you send in the camera for calibration once a year. Contact your local sales office for instructions on where to send the camera.

Accuracy

For very accurate results, we recommend that you wait 5 minutes after you have started the camera before measuring a temperature.

For cameras where the detector is cooled by a mechanical cooler, this time period excludes the time it takes to cool down the detector.

Disposal of electronic waste



As with most electronic products, this equipment must be disposed of in an environmentally friendly way, and in accordance with existing regulations for electronic waste.

Please contact your FLIR Systems representative for more details.

Training

To read about infrared training, visit:

- http://www.infraredtraining.com
- http://www.irtraining.com
- http://www.irtraining.eu

Documentation updates

Our manuals are updated several times per year, and we also issue product-critical notifications of changes on a regular basis.

To access the latest manuals, translations of manuals, and notifications, go to the Download tab at:

http://support.flir.com

In the download area you will also find the latest releases of manuals for our other products, as well as manuals for our historical and obsolete products.

Software updates

FLIR Systems regularly issues software updates and you can update the software using this update service. Depending on your software, this update service is located at one or both of the following locations:

- FLIR Systems > [Software] > Check for updates
- Help > Check for updates.

Additional license information

For each purchased software license, the software may be installed, activated, and used on two devices, e.g., one laptop computer for on-site data acquisition, and one desktop computer for analysis in the office.

About FLIR Systems

FLIR Systems was established in 1978 to pioneer the development of high-performance infrared imaging systems, and is the world leader in the design, manufacture, and marketing of thermal imaging systems for a wide variety of commercial, industrial, and government applications. Today, FLIR Systems embraces five major companies with outstanding achievements in infrared technology since 1958—the Swedish AGEMA Infrared Systems (formerly AGA Infrared Systems), the three United States companies Indigo Systems, FSI, and Inframetrics, and the French company Cedip.

Since 2007, FLIR Systems has acquired several companies with world-leading expertise in sensor technologies:

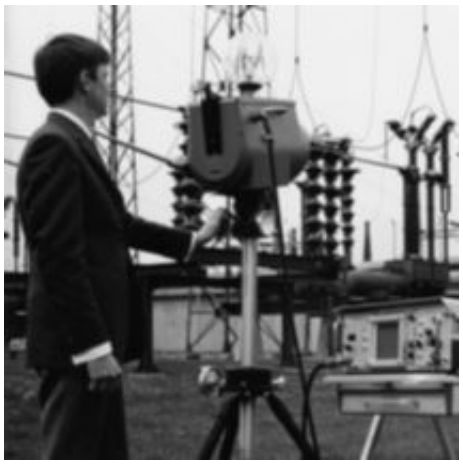
- Extech Instruments (2007)
- Ifara Tecnologías (2008)
- Salvador Imaging (2009)
- OmniTech Partners (2009)
- Directed Perception (2009)
- Raymarine (2010)
- ICx Technologies (2010)
- TackTick Marine Digital Instruments (2011)
- Aerius Photonics (2011)
- Lorex Technology (2012)
- Traficon (2012)
- MARSS (2013)
- DigitalOptics micro-optics business (2013)
- DVTEL (2015)
- Point Grey Research (2016)
- Prox Dynamics (2016)



Patent documents from the early 1960s

FLIR Systems has three manufacturing plants in the United States (Portland, OR, Boston, MA, Santa Barbara, CA) and one in Sweden (Stockholm). Since 2007 there is also a manufacturing plant in Tallinn, Estonia. Direct sales offices in Belgium, Brazil, China, France, Germany, Great Britain, Hong Kong, Italy, Japan, Korea, Sweden, and the USA—together with a worldwide network of agents and distributors—support our international customer base.

FLIR Systems is at the forefront of innovation in the infrared camera industry. We anticipate market demand by constantly improving our existing cameras and developing new ones. The company has set milestones in product design and development such as the introduction of the first battery-operated portable camera for industrial inspections, and the first uncooled infrared camera, to mention just two innovations.



1969: Thermovision Model 661. The camera weighed approximately 25 kg (55 lb.), the oscilloscope 20 kg (44 lb.), and the tripod 15 kg (33 lb.). The operator also needed a 220 VAC generator set, and a 10 L (2.6 US gallon) jar with liquid nitrogen. To the left of the oscilloscope the Polaroid attachment (6 kg/13 lb.) can be seen.



2015: FLIR One, an accessory to iPhone and Android mobile phones. Weight: 90 g (3.2 oz.).

FLIR Systems manufactures all vital mechanical and electronic components of the camera systems itself. From detector design and manufacturing, to lenses and system electronics, to final testing and calibration, all production steps are carried out and supervised by our own engineers. The in-depth expertise of these infrared specialists ensures the accuracy and reliability of all vital components that are assembled into your infrared camera.

More than just an infrared camera

At FLIR Systems we recognize that our job is to go beyond just producing the best infrared camera systems. We are committed to enabling all users of our infrared camera systems to work more productively by providing them with the most powerful camera–software combination. Especially tailored software for predictive maintenance, R & D, and process monitoring is developed in-house. Most software is available in a wide variety of languages.

We support all our infrared cameras with a wide variety of accessories to adapt your equipment to the most demanding infrared applications.

Sharing our knowledge

Although our cameras are designed to be very user-friendly, there is a lot more to thermography than just knowing how to handle a camera. Therefore, FLIR Systems has founded the Infrared Training Center (ITC), a separate business unit, that provides certified training courses. Attending one of the ITC courses will give you a truly hands-on learning experience.

The staff of the ITC are also there to provide you with any application support you may need in putting infrared theory into practice.

Supporting our customers

FLIR Systems operates a worldwide service network to keep your camera running at all times. If you discover a problem with your camera, local service centers have all the

equipment and expertise to solve it within the shortest possible time. Therefore, there is no need to send your camera to the other side of the world or to talk to someone who does not speak your language.

About ITC

Welcome to ITC, the leading source of knowledge within infrared science and its applications

ITC is present in over 50 countries, and has instructors that speak 22 native languages. We offer everything from short introduction courses to certification courses. Our instructors are among the most knowledgeable people in the industry. ITC is proud that its products and services are compliant with industry, national, and international standards. Join our community, our conferences, or our courses at:

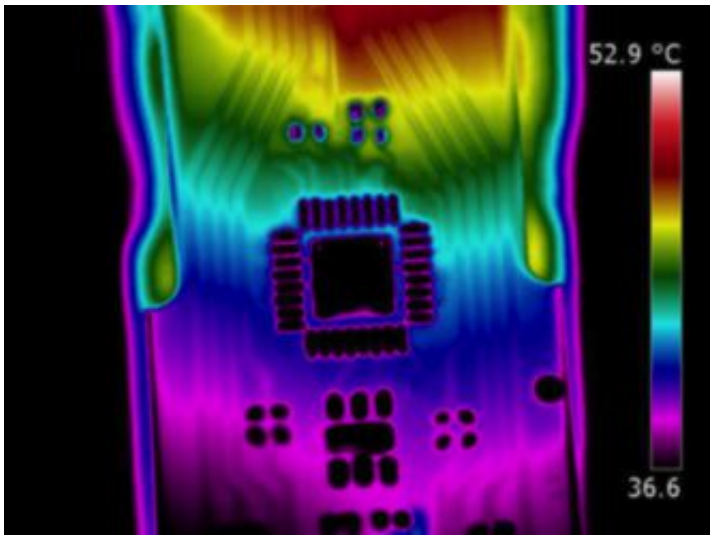
- http:// www.infraredtraining.com
- http://www.irtraining.eu.

Level 1 to 3 thermography courses

These courses prepare you for qualification as a certified thermographer. You will learn about infrared physics, camera technology, and thermographic applications and inspections at different levels. The courses include exercises, field studies, discussions, and traditional teaching classes, and end with a closed-book exam.

Advanced application courses

These interdisciplinary courses bridge the gap between infrared thermography, background science, and application theory. You will learn about important scientific concepts in, for example, physics, heat science, and chemistry. You will apply them together with relevant application theory, and thus be able to perform qualified inspections within your field of application on the basis of existing laws, standards, and regulations. The courses end with an exam. A prerequisite for these courses is a valid Level 1 certificate.



Short courses

These courses provide you with the most important basics of infrared thermography theory and applications, camera operation, and software usage. You will learn about the basics of emissivity and reflected apparent temperature and course-related applications. During the hands-on sessions you will operate a camera in different measurement situations. You will also learn how to analyze and report your findings. The courses include practical exercises and key laboratory sessions.

E-learning

Self-paced 24/7 on-demand online courses are available for infrared thermography basics, different applications, and camera handling. Visit http://www.irtraining.com.

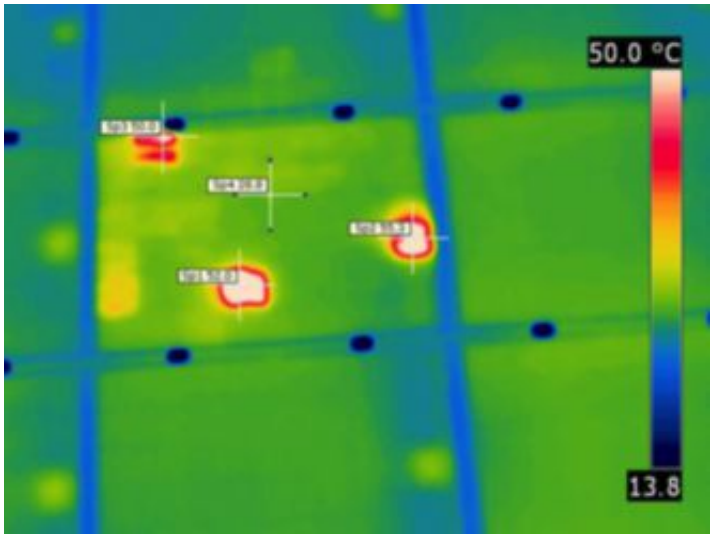
In-house classes

On-site training can be customized to your needs. Participants will learn about infrared thermography, inspections, measurements, applications, and reporting corresponding to the level needed to perform measurements and inspection in their working environment. The trainer will provide useful advice on how to best implement infrared thermography in your business.

About ITC

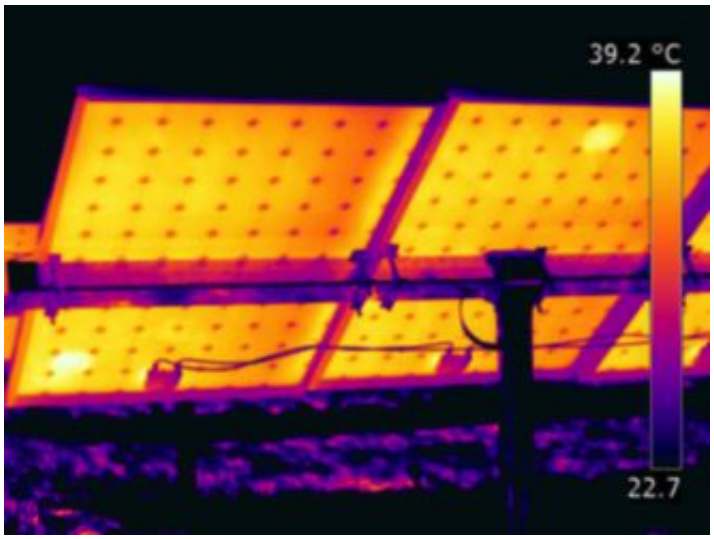
Software courses

In these hands-on classes you will learn to use the relevant FLIR Systems software for your needs. Depending on the software, the emphasis will be on analysis and reporting or camera connection, data acquisition, and analysis.



System training

Certain cameras and infrared measurement equipment require deeper understanding of the software and hardware components. In training classes for CVS, ATS, and automation cameras and products, you will learn about installation, configuration, and integration of the entire system for different applications. You will also learn about image acquisition optimization and image analysis.



Workshops and conferences

In many countries, ITC offers workshops and conferences on different infrared applications as well as user meetings. For information about InfraMation, the world's largest annual infrared applications conference, visit:

http://www.inframation.org

For the R&D and automation conference, infraR&D, visit:

http://www.infraredforum.eu

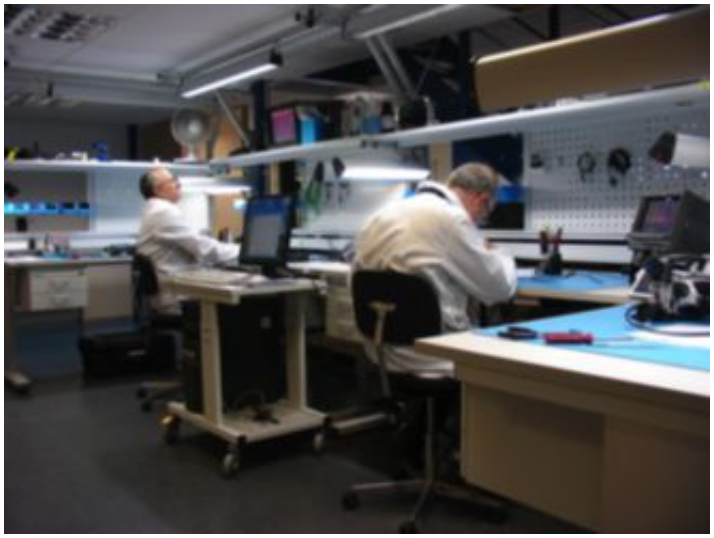
Contact details

- ITC Global operations: itc@flir.se
- ITC Americas: http://www.infraredtraining.com
- ITC EMEA: http://www.irtraining.eu
- info@irtraining.eu

Service and support

FLIR Systems' qualifications

FLIR Systems is the world's largest manufacturer of commercial-grade infrared cameras, with over 50 years' experience. FLIR Systems builds state-of-the-art, high-performance, field-worthy infrared cameras. We're serious about our infrared cameras and the accuracy of the temperature measurements they produce. It's our core business—and it's our only business. FLIR Systems Service is ISO 9001:2000 certified.



FLIR Systems service

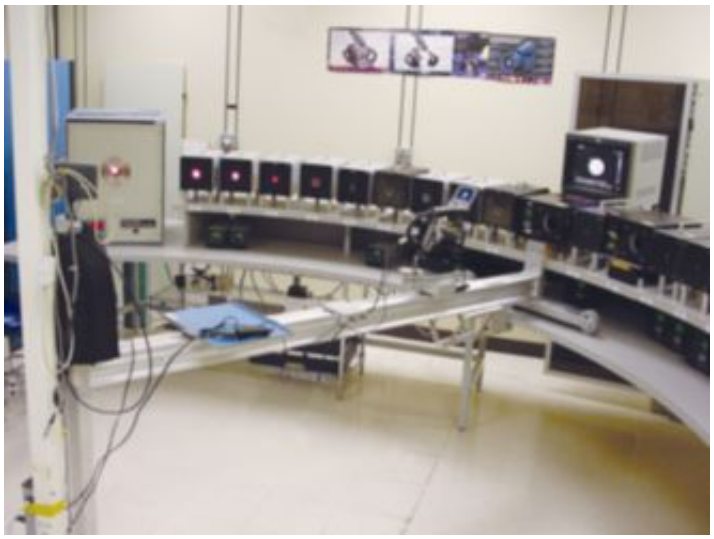
The FLIR Systems service team's mission is to provide the world's best service and support for your high-performance infrared camera and accessories. FLIR Systems offers a variety of service packages to help you gain the most from your investment in an infrared camera. FLIR Systems also recommends its 14 Point Inspection & Calibration program on an annual basis to ensure correct temperature readings.



Service and support

FLIR Systems is committed to providing you with superior customer service and infrared camera support. Our customer service staff is available to take your calls during regular business hours. We have skilled technicians ready to assist you! Software and application support can be found 24 hours a day at:

http://support.flir.com



Documentation downloads

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FLIR T&M instruments

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P/N: CM42

Revision

42519

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Website

http://www.flir.com

Customer support

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General description	
Part number	CM42
Part name	Professional 400A TRMS AC Clamp Meter

The FLIR CM42 Clamp Meter is a professional and affordable true RMS meter designed for commercial and residential electricians. The FLIR CM42 features AC clamp measurement to meet your unique needs. The meter is equipped with a bright backlit display for ease of use inside electrical panels. Accu-Tip technology delivers amperage measurements on smaller-gauged wires more accurately—to a 10th of a digit. It offers MAX/MIN/AVG recording, frequency measurement, and electrical field detection to help you determine voltage presence and relative strength of the field. Made with an over-molded, easy-to-grip design, the FLIR CM42 clamp meter is durable enough to withstand a 2 m drop, and the slim form factor is convenient to carry in your toolbag anywhere you go.

Professional performance at an affordable price:

- Operates at –10 to 50°C (14–122°F).
- Built to accept up to a 30 mm conductor.
- True RMS measurements.

Features: DC voltage, AC voltage (digital low-pass filter/VFD), clamp-on AC current, Accu-Tip clamp-on AC current, frequency, resistance, diode.

Electrical measurement	
True RMS voltage	Yes
Auto-ranging	Yes
DC V range	600.0 V
DC V accuracy	±1.0% + 5 digits
AC V range with digital low-pass filter	600.0 V
AC V range with digital low-pass filter: accuracy	±1.0% + 5 digits (50–60 Hz)
Resistance range	600.0 Ω, 6.000 kΩ, 60.00 kΩ
Resistance	±1.0% + 5 digits
Continuity	600.0 Ω ± 1.0% + 5 digits
Diode	2.000 V ± 1.5% + 5 digits

Low-current Accu-Tip clamp-on AC A	
Range (50–60 Hz)	60.00 A
Accuracy[1] [2] [3] (50–60 Hz)	±2.% + 5 digits

1. Induced error from an adjacent current-carrying conductor is <0.06 A/A.
2. Add 10 digits to the specified accuracy at <4 A.
3. Position of the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8 mm.

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Standard clamp-on AC A	
Range (50–60 Hz)	60.00 A, 400.0 A
Accuracy[1] [2] [3] [4] (50–60 Hz)	±2.0% + 5 digits
Range (60–400 Hz)	60.00 A, 400.0 A
Accuracy[5] [6] [7] [8] (60–400 Hz)	±3.0% + 5 digits

Line level frequency	
Function (5.00–999.9 Hz)	600 V
Sensitivity[9] (Sine RMS) (5.00–999.9 Hz)	50 V
Function (50.00–400.0 Hz)	60 A (low-current mode)
Sensitivity[10] (Sine RMS) (50.00–400.0 Hz)	40 A
Function (50.00–400.0 Hz)	60 A, 400 A
Sensitivity[11] (Sine RMS) (50.00–400.0 Hz)	40 A
Accuracy	1% + 5 digits

Non-contact EF voltage detection	
Typical voltage (tolerance: 10–36 V)	20 V
Bar graph indication	-
Typical voltage (tolerance: 23–83 V)	55 V
Bar graph indication	- -
Typical voltage (tolerance: 59–165 V)	110 V
Bar graph indication	- - -
Typical voltage (tolerance: 124–330 V)	220 V
Bar graph indication	- - - -
Typical voltage (tolerance: 250–600 V)	440 V
Bar graph indication	- - - - -
Indication	Number of bar graph segments and audible beep tones proportional to the detected field strength
Detection frequency	50/60 Hz
Detector	Located inside the top of the stationary jaw
Additional measurement functions	Data hold, MIN/MAX/AVG, backlit LCD

General	
Jaw opening	30 mm (1.2 in.) maximum
Display counts	6000
Measuring rate	5 times per second nominal

1. Induced error from an adjacent current-carrying conductor is <0.06 A/A.
2. Specified accuracy is for measurements made at the jaw center. When the conductor is not positioned at the jaw center, add 2% to the specified accuracy for position errors.
3. Add 10 digits to the specified accuracy at <6 A.
4. Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
5. Induced error from an adjacent current-carrying conductor is <0.06 A/A.
6. Specified accuracy is for measurements made at the jaw center. When the conductor is not positioned at the jaw center, add 2% to the specified accuracy for position errors.
7. Add 10 digits to the specified accuracy at <6 A.
8. Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
9. DC bias, if any, not more than 50% of sine RMS.
10. DC bias, if any, not more than 50% of sine RMS.
11. DC bias, if any, not more than 50% of sine RMS.

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General	
Calibration cycle	1 year calibration cycle recommended
Auto power off	32 minutes of inactivity
Power source	2 × 1.5 V AAA alkaline batteries

Environmental data	
Operational temperature	–10 to +50°C (14–122°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	80% maximum RH up to 31°C (88°F) decreasing linearly to 50% maximum RH at 50°C (122°F)
Temperature coefficient	0.15 × (specified accuracy)/°C, @ 0°C (32°F) to 18°C (64.4°F) or 28°C (82.4°F) to 50°C (122°F), or as otherwise specified
Operating altitude	2000 m (6562 ft.) maximum
Pollution degree	2

Physical data	
Dimensions (L × W × H)	217 mm × 76 mm × 37 mm (8.5 in. × 3.0 in. × 1.5 in.)
Weight	186 g (6.6 oz.)

Warranty	
Warranty	FLIR Limited Lifetime Warranty with product registration

Certifications	
Certifications	CE, cULus
Safety category rating	EN 61010-1 CAT IV—300 V, CAT III—600 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM4x, 2 × AAA batteries, premium CAT IV silicone test leads, FLIR carrying pouch, quick start guide, warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 10.7 cm (13 in. × 5.5 in. × 4.3 in.)
Master carton weight	10.6 kg (23.4 lb.)
Master carton dimensions (H × W × L)	62.3 cm × 29.3 cm × 36.1 cm (24.6 in. × 11.6 in. × 14.3 in.)
Master carton quantity	12
UPC	793950370421
EAN	0793950370421
Country of origin	Taiwan
Tariff code	9030.31.0000

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA55	AC Current Line Splitter (120 V, US plug)
TA70	CAT IV Insulated Alligator Probes
TA80	CAT IV Silicone Test Leads

P/N: CM44

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General description	
Part number	CM44
Part name	Professional 400A TRMS AC Clamp Meter + Type K

The FLIR CM44 Clamp Meter is a professional and affordable true RMS meter designed for commercial and residential electricians. The FLIR CM44 features AC clamp measurement to meet your unique needs. The meter is equipped with a bright backlit display for ease of use inside electrical panels. Accu-Tip technology delivers amperage measurements on smaller-gauged wires more accurately—to a 10th of a digit. It offers MAX/MIN/AVG recording, frequency measurement, and electrical field detection to help you determine voltage presence and relative strength of the field. Made with an over-molded, easy-to-grip design, the FLIR CM44 clamp meter is durable enough to withstand a 2 m drop, and the slim form factor is convenient to carry in your toolbag anywhere you go.

Professional performance at an affordable price:

- Operates at –10 to 50°C (14–122°F).
- Built to accept up to a 30 mm conductor.
- True RMS measurements.

Features: DC voltage, AC voltage (digital low-pass filter/VFD), clamp-on AC current, Accu-Tip clamp-on AC current, frequency, resistance, capacitance, diode, DC µA, temperature.

Electrical measurement	
True RMS voltage	Yes
Auto-ranging	Yes
DC V range	600.0 V
DC V accuracy	±1.0% + 5 digits
AC V range with digital low-pass filter	600.0 V
AC V range with digital low-pass filter: accuracy	±1.0% + 5 digits (50–60 Hz)
Peak RMS inrush current (AC V and AC A)	
Response	80 ms to >90%
Resistance range	600.0 Ω, 6.000 kΩ, 60.00 kΩ
Resistance	±1.0% + 5 digits
Continuity	600.0 Ω ± 1.0% + 5 digits
Diode	2.000 V ± 1.5% + 5 digits
Capacitance	200.0 µF, 2500 µF ± 2.0% + 4 digits[1]
DC µA	200.0 µA, 2000 µA

1. Accuracy specified for film capacitors or better.

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Electrical measurement	
DC µA accuracy (burden voltage)	±1.0% + 5 digits (3.5 mV/µA)

Temperature	
Range[1], accuracy[2]	–40.0 to 99.9°C, ±1.0% + 1°C
Range[3], accuracy[4]	100–400°C, ±1.0% + 1°C
Range[5], accuracy[6]	–40 to 99.9°F, ±1.0% + 2°F
Range[7], accuracy[8]	100–752°F, ±1.0% + 2°F

Low-current Accu-Tip clamp-on AC A	
Range (50–60 Hz)	60.00 A
Accuracy[9] [10] [11] [12] (50–60 Hz)	±2.% + 5 digits

Standard clamp-on AC A	
Range (50 Hz~60 Hz)	60.00 A, 400.0 A
Accuracy[13] [14] [15] [16] (50–60 Hz)	±2.0% + 5 digits
Range (60–400 Hz)	60.00 A, 400.0 A
Accuracy [17] [18] [19] [20] (60–400 Hz)	±3.0% + 5 digits

Line level frequency	
Function (5.00–999.9 Hz)	600 V
Sensitivity[21] (Sine RMS) (5.00–999.9 Hz)	50 V
Function (50.00 Hz~400.0 Hz)	60 A (low-current mode)

1. Supplied thermocouple is rated for –20 to 250°C (–4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
2. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
3. Supplied thermocouple is rated for –20 to 250°C (–4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
4. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
5. Supplied thermocouple is rated for –20 to 250°C (–4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
6. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
7. Supplied thermocouple is rated for –20 to 250°C (–4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
8. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
9. Induced error from adjacent current-carrying conductor <0.06 A/A.
10. Specified with relative/DC zero mode applied to offset non-zero residual readings.
11. Add 10 digits to the specified accuracy at <4nA.
12. Position the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8nmm.
13. Induced error from an adjacent current-carrying conductor is <0.06 A/A.
14. Specified accuracy is for measurement made at the jaw center. When the conductor is not positioned at the jaw center, add 2% to the specified accuracy for position errors.
15. Add 10 digits to the specified accuracy at <6 A.
16. Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
17. Induced error from an adjacent current-carrying conductor is <0.06 A/A.
18. Specified accuracy is for measurement made at the jaw center. When the conductor is not positioned at the jaw center, add 2% to the specified accuracy for position errors.
19. Add 10 digits to the specified accuracy at <6 A.
20. Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
21. DC bias, if any, not more than 50% of sine RMS.

P/N: CM44

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Line level frequency	
Sensitivity[1] (Sine RMS) (50.00–400.0 Hz)	40 A
Function (50.00 Hz~400.0 Hz)	60 A, 400 A
Sensitivity[2] (Sine RMS) (50.00–400.0 Hz)	40 A
Accuracy	1% + 5 digits

Non-Contact EF Voltage Detection	
Typical voltage (tolerance: 10–36 V)	20 V
Bar graph indication	-
Typical voltage (tolerance: 23–83 V)	55 V
Bar graph indication	- -
Typical voltage (tolerance: 59–165 V)	110 V
Bar graph indication	- - -
Typical voltage (tolerance: 124–330 V)	220 V
Bar graph indication	- - - -
Typical voltage (tolerance: 250–600 V)	440 V
Bar graph indication	- - - - -
Indication	Number of bar graph segments and audible beep tones proportional to the detected field strength
Detection frequency	50/60 Hz
Detector:	Located Inside the top of the stationary jaw
Additional measurement functions	Data hold, MIN/MAX/AVG, backlit LCD, 80 ms peak RMS inrush current mode, relative/DC zero

General	
Jaw opening	30 mm (1.2 in.) maximum
Display counts	6000
Measuring rate	5 times per second nominal
Calibration cycle	1 year calibration cycle recommended
Auto power off	32 minutes of inactivity
Power source	2 × 1.5 V AAA alkaline batteries

Environmental data	
Operational temperature	–10 to +50°C (14–122°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	80% maximum RH up to 31°C (88°F) decreasing linearly to 50% maximum RH at 50°C (122°F)
Temperature coefficient	0.15 × (specified accuracy)/°C, @ 0°C (32°F) to 18°C (64.4°F) or 28°C (82.4°F) to 50°C (122°F), or as otherwise specified
Operating altitude	2000 m (6562 ft.) maximum
Pollution degree	2

1. DC bias, if any, not more than 50% of sine RMS.
2. DC bias, if any, not more than 50% of sine RMS.

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Website

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Customer support

http://support.flir.com

Physical data	
Dimensions (L × W × H)	217 mm × 76 mm × 37 mm (8.5 in. × 3.0 in. × 1.5 in.)
Weight	186 g (6.6 oz.)

Warranty	
Warranty	FLIR Limited Lifetime Warranty with product registration

Certifications	
Certifications	CE, cULus
Safety category rating	EN 61010-1 CAT IV—300 V, CAT III—600 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM4x, 2 × AAA batteries, premium CAT IV silicone test leads, type-K thermocouple, FLIR carrying pouch, quick start guide, warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 10.7 cm (13 in. × 5.5 in. × 4.3 in.)
Master carton weight	10.6 kg (23.4 lb.)
Master carton dimensions (H × W × L)	62.3 cm × 29.3 cm × 36.1 cm (24.6 in. × 11.6 in. × 14.3 in.)
Master carton quantity	12
UPC	793950370445
EAN	0793950370445
Country of origin	Taiwan
Tariff code	9030.31.0000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA55	AC Current Line Splitter (120 V, US plug)
TA60	Thermocouple Probe with Adapter
TA70	CAT IV Insulated Alligator Probes
TA80	CAT IV Silicone Test Leads

P/N: CM46

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Website

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General description	
Part number	CM46
Part name	Professional 400A TRMS AC/DC Clamp Meter + Type K

The FLIR CM46 Clamp Meter is a professional and affordable true RMS meter designed for commercial and residential electricians. The FLIR CM46 offers both AC and DC measurement to meet your unique needs. The meter is equipped with a bright backlit display for ease of use inside electrical panels. Accu-Tip technology delivers amperage measurements on smaller-gauged wires more accurately—to a 10th of a digit. It offers MAX/MIN/AVG recording, frequency measurement, and electrical field detection to help you determine voltage presence and relative strength of the field. Made with an over-molded, easy-to-grip design, the FLIR CM46 clamp meter is durable enough to withstand a 2 m drop, and the slim form factor is convenient to carry in your toolbag anywhere you go.

Professional performance at an affordable price:

- Operates at –10 to 50°C (14–122°F).
- Built to accept up to a 30 mm conductor.
- True RMS measurements.

Features: DC voltage, AC voltage (digital low-pass filter/VFD), AC + DC voltage (digital low-pass filter/VFD), clamp-on AC current, Accu-Tip clamp-on AC current, clamp-On DC current, Accu-Tip clamp-on DC current, frequency, resistance, capacitance, diode, DC µA, temperature.

Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes
DC V range	600.0 V
DC V accuracy	±1.0% + 5 digits
AC V range with digital low-pass filter	600.0 V
AC V range with digital low-pass filter: accuracy	±1.0% + 5 digits (50–60 Hz)
DC + AC V with digital low-pass filter	600.0 V
DC + AC V with digital low-pass filter: accuracy	±1.2% + 7 digits (50–60 Hz)
Peak RMS inrush current	
Response	80 ms to >90%
Resistance range	600.0 Ω, 6.000 kΩ, 60.00 kΩ
Resistance	±1.0% + 5 digits
Continuity	600.0 Ω ± 1.0% + 5 digits
Diode	2.000 V ± 1.5% + 5 digits

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Website

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Electrical measurement	
Capacitance	200.0 µF, 2500 µF ± 2.0% + 4 digits[1]
DC µA	200.0 µA, 2000 µA
DC µA accuracy (burden voltage)	±1.0% + 5 digits (3.5 mV/µA)

Temperature	
Range[2], accuracy[3]	–40.0 to 99.9°C, ±1.0% + 1°C
Range[4], accuracy[5]	100–400°C, ±1.0% + 1°C
Range[6], accuracy[7]	–40 to 99.9°F, ±1.0% + 2°F
Range[8], accuracy[9]	100–752°F, ±1.0% + 2°F

Low-current Accu-Tip clamp-on AC A	
Range (50–60 Hz)	60.00 A
Accuracy[10] [11] [12] [13] (50–60 Hz)	±1.5% + 5 digits

Low-current Accu-Tip clamp-on DC A	
Range	60.00 A
Accuracy[14] [15] [16] [17] (50–60 Hz)	±2.0% + 5 digits

Low-current Accu-Tip clamp-on DC A + AC A	
Range (50–60 Hz)	60.00 A
Accuracy[18] [19] [20] [21] (50–60 Hz)	±2.0% + 7 digits

Standard clamp-on AC A	
Range (50–60 Hz)	60.00 A, 400.0mA
Accuracy 1, 2, 3 (50–60 Hz)	±1.8% + 5 digits

1. Accuracy specified for film capacitors or better.
2. Supplied thermocouple is rated for –20 to 250°C (–4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
3. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
4. Supplied thermocouple is rated for –20 to 250°C (–4 to 482°F)) only, and therefore not rated for the entire specified temperature range of the meter.
5. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
6. Supplied thermocouple is rated for –20 to 250°C (–4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
7. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes >5°C (9°F), may be required.
8. Supplied thermocouple is rated for –20 to 250°C (–4 to 482°F) only, and therefore not rated for the entire specified temperature range of the meter.
9. K-type thermocouple range and accuracy not included. Accuracies assume the meter interior has the same temperature as the ambient temperature for correct junction voltage compensation. Allow adequate time for stabilization for significant changes of ambient temperature. Up to an hour, for changes 5°C (9°F), may be required.
10. Induced error from adjacent current-carrying conductor <0.01 A/A.
11. Specified with relative/DC zero mode applied to offset non-zero residual readings.
12. Add 10 digits to the specified accuracy at <4 A.
13. Position the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8 mm.
14. Induced error from adjacent current-carrying conductor <0.01 A/A.
15. Specified with relative/DC zero mode applied to offset non-zero residual readings.
16. Add 10 digits to the specified accuracy @ < 4A.
17. Position the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8 mm.
18. Induced error from adjacent current-carrying conductor <0.01 A/A.
19. Specified with relative/DC zero mode applied to offset non-zero residual readings.
20. Add 10 digits to the specified accuracy at <4 A.
21. Position the conductor at the center of the Accu-Tip area. Conductor size must not exceed 8.8 mm.

P/N: CM46

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Website

http://www.flir.com

Customer support

http://support.flir.com

Standard clamp-on AC A	
Range (100–400 Hz)	60.00 A, 400.0 A
Accuracy[1] [2] [3] (100–400 Hz)	±2.0% + 5 digits

Standard clamp-on DC A	
Range	60.00 A
Accuracy[4] [5] [6]	±2.0% + 5 digits

Standard clamp-on DC A + AC A	
Range (50–100 Hz)	60.00 A, 400.0 A
Accuracy[7] [8] [9] (50–100 Hz)	± (2.2% + 7 digits
Range (100–400 Hz)	60.00 A, 400.0A
Accuracy[10] [11] [12] (100–400 Hz)	±2.7% + 7 digits

Line level frequency	
Function (5.00–999.9 Hz)	600 V
Sensitivity[13] (Sine RMS) (5.00–999.9 Hz)	50 V
Function (50.00–400.0 Hz)	60 A (low-current mode)
Sensitivity[14] (Sine RMS) (50.00–400.0 Hz)	40 A
Function (50.00–400.0 Hz)	60 A, 400 A
Sensitivity[15] (Sine RMS) (50.00–400.0 Hz)	40 A
Accuracy	1% + 5 digits

Non-contact EF voltage detection	
Typical voltage (tolerance: 10–36 V)	20 V
Bar graph indication	-
Typical voltage (tolerance: 23–83 V)	55 V
Bar graph indication	- -
Typical Voltage (tolerance: 59–165 V)	110 V
Bar graph indication	- - -
Typical voltage (tolerance: 124–330 V)	220 V
Bar graph indication	- - - -
Typical voltage (tolerance: 250–600 V)	440 V
Bar graph indication	- - - - -
Indication	Number of bar graph segments & audible beep tones proportional to the detected field strength

1. Induced error from adjacent current-carrying conductor <0.01 A/A.
2. Add 10 digits to the specified accuracy at <9 A.
3. Add 3% to the accuracy specification for a crest factor of between 1.0 and 2.0. If the crest factor is >2.0, the reading may not meet specified tolerances.
4. Induced error from adjacent current-carrying conductor <0.01 A/A.
5. Specified with relative/DC zero mode applied to offset non-zero residual readings.
6. Add 10 digits to the specified accuracy at <9 A.
7. Induced error from adjacent current-carrying conductor <0.01 A/A.
8. Specified with relative/DC zero mode applied to offset non-zero residual readings.
9. Add 10 digits to the specified accuracy @ < 9A.
10. Induced error from adjacent current-carrying conductor <0.01 A/A.
11. Specified with relative/DC zero mode applied to offset non-zero residual readings.
12. Add 10 digits to the specified accuracy @ < 9A.
13. DC bias, if any, not more than 50% of sine RMS.
14. DC bias, if any, not more than 50% of sine RMS.
15. DC bias, if any, not more than 50% of sine RMS.

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Website

http://www.flir.com

Customer support

http://support.flir.com

Non-contact EF voltage detection	
Detection frequency	50/60 Hz
Detector	Located Inside the top of the stationary jaw
Additional measurement functions	Data hold, MIN/MAX/AVG, backlit LCD, 80 ms peak RMS inrush current mode, relative/DC zero

General	
Jaw opening	30 mm (1.2 in.) maximum
Display counts	6000
Measuring rate	5 times per second nominal
Calibration cycle	1 year calibration cycle recommended
Auto power off	32 minutes of inactivity
Power source	2 × 1.5 V AAA alkaline batteries

Environmental Data	
Operational temperature	–10 to +50°C (14–122°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	80% maximum RH up to 31°C (88°F) decreasing linearly to 50% maximum RH at 50°C (122°F)
Temperature coefficient	0.15 × (specified accuracy)/°C, @ 0°C (32°F) to 18°C (64.4°F) or 28°C (82.4°F) to 50°C (122°F), or as otherwise specified
Operating altitude	2000 m (6562 ft.) maximum
Pollution degree	2

Physical data	
Dimensions (L × W × H)	223 mm × 76 mm × 37 mm (8.8 in. × 3.0 in. × 1.5 in.)
Weight:	243 g (8.3 oz.)

Warranty	
Warranty	FLIR Limited Lifetime Warranty with product registration

Certifications	
Certifications	CE, cULus
Safety category rating	EN 61010-1 CAT IV—300 V, CAT III—600 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM4x, 2 × AAA batteries, premium CAT IV silicone test leads, type-K thermocouple, FLIR carrying pouch, quick start guide, warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 10.7 cm (13 in. × 5.5 in. × 4.3 in.)
Master carton weight	10.6 kg (23.4 lb.)

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Shipping information	
Master carton dimensions (H × W × L)	62.3 cm × 29.3 cm × 36.1 cm (24.6 in. × 11.6 in. × 14.3 in.)
Master carton quantity	12
UPC	793950370469
EAN	0793950370469
Country of origin	Taiwan
Tariff code	9030.31.0000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA55	AC Current Line Splitter (120 V, US plug)
TA60	Thermocouple Probe with Adapter
TA70	CAT IV Insulated Alligator Probes
TA80	CAT IV Silicone Test Leads

FLIR CM55

P/N: CM55

Revision

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Website

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Customer support

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Part number	CM55
Name	Flex Clamp Meter with Bluetooth
Description	10″ (25 cm) 3000 A true RMS AC flexible current clamp meter with Bluetooth

The FLIR Flex Clamp Meters with Bluetooth are ergonomic tools designed to simplify difficult current measurements. Made with a narrow flexible coil clamp, the FLIR CM55 and CM57 let you easily take measurements in tight or awkward spots—a difficult task with a traditional hard jaw clamp meter. With Bluetooth communication for remote viewing and data transfer to iOS and Android devices via the FLIR Tools Mobile app, you can analyze and share data fast right from the job site.

Take accurate measurements in tight or awkward spots—tricky conductors conquered:

- Snake the coil around obstacles with ease, even in deep, crowded cabinets.
- True RMS AC up to 3000 A for multiple conductor measurements.
- Inrush current function for equipment start-up spikes.

Easy inspection and navigation—designed with your convenience in mind:

- Standalone flexible clamp meter displays the readings you need.
- Bright, dual-LED worklights provide built-in illumination for dark cabinets.
- Drop tested to 3 m, portable, lightweight, and tangle free without compromising measurement range.

Remote viewing from a safe distance—transfer and view data on mobile devices with the FLIR Tools Mobile app:

- Connect to iOS and Android smartphones or tablets.
- Multiple units wirelessly connect for remote viewing of multiphase systems.
- Data recording for trend analysis transferable via Bluetooth.

Measurement	
Maximum AC	3000 A AC
AC response	True RMS
AC ranges and resolution	30.00 A, 300.0 A, 3000 A
Basic AC accuracy (of reading)	±3.0% + 5 digits
Maximum resolution	0.01 A
Measurement rate	1.5 samples per second, nominal
Display rate	2 times per second
AC bandwidth	45–500 Hz (sine wave)
Inrush current	Minimum 0.5 A, 100 mS
Data record mode	20 000 points , 1 minute sample rate
Detailed accuracy	30.00 A ± (3.0% + 5 digits), 300.0 A ± (3.0% + 5 digits), 3000 A ± (3.0% + 5 digits)
Positional error (distance from optimum)	15 mm (0.6″) ± 2.0%, 25 mm (1.0″) ± 2.5%, 35 mm (1.4″) ± 3.0%

FLIR CM55

P/N: CM55

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Website

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Customer support

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Meter data	
Display	3000-count LCD with backlight and multi-function indicators
Maximum conductor diameter	6 cm (2.4″)
Flex cable length	25 cm (10″)
Coil bend radius	38.1 mm (1.5″)
Coil diameter	7.5 mm (0.3″)
Coil tip diameter	13 mm (0.5″)
Display indications	Progressive low battery, over range, hold
Work light	Two white LEDs
Bluetooth range (maximum)	10 m (32′)
Wireless ID# (maximum)	Up to 20

Power system	
Power supply	2 × 1.5 V AAA
Battery life	100 hours with alkaline batteries (calculated)
Auto power off	Approximately 10 minutes after power on or disable

Environmental	
Drop test	3 m (9.8′)
IP rating	IP54 dust-protected and splash-resistant
Maximum operating altitude	2000 m (6562′)
Operating temperature	0–50°C (32–122°F)
Operating humidity	Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F)
Temperature coefficient	0.2 × specified accuracy/°C, <64.5°F (18°C), >82.4°F (28°C)
Storage temperature	–20 to +60°C (–4 to +140°F) without batteries
Storage humidity	80% relative humidity (maximum)

Certifications	
Agency approvals	RCM, CSA, KC
Safety compliance	CAT IV—600 V, CAT III—1000 V
Standards	EN61010-1, EN61010-2-032, EN61326-1

Physical data	
Dimensions (W × H × D)	120 mm × 280 mm × 25 mm (4.7″ × 11.0″ × 1.0″)
Weight	170 g (6.0 oz.) with batteries

Shipping	
Packaging type	Color box
Packaging contents	CM55, 2 × AAA 1.5 V Energizer batteries, quick start guide, user manual on CD
Packaging weight	0.56 kg
Packaging dimensions (L × W × H)	32 cm × 18.5 cm × 6.8 cm
Inner carton quantity	3

P/N: CM55

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Website

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Customer support

http://support.flir.com

Shipping	
Inner carton weight	1.94 kg
Inner carton dimensions (L × W × H)	59.5 cm × 6.3 cm × 20.3 cm
Master carton quantity	12
Master carton weight	9.5 kg
Master carton dimensions (L × W × H)	61 cm × 50 cm × 22 cm
EAN-13	0793950370551
UPC-12	793950370551
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR CM57

P/N: CM57

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	CM57
Name	Large Flex Clamp Meter with Bluetooth
Description	18″(45cm) 3000 A true RMS AC flexible current clamp meter with Bluetooth

The FLIR Flex Clamp Meters with Bluetooth are ergonomic tools designed to simplify difficult current measurements. Made with a narrow flexible coil clamp, the FLIR CM55 and CM57 let you easily take measurements in tight or awkward spots—a difficult task with a traditional hard jaw clamp meter. With Bluetooth communication for remote viewing and data transfer to iOS and Android devices via the FLIR Tools Mobile app, you can analyze and share data fast right from the job site.

Take accurate measurements in tight or awkward spots—tricky conductors conquered:

- Snake the coil around obstacles with ease, even in deep, crowded cabinets.
- True RMS AC up to 3000 A for multiple conductor measurements.
- Inrush current function for equipment start-up spikes.

Easy inspection and navigation—designed with your convenience in mind:

- Standalone flexible clamp meter displays the readings you need.
- Bright, dual-LED worklights provide built-in illumination for dark cabinets.
- Drop tested to 3 m, portable, lightweight, and tangle free without compromising measurement range.

Remote viewing from a safe distance—transfer and view data on mobile devices with the FLIR Tools Mobile app:

- Connect to iOS and Android smartphones or tablets.
- Multiple units wirelessly connect for remote viewing of multiphase systems.
- Data recording for trend analysis transferable via Bluetooth.

Measurement	
Maximum AC	3000 A AC
AC response	True RMS
AC ranges and resolution	30.00 A, 300.0 A, 3000 A
Basic AC accuracy (of reading)	±3.0% + 5 digits
Maximum resolution	0.01 A
Measurement rate	1.5 samples per second, nominal
Display rate	2 times per second
AC bandwidth	45–500 Hz (sine wave)
Inrush current	Minimum 0.5 A, 100 mS
Data record mode	20 000 points , 1 minute sample rate
Detailed accuracy	30.00 A ± (3.0% + 5 digits), 300.0 A ± (3.0% + 5 digits), 3000 A ± (3.0% + 5 digits)
Positional error (distance from optimum)	35 mm (1.4″) ± 1.0%, 50 mm (2.0″) ± 1.5%, 60 mm (2.4″) ± 2.0%

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Website

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Customer support

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Meter data	
Display	3000-count LCD with backlight and multi-function indicators
Maximum conductor diameter	12 cm (4.7″)
Flex cable length	45 cm (18″)
Coil bend radius	80 mm (3.1″)
Coil diameter	7.5 mm (0.3″)
Coil tip diameter	13 mm (0.5″)
Display indications	Progressive low battery, over range, hold
Work light	Two white LEDs
Bluetooth range (maximum)	10 m (32′)
Wireless ID# (maximum)	Up to 20

Power System	
Power supply	2 × 1.5 V AAA
Battery life	100 hours with alkaline batteries (calculated)
Auto power off	Approximately 10 minutes after power on or disable

Environmental	
Drop test	3 m (9.8′)
IP rating	IP54 dust-protected and splash-resistant
Maximum operating altitude	2000 m (6562′)
Operating temperature	0–50°C (32–122°F)
Operating humidity	Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F)
Temperature coefficient	0.2 × specified accuracy/°C, <64.5°F (18°C), >82.4°F (28°C)
Storage temperature	–20 to +60°C (–4 to +140°F) without batteries
Storage humidity	80% relative humidity (maximum)

Certifications	
Agency approvals	RCM, CSA, KC
Safety compliance	CAT IV—600 V, CAT III—1000 V
Standards	EN61010-1, EN61010-2-032, EN61326-1

Physical data	
Dimensions (W × H × D)	120 mm × 280 mm × 25 mm (4.7″ × 11.0″ × 1.0″))
Weight	200 g (7.1 oz.) with batteries

Shipping	
Packaging type	Color box
Packaging contents	CM57, 2 × AAA 1.5 V Energizer batteries, quick start guide, user manual on CD
Packaging weight	0.57 kg
Packaging dimensions (L × W × H)	32 cm × 18.5 cm × 6.8 cm
Inner carton quantity	3

P/N: CM57

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Website

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Customer support

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Shipping	
Inner carton weight	1.94 kg
Inner carton dimensions (L × W × H)	59.5 cm × 6.3 cm × 20.3 cm
Master carton quantity	12
Master carton weight	9.5 kg
Master carton dimensions (L × W × H)	61 cm × 50 cm × 22 cm
EAN-13	0793950370575
UPC-12	793950370575
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR CM72: Commercial 600A AC Clamp Meter

P/N: CM72

Revision

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Website

http://www.flir.com

Customer support

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General description	
Part number	CM72
Part name	Commercial 600A AC Clamp Meter
The FLIR CM72 600A AC Clamp Meter give you better access to wiring in hard-to-reach places, and provides all the measurement capabilities you need for advanced troubleshooting. Made with a narrow jaw and high-powered LED worklights, the FLIR CM72 makes it easier to take measurements in dark, crowded panels and cabinets. Its slim, light design is convenient to carry in your pocket wherever you go. With advanced electrical features including auto-ranging, true RMS voltage and current, LoZ, and an input for a flexible current probe accessory, the FLIR CM72 has all the measurement functions you need to stay competitive and ensure accurate readings.	
Better clamp access and portability: • Take measurements in hard-to-reach places, and carry the clamp wherever you go. • Made with a narrow jaw for easy access to wiring in crowded panels and cabinets. • Slim clamp design makes it convenient to carry in your pocket. • Dual bright high-powered LED worklights guide you to your target in poor lighting conditions.	
All the electrical features you need: • Tackle modern challenges, get accurate readings. • Advanced electrical features including true RMS, LoZ, and smart diode with disable. • Expandable to 3000 A AC with the FLIR TA72 and TA74 Flex Clamp Accessories (sold separately). • Minimum/maximum, hold, and auto power off with disable.	
Engineering you can have confidence in: • Built rugged, and includes accessories to make troubleshooting easier. • Premium gold-tipped silicone test lead accessories included. • Large-digit LCD display with a bright backlight. • Rubberized double molded hand grips to reduce slippage.	

Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes, with manual range option
DC V range	60.00 V, 600.0 V
DC V accuracy	± (1.0% + 5 dgt)
AC V range	60.00 V, 600.0 V
AC V accuracy	±(1.0% + 5 dgt) 45–400 Hz
LoZ range	60.00 V, 600.0 V
LoZ accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ input impedance	2.5 kΩ
AC A range	60.00 A, 600.0 A
AC A accuracy	±(2% + 5 dgt) 45–65 Hz, ±(6% + 5 dgt) 65–400 Hz

FLIR CM72: Commercial 600A AC Clamp Meter

P/N: CM72

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Electrical measurement	
Frequency range	600.0 Hz, 6.000 kHz , 60.00 kHz
Frequench accuracy	±(0.1% + 2 dgt)
Resistance range	6000 Ω
Resistance	±(1.0% + 5 dgt)
Continuity	600.0 Ω ± (1.0% + 5 dgt)
Diode	1.5 V ± (1.5% + 5 dgt)
Capacitance	1–1000 µF ± (1.0% + 4 dgt)
Flex input AC A range	30.00 A, 300.0 A, 3000 A
Flex input AC A accuracy	±(1% + 5 dgt) 45–400Hz
Flex input frequency range	600.0 Hz, 6.000 kHz , 10.00 kHz
Flex input AC A accuracy	±(0.1% + 2 dgt)
Additional measurement functions	Data hold, minimum/maximum

General	
Worklights	Dual white LEDs
Jaw opening	35 mm (1.38 in.)
Display counts	0–6000
Measuring rate	3 times per second
Calibration cycle	1 year calibration cycle recommended
Auto power off	10 minutes with disable
Power source	4 × 1.5 V AAA alkaline batteries
Battery life	200 hours (with alkaline batteries and backlight/worklight off)

Environmental Data	
Operational temperature	–10 to +10°C (14–50°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	0–80% RH (batteries not installed)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude	2000 m (6562 ft.)
Pollution degree	2

Physical data	
Dimensions (D × W × L)	43 mm × 89 mm × 241 mm (1.7 in. × 3.5 in. × 9.5 in.)
Weight:	363 g (12.8 oz.) including batteries

Warranty	
Warranty	10 years on the product, 10 years on the detector with registration

Certifications	
Certifications	UL, cUL

FLIR CM72: Commercial 600A AC Clamp Meter

P/N: CM72

Revision

42524

Last modified

2017-05-08 16:48 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

Certifications	
Safety category rating	EN 61010-1 CAT IV-600 V, CAT III-1000 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM72, 4 × AAA batteries, premium CAT IV silicone test leads, quick start guide, user manual (CD), warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 10.7 cm (13 in. × 5.5 in. × 4.3 in.)
Master carton weight	10.6 kg (23.4 lb.)
Master carton dimensions (H × W × L)	62.3 cm × 29.3 cm × 36.1 cm (24.6 in. × 11.6 in. × 14.3 in.)
Master carton quantity	12
UPC	793950370728
EAN	0793950370728
Country of origin	Taiwan
Tariff code	9030.31.0000

Accessories	
TA72	Universal Flex Current Probe Accessory (10 in.)
TA74	Universal Flex Current Probe Accessory (18 in.)
TA80	CAT IV Silicone Test Leads
TA70	CAT IV Insulated Alligator Probes
TA55	AC Current Line Splitter (120 V, US plug)

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR CM74: Commercial 600A AC/DC Clamp Meter

P/N: CM74

Revision

42525

Last modified

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Customer support

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General description	
Part number	CM74
Part name	Commercial 600A AC/DC Clamp Meter

The FLIR CM74 600A AC/DC Clamp Meter give you better access to wiring in hard-to-reach places, and provides all the measurement capabilities you need for advanced troubleshooting. Made with a narrow jaw and high-powered LED worklights, the FLIR CM74 makes it easier to take measurements in dark, crowded panels and cabinets. Its slim, light design is convenient to carry in your pocket wherever you go. With advanced electrical features including auto-ranging, true RMS voltage and current, LoZ, inrush, VFD Mmode, and an input for a flexible current probe accessory, the FLIR CM74 has all the measurement functions you need to stay competitive and ensure accurate readings.

Better clamp access and portability:

- Take measurements in hard-to-reach places, and carry the clamp wherever you go.
- Made with a narrow jaw for easy access to wiring in crowded panels and cabinets.
- Slim clamp design makes it convenient to carry in your pocket.
- Dual bright high-powered LED worklights guide you to your target in poor lighting conditions.

All the electrical features you need:

- Tackle modern challenges, get accurate readings.
- Advanced electrical features including true RMS, LoZ, and smart diode with disable.
- Expandable to 3000 A AC with the FLIR TA72 andTA74 Flex Clamp Accessories (sold separately).
- Minimum/maximum, hold, and auto power off with disable.

Engineering you can have confidence in:

- Built rugged, and includes accessories to make troubleshooting easier.
- Premium gold-tipped silicone test lead accessories included.
- Large-digit LCD display with a bright backlight.
- Rubberized double molded hand grips to reduce slippage.

Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes, with manual range option
DC V range	60.00 V, 600.0 V, 1000 V
DC V accuracy	± (1.0% + 5 dgt)
AC V range	60.00 V, 600.0 V, 1000 V
AC V accuracy	±(1.0% + 5 dgt) 45–400 Hz
AC V VFD range	60.00 V, 600.0 V, 1000 V
AC V VFD accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ range	60.00 V, 600.0 V, 1000 V
LoZ accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ input impedance	2.5kΩ

FLIR CM74: Commercial 600A AC/DC Clamp Meter

P/N: CM74

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Website

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Customer support

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Electrical measurement	
AC A range	60.00 A, 600.0 A
AC A accuracy	±(2% + 5 dgt) 45–65Hz, ±(2% + 5 dgt) 65–400Hz
AC A VFD range	60.00 A, 600.0 A
AC A VFD accuracy	±(2% + 5 dgt) 45–65Hz, ±(6% + 5 dgt) 65–400Hz
AC A inrush range and accuracy	60.00 A ± (3% + 0.3 A), 600.0 A ± (3% + 5 dgt)
DC A range	60.00 A, 600.0 A
DC A accuracy	±(2% + 5 dgt)
Frequency range	600.0 Hz, 6.000 kHz , 60.00 kHz
Frequench accuracy	±(0.1% + 2 dgt)
Resistance range	600.0 Ω, 6.000 kΩ
Resistance	±(1.0% + 5 dgt)
Continuity	600.0 Ω ± (1.0% + 5 dgt)
Diode	1.5V ± (1.5% + 5 dgt)
Capacitance	1–1000 µF ± (1.0% + 4 dgt)
Flex input AC A range	30.00 A, 300.0 A, 3000 A
Flex input AC A accuracy	±(1% + 5 dgt) 45–400Hz
Flex input Frequency range	600.0 Hz, 6.000 kHz , 10.00 kHz
Flex input AC A accuracy	±(0.1% + 2 dgt)
Additional measurement functions	Integrated VFD mode, DCA zero, data hold, minimum/maximum

General	
Worklights	Dual white LEDs
Jaw opening:	35 mm (1.38 in.)
Display Counts	0–6000
Measuring rate:	3 times per second
Calibration Cycle	1 year calibration cycle recommended
Auto Power Off	10 minutes with disable
Power Source	4 × 1.5 V AAA alkaline batteries.
Battery Life	65 hours (with alkaline batteries and backlight/worklight off)

Environmental data	
Operational temperature	–10 to +10°C (14–50°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	0–80% RH (batteries not installed)
Temperature coefficient:	0.2 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude:	2000 m (6562 ft.)
Pollution degree	2

FLIR CM74: Commercial 600A AC/DC Clamp Meter

P/N: CM74

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Dimensions: (D × W × L):	43 mm × 89 mm × 241 mm (1.7 in. × 3.5 in. × 9.5 in.)
Weight	426 g (15.0 oz.) including batteries

Warranty	
Warranty	10 years on the product, 10 years on the detector with registration

Certifications	
Certifications	UL, cUL
Safety category rating	EN 61010-1 CAT IV-600 V, CAT III-1000 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM74, 4 × AAA batteries, premium CAT IV silicone test leads, quick start guide, user manual (CD), warranty registration card
Packaging weight	0.9 kg (2 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 10.7 cm (13 in. × 5.5 in. × 4.3 in.)
Master carton weight	11.8 kg (26.1 lbs.)
Master carton dimensions (H × W × L)	62.3 cm × 29.3 cm × 36.1 cm (24.6 in. × 11.6 in. × 14.3 in.)
Master carton quantity	12
UPC	793950370742
EAN	0793950370742
Country of origin	Taiwan
Tariff code	9030.31.0000

Accessories	
TA72	Universal Flex Current Probe Accessory (10 in.)
TA74	Universal Flex Current Probe Accessory (18 in.)
TA80	CAT IV Silicone Test Leads
TA70	CAT IV Insulated Alligator Probes
TA55	AC Current Line Splitter (120 V, US plug)

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR CM78

P/N: CM78

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Website

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Customer support

http://support.flir.com



The FLIR CM78 is a true RMS industrial grade 1000 A clamp meter for the electrician who needs a safe, capable combination tool.

- The integrated infrared (IR) thermometer provides fast non-contact measurements on panels, conduits, and motors.
- Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.
- FLIR Tools Mobile connects the FLIR CM78 to your compatible smartphones and tablets via Bluetooth.
- METERLiNK technology wirelessly integrates electrical readings on your IR image with FLIR thermal cameras.

Features:

Voltage and current, minimum, maximum, average, auto power off, data hold, relative, peak hold, battery status indicator, bright white LED backlight.

Measurement	
AC/DC current	1000 A ± 2.5%
AC/DC voltage	1000 V ± 1.5%
Resistance	40.00 MΩ ± 1.5%
Capacitance	4.000 mF ± 3%
Frequency	4000 Hz ± 1.5%
Temperature (IR)	–20 to 270°C (–20 to 518°F) ± 2%
IR distance to target ratio	8:1
Type K temperature (optional probe)	–20 to 760°C (–4 to 1400°F) ± 3%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
Measuring rate	20 samples per second (nominal)

Meter data	
Jaw opening	42 mm (1.7″, 1500 MCM)
Bluetooth range (maximum)	10 m (32′)
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	N/A
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)

Certifications	
Certifications	UL, CE, FCC, CB

FLIR CM78

P/N: CM78

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Website

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Customer support

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Certifications	
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~100 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Auto power off	Default: 25 minutes

Environmental data	
Operating ambient temperature	–10 to 50°C (14–122°F)
Storage temperature	–25 to 60°C (–14 to 140°F)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3*g* maximum)

Meter physical data	
Weight	0.63 kg (1.4 lb.), including batteries
Dimensions (H × W × L)	257 mm × 110 mm × 50 mm (10.1″ × 4.3″ × 2.0″)
Material	• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS) • Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	• CM78 FLIR meter • TA80 premium test leads • 6 × AAA Energizer batteries • User manual/CD
Packaging weight	1.03 kg (2.27 lb.)
Packaging dimensions (H × W × L)	13.5 cm × 11 cm × 30 cm (5.3″ × 4.3″ × 11.8″)
Carton weight	21.5 kg (47.4 lb.)
Carton dimensions (H × W ×L)	57 cm × 30 cm × 65 cm (22.4″ × 11.8″ × 25.6″)
Carton quantity	20
EAN-13	0793950370780
UPC-12	793950370780
Country of origin	China
Tariff code	9030310000

Accessories	
TA80	CAT IV silicon test leads

Technical support	
Website	http://support.flir.com

P/N: CM78

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Website

http://www.flir.com

Customer support

http://support.flir.com

Technical support	
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR CM82: 600 Amp Power Clamp Meter with VFD Mode

P/N: CM82

Revision

42559

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Website

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Customer support

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Part number	CM82
Part name	600 Amp Power Clamp Meter with VFD Mode
Part description	The FLIR CM82 is an industrial-grade power clamp meter engineered with advanced power analysis and variable-frequency drive (VFD) filtering functions required by electrical troubleshooters.

- VFD mode provides superior accuracy for working on VFD-controlled equipment.
- Advanced power efficiency and harmonics measurements for system-level performance analysis.
- Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.

Measurement	
DC voltage	99.99 V ± (0.7% + 2 digits) 999.9 V ± (0.7% + 2 digits)
AC voltage	0.05–99.99 V ± (1.0% + 5 digits) 999.9 V, 50–500 Hz
VFD AC voltage	0.05–99.99 V, 50–60 Hz ± (1% + 5 digits) 999.9 V, 50–60 Hz ± (1% + 5 digits)
DC current	99.99 A ± (2% + 0.5 A) 599.9 A ± (2% + 5 digits)*
AC current	0.10–99.99 A, 50–60 Hz ± (2% + 5 digits)* 599.9 A, >60–400 Hz ± (2.5% + 5 digits)*
VFD AC current	0.10–99.99 A, 50–60 Hz ± (2% + 5 digits)* 599.9 A, 50–60 Hz ± (2% + 5 digits)*
Peak hold AC voltage	140.0 V ± (3.0% + 15 digits) 1400 V ± (3.0% + 15 digits)
Peak hold AC current	140.0 A ± (3.5% + 15 digits) 850 A ± (3.5% + 15 digits)
Frequency	20.00–99.99 Hz ± (0.5% + 3 digits) 20.0–999.9 Hz ± (0.5% + 3 digits) 0.020–9.999 kHz ± (0.5% + 3 digits)
Total harmonic distortion (AC A/AC V)	99.9% ± (3.0% + 10 digits)
Harmonic distortion H01–H12	99.90%
Harmonic distortion H13–H25	99.90%
Inrush current (AC)	99.99 A ± (3% + 0.3 A) 599.9 A ± (3% + 5 digits)*

FLIR CM82: 600 Amp Power Clamp Meter with VFD Mode

P/N: CM82

Revision

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Website

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Customer support

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Measurement	
Watts (DC)	9.999 kW (10 V, 5 A min) ± (3% + 0.05 kW) 99.99 kW (10 V, 5 A min) ± (3% + 0.5 kW) 599.9 kW (10 V, 5 A min) ± (3% + 10 digits)
Watts (AC)	9.999 kW (10 V, 5 A min) ± (3% + 10 digits) 99.99 kW (10 V, 5 A min) ± (3% + 10 digits) 599.9 kW (10 V, 5 A min) ± (3% + 10 digits)
Power factor	–1.00 to 0.00 to +1.00 ± (3% ± 1 digit)
Resistance	999.9 Ω ± (1.0% + 5 digits) 9.999 kΩ ± (1.0% + 3 digits) 99.99 kΩ ± (1.0% + 3 digits)
Continuity	999.9 Ω ± (1.0% + 5 digits)
Diode	0.40–0.80 V ± 0.1 V
Capacitance	3.999 µF ± (1.9% + 8 digits) 39.99 µF ± (1.9% + 8 digits) 399.9 µF ± (1.9% + 8 digits) 3.999 mF,± (1.9% + 8 digits)
Measuring rate	3 times per second

Meter data	
Jaw opening	1.45″ (37 mm)
Category rating	CAT IV—600 V, CAT III—1000 V
Data recording	N/A
Warranty	Limited lifetime
Calibration cycle	Once per year

Certifications	
Certifications	UL, CE, FCC
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V, IEC 61010-2-033

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	Approximately 50 hours with alkaline batteries (backlight and work light are off)
Auto power off	Approximately 30 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	32–50°F (0–10°C) (non-condensing) 50–86°F (10–30°C) (≤ 80% RH) 86–104°F (30–40°C) (≤ 75% RH) 104–122°F (40–50°C) (≤ 45% RH)
Storage temperature and RH	
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	6562' (2000 m)
Pollution degree	2
EMC	EN 61326-1

FLIR CM82: 600 Amp Power Clamp Meter with VFD Mode

P/N: CM82

Revision

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Website

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Customer support

http://support.flir.com

Environmental data	
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3*g* maximum)

Meter physical data	
Weight	20.8 oz. (590 g) including batteries
Dimensions (H × W × L)	1.9″ × 3.9″ × 10.3″ (49 mm × 100 mm × 262 mm)
Material	PC-ABS, TPE
Color	Grey and black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	CM82 FLIR meter, TA80 CAT IV silicon test leads, 6 × AAA Energizer batteries, user manual (English)/CD (translations)
Packaging weight	1.02 kg (2.25 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6″ × 5.5″ × 4.3″)
Carton weight	13.6 kg (30 lb.)
Carton dimensions (H × W × L)	13 7/8″ × 11 1/2″ × 24-1/8″
Carton quantity	12
EAN-13	0793950370827
UPC-12	793950370827
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA11. EVA Protective case for CM8x and CM7x Series	
TA55. AC Current Line Splitter	
TA70. CAT IV Insulated Alligator Probes	
TA80. CAT IV Silicone Test Leads	

FLIR CM83

P/N: CM83

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Website

http://www.flir.com

Customer support

http://support.flir.com



The FLIR CM83 is an industrial-grade power clamp meter engineered with advanced power analysis and variable-frequency drive (VFD) filtering functions required by electrical troubleshooters.

- VFD mode provides superior accuracy for working on VFD-controlled equipment.
- Advanced power efficiency and harmonics measurements for system-level performance analysis.
- Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.
- FLIR Tools Mobile connects the FLIR CM83 to your compatible smartphone and tablet via Bluetooth.
- METERLiNK technology wirelessly integrates electrical readings on your infrared image with FLIR thermal cameras.

Features:

Voltage and current, bright white LED backlight, analog bargraph, power factor, phase rotation, integrated non-contact voltage detector, minimum, maximum, average, auto power off, data hold, relative, peak hold, DCA zero, battery status

Measurement	
AC/DC current	600 A ± 2%
AC/DC voltage	1000.0 V ± 1%/0.7%
Harmonics (1st–25th order)	5%
Inrush	600 ACA ± 3% (integration time 100ms)
Active power	10–600 kW ± 3% (10 V, 5 A minimum)
Diode test	0.4–0.8 V ± 0.1 V
Capacitance	3.999 mF maximum ± 1.9%
Resistance	99.99 kΩ maximum ± 1%
Continuity threshold	30 Ω ± 1%
Frequency	20.00 Hz to 9.999 kHz ± 0.5%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
Measuring rate	3 samples per second

Meter data	
Jaw opening	37 mm (1.45″, 1000 MCM)
Bluetooth range (maximum)	10 m (32')
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	N/A
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)

FLIR CM83

P/N: CM83

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Website

http://www.flir.com

Customer support

http://support.flir.com

Certifications	
Certifications	UL, CE, FCC, CB
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~50 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Auto power off	Default: 30 minutes

Environmental data	
Operating ambient temperature and relative humidity (RH)	• –10 to 30°C (14–86°F), <85% RH • 30–40°C (86–104°F), <75% RH • 40–50°C (104–122°F), <45% RH
Storage temperature and RH	–10 to 50°C (–22 to 140°F), 0–80% RH (batteries not fitted)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3*g* maximum)
Environmental conditions	Indoor use

Meter physical data	
Weight	0.59 kg (1.29 lb.), including batteries
Dimensions (H × W × L)	49 mm × 100 mm × 262 mm (1.9″ × 3.9″ × 10.3″).
Material	• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS) • Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	• CM83 FLIR meter • TA80 CAT IV silicon test leads • 6 × AAA Energizer batteries • User manual (English), CD (translations)
Packaging weight	1.02 kg (2.25 lb.)
Packaging dimensions (H × W ×L)	32 cm × 14 cm × 11 cm (12.6″ × 5.5″ × 4.3″)
Carton weight	23.0 kg (50.7 lb.)
Carton dimensions (H × W ×L)	56 cm × 30 cm × 65 cm (22.0″ × 11.8″ × 25.6″)
Carton quantity	20
EAN-13	0793950370834
UPC-12	793950370834
Country of origin	Taiwan
Tariff code	9030310000

P/N: CM83

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Accessories	
TA80	CAT IV silicon test leads

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR CM85: 1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™

P/N: CM85

Revision

42561

Last modified

2017-05-09 13:42 UTC+1

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Customer support

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Part Number	CM85
Part Name	1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™

The FLIR CM85 is an industrial-grade High Capacity Power Clamp Meter with the advanced power analysis and VFD filtering functions desired by electrical troubleshooters. It's Versatility is engineered to Help You Manage Power Analysis & VFD Troubleshooting for full scale equipment. The CM85 incorporates numerous features, VFD, Harmonics, Inrush Current and Phase Rotation – that are designed to enable users to accurately analyze voltage, current and frequency going into and out of complex machinery. The rugged CM85 also has an extremely bright dual LED worklight to illuminate work areas.

- 1,000 Amp clamp capacity for large electrical equipment
- VFD Mode provides superior accuracy for working on Variable Frequency Drive controlled equipment
- Advanced power efficiency and harmonics measurements for system level performance analysis
- Inrush mode captures fast AC Current spikes during appliance start-up
- Phase Rotation testing ensures the motor and power source are aligned
- True RMS DMM functionality features reliable performance and expansive ranges
- Powerful worklights are bright enough to serve as a primary worklight
- FLIR tools mobile connects the FLIR CM85 to your compatible smart phone and tablet via Bluetooth
- METERLiNK™ technology wirelessly integrates electrical readings on your infrared image with FLIR Thermal Cameras See flir.com/test for more infor

Measurement Ranges and Accuracy	
Voltage DC	99.99 V, ±(0.7% + 2 dgt) 999.9 V, ±(0.7% + 2 dgt)
Voltage AC	0.05–99.99 V, ±(1.0% + 5 dgt) 999.9 V, 50–500 Hz
VFD, ACV	0.05–99.99 V, 50–60 Hz ± (1% + 5 dgt) 999.9 V, 50–60 Hz ± (1% + 5 dgt)
Current DC	99.99 A, ±(2% + 0.5 A) 999.9 A, ±(2% + 5 dgt)*
Current AC	0.10–99.99 A, 50–60 Hz ± (2% + 5 dgt)* 999.9 A, >60–400 Hz ± (2.5% + 5 dgt)*
VFD, ACA	0.10–99.99 A, 50–60 Hz ± (2% + 5 dgt)* 999.9 A, 50–60 Hz ± (2% + 5 dgt)*
Peak Hold ACV	140.0 V, ±(3.0% + 15 dgt) 1400 V, ±(3.0% + 15 dgt)
Peak Hold ACA	140.0 A, ±(3.5% + 15 dgt) 1400 A, ±(3.5% + 15 dgt)

FLIR CM85: 1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™

P/N: CM85

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Measurement Ranges and Accuracy	
Frequency	20.00–99.99 Hz, ±(0.5% + 3 dgt) 20.0–999.9 Hz, ±(0.5% + 3 dgt) 0.020–9.999 kHz, ±(0.5% + 3 dgt)
Total harmonic distortion ACA/ACV	99.9%, ±(3.0% + 10 dgt)
Harmonic distortion H01–H12	99.9%, ±(5% + 10 dgt)
Harmonic distortion H13–H25	99.9%, ±(10% + 10 dgt)
Inrush current ACA	99.99 A, ±(3% + 0.3 A) 999.9 A, ±(3% + 5 dgt)*
Watts DC	9.999 kW (10 V, 5 A min), ±(3% + 0.05 kW) 99.99 kW (10 V, 5 A min), ±(3% + 0.5 kW) 999.9 kW (10 V, 5 A min), ±(3% + 10 dgt)
Watts AC	9.999 kW (10 V, 5 A min), ±(3% + 10 dgt) 99.99 kW (10 V, 5 A min), ±(3% + 10 dgt) 999.9 kW (10 V, 5 A min), ±(3% + 10 dgt)
Power factor	–1.00 to 0.00 to +1.00, ±3° ± 1 dgt
Resistance	999.9 Ω, ±(1.0% + 5 dgt) 9.999 kΩ, ±(1.0% + 3 dgt) 99.99 kΩ, ±(1.0% + 3 dgt)
Continuity	999.9 Ω, ±(1.0% + 5 dgt)
Diode	0.40–0.80 V, ±0.1V
Capacitance	3.999 µF, ±(1.9% + 8 dgt) 39.99 µF, ±(1.9% + 8 dgt) 399.9 µF, ±(1.9% + 8 dgt) 3.999 mF, ±(1.9% + 8 dgt)
Measuring rate:	3 times per second

Meter Data	
Jaw Opening	45 mm (1.77 in.).
Bluetooth Range Max	10 m (32 ft.) maximum.
Category Rating	CAT IV-600 V, CAT III-1000 V
Data Recording	N/A
Warranty	Limited lifetime with Registration
Calibration cycle:	Once per year

Certifications	
Certifications	UL, CE, FCC Class B
Complies with Safety Standards:	IEC 61010-1 CAT IV-600 V, CAT III-1000 V, IEC 61010-2-033.

Power System	
Power requirements:	6 × 1.5 V AAA alkaline batteries.
Battery life:	50 hours with alkaline batteries (backlight, work light, and Bluetooth are off).
Auto power off:	Approx. 30 minutes.

FLIR CM85: 1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™

P/N: CM85

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Environmental Data	
Operating ambient temperatures and relative humidity:	0 to 10oC (32 to 50 oF)(non-condensing) 10 to 30 oC (50 to 86 oF) (≤ 80% RH) 30 to 40 oC (86 to 104 oF) (≤ 75% RH) 40 to 50 oC (104 to 122 oF) (≤ 45%RH)
Storage temperature and relative humidity:	–10 to 50 oC (14 to 122 oF). 0–80% RH (batteries not fitted).
Temperature coefficient:	0.2 × (specified accuracy)/oC, <18 oC, >28 oC.
Operating altitude:	2000 m (6562′)
Pollution degree:	2
EMC:	EN 61326-1
Shock vibration:	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)

Meter Physical Data	
Weight:	0.59 kg (1.29 lb.), including batteries.
Dimensions (H × W × L):	49 mm × 100 mm × 262 mm (1.9″ × 3.9″ × 10.3″).
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thermoplastic elastomer (TPE)
Color	Grey, Black

Shipping Information	
Packaging, type	Color box with view of product in clamshell
Packaging, Contents:	• CM85 FLIR meter • TA80 CAT IV silicon test leads • 6 × AAA Energizer batteries • User manual (English), CD (translations)
Packaging weight	1.02 kg (2.25 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6″ × 5.5″ × 4.3″)
Carton weight	13.6 kg (30 lb)
Carton dimensions (H × W × L)	13-7/8 x 11-1/2 x 24-1/8”
Carton Quantity	12
EAN-13	0793950370858
UPC-12	793950370858
Country of Origin	Taiwan
Tariff Code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA11..EVA Protective Case for CM7x and CM8x Series	
TA55..AC Current Line splitter	
TA70..CAT IV Insulated Alligator Probes	

FLIR CM85: 1000 Amp Power Clamp Meter with VFD Mode and METERLiNK™

P/N: CM85

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Accessories	
TA80..CAT IV Silicone Test Leads	

FLIR CM174: Imaging 600A AC/DC Clamp Meter with IGM

P/N:CM174

Revision

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2017-05-08 16:37 UTC+1

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General description	
Part number	CM174
Part name	Imaging 600A AC/DC Clamp Meter with IGM

The FLIR CM174 Imaging 600A AC/DC Clamp Meter with IGM is the first clamp meter equipped with a built-in thermal imager that can quickly lead you to problems you can't see with a standard clamp meter. Featuring Infrared Guided Measurement (IGM) technology, the FLIR CM174 visually guides you to the precise location of a potential electrical issue, identifying dangerous and unknown problem areas safely. Confirm your findings with accurate amperage and voltage measurements, and center-point temperature readings. The narrow jaw enables greater accessibility, and its compact form factor fits easily into a pocket – so you can have thermal imaging at your fingertips everywhere you go. The FLIR CM174 will quickly become your primary electrical troubleshooting tool.

Find problems faster with IGM:

- Visually identify electrical issues with the first thermal imaging clamp meter.
- Conquer cluttered wires and cables—IGM can quickly guide you in the right direction.
- All-in-one tool—carry just one device and always have access to thermal imaging.
- Work safely—scan a panel or cabinet for hazards using IGM without direct contact.

Confirm your findings:

- Verify problems, check loads, and validate hot spots.
- Center-point temperature to confirm hot spot.
- Amperage and voltage measurements to check the load.
- The laser and crosshair pinpoint the location of the problem found in thermal image.

Solve complex electrical issues:

- Design and functionality vital to professionals.
- Narrow jaw and built-in worklights help you access difficult locations with lighting issues.
- Advanced electrical features: true RMS, LoZ, VFD mode, inrush, smart diode with disable.
- Expandable to 3000 A AC with FLIR flex accessories.

Thermal imaging	
Detector type	FLIR Lepton; micro-bolometer focal plane array (FPA)
IR imaging resolution (V × H)	60 × 80 pixels
IR imaging field of view (V × H)	50.0° × 38.6°
IR imaging spectral response	8–14 µm
Thermal sensitivity	150 mK
IR image capture frequency	9 Hz
IR image color palettes	Rainbow, Iron, Gray scale
Laser pointer	Class I (red)
IR temperature measurement range	–25 to +150°C (–13 to +302°F)
Over- and under-range indication	OL

FLIR CM174: Imaging 600A AC/DC Clamp Meter with IGM

P/N: CM174

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Thermal imaging	
Temperature reading stabilization	Dashes are displayed for approximately 30 seconds as the temperature reading stabilizes
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	5.4°F (±3°C) or ± 3% of the reading (whichever is greater)
Distance-to-spot (D:S) ratio	30:1
Emissivity adjustment	4 presets plus a custom setting (0.01–0.99)
Targeting	Displayed cross-hairs pinpoint the center of the measurement spot
Hold	Image with measurement

Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes, with manual range option
DC V range	60.00 V, 600.0 V, 1000 V
DC V accuracy	± (1.0% + 5 dgt)
AC V range	60.00 V, 600.0 V, 1000 V
AC V accuracy	±(1.0% + 5 dgt) 45–400 Hz
AC V VFD range	60.00 V, 600.0 V, 1000 V
AC V VFD accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ range	60.00 V, 600.0 V, 1000 V
LoZ accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz
LoZ input impedance	2.5 kΩ
AC A range	60.00 A, 600.0 A
AC A accuracy	±(2% + 5 dgt) 45–400 Hz
AC A VFD range	60.00 A, 600.0 A
AC A VFD accuracy	±(2% + 5 dgt) 45–65 Hz, ±(6% + 5 dgt) 65–400 Hz
AC A inrush range and accuracy	60.00 A ± (3% + 0.3 A), 600.0 A ± (3% + 5 dgt)
DC A range	60.00 A, 600.0 A
DC A accuracy	±(2% + 5 dgt)
Frequency range	600.0 Hz, 6.000 kHz , 60.00 kHz
Frequench accuracy	±(0.1% + 2 dgt)
Resistance range	600.0 Ω, 6.000 kΩ
Resistance	±(1.0% + 5 dgt)
Continuity	600.0 Ω ± (1.0% + 5 dgt)
Diode	1.5 V ± (1.5% + 5 dgt)
Capacitance	1–1000 µF ± (1.0% + 4 dgt)
Flex input AC A range	30.00 A, 300.0 A, 3000 A
Flex input AC A accuracy	±(1% + 5 dgt) 45–400Hz
Flex input frequency range	600.0 Hz, 6.000 kHz , 10.00 kHz
Flex input AC A accuracy	±(0.1% + 2 dgt)
Additional measurement functions	DCA zero, data hold, minimum/maximum

FLIR CM174: Imaging 600A AC/DC Clamp Meter with IGM

P/N: CM174

Revision

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Website

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Customer support

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General	
Worklights	Dual white LEDs
Jaw opening:	35 mm (1.38 in.)
Display counts	0–6000
Measuring rate	3 times per second
Calibration cycle	1 year calibration cycle recommended
Auto power off	Programmable: off, 1, 2, 5, or 10 minutes
Power source	4 × 1.5 V AAA alkaline batteries
Battery life	Clamp mode ~10 hours; IGMTM mode 3 hours (with alkaline batteries and worklight off)

Environmental data	
Operational temperature	–10 to +10°C (14–50°F) (non-condensing) 10–30°C (50–86°F) (≤80% relative humidity (RH)) 30–40°C (86–104°F) (≤75% RH) 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	0–80% RH (batteries not installed)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude	2000 m (6562 ft.)
Pollution degree	2
Drop test	2 m (6.6 ft.)

Physical data	
Dimensions: (D × W × L)	43 mm × 89 mm × 241 mm (1.7 in. × 3.5 in. × 9.5 in.)
Weight:	426 g (15.0 oz.) including batteries
Batteries	4 × 1.5 V AAA alkaline batteries

Warranty	
Warranty	10 years on the product, 10 years on the detector with registration

Certifications	
Agency approvals	CE, RCM, KC
Certifications	UL, cUL
Safety category rating	EN 61010-1 CAT IV-600 V, CAT III-1000 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM174, 4 × AAA batteries, premium CAT IV silicone test leads, quick start guide, user manual (CD), warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 12 cm (13 in. × 5.5 in. × 4.75 in.)
Master carton weight	11.8 kg (26.1 lb.)
Master carton dimensions (H × W × L)	62.3 cm × 29.3 cm × 36.1 cm (24.6 in. × 11.6 in. × 14.3 in.)

FLIR CM174: Imaging 600A AC/DC Clamp Meter with IGM

P/N: CM174

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Website

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Customer support

http://support.flir.com

Shipping information	
Master carton quantity	12
UPC	793950371749
EAN	0793950371749
Country of origin	Taiwan
Tariff code	9030.31.0000

Accessories	
TA72	Universal Flex Current Probe Accessory (10 in.)
TA74	Universal Flex Current Probe Accessory (18 in.)
TA80	CAT IV Silicone Test Leads
TA70	CAT IV Insulated Alligator Probes
TA55	AC Current Line Splitter (120 V, US plug)

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR CM275: Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM

P/N: CM275

Revision

45660

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2017-10-05 22:03 UTC+1

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Website

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Customer support

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Part number	CM275
Part name	Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM

The FLIR CM275 clamp meter combines thermal imaging with electrical measurement in a powerful inspection, troubleshooting, and diagnostic tool. Through Infrared Guided Measurement (IGM), it provides a fast, reliable way to identify hot spots and overloaded circuits from a safe distance. Confirm your findings with the clamp meter's wide range of functions plus temperature readings. The FLIR CM275 provides wireless connectivity for direct connection to the FLIR Tools app and the FLIR InSite professional workflow management solution. When you choose the FLIR CM275 clamp meter, inspecting and servicing plant equipment and facilities becomes safer and more efficient.

Troubleshoot faster and more safely:

- Identify electrical issues quickly with the power of IGM.
- Scan entire targets for electrical issues with 160 × 120 thermal resolution.
- Safely check for live connections using non–contact temperature measurement.
- Pinpoint exact hot spot locations using laser and cross–hairs.
- Easily reach awkward, dark locations using the narrow jaws and built-in worklights.

Diagnose efficiently:

- Quickly verify problems, check loads, and validate hot spots.
- Diagnose complex systems with high– and low-voltage measurement capabilities.
- Use advanced electrical features including VFD mode, true RMS, and LoZ.
- Expand measurement capabilities to 3000 A AC with FLIR Flex Clamp accessories.
- Rely on the protection of CAT IV—600V, CAT III—1000 V safety ratings.

Document and share results:

- Store data onboard or share wirelessly for improved workflow.
- Store electrical measurements and thermal images internally, for later review.
- Wirelessly connect to FLIR Tools or the FLIR InSite workflow management app for streamlined documentation, reporting, and information sharing.

Static data logging and storage	
Data storage interval, configurable	1–99 s
Readings per memory set	40 000
Maximum number of memory sets	10

Thermal image storage	
Maximum number of images	100

Connectivity	
Wireless technology	Bluetooth BLE
Communications protocol	METERLiNK

FLIR CM275: Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM

P/N: CM275

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Website

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Customer support

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Thermal imaging	
Detector type	FLIR Lepton; micro-bolometer focal plane array
Infrared (IR) imaging resolution (V × H)	160 × 120 pixels
IR imaging field of view (V × H)	50° × 38°
IR imaging spectral response	8–14 µm
Thermal sensitivity	150 mK (0.15°C)
IR image capture frequency	9 Hz
IR image color palettes	Rainbow, Iron, Gray scale
Laser pointer	Class I (red)
Laser pointer power	<0.4 mW
IR temperature measurement range	–10 to 150°C (14–302°F)
Over- and under-range indication	OL
Temperature reading stabilization	Dashes are displayed for approximately 30 s as the temperature reading stabilizes
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	±3°C (5.4°F) or ± 3% of the reading (whichever is greater) for temperatures >25°C (77°F), ±5°C for temperatures -10°C to 25°C (14°F–77°F)
Distance-to-spot (D:S) ratio	30:1
Emissivity adjustment	0.95 maximum, 4 presets plus a custom setting (0.10–0.99)
Targeting	Displayed cross-hairs pinpoint the center of the measurement spot
Hold	Image with measurement

Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes, with manual range option
AC/DC V	1000 V RMS AC or 1000 V DC ± 1.0%
VFD AC V	1000 V AC RMS, 45–65 Hz, ± 1%
AC/DC LoZ V	1000 V AC RMS, 45–65 Hz, or 10000 V DC ± 1%
AC/DC A	600.0 A AC RMS, 45–400 Hz, or 600.0 A DC ± 2%
VFD AC A	600.0 A, 45–65 Hz, ± 2%
AC A inrush	600.0 A ± 3%
Frequency counter	60.00 kHz ± 0.1%
Resistance	6.000 kΩ ± 1.0%
Continuity	Beep below 30 Ω
Diode test	1.5 V ± 1.5%
Capacitance	1000 µF ± 1.0%
Flex input AC A	3000 A, 45–400 Hz, ± 1%
Flex input frequency counter	10.00 kHz ± 0.1%
Additional measurement functions	DCA zero, data hold, minimum/maximum

General	
Worklights	Dual white LEDs

FLIR CM275: Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM

P/N: CM275

Revision

45660

Last modified

2017-10-05 22:03 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

General	
Jaw opening	35 mm (1.38 in.)
Display counts	0–6000
Measuring rate	3 times per second
Calibration cycle	1 year calibration cycle recommended
Auto power off	Programmable: off, 1, 2, 5, or 10 minutes
Power source	3 × AA Energizer L91 lithium (Li/FeS_2) batteries or optional TA04 lithium polymer rechargeable battery system
Battery life, Energizer L91 lithium batteries	Approximately 12 hours constant IGM
Battery life, TA04 lithium polymer batteries	Approximately 12 hours constant IGM

Environmental data	
Operational temperature	0–30°C (32–86°F) (≤80% relative humidity (RH)), 30–40°C (86–104°F) (≤75% RH), 40–50°C (104–122°F) (≤45% RH)
Storage temperature	–20 to 60°C (4–140°F) (0–80% RH (batteries not installed))
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude	2000 m (6562 ft.)
Pollution degree	2
Drop test	2 m (6.6 ft.)

Physical data	
Dimensions (D × W × L)	48.5 mm × 97 mm × 255 mm (1.91 in. × 3.82 in. × 10.04 in.)
Weight	460 g (16.2 oz.) without batteries

Warranty	
Warranty	10 years for the product, 10 years for the detector with registration

Certifications	
Agency approvals	C-UL-US, CE, RCM
Safety category rating	EN 61010—1 CAT IV—600 V, CAT III—1000 V, EN 61010-2-032

Shipping information	
Packaging type	Retail color box
Packaging contents	CM275, 3 × AA L91 lithium batteries, premium CAT IV silicone test leads, soft carrying case, quick start guide, warranty registration card
Packaging weight	1.3 kg (2.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13 in. × 5.5 in. × 4.33 in.)
Master carton weight	16.5 kg (36.4 lb.)
Master carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Master carton quantity	12
UPC	793950372753

FLIR CM275: Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM

P/N: CM275

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
EAN	0793950372753
Country of origin	Taiwan
Tariff code	9027504020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
CM275 Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity, and IGM	
TA82 Premium Silicone Test Leads	
Soft-sided carrying case	
3 ×L91 (AA) lithium batteries	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA04-KIT Lithium Polymer Rechargeable Battery Kit	
TA52 Magnet Mount	
TA42 Belt Clip	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA55 Line Splitter	
TA70 Alligator Clips	

FLIR DM62: TRMS Digital Multimeter with Non-contact Voltage

P/N: DM62

Revision

45682

Last modified

2017-10-09 09:15 UTC+1

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Website

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Customer support

http://support.flir.com



Part number	DM62
Part name	TRMS Digital Multimeter with Non-contact Voltage

The FLIR DM62 digital multimeter combines a rich feature set, precise measurements, and quality for exceptional value. The meter is easy to use and built to last, offering long-term stability for everyday use. It is the right choice for DIY, or for professionals installing and maintaining commercial electrical and electronic systems.

All the features you need in one tool:

- Rich feature set ideal for various electrical applications.
- Safely check voltage using non-contact voltage detection.
- Measure both AC/DC voltage and AC/DC current (A, mA, µA).
- Diagnose faults with broad DMM test functions, including variable-frequency drive (low-pass filter), a voltage measurement range up to 600 V, resistance/continuity, and diode.

Fast, efficient troubleshooting and testing:

- Intuitive and simple user interface for more effective and efficient troubleshooting and testing of electrical and electronic systems.
- One-handed operation—compact and ergonomic design with easy-to-access buttons.
- Simplify the task of checking wiring connections and switch operation in noisy work environments with a flashing backlight and audible indication.
- Easy-to-navigate on-screen menu system.

Tough, reliable, high quality:

- High-quality measurements with long-term stability and reliability ensure many years of safe, accurate, and trouble-free operation.
- Take the meter with you anywhere: 2 m drop tested and IP40 rated.
- Work with peace of mind knowing your meter has a CAT IV—300 V, CAT III—600 V safety category rating.
- Make your job easier with helpful features including auto power off, a display backlight, Min/Max/Avg, relative mode, and data hold.

Electrical measurement	
Display count	6000
AC/DC V	600.0 V AC RMS or 600.0 V DC ± 1%/0.4%
AC/DC mV	600.0 mV ± 1%/0.4%
VFD AC V	600.0 V AC RMS, 10–100 Hz, ± 1%
AC/DC A	10.00 A AC RMS or 10.00 A DC ± 1.5%/1.0%
AC/DC mA range	600.0 mA ± 1.0%/0.7%
AC/DC µA range	6000 µA AC RMS or 6000 µA DC ± 1.5%/1.0%
Resistance	60.00 MΩ ± 0.9%
Continuity check threshold	30–480 Ω
Diode test	3.000 V ± 0.9%
Measuring rate	5 samples per second

FLIR DM62: TRMS Digital Multimeter with Non-contact Voltage

P/N: DM62

Revision

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Website

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Customer support

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Electrical measurement	
Accuracy is given as ± (% of reading)	

Meter data	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	2 m (6.6 ft.)
Warranty	Limited lifetime warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—300 V, CAT III—600 V

Power system	
Power requirements	2 × AAA batteries
Battery life, alkaline batteries	400 hours without backlight (alkaline batteries)
Auto power off	32 minutes

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% to 31°C; decreasing linearly to 50% at 31–50°C
Storage temperature and relative humidity (RH)	–20 to 60°C (–4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	Nominal 0.15 × (specified accuracy)/°C at –10°C to 18°C (14–64.4°F) or 28–50°C (82.4–122°F), or as otherwise specified
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	334 g (11.8 oz.)
Dimensions (L × W × H)	161 mm × 80 mm × 50 mm (6.3 in. × 3.2 in. × 2.0 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM62 with integral probe holder, 2 × alkaline batteries (AAA), high-quality silicone test leads, soft carrying case
Packaging weight	1.3 kg (2.9 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13.0 in. × 5.5 in. × 4.3 in.)
Carton weight	16.5 kg (36.4 lb.)

FLIR DM62: TRMS Digital Multimeter with Non-contact Voltage

P/N: DM62

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Website

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Customer support

http://support.flir.com

Shipping information	
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950381625
UPC-12	793950381625
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
DM62 TRMS Multimeter with Integrated Test Lead Holder	
TA80 Premium Silicone Test Leads	
Soft carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA50 Magnetic Hanging Strap	
TA70 Alligator Clips	

FLIR DM64: HVAC TRMS Digital Multimeter with Temperature

P/N: DM64

Revision

45685

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2017-10-09 09:27 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	DM64
Part name	HVAC TRMS Digital Multimeter with Temperature

The FLIR DM64 is an affordable true RMS digital multimeter with temperature (type K thermocouple) and microamp measurement to test flame sensors. This, coupled with a rich feature set for both high– and low-voltage applications, makes it the ideal tool for HVAC professionals.

All the features you need in one tool:

- Rich feature set ideal for various electrical applications.
- Safely check voltage with non-contact voltage detection.
- Measure both AC/DC voltage and current (A, mA, µA).
- Diagnose faults with broad DMM test functions, including variable-frequency drive (low-pass filter), a voltage measurement range up to 600 V, LoZ mode, frequency, resistance/continuity, diode, capacitance, and temperature (type K thermocouple).

Fast, efficient troubleshooting and testing:

- Intuitive and simple user interface for more effective and efficient troubleshooting and testing of electrical and electronic systems.
- One-handed operation—compact and ergonomic design with easy-to-access buttons.
- Simplify the task of checking wiring connections and switch operation in noisy work environments with a flashing backlight and audible indication.
- Easy-to-navigate on-screen menu system.

Tough, reliable, high quality:

- High-quality measurements with long-term stability and reliability ensure many years of safe, accurate, and trouble-free operation.
- Take the meter with you anywhere: 2 m drop tested and IP40 rated.
- Work with peace of mind knowing your meter has a CAT IV—300 V, CAT III—600 V safety category rating
- Make your job easier with helpful features including auto power off, a display backlight, Min/Max/Avg, relative mode, and data hold.

Electrical measurement	
Display count	6000
AC/DC V	600.0 V AC RMS or 600.0 V DC ± 1%/0.4%
AC/DC mV	600.0 mV ± 1%/0.4%
VFD AC V	600.0 V AC RMS, 10–100 Hz, ± 1%
AC/DC LoZ V	600.0 V AC RMS or 600.0 V DC ± 2.0%
AC/DC A	10.00 A AC RMS or 10.00 A DC ± 1.5%/1.0%
AC/DC mA range	600.0 mA ± 1.0%/0.7%
AC/DC µA range	6000 µA AC RMS or 6000 µA DC ± 1.5%/1.0%
Frequency counter, voltage	50.00 kHz ± 0.1%
Frequency counter, current	5.00 kHz ± 0.1%
Resistance	60.00 MΩ ± 0.9%

FLIR DM64: HVAC TRMS Digital Multimeter with Temperature

P/N: DM64

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Electrical measurement	
Continuity check	Beep between 30 Ω and 480 Ω
Diode test	3.000 V ± 0.9%
Capacitance	2000 µF ± 1.5%, 10.00 mF ± 4.5%
Temperature, type K thermocouple	–40 to 400°C DMM ± (1.0% + 1°C) (–40 to 752°F DMM ± (1.0% + 2°F))
Measuring rate	5 samples per second
Accuracy is given as ± % of reading)	

Meter data	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	2 m (6.6 ft.)
Warranty	Limited lifetime warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—300 V, CAT III—600 V

Power system	
Power requirements	2 × AAA batteries
Battery life	400 hours without backlight (alkaline batteries)
Auto power off	32 minutes

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% to 31°C; decreasing linearly to 50% at 31–50°C
Storage temperature and relative humidity (RH)	–20 to 60°C (–4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	Nominal 0.15 × (specified accuracy)/°C at -10 to 18°C (14–64.4°F) or 28–50°C (82.4–122°F), or as otherwise specified
Operating altitude	2000 m (6560 ft)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	334 g (11.8 oz.)
Dimensions (L × W × H)	161 mm × 80 mm × 50 mm (6.3 in. × 3.2 in. × 2.0 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell

FLIR DM64: HVAC TRMS Digital Multimeter with Temperature

P/N: DM64

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Packaging contents	DM64 with integral probe holder, 2 × alkaline batteries (AAA), high-quality silicone test leads, type K thermocouple, soft carrying case
Packaging weight	1.3 kg (2.9 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13.0 in. × 5.5 in. × 4.3 in.)
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950381649
UPC-12	793950381649
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
DM64 HVAC TRMS Digital Multimeter with Temperature	
TA80 Premium Silicone Test Leads	
Thermocouple adapter with type K probe	
Soft carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA50 Magnetic Hanging Strap	
TA70 CAT IV Insulated Alligator Probes (Slip On)	

FLIR DM66: Electrical and Field Service TRMS Multimeter with VFD Mode

P/N: DM66

Revision

45684

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	DM66
Part name	Electrical and Field Service TRMS Multimeter with VFD Mode

The FLIR DM66 digital multimeter combines a rich feature set, precise measurements, and quality for exceptional value. The meter is easy to use and built to last, providing long-term stability for everyday use. The FLIR DM66 has a low impedance (LoZ) mode to prevent ghost voltage from delivering false readings. It measures frequency, diode, capacitance, and temperature, for a comprehensive feature set ideal for commercial electricians and automation field, service or electronics technicians.

All the features you need in one tool:

- Rich feature set ideal for various electrical applications.
- Safely check voltage with non-contact voltage detection.
- Measure both AC/DC voltage and current (A, mA, µA).
- Diagnose faults with broad DMM test functions, including variable-frequency drive (low-pass filter), a voltage measurement range up to 600 V, LoZ mode, frequency, resistance/continuity, diode, capacitance, and temperature (type K thermocouple).

Fast, efficient troubleshooting and testing:

- Intuitive and simple user interface for more effective and efficient troubleshooting and testing of electrical and electronic systems.
- One-handed operation—compact and ergonomic design with easy-to-access buttons.
- Simplify the task of checking wiring connections and switch operation in noisy work environments with a flashing backlight and audible indication.
- Easy-to-navigate on-screen menu system.

Tough, reliable, high quality:

- High-quality measurements with long-term stability and reliability ensure many years of safe, accurate, and trouble-free operation.
- Take the meter with you anywhere: 2 m drop tested and IP40 rated.
- Work with peace of mind knowing your meter has a CAT IV—300 V, CAT III—600 V safety category rating.
- Make your job easier with helpful features including auto power off, a display backlight, Min/Max/Avg, relative mode, and data hold.

Electrical measurement	
Display count	6000
AC/DC V	600.0 V AC RMS or 600.0 V DC ± 1%/0.4%
AC/DC mV	600.0 mV ± 1%/0.4%
VFD AC V	600.0 V AC RMS, 10–100 Hz, ± 1%
AC/DC LoZ V	600.0 V AC RMS or 600.0 V DC ± 2.0%
AC/DC A	10.00 A AC RMS or 10.00 A DC ± 1.5%/1.0%
AC/DC mA range	600.0 mA ± 1.0%/0.7%
AC/DC µA range	6000 µA AC RMS or 6000 µA DC ± 1.5%/1.0%
Frequency counter, voltage	50.00 kHz ± 0.1%

FLIR DM66: Electrical and Field Service TRMS Multimeter with VFD Mode

P/N: DM66

Revision

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Website

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Customer support

http://support.flir.com

Electrical measurement	
Frequency counter, current	5.00 kHz ± 0.1%
Resistance	60.00 MΩ ± 0.9%
Continuity check threshold	30–480 Ω
Diode test	3.000 V ± 0.9%
Capacitance	2000 µF ± 1.5%, 10.00 mF ± 4.5%
Temperature, type K thermocouple	–40 to 400°C DMM ± (1.0% + 1°C) (–40 to 752°F DMM ± (1.0% + 2°F))
Measuring rate	5 samples per second
Accuracy is given as ± % of reading)	

Meter data	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	2 m (6.6 ft.)
Warranty	Limited lifetime warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—300 V, CAT III—600 V

Power system	
Power requirements	2 × AAA batteries
Battery life	400 hours without backlight (alkaline batteries)
Auto power off	32 minutes

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% to 31°C; decreasing linearly to 50% at 31–50°C
Storage temperature and relative humidity (RH)	–20 to 60°C (–4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	Nominal 0.15 × (specified accuracy)/°C at -10 to 18°C (14–64.4°F) or 28–50°C (82.4–122°F), or as otherwise specified
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	334g (11.8 oz.)
Dimensions (L × W × H)	161 mm × 80 mm × 50 mm (6.3 in. × 3.2 in. × 2.0 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

FLIR DM66: Electrical and Field Service TRMS Multimeter with VFD Mode

P/N: DM66

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM66 with integral probe holder, 2 × alkaline batteries (AAA), high-quality silicone test leads, alligator clips, soft carrying case
Packaging weight	1.3 kg (2.9 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13.0 in. × 5.5 in. × 4.3 in.)
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950381663
UPC-12	793950381663
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
DM66 Electrical and Field Service TRMS Multimeter with VFD Mode	
TA80 Premium Silicone Test Leads	
TA70 Alligator Clips	
Soft carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA50 Magnetic Hanging Strap	
TA60 Thermocouple Adapter with Type K Probe	

FLIR DM90

P/N: DM90

Revision

42562

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2017-05-09 13:44 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	DM90
Part name	True RMS Industrial Multimeter
The FLIR DM90 is an affordable true RMS digital multimeter with a type-K thermocouple—an ideal tool for electricians, service technicians and HVAC professionals to have on the job. Equipped with rich features, including LoZ, VFD mode, and µA current measurement capability, the FLIR DM90 gives you trusted readings to troubleshoot and repair a wide range of electrical and electronic systems. The FLIR DM90 is shipped fully tested and calibrated, and with proper use will provide years of reliable service.	
Design and functionality vital to professionals: • Built- in worklight to help you access difficult locations with lighting issues. • Non-contact voltage detector. • Intuitive and simple-to-operate user interface. • Durable and drop tested to 3 m (9.8 ft.). • IP54 splash-proof rated. • 18 functions, including DC voltage, AC voltage, DC current (including µA), AC current (including µA), resistance, type-K thermocouple contact temperature, capacitance, frequency, diode, continuity.	
Features: minimum, maximum, average, auto power off, hold, relative, peak hold.	

Electrical measurement	
Maximum voltage	1000 V DC or 1000 V AC RMS
Display count	6000
Frequency counter	• 100.00 Hz ± (0.1% + 2D) • 1000.0 Hz ± (0.1% + 2D) • 10.000 kHz ± (0.1% + 2D) • 100.00 kHz ± (0.1% + 2D)
Resistance	• 600.0 Ω ± (0.9% + 5D) • 6.000 kΩ ± (0.9% + 2D) • 60.00 kΩ ± (0.9% + 2D) • 600.0 kΩ ± (0.9% + 2D) • 6.000 MΩ ± (0.9% + 2D) • 50.00 MΩ ± (3.0% + 5D)
Continuity check	600.0 Ω ± (0.9% + 5D)
Diode test	1.500 ± (0.9% + 2D)
Capacitance	• 1000 nF ± (1.9% + 5D) • 10.00 µF ± (1.9% + 2 digits) • 100.0 µF ± (0.9% + 2 digits) • 1.000 mF ± (0.9% + 2 digits) • 10.00 mF ± (0.9% + 2 digits) • 40.00 mF ± (2.0% + 20 digits)
Temperature, type-K thermocouple	• –40 to +752.0°F DMM ± (1.0% + 5.4°F)/ IGM ± (1.0% + 9°F) • –40 to +400°C DMM ± (1.0% + 3°C)/ IGM ± (1.0% + 5°C)
Measuring rate	3 samples per second

FLIR DM90

P/N: DM90

Revision

42562

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2017-05-09 13:44 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
IP rating	IP54
Drop test	3 m (9.8 ft.)
Warranty	Limited lifetime
Calibration cycle	Once per year, recommended

Certifications	
Certifications	UL, CE, FCC, CB
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V

Power system	
Power requirements	4 × 1.5 V AAA alkaline batteries or optional FLIR TA04 lithium polymer rechargeable battery system
Battery life, alkaline batteries	Approximately 110 hours with backlight and worklight off
Battery life, lithium polymer battery (optional)	Approximately 500 hours with backlight and worklight off
Auto power off	Default: 20 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	• –10 to +30°C (14–86°F), <85% RH • 30 to +40°C (86–104°F), <75% RH • 40–50°C (104–122°F), <45% RH
Storage temperature and RH	–20 to +60°C (–4 to +140°F), 0–80% RH (without batteries)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C (64.4°F) , >28°C (82.4°F)
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1
Shock vibration	Per MIL-PRF-28800F Class 2

Meter physical data	
Weight	536 g (18.9 oz.)
Dimensions (L × W × H)	200 mm × 95 mm × 49 mm (7.9 in. × 3.7 in. × 1.9 in.)
Material	PC/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM90 FLIR meter, TA82 premium test leads, TA70 alligator clips, TA60 thermocouple probe with adapter, TA84 test lead holder storage/tripod accessory, 4 × AAA Energizer batteries, English-only quick start guide
Packaging weight	1.2 kg (2.6 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6 in. × 5.5 in. × 4.3 in.)
Carton weight	15 kg

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Customer support

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Shipping information	
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950370841
UPC-12	793950370841
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories (included in the box)	
TA82	Premium Silicone Test Leads
TA84	Test Lead Storage/Tripod Accessory
TA70	CAT IV Insulated Alligator Probes (Slip On)
TA60	Thermocouple Adapter with Type K Probe

Accessories (optional)	
TA72	Universal Flex Current Probe Accessory 25 cm (10 in.)
TA74	Universal Flex Current Probe Accessory 45 cm (18 in.)
TA04-KIT	Lithium Polymer Rechargeable Battery Kit
TA15	Soft Sided Carrying case
TA52	Magnet Mount
TA50	Magnetic Hanging Strap
TA42	Belt Clip
TA10	Protective Case for FLIR DMMs
TA10-F	Protective Case for FLIR DMMs and TA7X

FLIR DM91: Industrial TRMS Multimeter with Datalogging and Wireless Connectivity

P/N: DM91

Revision

45655

Last modified

2017-10-05 21:46 UTC+1

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Website

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Part number	DM91
Part name	Industrial TRMS Multimeter with Datalogging and Wireless Connectivity

The FLIR DM91 is an affordable, safe, and reliable digital multimeter for a wide range of electrical and electronic system applications. With its durable design, intuitive user interface, and comprehensive features covering high– and low-voltage applications, the FLIR DM91 is uniquely positioned to help you troubleshoot electrical, electronic, and HVAC/R systems. The FLIR DM91 also has Bluetooth technology, so you can connect via METERLiNK to compatible FLIR infrared cameras, or to mobile devices running the FLIR Tools app.

Fast and effective troubleshooting:

- Rich feature set ensures safe and accurate operation.
- Diagnose complex systems with high– and low-voltage measurement capabilities.
- Measure true RMS, LoZ, and VFD, as well as microamp and milliamp current.
- Assess temperatures up to 400°C with the type K thermocouple.
- Work safely with the built-in, non-contact AC voltage detector.

Work efficiently:

- Designed and built to make your job easier.
- Set up and start working fast owing to an intuitive user interface and enhanced ergonomics.
- Work longer with flexible battery options, powerful LED worklights, and a rugged, drop-tested design.
- Record results with datalogging and storage of up to 40 000 scalar measurements.
- Rely on the protection of CAT IV—600 V, CAT III—1000 V safety ratings.

Document and share results:

- View and share information wirelessly for an improved workflow.
- Send readings via METERLiNK to compatible FLIR infrared cameras to embed data into live or saved thermal images.
- Wirelessly connect to FLIR Tools or the FLIR InSite workflow management app for streamlined documentation and information sharing.

Static datalogging and storage	
Data storage interval, configurable	1–99 seconds
Readings per memory set	40 000
Maximum number of memory sets	1

Connectivity	
Wireless technology	Bluetooth BLE
Communications protocol	METERLiNK

Electrical measurement	
Display count	6000
AC/DC V	1000 V AC RMS or 1000 V DC ± 1%/0.09%
AC/DC mV	600.0 mV ± 1%/0.5%

FLIR DM91: Industrial TRMS Multimeter with Datalogging and Wireless Connectivity

P/N: DM91

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Electrical measurement	
VFD AC V	1000 V AC RMS, 45–65 Hz, ± 1%
AC/DC LoZ V	1000 V AC RMS or 1000 V DC ± 2.0%
AC/DC A	10.00 A AC RMS or 10.00 A DC ± 1.5%/1.0%
AC/DC mA range	400.0 mA ± 1.5%/1.0%
AC/DC µA range	4000 µA AC RMS or 4000 µA DC ± 1.0%
Frequency counter	100.00 kHz ± 0.1%
Resistance	6.000 MΩ ± 0.9%, 50.00 MΩ ± 3.0%
Continuity check threshold	20–200 Ω
Diode test	1.500 V ± 0.9%
Capacitance	10.00 mF ± 1.9%
Temperature, type K thermocouple	–40 to 400°C DMM ± (1.0% + 3°C)/IGM ± (1.0% + 5°C) (–40 to 752°F DMM ± (1.0% + 5.4°F)/IGM ± (1.0% + 9°F))
Measuring rate	3 samples per second
Accuracy is given as ± (% of reading)	

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
IP rating	IP40
Drop test	3 m (9.8 ft.)
Warranty	Limited lifetime warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V

Power system	
Power requirements	3 × AA alkaline batteries or optional TA04 lithium polymer rechargeable battery system
Battery life, alkaline batteries	Approximately 180 hours with backlight and worklight off
Battery life, TA04 lithium polymer batteries	Approximately 500 hours with backlight and worklight off
Auto power off	Default: 10 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	–10 to 30°C (14–86°F), <85% RH; 30–40°C (86–104°F), <75% RH; 40–50°C (104–122°F), <45% RH
Storage temperature and RH	–20 to 60°C (–4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C (64.4°F) , >28°C (82.4°F)
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

FLIR DM91: Industrial TRMS Multimeter with Datalogging and Wireless Connectivity

P/N: DM91

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Website

http://www.flir.com

Customer support

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Meter physical data	
Weight	535 g (19.8 oz.)
Dimensions (L × W × H)	200 mm × 95 mm × 49 mm (7.9 in. × 3.7 in. × 1.9 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM91 FLIR meter, TA82 premium test leads, TA70 alligator clips, TA60 thermocouple probe with adapter, TA84 test lead holder storage/tripod accessory, 3 × AA alkaline batteries, soft carrying case, English-only quick start guide
Packaging weight	1.2 kg (2.6 lb.)
Packaging dimensions (H × W × L)	32 cm × 14 cm × 11 cm (12.6 in. × 5.5 in. × 4.3 in.)
Carton weight	15 kg (33.0 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950370919
UPC-12	793950370919
Country of origin	Taiwan
Tariff Ccode	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box
DM91 Industrial TRMS Multimeter with Datalogging and Wireless Connectivity
TA82 Premium Silicone Test Leads
TA84 Test Lead Storage/Tripod Accessory
TA60 Thermocouple Adapter with Type K Probe
TA70 CAT IV Insulated Alligator Probes (Slip On)
Soft-sided carrying case

Optional accessories
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)
TA04-KIT Lithium Polymer Rechargeable Battery Kit
TA52 Magnet Mount

FLIR DM91: Industrial TRMS Multimeter with Datalogging and Wireless Connectivity

P/N: DM91

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Customer support

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Optional accessories	
TA50 Magnetic Hanging Strap	
TA42 Belt Clip	
TA10 Protective case for FLIR DMMs	
TA10-F Protective case for FLIR DMMs and TA7X	

FLIR DM92: Industrial Digital Multimeter with LoZ and VFD Mode

P/N: DM92

Revision

42564

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Website

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Customer support

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Part number	DM92
Part name	Industrial Digital Multimeter with LoZ and VFD Mode

The FLIR DM92 is an industrial-grade digital multimeter built for durability to ensure longevity in rugged environments.

- Variable frequency drive (VFD) mode filters noisy variable-frequency drives and enables accurate voltage and frequency measurements for maintenance and trouble-shooting tasks.
- Low impedance (LoZ) eliminates ghost voltage errors from long wires that share a conduit.
- Convenient LED work lights assist with focusing on test leads without the need to also hold a flashlight.

Functions: DC voltage, AC voltage, DC current, AC current, resistance, type K thermocouple contact temperature, capacitance, frequency, diode, continuity, duty cycle.

Features: VFD mode, LoZ mode, minimum, maximum, average recording, auto power off, hold, relative, peak hold, store, recall.

Measurement	
Maximum voltage	1000 V DC or 1000 V AC RMS
Display count	4000/40 000
Frequency counter	400.00 Hz ± 5 digits 4.0000 kHz ± 5 digits 40.000 kHz ± 5 digits 100.00 kHz ± 5 digits
Resistance	400.0 Ω ± (0.2% + 2 digits) 4.000 kΩ ± (0.2% + 1 digit) 40.00 kΩ ± (0.2% + 1 digit) 400.0 kΩ ± (0.2% + 1 digit) 4.000 MΩ ± (1.0% + 1 digits) 40.00 MΩ ± (2.0% + 20 digits)
Continuity check	400.0 Ω ± (0.2% + 2 digits)
Diode test	2.000 ± (1.5% + 2 digits)
Capacitance	40.00 nF ± (1.2% + 20 digits) 400.0 nF ± (0.9% + 2 digits) 4.000 µF ± (0.9% + 2 digits) 40.00 µF ± (0.9% + 2 digits) 400.0 µF ± (0.9% + 2 digits) 4.000 mF ± (1.2% + 20 digits) 40.00 mF ± (2.0% + 20 digits)
Temperature	–328 to 2192°F ± (1.0% + 36 digits), –200 to 1200°C ± (1.0% + 20 digits)
Measuring rate	10 samples per second

FLIR DM92: Industrial Digital Multimeter with LoZ and VFD Mode

P/N: DM92

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Website

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Customer support

http://support.flir.com

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
Data recording	20 000 points (125 days maximum)
Warranty	Limited lifetime warranty
Calibration cycle:	Once per year, recommended

Certifications	
Certifications	UL, CE, FCC, CB
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V, IEC 61010-2-033

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	Approximately 100 hours with batteries (backlight and work light off)
Auto power off	Default: 10 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	14–86°F (–10 to 30°C), <85% RH 86–104°F (30–40°C), <75% RH 104–122°F (40–50°C), <45% RH
Storage temperature and RH	–22 to 140°F (–30 to -60°C), 0–80% RH (batteries not fitted)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	6560' (2000 m)
Pollution degree	2
EMC	EN61326-1
Shock vibration	Per MIL-PRF-28800 for a Class 2 instrument

Meter physical data	
Weight	16.4 oz. (465 g) including batteries
Dimensions (H × W × L)	2.0″ × 3.2″ × 7.4″ (52 mm × 83 mm × 188 mm) with holster
Material	PC-ABS, TPE
Color	Gray and black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM92 FLIR meter, TA80 premium test leads, 6 × AAA Energizer batteries, user manual/CD
Packaging weight	1.04 kg (2.29 lb.)
Packaging dimensions (H × W × L)	11 cm × 14 cm × 32 cm (4.3″ × 5.5″ × 12.6″)
Carton weight	13.5 kg (29.5 lb.)
Carton dimensions (H × W × L)	13 7/8″ × 11 1/2″ × 24 1/8″
Carton quantity	12
EAN-13	0793950370926
UPC-12	793950370926

FLIR DM92: Industrial Digital Multimeter with LoZ and VFD Mode

P/N: DM92

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Country of Origin	Taiwan
Tariff Code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories
TA10. EVA Protective case for DM9x and IM7x Series
TA50. Magnetic Hanging Strap
TA60. Thermocouple Adapter with Type K Probe
TA70. CAT IV Insulated Alligator Probes (Slip On)
TA80. CAT IV Silicone Test Leads

FLIR DM93

P/N: DM93

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Website

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Customer support

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The FLIR DM93 is a world-class digital multimeter with advanced variable-frequency drive (VFD) filtering to help you accurately analyze non-traditional sine waves and noisy signals found in VFD-controlled equipment.

- VFD mode filters VFD signals and provides accurate voltage and frequency measurements during maintenance and troubleshooting.
- LoZ mode eliminates ghost voltage readings associated with long-run applications.
- Powerful work lights eliminate the need for a flashlight while performing tests in dim lighting.
- The data record feature captures electrical measurements and provides wireless data transfer.
- Integrated Bluetooth technology connects the FLIR DM93 to the FLIR Tools Mobile app on your compatible mobile device.
- METERLiNK technology wirelessly integrates electrical readings on your infrared image with FLIR thermal cameras.

Features:

Voltage and current, bright white LED backlight, analog bargraph, auto AC/DC voltage, minimum, maximum, average recording, auto power off, hold, relative, peak hold, store, recall.

Measurement	
DC voltage	1000.0 V ± 0.05%
AC voltage	1000.0 V ± 0.5%
VFD voltage	1000.0 V ± 0.5%
DC current	10.000 A ± 0.2%
AC current	10.000 A ± 1.0%
Resistance	40.00 MΩ ± 0.2%
Continuity threshold	30 Ω ± 0.2%
Frequency	100.00 kHz ± 5 digits
Capacitance	40.00 mF ± 0.9%
Temperature	–200 to 1200°C (–328 to 2192°F) ± 1.0%
Diode test	2V ±1.5%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
ACV Bandwidth	20 kHz
ACA Bandwidth	10 kHz
Measuring rate:	10 samples per second

Meter data	
Bluetooth range (maximum)	10 m (32′)
Display counts	40 000

FLIR DM93

P/N: DM93

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Website

http://www.flir.com

Customer support

http://support.flir.com

Meter data	
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	20 000 points (125 days maximum)
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)

Certifications	
Certifications	UL, CE, FCC, CB
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~100 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Low battery voltage	~7.0 V
Auto power off	Default: 10 minutes

Environmental data	
Drop test	3 m (9.8 ft.)
IP rating	IP54 dust-protected and splash-resistant
Operating ambient temperatures and relative humidity (RH)	• –10 to 30°C (14–86°F), <85% RH • 30–40°C (86–104°F), <75% RH • 40–50°C (104–122°F), <45% RH
Storage temperature and RH	–30 to 60°C (–22 to 140°F), 0–80% RH (batteries not fitted)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3*g* maximum)

Meter physical data	
Weight	465 g (1 lb.) including batteries
Dimensions (H × W × L)	52 mm × 83 mm × 188 mm (2.0″ × 3.2″ × 7.4″)
Material	• Polycarbonate andacrylonitrile butadiene styrene (PC-ABS) • Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	• DM93 FLIR meter • TA80 premium test leads • Type K temperature probe (400°F, 204°C) • Magnetic hanging strap • 6 × AAA Energizer batteries • User manual/CD
Packaging weight	1.04 kg (2.29 lb.)
Packaging dimensions (H × W ×L)	11 cm × 14 cm × 32 cm (4.3″ × 5.5″ × 12.6″)

FLIR DM93

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Carton weight	20.8 kg (45.9 lb.)
Carton dimensions (H × W ×L)	65 cm × 30 cm × 56 cm (25.6″ × 11.8″ × 22.0″)
Carton quantity	20
EAN-13	0793950370933
UPC-12	793950370933
Country of origin	Taiwan
Tariff code	9030310000

Accessories	
TA80	CAT IV silicon test leads

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR DM166: Thermal Imaging TRMS Multimeter with IGM

P/N: DM166

Revision

45664

Last modified

2017-10-05 22:12 UTC+1

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Customer support

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Part number	DM166
Part name	Thermal Imaging TRMS Multimeter with IGM

The FLIR DM166 is FLIR's most affordable multimeter with built-in thermal imaging to date—a must-have tool for commercial electricians and automation, electronics, and HVAC technicians. Featuring Infrared Guided Measurement (IGM) powered by an 80 × 60 FLIR thermal imager, the FLIR DM166 visually guides you to the precise location of temperature anomalies and potential problems fast, safely, and efficiently. The feature-packed multimeter is an ideal tool for troubleshooting and diagnosing complex issues in both high and low-voltage applications.

Troubleshoot faster:

- One tool gets the job done.
- Equipped with IGM to quickly scan for overheating components.
- Broad DMM test functions to troubleshoot and diagnose the fault.
- The unique combination of onboard thermal imaging and traditional DMM test functions makes troubleshooting easier.

Work safer:

- Identify energized and potentially faulty equipment from a safe distance.
- Non-contact temperature measurement.
- Integrated non-contact voltage detection.
- CAT III—600 V, CAT IV—300 V safety ratings.

Diagnose problems more efficiently and effectively:

- Rich feature set covers both high– and low-voltage applications.
- 600 V AC/DC voltage measurements and 10 A AC/DC current measurements.
- Variable-frequency drive (VFD) measurement function.
- Measures resistance up to 60 MΩ, frequency up to 50 kHz, capacitance up to 10 000 µF, and continuity/diode.

Thermal imaging	
Detector type	FLIR Lepton; micro-bolometer focal plane array (FPA)
Infrared (IR) imaging resolution (V × H)	80 × 60 pixels
IR imaging field of view (V × H)	50° × 38°
IR imaging spectral response	8–14 µm
Thermal sensitivity	150 mK (0.15°C)
IR image capture frequency	9 Hz
IR image color palettes	Rainbow, Iron, Gray scale
Laser pointer type	Class I (red)
Laser pointer power	<0.4 mW
IR temperature measurement range	–10 to 150°C (14–302°F)
Over- and under-range indication	OL

FLIR DM166: Thermal Imaging TRMS Multimeter with IGM

P/N: DM166

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Website

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Customer support

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Thermal imaging	
Temperature reading stabilization	No startup delay
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	±3°C (5.4°F) or ± 3% of the reading (whichever is greater) for temperatures > 25°C (77°F), ±5°C for temperatures –10°C to 25°C (14–77°F)
Distance-to-spot (D:S) ratio	30:1
Emissivity adjustment	0.95 maximum, 4 presets plus a custom setting (0.10–0.99)
Targeting	Displayed cross-hairs pinpoint the center of the measurement spot
Hold	Image with measurement

Electrical measurement	
Display count	6000
AC/DC V	600 V AC RMS or 600 V DC ± 0.7%/0.5%
AC/DC mV	600.0 mV ± 1%/0.3%
VFD AC V	600 V AC RMS, 10–100Hz, ± 1%
AC/DC A	10.00 A AC RMS or 10.00 A DC ± 1.0%/0.7%
AC/DC mA range	600.0 mA ± 1.0%/0.7%
AC/DC µA range	6000 uA AC RMS or 6000 uA DC ± 1.5%/1.0%
Frequency counter	50 kHz ± 0.03%
Resistance	6.000 MΩ ± 0.9%, 60.00 MΩ ± 1.5%
Continuity check threshold	30–480 Ω
Diode test	3.000 V ± 0.9%
Capacitance	2.000 mF ± 2.0%, 10.00 mF ± 5.0%
Temperature, type K thermocouple	–40 to 400°C DMM ± (1.0% + 1.5°C) (–40 to 752°F DMM ± (1.0% + 3°F))
Measuring rate	5 samples per second
Accuracy is given as ± (% of reading)	

Meter data	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	3 m (9.8 ft.)
Warranty	10-10 limited warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V

Power system	
Power requirements	3 × AA Energizer L91 lithium (Li/FeS_2) batteries or optional TA04 lithium polymer rechargeable battery system
Battery life, Energizer L91 Llithium batteries	Approximately 22 hours constant IGM

FLIR DM166: Thermal Imaging TRMS Multimeter with IGM

P/N: DM166

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Customer support

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Power system	
Battery life, TA04 lithium polymer batteries	Approximately 22 hours constant IGM
Auto power off	5 minutes (default), 10 minutes, 20 minutes, and off selectable

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating Humidity	80% to 31°C; decreasing linearly to 50% at 31–50°C
Storage temperature and relative humidity (RH)	–20 to 60°C (–4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	Nominal 0.15 × (specified accuracy)/°C at –10°C to 18°C (14–64.4°F) or 28–50°C (82.4–122°F), or as otherwise specified
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	428.3 g (15.1 oz.)
Dimensions (L × W × H)	190 mm × 86.4 mm × 48.3 mm (7.5 in. × 3.4 in. × 1.9 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM166, 3 × L91 lithium batteries (AA), high-quality silicone test leads, soft carrying case
Packaging weight	1.3 kg (2.9 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (12.6 in. × 5.5 in. × 4.3 in.)
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950391662
UPC-12	793950391662
Country of origin	Taiwan
Tariff code	9027504020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR DM166: Thermal Imaging TRMS Multimeter with IGM

P/N: DM166

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Website

http://www.flir.com

Customer support

http://support.flir.com

Included in the box	
DM166 Thermal Imaging TRMS Multimeter with IGM	
TA80 Premium Silicone Test Leads	
Soft carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA04-KIT Lithium Polymer Rechargeable Battery Kit	
TA84 Test Lead Storage/Tripod Accessory	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA50 Magnetic Hanging Strap	

FLIR DM285: Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM

P/N: DM285

Revision

45669

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	DM285
Part name	Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM

The FLIR DM285 is an industrial, all-in-one true RMS digital multimeter and thermal imager that can show you exactly where a temperature anomaly is for faster troubleshooting. Featuring Infrared Guided Measurement (IGM) powered by a built-in 160 × 120 FLIR thermal imager, the meter visually guides you to the precise location of a problem. You'll pinpoint issues faster, more safely, and efficiently. Ideal for inspecting industrial electrical, mechanical, HVAC/R, and electronic systems, and can be used for benchtop electronics and in the field. The FLIR DM285 uniquely features Bluetooth METERLiNK, and is compatible with the new FLIR InSite workflow management tool that allows you to prepare efficient survey routes, maintain accurate documentation, share information with clients, and file instant reports.

Work safer and smarter:

- Thermal imaging allows you to quickly scan for overheating system components, then use the DMM test functions to troubleshoot and diagnose the fault.
- Non-contact temperature measurement identifies energized and potentially faulty equipment from a safe distance.
- Wirelessly connect to the FLIR InSite professional workflow management tool to streamline inspections and simplify data collection, sharing, and reporting.
- Onboard data storage for both electrical parameter data and thermal images.

Troubleshoot challenging problems more efficiently and effectively:

- Fully loaded with features for high– and low-voltage applications.
- 18-function DMM including VFD mode, true RMS, LoZ, NCV, a built-in worklight, and a laser pointer.
- Measures voltage, current, frequency, resistance, continuity, diode, capacitance, and temperature.
- Intuitive menu for ease of use.

Design and functionality:

- An all-in-one tool that's built to last.
- Durable and drop tested with a 10-year warranty.
- Quick and easy battery changes with the "no tool" battery compartment.
- Upgraded display with an improved viewing angle.

Static datalogging and storage	
Data storage interval, configurable	1–99 seconds
Readings per memory set	40 000
Maximum number of memory sets	10

Thermal image storage	
Maximum number of images	100

Connectivity	
Wireless technology	Bluetooth BLE
Communications protocol	METERLiNK

FLIR DM285: Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM

P/N: DM285

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Website

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Customer support

http://support.flir.com

Thermal imaging	
Detector type	FLIR Lepton; micro-bolometer focal plane array (FPA)
Infrared (IR) imaging resolution (V × H)	160 × 120 pixels
IR imaging field of view (V × H)	50° × 38°
IR imaging spectral response	8–14 µm
Thermal sensitivity	150 mK (0.15°C)
IR image capture frequency	9 Hz
IR image color palettes	Rainbow, Iron, Gray scale
Laser pointer type	Class I (red)
Laser pointer power	<0.4 mW
IR temperature measurement range	–10 to 150°C (14–302°F)
Over- and under-range indication	OL
Temperature reading stabilization	Dashes are displayed for approximately 30 seconds while the temperature reading stabilizes
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	±3°C (5.4°F) or ± 3% of the reading (whichever is greater) for temperatures > 25°C (77°F), ±5°C for temperatures –10°C to 25°C (14–77°F)
Distance-to-spot (D:S) ratio	30:1
Emissivity adjustment	0.95 maximum, 4 presets plus a custom setting (0.10–0.99)
Targeting	Displayed cross-hairs pinpoint the center of the measurement spot
Hold	Image with measurement

Electrical measurement	
Display count	6000
AC/DC V	1000 V AC RMS or 1000 V DC ± 1%/0.09%
AC/DC mV	600.0 mV ± 1%/0.5%
VFD AC V	1000 V AC RMS, 45–65 Hz, ± 1%
AC/DC LoZ V	1000 V AC RMS or 1000 V DC ± 2.0%
AC/DC A	10.00 A AC RMS or 10.00 A DC ± 1.5%/1.0%
AC/DC mA range	400.0 mA ± 1.5%/1.0%
AC/DC µA range	4000 µA AC RMS or 4000 µA DC ± 1.0%
Frequency counter	100.00 kHz ± 0.1%
Resistance	6.000 MΩ ± 0.9%, 50.00 MΩ ± 3.0%
Continuity check threshold	20–200Ω
Diode test	1.500 V ± 0.9%
Capacitance	10.00 mF ± 1.9%
Temperature, type K thermocouple	–40 to 400°C DMM ± (1.0% + 3°C)/IGM ± (1.0% + 5°C) (–40 to 752°F DMM ± (1.0% + 5.4°F)/IGM ± (1.0% + 9°F))
Measuring rate	3 samples per second
Accuracy is given as ± (% of reading)	

FLIR DM285: Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM

P/N: DM285

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Website

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Customer support

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Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
IP rating	IP40
Drop test	3 m (9.8 ft.)
Warranty	10-10 limited warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V

Power system	
Power requirements	3 × AA Energizer L91 Lithium (Li/FeS_2) batteries or optional TA04 lithium polymer rechargeable battery system
Battery life, Energizer L91 lithium batteries	Approximately 12 hours constant IGM
Battery life, TA04 lithium polymer batteries	Approximately 12 hours constant IGM
Auto power off	Default: 10 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	–10 to 30°C (14–86°F), <85% RH; 30 to 40°C (86–104°F), <75% RH; 40–50°C (104 to 122°F), <45% RH
Storage temperature and RH	–20 to 60°C (–4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C (64.4°F) , >28°C (82.4°F)
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	537 g (18.9 oz.)
Dimensions (L × W × H)	200 mm × 95 mm × 49 mm (7.9 in. × 3.7 in. × 1.9 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM285 FLIR meter, TA82 premium test leads, TA70 alligator clips, TA60 thermocouple probe with adapter, TA84 test lead holder storage/tripod accessory, 3 × AA Energizer batteries, English-only quick start guide
Packaging weight	1.3 kg (2.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13 in. × 5.5 in. × 4.33 in.)
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)

FLIR DM285: Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM

P/N: DM285

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Carton quantity	12
EAN-13	0793950372876
UPC-12	793950372876
Country of origin	Taiwan
Tariff code	9027504020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box
DM285 Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity, and IGM
TA82 Premium Silicone Test Leads
TA84 Test Lead Storage/Tripod Accessory
TA60 Thermocouple Adapter with Type K Probe
TA70 CAT IV Insulated Alligator Probes (Slip On)
Soft-sided carrying case

Optional accessories
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)
TA04-KIT Lithium Polymer Rechargeable Battery Kit
TA52 Magnet Mount
TA50 Magnetic Hanging Strap
TA42 Belt Clip
TA10 Protective case for FLIR DMMs
TA10-F Protective case for FLIR DMMs and TA7X

FLIR IM75: Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK

P/N:IM75

Revision

29700

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2015-10-16 07:11 UTC+1

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Website

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Customer support

http://support.flir.com



Part number	IM75
Part name	Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK
Part description	The FLIR IM75 is both an advanced multifunction digital multimeter and a premier handheld insulation tester with functions for installation, troubleshooting and maintenance for professionals. The FLIR IM75 includes several specialty insulation modes such as polarization index, dielectric absorption, and earth bond resistance. Insulation tests can be performed instantly, continuously, and over a timed duration to allow for in-depth assessment. The multi-color LED indicator in compare mode makes pass/fail determinations easy and visible. METERLiNK connectivity to the FLIR Tools Mobile app allows the remote display of readings on smart phones and tablets. Additionally, METERLiNK connectivity technology allows the user to view readings on a FLIR thermal camera that supports METERLiNK.
Part features	• Advanced insulation modes: insulation resistance, polarization index, dielectric absorption, and earth bond resistance. • VFD mode for superior voltage and frequency accuracy, viewable on the dual LCD. • Remote viewing of real-time readings on Android and iOS mobile devices with the free app (FLIR Tools Mobile). • Document and analyze thermal changes during insulation measurements with METERLiNK FLIR thermal cameras. • Extremely bright work lights (dual LEDs). • Durable, rugged, double-molded construction. • Ready for work with accessories silicone CAT IV test leads with screw-on alligator clips, magnetic hanging strap, thermocouple adapter, and general-purpose bead probe.

Measurement	
Measurement rate	2 samples per second, nominal
Display rate	2 times per second
Input impedance	3 MΩ V DC/V AC <100 pF
AC voltage bandwidth	50–500 Hz
DC voltage	1000.0 V ± (0.1% + 5 digits)
AC voltage	1000.0 V: 50–60 Hz ± (1.5% + 5 digits), 61–500 Hz ± (2.0% + 5 digits)
VFD AC voltage	1000.0 V: 50–60 Hz ± (1.5% + 5 digits), 61–500 Hz, ± (5.0% + 5 digits)

FLIR IM75: Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK

P/N: IM75

Revision

29700

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Website

http://www.flir.com

Customer support

http://support.flir.com

Measurement	
Earth bond resistance	40.00 Ω ± (1.5% + 5 digits)* 400.0 Ω ± (1.5% + 3 digits) 4000 Ω ± (1.5% + 3 digits) 40.00 kΩ ± (1.5% + 3 digits)
Continuity	400.0 Ω ± (0.5% + 2 digits)
Diode	2.000 V ± (1.5% + 2 digits)
Capacitance	1000 µF ± (1.2% + 2 digits) 10.00 mF ± (1.2% + 20 digits)
Frequency (AC V)	400.0 Hz ± 5 digits 4.000 kHz ± 5 digits 40.00 kHz ± 5 digits
Insulation resistance	4.000 MΩ ± (1.5% + 5 digits) 40.00 MΩ ± (1.5% + 5 digits) 400.0 MΩ ± (3.0% + 5 digits) 4000 MΩ ± (3.0% + 5 digits) 4.1–20.0 GΩ ± (10.0% + 3 digits)
Insulation resistance test voltages	50 V, 50.0 MΩ 100 V, 100.0 MΩ 250 V, 250.0 MΩ 500 V, 500.0 MΩ 1000 V, 20 GΩ
Polarization index (PI)	10 min in test/1 min in test
Dielectric absorption ratio (DAR)	1 min in test/30 s in test

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
Internal memory	99 storage locations
Warranty	Limited lifetime
Over-current protection (fuse)	440 mA/1000 V, ceramic fast-blow fuse with a minimum interrupt rating of 10 kA

Certifications	
Agency approvals	FCC Class B, CE, UL

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	Earth bond resistance measurements: 2600 with new alkaline batteries (standard tests of 1 Ω with a duty cycle of 5 seconds on and 25 seconds off). Insulation resistance: 1100 insulation resistance tests with new alkaline batteries (standard tests of 1 Ω with a duty cycle of 5 seconds on and 25 seconds off). This does not include Bluetooth or backlight use.
Auto power off	User programmable: up to 30 minutes in 1 minute increments, with audible pre-alert (20 seconds)

Environmental data	
Operating temperature	32–122°F (0–50°C)
Operating humidity	Maximum 80% up to 95°F (35°C) decreasing linearly to 60% at 113°F (45°C)

FLIR IM75: Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK

P/N:IM75

Revision

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Website

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Customer support

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Environmental data	
Storage temperature	–4 to 140°F (–20 to 60°C)
Storage temperature and relative humidity	–20 to 60°C (–4 to 140°F), 80% maximum
Operating altitude	6561' (2000 m)
Pollution degree	2
EMC	EN 61326-1
Shock vibration	Per MIL-PRF-28800 for a Class 2 instrument

Meter physical data	
Display	4000 count with bar graph
Controls	9-position rotary switch, 4-way selector pad with center OK/TEST button, LED (pass (green), fail (red)), dedicated function buttons (5: mode, cancel, hold/lock, Bluetooth, backlight)
Backlight	White LEDs
Work lights	Two white LEDs
Weight:	1.4 lb. (630 g), including batteries
Dimensions (H × W × L)	3.7″ × 8.1″ × 2.0″ (95 mm × 207 mm × 52 mm)
Material	PC-ABS, TPE
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	IM75 FLIR meter, TA81 premium test probes with clips, CD with translated manuals, 6 × AAA Energizer batteries
Packaging dimensions (H × W × L)	11 cm × 14 cm × 32 cm (4.3″ × 5.5″ × 12.6″)
Packaging weight	1.16 kg (2.55 lb.), including batteries
Carton weight	15 kg (33 lb.)
Carton dimensions	13 7/8″ × 11 1/2″ × 24-1/8″
Carton quantity	12
EAN-13	0793950370957
UPC-12	793950370957
Country of origin	Taiwan
Tariff code	9030330040

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
TA10. EVA Protective Case for DM9x and IM7x Series	
TA50. Magnetic Hanging Strap	
TA70. CAT IV Insulated Alligator Probes (Slip On)	

FLIR IM75: Insulation Tester and Digital Multimeter with VFD Mode and METERLiNK

P/N: IM75

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

Accessories	
TA80. CAT IV Silicone Test Leads	

FLIR MR40

P/N: MR40

Revision

41014

Last modified

2017-03-09 09:25 UTC+1

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Website

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Customer support

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Part number	MR40
Part name	Moisture Pen + Flashlight
Part description	The FLIR MR40 is a rugged 2-pin, single-scale moisture meter with an integrated flashlight for wood and common building materials—ideal for builders, building inspectors, remodelers, moisture remediation technicians, pest control professionals, and residential roofing and flooring contractors. Providing reliable and accurate measurements at a highly affordable price point, the FLIR MR40 is a quick and easy-to-use tool to find and quantify moisture problems. With its pen-like form factor, the FLIR MR40 can be carried in a shirt pocket, ready to work. • Sleek design for getting into corners. • Replaceable pins—spare set included. • Measurement “hold” function. • Lanyard cap retention.

Measurement	
Measurement range	5–60% MC (moisture content)
Measurement accuracy	• 5–30 ± 2% MC • 30–60% MC: reference only **NOTE:** The displayed reading is for Group 9/Building materials, including plywood, drywall, and oriented-strand board. For other materials, refer to the conversion chart available on the FLIR customer support website: http://tinyurl.com/jteb653
Audible indication	5–12%: low beep rate. 13–60%: higher beep rate. >60%: highest beep rate (display OL)
Calibration/pin check, integrated in cap	16%

Meter data	
Work light	~40 lumens
Display	LCD
Electrode pins	Integrated, replaceable
Measurement principle	Electrical resistance
Warranty	Limited lifetime
Calibration cycle	N/A

Certifications	
Certifications	CE

Power system	
Power requirements	2 × AAA alkaline batteries
Battery life	70 hours without flashlight
Battery status indicator	4-bar battery icon
Auto power off (APO)	3 minutes

P/N: MR40

Revision

41014

Last modified

2017-03-09 09:25 UTC+1

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Website

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Customer support

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Environmental data	
Drop test	3 m (9.8 ft.)
Ingress protection rating	IP54 splash proof
Operating temperature	–10 to +60°C (14–140°F)

Physical data	
Weight	80 g (2.8 oz) with battery
Dimensions (H × W × L)	193 mm × 26 mm × 31 mm (7.6 in. × 1.0 in. × 1.2 in.)
Material	PC-ABS with TPE overmold
Color	Gray and black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	• MR40 Moisture Pen + Flashlight • 2 × AAA Energizer batteries • Spare pin set • User manual
Packaging weight	0.17 kg (0.38 lb.)
Packaging dimensions (H × W × L)	24.5 cm × 8.5 cm × 6.5 cm (9.7 in. × 3.4 in. × 2.5 in.)
Carton weight	4.7 kg (10.3 lb.)
Carton dimensions (H × W × L)	47.7 cm × 37 cm × 20 cm (18.8 in. × 14.6 in. × 7.9 in.)
Carton quantity	20
EAN-13	0793950370414
UPC-12	793950370414
Country of origin	China
Tariff code	9025803500

Accessories	
MO25-PINS	Spare Electrode Pins (10 pins per pack)

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

MR60 Moisture Meter Pro

P/N: MR60

Revision

42568

Last modified

2017-05-09 13:55 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



General description	
Part number	MR60
Part name	Moisture Meter Pro

The FLIR MR60 Moisture Meter Pro is a full-featured construction troubleshooting tool, allowing the collection and storage of moisture data over time from multiple sites.

An integrated pinless sensor and an external pin probe provide the flexibility to take either intrusive or non-intrusive measurements. Built tough with an industry-leading warranty, the MR60 can serve as your go-to troubleshooting tool right out of the box, helping you find hidden moisture issues and capture reliable data more efficiently.

Troubleshoot quickly:

- Easily investigate insulation and moisture issues
- Pinless technology for fast non-intrusive measurements
- External pin probe included for invasive moisture measurements
- Includes construction material ranges
- Stores multiple readings with date/time stamp
- Data can be exported as CSV files to use with PC-based tools

Portable, tough and durable:

- Drop tested rugged design
- Industry-leading warranty
- Small form factor to conveniently carry with you
- Internal rechargeable battery with USB

Moisture measurement	
Pin moisture via external probe range: accuracy	Wood groups (1-9): 7% - 30% MC ±1.5% MC 30 % - 100% (reference only) Construction material groups (10-11): 0- 20% (reference only)
Pin moisture groups	Nine (9) wood groups, two (2) construction material groups
Pinless moisture range	0–100 relative measurement
Pinless moisture depth	1.9 cm (0.75”) maximum
Sample rate	10 Hz (approx., both modes)
Measurement resolution	0,1
Response time Pinless	100 ms
Response time Pin Mode	750 ms

General information	
Display type (W x H)	QVGA (320 x 240) pixel 2.3” 64K color TFT graphic display
Warranty	2 years
Stored data file format	Comma Separated Values (.csv) format with date/time stamp. Reading value, reading type included.
Saved screenshot file format	Bitmap (.bmp) with measurement values overlaid
Stored screenshot capacity	9999 screenshots
Internal memory	4GB

MR60 Moisture Meter Pro

P/N: MR60

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Certifications	
Certification standards	EN61326 (EMC), EN61010 (Battery + Charger)
Agency approvals	FCC Class B, CE, UL, RCM

Power system	
Power requirements:	Integrated rechargeable battery
Continuous Run Time:	18 hours max
Typical Usage:	4 work weeks
Auto power off:	Programmable: OFF, 1, 5, or 20 minutes
Power adapter	100–240 V input/ 5 V 1A output
Battery	3.7 V, 2000 mAh Li-ion rechargeable via micro USB

Environmental	
Drop Test	3 m (9.8 ft)
Operating temperature	0~50 °C (32~122 °F)
Storage temperature	-10~60°C (14~140°F)
Operating humidity	≤ 90%, 0~30°C (32~86°F) ≤ 75%, 30~40°C (86~104°F) ≤ 45%, 40~50°C (104~122°F)
Storage humidity	90% RH

Meter physical data	
Weight	300 g (10.6 oz.)
Dimensions (H × W × L)	14 × 7.2 × 4.2 cm (5.5 × 2.8 × 1.7 in)
Material	PC-ABS
Color	Black

Shipping information	
Packaging, type	Retail color box
Packaging, Contents	MR60, MR02 Pin Probe, Lanyard, Quick Start Guide, FLIR Tools card, T&M line card, Moisture and Accessories line card, International Charger with USB cable, Warranty card
Each Weight	0.91 kg (2.0 lb.)
Each Dimensions (H × W × L)	33.1 × 14 × 12.1 cm (13.0 × 5.5 × 4.8 in.)
Master Carton Weight	13.3 kg (29.3 lb.)
Master Carton Dimensions (H × W × L)	51.2 × 25.8 × 64 cm (20.2 × 10.2 × 25.2 in.)
Master Carton Quantity	12
EAN-13	0793950370605
UPC-12	793950370605
Country of Origin	China
Tariff Code	9025.8050.00

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662

P/N: MR60

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Website

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Customer support

http://support.flir.com

Technical support	
Repairs	repair@flir.com

Accessories	
MR09	Baseboard Probe
MR08	Hammer / Wall Probe Combo
MR07	Hammer Probe
MR06	Wall Cavity Probe
MR05	Impact Pin Probe
MR10	EVA Protective Case

FLIR MR77

P/N: MR77

Revision

42569

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Website

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Customer support

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The FLIR MR77 moisture meter performs all the critical and advanced measurements professionals demand. Its rugged design with field-replaceable sensors is engineered to reduce downtime.

- Field-replaceable temperature and relative humidity (RH) sensor.
- The integrated infrared (IR) thermometer provides fast non-contact surface temperature measurements.
- The remote pin-type probe (included) allows for contact moisture readings.
- The large LCD screen clearly displays moisture, humidity, and air temperature levels.
- FLIR Tools Mobile connects the FLIR MR77 to your compatible smartphone and tablet via Bluetooth.
- METERLiNK technology wirelessly integrates moisture readings on your image with FLIR thermal cameras.
- All the sensors you need: integrated pinless moisture sensor, temperature and RH, IR thermometer, and external moisture pin probe.

Features:

Grains per pound or grains per kilogram, dew point, condensation point, differential temperature (IR and dew point), material/wood groups, high/low humidity and moisture alarms, store, recall, minimum, maximum, data hold, auto power off, bright white LED backlight, low battery indication.

Measurement	
Ambient temperature	0 to 50°C (32 to to 122°F) ± 0.6°C (1.1°F)
RH at 20–30°C (68–86°F)	10–90% ± 2.5%
Pin moisture	• 7–30% (± 1.5% MC) • 30–100% (reference only)
Pin-less moisture range (accuracy)	0–99.9 relative measurement
IR temperature (8:1 distance to spot ratio)	20–0°C (–4 to 32°F) ± 5°C (± 9°F), 1– 200°C (33–392°F), greater of ± 3.5% or ± 5°C (±9°F)
IR emissivity	0.95 fixed
Sample rate	2 per second
Vapor pressure range (accuracy)	0.0–20.0 kPa, greater of ± 2.0% or 0.2 kPa
Dew point temperature range	–30 to 50°C (–22 to 122°F)
Mixing ratio range	0–999 GPP (0–160 g/kg)

Meter data	
Bluetooth range (maximum)	10 m (32')
Bluetooth compatibility	FLIR Tools Mobile Android
Category rating	N/A
Data recording	20 points internal
Warranty	Limited lifetime
Calibration cycle	Annual (recommended)

FLIR MR77

P/N: MR77

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Website

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Customer support

http://support.flir.com

Certifications	
Certifications	FCC
Complies with standards	FCC Class B

Power system	
Power requirements	9 V alkaline
Battery life	~100 hours with alkaline batteries (backlight and work light off)
Low battery voltage	N/A
Auto power off	~30 minutes with disable

Environmental data	
Operating ambient temperatures and RH	• 0–50°C (32–122°F), 90% RH • 0–30°C (32–86°F), 75% RH • 30–40°C (86–104°F), 45% RH • 40–50°C (104–122°F)
Storage temperature and RH	–10 to 60°C (14–140°F), 90% RH maximum

Physical data	
Weight	0.29 kg (0.65 lb.), including batteries
Dimensions (H × W × L)	139 mm × 72 mm × 42 mm (5.4″ × 2.8″ × 1.7″)
Material	• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS) • Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	• MR77 FLIR meter • MR01 temperature and RH sensor • MR02 wired pin probe • 9 V Energizer battery • User manual (English), CD (translations)
Packaging weight	0.70 kg (1.54 lb.)
Packaging dimensions (H × W × L)	13.5 cm × 11 cm × 30 cm (5.3″ × 4.8″ × 11.8″)
Carton weight	15.00 kg (33.07 lb.)
Carton dimensions (H × W ×L)	57 cm × 30 cm × 65 cm (22.4″ × 11.8″ × 52.6″)
Carton quantity	20
EAN-13	0793950370773
UPC-12	793950370773
Country of origin	China
Tariff code	9025803500

Accessories	
MR01	Temperature/RH sensor
MR02	External pin moisture probe

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com

P/N: MR77

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Website

http://www.flir.com

Customer support

http://support.flir.com

Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TA72

P/N:TA72

Revision

42570

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2017-05-09 14:00 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	TA72
Name	Large Universal Flex Current Probe Accessory
Description	10″ (25 cm) 3000 A AC flexible current probe with universal mV output and worklights

The FLIR Universal Flex Current Probe accessories are designed to add capabilities, simplify challenges, and get the best readings with your existing meter. Made with a narrow flexible coil clamp and locking mechanism, the FLIR TA72 and TA74 let you easily take measurements in tight or awkward spots—a difficult task with a traditional hard jaw clamp meter. The connection is a standard banana plug and the output is a voltage signal, so it's compatible with most DMMs and clamp meters, regardless of brand.

Take accurate measurements in tight or awkward spots—tricky conductors conquered:

- Snake the coil around obstacles with ease, even in deep, crowded cabinets.
- Measure multiple conductors and targets with limited clearance.
- Switchable AC current range: 30 A, 300 A, and 3000 A.

Empower your meter—compatible with most DMMs and clamp meters, regardless of brand:

- Adds 3000 A AC measurements to existing meters.
- Standard banana plug connectors fit most meters.
- AC voltage output for wide compatibility.

Easy inspection and navigation—designed with your convenience in mind:

- Bright, dual-LED worklights provide built-in illumination for dark cabinets.
- Rugged design drop-tested to 3 m, portable, and lightweight.
- Limited lifetime warranty with registration.

Minimum requirements for meter compatibility with TA7x	AC voltage function, 4000-count display, 1 mV resolution
Suitable main units	DM93, DM92

Measurement	
Maximum AC	3000 A AC
AC ranges and resolution	30.00 A, 300.0 A, 3000 A
Basic AC accuracy (full scale)	±3.0% + 5 digits
Measurement rate	1.5 samples per second, nominal
AC bandwidth	45–500 Hz (sine wave)
Detailed accuracy	30.00 A ± (3.0% + 5 digits), 300.0 A ± (3.0% + 5 digits), 3000 A ± (3.0% + 5 digits)
Positional error (distance from optimum)	15 mm (0.6″) ± 2.0%, 25 mm (1.0″) ± 2.5%, 35 mm (1.4″) ± 3.0%

Meter data	
Maximum conductor diameter	6 cm (2.4″)

FLIR TA72

P/N: TA72

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Website

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Customer support

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Meter data	
Flex cable length	25 cm (10″)
Coil bend radius	38 mm (1.5″)
Coil diameter	7.5 mm (0.3″)
Coil tip diameter	13 mm (0.5″)
Probe length	1.9 m (73″)
Worklight	Two white LEDs

Power system	
Power supply	2 × 1.5 V AAA
Battery life	160 hours with alkaline batteries (calculated)
Auto power off	Approximately 10 minutes after power on or disable

Environmental	
Drop test	3 m (9.8′)
IP rating	IP54 dust-protected and splash-resistant
Maximum operating altitude	2000 m (6562′)
Operating temperature	0–50°C (32–122°F)
Operating humidity	Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F)
Temperature coefficient	0.2 × specified accuracy/°C, <64.5°F (18°C), >82.4°F (28°C)
Storage temperature	–20 to +60°C (–4 to +140°F) without batteries
Storage humidity	80% relative humidity (maximum)

Certifications	
Agency approvals	RCM, CSA, KC
Safety compliance	CAT IV—600 V, CAT III—1000 V
Standards	EN61010-1, EN61010-2-032, EN61326-1

Physical data	
Dimensions (W × H × D)	120 mm × 280 mm × 25 mm (4.7″ × 11.0″ × 1.0″)
Weight	170 g (6.0 oz.) with batteries

Shipping	
Packaging type	Color box
Packaging contents	TA72, 2 × AAA 1.5 V Energizer batteries, quick start guide, user manual on CD
Packaging weight	0.61 kg
Packaging dimensions (L × W × H)	32 cm × 18.5 cm × 6.8 cm
Inner carton quantity	3
Inner carton weight	1.94 kg
Inner carton dimensions (L × W × H)	59.5 cm × 6.3 cm × 20.3 cm
Master carton quantity	12
Master carton weight	9.5 kg

P/N: TA72

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping	
Master carton dimensions (L × W × H)	61 cm × 50 cm × 22 cm
EAN-13	0793950377727
UPC-12	793950377727
Country of origin	Taiwan
Tariff code	9030908821

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TA74

P/N:TA74

Revision

42571

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2017-05-09 14:02 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	TA74
Name	Large Universal Flex Current Probe Accessory
Description	18″ (45 cm) 3000 A AC flexible current probe with universal mV output and worklights

The FLIR Universal Flex Current Probe accessories are designed to add capabilities, simplify challenges, and get the best readings with your existing meter. Made with a narrow flexible coil clamp and locking mechanism, the FLIR TA72 and TA74 let you easily take measurements in tight or awkward spots—a difficult task with a traditional hard jaw clamp meter. The connection is a standard banana plug and the output is a voltage signal, so it's compatible with most DMMs and clamp meters, regardless of brand.

Take accurate measurements in tight or awkward spots—tricky conductors conquered:

- Snake the coil around obstacles with ease, even in deep, crowded cabinets.
- Measure multiple conductors and targets with limited clearance.
- Switchable AC current range: 30 A, 300 A, and 3000 A.

Empower your meter—compatible with most DMMs and clamp meters, regardless of brand:

- Adds 3000 A AC measurements to existing meters.
- Standard banana plug connectors fit most meters.
- AC voltage output for wide compatibility.

Easy inspection and navigation—designed with your convenience in mind:

- Bright, dual-LED worklights provide built-in illumination for dark cabinets.
- Rugged design drop-tested to 3 m, portable, and lightweight.
- Limited lifetime warranty with registration.

Minimum requirements for meter compatibility with TA7x	AC voltage function, 4000-count display, 1 mV resolution
Suitable main units	DM93, DM92

Measurement	
Maximum AC	3000 A AC
AC ranges and resolution	30.00 A, 300.0 A, 3000 A
Basic AC accuracy (full scale)	±3.0% + 5 digits
Measurement rate	1.5 samples per second, nominal
AC bandwidth	45–500 Hz (sine wave)
Detailed accuracy	30.00 A ± (3.0% + 5 digits), 300.0 A ± (3.0% + 5 digits), 3000 A ± (3.0% + 5 digits)
Positional error (distance from optimum)	35 mm (1.4″) ± 1.0%, 50 mm (2.0″) ± 1.5%, 60 mm (2.4″) ± 2.0%

Meter data	
Maximum conductor diameter	12 cm (4.7″)

FLIR TA74

P/N: TA74

Revision

42571

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Website

http://www.flir.com

Customer support

http://support.flir.com

Meter data	
Flex cable length	45.7 cm (18″)
Coil bend radius	80 mm (3.1″)
Coil diameter	7.5 mm (0.3″)
Coil tip diameter	13 mm (0.5″)
Probe length	1.9 m (73″)
Worklight	Two white LEDs

Power system	
Power supply	2 × 1.5 V AAA
Battery life	160 hours with alkaline batteries (calculated)
Auto power off	Approximately 10 minutes after power on or disable

Environmental	
Drop test	3 m (9.8′)
IP rating	IP54 dust-protected and splash-resistant
Maximum operating altitude	2000 m (6562′)
Operating temperature	0–50°C (32–122°F)
Operating humidity	Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F)
Temperature coefficient	0.2 × specified accuracy/°C, <64.5°F (18°C), >82.4°F (28°C)
Storage temperature	–20 to +60°C (–4 to +140°F) without batteries
Storage humidity	80% relative humidity (maximum)

Certifications	
Agency approvals	RCM, CSA, KC
Safety compliance	CAT IV—600 V, CAT III—1000 V
Standards	EN61010-1, EN61010-2-032, EN61326-1

Physical data	
Dimensions (W × H × D)	130 mm × 350 mm × 25 mm (5.1″ × 13.8″ × 1.0″)
Weight	200 g (7.1 oz.) with batteries

Shipping	
Packaging type	Color box
Packaging contents	TA74, 2 × AAA 1.5 V Energizer batteries, quick start guide, user manual on CD
Packaging weight	0.62 kg
Packaging dimensions (L × W × H)	32 cm × 18.5 cm × 6.8 cm
Inner carton quantity	3
Inner carton weight	1.94 kg
Inner carton dimensions (L × W × H)	59.5 cm × 6.3 cm × 20.3 cm
Master carton quantity	12
Master carton weight	9.5 kg

P/N: TA74

Revision

42571

Last modified

2017-05-09 14:02 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping	
Master carton dimensions (L × W × H)	61 cm × 50 cm × 22 cm
EAN-13	0793950377741
UPC-12	793950377741
Country of origin	Taiwan
Tariff code	9030908821

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TG54: Spot IR Thermometer

P/N: TG54

Revision

42572

Last modified

2017-05-09 14:04 UTC+1

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Website

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Customer support

http://support.flir.com



General description	
Part number	TG54
Part name	Spot IR Thermometer
The FLIR TG54 Spot IR Thermometer provides non-contact surface temperature readings so you can quickly and easily take measurements in places that are out of reach. Providing a distance-to-spot ratio of up to 24:1, the FLIR TG54 can measure small targets from a safe distance. New mode options give you control to view your current reading and the last two temperature readings simultaneously. The FLIR TG54 has a color screen that makes it easy to navigate and select settings, plus adds visibility and efficiency to the advanced feature set. The FLIR TG54 is your go-to, pocket-sized device for efficient temperature measurement.	
Measure high and low: • Easily take measurements in hard-to-reach spots at a distance. • Take non-contact surface temperature measurements with an infrared sensor. • 24:1 spot ratio to measure small targets from a safe distance. • Easily identify measurement locations with built-in laser targeting.	
Simple to use: • Color display, easy to navigate. • Graphical menu structure allows easy access to settings. • Easy emissivity selection with predetermined levels and custom adjustment. • Stunning visual high and low alarms.	
Convenient and rugged design: • Portable, compact size. • Rugged, industrial design that can withstand a 3 m drop. • Bright worklight to help you see your target in poor lighting conditions. • Tool-less battery compartment.	

Spot infrared (IR) thermometer	
IR temperature range	–30°C to +650°C (–22°F to +1202°F)
IR temperature accuracy	–30 to –10°C (–22 to +14°F): ±3.0°C (±5.4°F), –10 to <0°C (14 to <32°F): ±2.0°C (±3.6°F), 0–650°C (32–1202°F): ±1.0°C (±1.8°F) or ±1.0% (whichever is greater)
Emissivity	4 presets plus a custom setting (0.10–0.99)
Distance to spot	24:1
Field of view angle	0.04°
Resolution	0.1°C (0.1°F ≤ 999°F; 1°F ≥ 1000°F)
IR temperature response time	150 ms
Measurement modes	3 readings, minimum/maximum, AVG (6000 pts running average)/differential (maximum–minimum)
Alarms	High/low/both, blue and red color indication

FLIR TG54: Spot IR Thermometer

P/N: TG54

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Laser	
Laser type	Single class 1 laser (red; visible light)
Laser wavelength	650 ± 20 nm
Laser power	≤0.39 mW
Laser alignment	Parallel to measurement “cone”

Power source	
Batteries	3 × 1.5V AAA
Battery life	>8 hours

General	
Display	1.45 in. color TFT, 128 (W) × 128 (H) pixels
Auto power off	User-adjustable (5, 10, and 20 seconds)
Warranty	5 years with registration
Drop test	3 m
IP rating	54
Worklight	Yes
Certifications	CE/FDA laser
Wrist strap	Included

Physical data	
Weight	312 g (11 oz.)
Dimensions (H × W × D)	158 mm × 44 mm × 73 mm (6.2 in. × 1.7 in. × 2.9 in.)

Shipping information	
Packaging type	Retail color box
Packaging contents	TG54, wrist strap/lanyard, user guide, 3 × AAA batteries, warranty registration card
Packaging weight:	0.5 kg (1.1 lb.)
Packaging dimensions (H × W × L)	27.7 × cm 17.3 × cm 17.2 cm (10.9 in. × 6.9 in. × 6.8 in.)
Master carton weight	7 kg (15.5 lb.)
Master carton dimensions (H × W × L)	27.7 × cm 17.3 × cm 7.2 cm (10.9 in. × 6.9 in. × 2.9 in.)
Master carton quantity	12
UPC	793950400548
EAN	0793950400548
Country of origin	China
Tariff code	9025.19.8080

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TG56: Spot IR Thermometer with Thermocouple

P/N: TG56

Revision

42573

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2017-05-09 14:05 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



General description	
Part number	TG56
Part name	Spot IR Thermometer with Thermocouple
The FLIR TG56 Spot IR Thermometer provides non-contact surface temperature readings so you can quickly and easily take measurements in places that are out of reach. Providing a distance-to-spot ratio of up to 30:1, the FLIR TG56 can measure small targets from a safe distance. New mode options give you control to view your current reading and the last two temperature readings simultaneously. A type K thermocouple input with included bead probe enables contact measurements with the ability to see your spot infrared temperature, contact measurements, and the difference in the readings on one screen. The FLIR TG56 has a color screen that makes it easy to navigate and select settings, plus adds visibility and efficiency to the advanced feature set. The FLIR TG56 is your go-to, pocket-sized device for efficient temperature measurement.	
Measure high and low: • Easily take measurements in hard-to-reach spots from farther away. • Take non-contact surface temperature measurements with an infrared sensor. • 30:1 spot ratio to measure small targets from a safe distance. • Easily identify measurement locations with built-in laser targeting.	
Simple to use: • Color display, easy to navigate. • Graphical menu structure allows easy access to settings. • Easy emissivity selection with predetermined levels and custom adjustment. • Stunning visual high and low alarms.	
Convenient and rugged design: • Portable, compact size. • Rugged, industrial design that can withstand a 3 m drop. • Bright worklight to help you see your target in poor lighting conditions. • Tool-less battery compartment.	

Spot infrared (IR) thermometer	
IR temperature range	–30°C to +650°C (–22°F to +1202°F)
IR temperature accuracy	–30 to –10°C (–22 to +14°F): ±3.0°C (±5.4°F), –10 to <0°C (14 to <32°F): ±2.0°C (±3.6°F), 0–650°C (32–1202°F): ±1.0°C (±1.8°F) or ±1.0% (whichever is greater)
Emissivity	4 presets plus a custom setting (0.10–0.99)
Distance to spot	30:1
Field of view angle	0.04°
Resolution	0.1°C (0.1°F ≤ 999°F; 1°F ≥ 1000°F)
IR temperature response time	150 ms
Measurement modes	3 readings, minimum/maximum, AVG (6000 pts running average)/differential (maximum–minimum), IR/thermocouple/IR and thermocouple difference

FLIR TG56: Spot IR Thermometer with Thermocouple

P/N: TG56

Revision

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Website

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Customer support

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Spot infrared (IR) thermometer	
Alarms	High/low/both, blue and red color indication

Thermocouple (TC) temperature	
TC input type	K
TC input temperature range	–30 to +650°C (–22 to +1202°F)
TC input temperature accuracy	±2°C (3.6°F) or ±1% whichever is greater. Not including additional probe error: ±2.5°C (4.5°F)
TC input temperature resolution	0.1°C (0.1°F ≤ 999°F; 1°F ≥ 1000°F)
TC included type K range	–30 to +300°C (–22 to +572°F)

Laser	
Laser type	Single class 1 laser (red; visible light)
Laser wavelength	650 ± 20 nm
Laser power	≤0.39 mW
Laser alignment	Parallel to measurement “cone”

Power source	
Batteries	3 × 1.5V AAA
Battery life	>8 hours

General	
Display	1.45 in. color TFT, 128 (W) × 128 (H) pixels
Auto power off	User-adjustable (5, 10, and 20 seconds)
Warranty	5 years with registration
Drop test	3 m
IP rating	N/A
Worklight	Yes
Certifications	CE/FDA laser
Wrist strap	Included

Physical data	
Weight	312 g (11 oz.)
Dimensions (H × W × D)	158 mm × 44 mm × 73 mm (6.2 in. × 1.7 in. × 2.9 in.)

Shipping information	
Packaging type	Retail color box
Packaging contents	TG56, wrist strap/lanyard, type K thermocouple, user guide, 3 × AAA batteries, warranty registration card
Packaging weight:	0.5 kg (1.1 lb.)
Packaging dimensions (H × W × L)	27.7 × cm 17.3 × cm 17.2 cm (10.9 in. × 6.9 in. × 6.8 in.)
Master carton weight	7 kg (15.5 lb.)
Master carton dimensions (H × W × L)	27.7 × cm 17.3 × cm 7.2 cm (10.9 in. × 6.9 in. × 2.9 in.)
Master carton quantity	12

FLIR TG56: Spot IR Thermometer with Thermocouple

P/N: TG56

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
UPC	793950400562
EAN	0793950400562
Country of origin	China
Tariff code	9025.19.8080

Accessories
TA60 Thermocouple Probe with Adapter

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR VP50

P/N: VP50

Revision

42574

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Website

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Customer support

http://support.flir.com



The FLIR VP50 CAT IV-rated non-contact voltage detector is designed to reliably detect voltages on the latest tamperproof outlets and electrical systems installed.

- Safe CAT IV-1000 V rating and toolbox-tough with a rubber-reinforced case and buttons, and a low-profile detection tip.
- Vibration and red LED alarms alert users to the presence of voltage in noisy areas.
- Versatile high/low-sensitivity modes detect voltage in industrial equipment and low-voltage installations.
- The powerful LED work light is always at the ready to illuminate poorly lit locations.
- The inspection light at the probe tip facilitates testing in dark areas.

Measurement	
AC voltage range (default, green light)	90–1000 V AC
AC excitation voltage/distance	90 V AC/0–5 cm
Frequency range	45–65 Hz
High-sensitivity mode (amber light)	24 V AC

Meter data	
Work light	~50–52 lumens
Tip light	Yes
Category rating	CAT IV-1000 V
Warranty	Limited lifetime
Calibration cycle	N/A

Certifications	
Certifications	UL, cUL, CE, CB

Power system	
Power requirements	2 × AAA alkaline batteries
Battery life	~7 hours continuous (work light off)
Low battery voltage	N/A
Auto power off	Yes

Environmental data	
Drop test	3 m (9.8 ft.)
Operating ambient temperatures	0–60°C (–32 to 140°F)
Storage temperature	–40 to 90°C (–40 to 194°F)
Temperature coefficient	N/A

Physical data	
Weight	0.20 kg (0.44 lb.), including batteries
Dimensions (H × W × L)	29 mm × 26 mm × 156 mm (1.1″ × 1.0″ × 6.1″)
Material	• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS) • Thermoplastic elastomer (TPE)

FLIR VP50

P/N: VP50

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	• VP50 FLIR detector • 2 × AAA Energizer batteries • User manual
Packaging weight	0.17 kg (0.38 lb.)
Packaging dimensions (H × W × L)	9 cm × 7 cm × 25 cm (3.5″ × 2.8″ × 9.8″)
Carton weight	4.7 kg (10.3 lb.)
Carton dimensions (H × W ×L)	36 cm × 38 cm × 28 cm (14.1″ × 14.9″ × 11.0″)
Carton quantity	20
EAN-13	0793950400517
UPC-12	793950400517
Country of origin	China
Tariff code	9030330040

Accessories	
CS-VP50	Counter display with 10 VP50 units
VS-VP50-STANDONLY	Counter display

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR VP52

P/N: VP52

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com



The FLIR VP52 CAT IV-rated non-contact voltage detector is designed to reliably detect voltages on the latest tamperproof outlets and electrical systems installed.

- Safe CAT IV-1000 V rating and toolbox-tough with a rubber-reinforced case and buttons, and a low-profile detection tip.
- Vibration and red LED alarms alert users to the presence of voltage in noisy areas.
- Versatile high/low-sensitivity modes detect voltage in industrial equipment and low-voltage installations.
- The powerful LED work light is always at the ready to illuminate poorly lit locations.
- The inspection light at the probe tip facilitates testing in dark areas.

Measurement	
AC voltage range (default, green light)	190–1000 V AC
AC excitation voltage/distance	190 V AC/0–5 cm
Frequency range	45–65 Hz
High-sensitivity mode (amber light)	24 V AC

Meter data	
Work light	~50–52 lumens
Tip light	Yes
Category rating	CAT IV-1000 V
Warranty	Limited lifetime
Calibration cycle	N/A

Certifications	
Certifications	UL, cUL, CE, CB

Power system	
Power requirements	2 × AAA alkaline batteries
Battery life	~7 hours continuous (work light off)
Low battery voltage	N/A
Auto power off	Yes

Environmental data	
Drop test	3 m (9.8 ft.)
Operating ambient temperatures	0–60°C (–32 to 140°F)
Storage temperature	–40 to 90°C (–40 to 194°F)
Temperature coefficient	N/A

Physical data	
Weight	0.20 kg (0.44 lb.), including batteries
Dimensions (H × W × L)	29 mm × 26 mm × 156 mm (1.1″ × 1.0″ × 6.1″)
Material	• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS) • Thermoplastic elastomer (TPE)

FLIR VP52

P/N: VP52

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	• VP52 FLIR detector • 2 × AAA Energizer batteries • User manual
Packaging weight	0.17 kg (0.38 lb.)
Packaging dimensions (H × W × L)	9 cm × 7 cm × 25 cm (3.5″ × 2.8″ × 9.8″)
Carton weight	4.7 kg (10.3 lb.)
Carton dimensions (H × W ×L)	36 cm × 38 cm × 28 cm (14.1″ × 14.9″ × 11.0″)
Carton quantity	20
EAN-13	0793950400524
UPC-12	793950400524
Country of origin	China
Tariff code	9030330040

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR VS70: General Purpose (Wired) Long Focus Videoscope Combo

P/N: VS70-1

Revision

42584

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Website

http://www.flir.com

Customer support

http://support.flir.com



The General Purpose Long Focus Combo kit includes the VS70 base kit and a 8 mm long focus camera on a 1 m semi-rigid cable. This kit enables users to perform basic inspections and add options as needs grow.

ERP description	General Purpose Long Focus Combo
Kit contents	VS70 + VSC8.01R

VS70 main unit general data	
LCD screen	145 mm (5.7″), 135 mm (5.3″) viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still-image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	–87 dBm (SNR = 42 dB, F_{mod} = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24″ × 0.2″), total length 10 cm (3.9″), wire length 1.2 m (3.9′)
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

VS70 main unit environmental data	
IP rating	67

FLIR VS70: General Purpose (Wired) Long Focus Videoscope Combo

P/N: VS70-1

Revision

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Website

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Customer support

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VS70 main unit environmental data	
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5″ ×7″ × 2.75″)
Material	PC-ABS, rubber hand grip, nylon strap
Colour	Gray, black

Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Integrated handset	N/A
Wireless capabilities	N/A
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF), VSA-80 (8 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400715

FLIR VS70: General Purpose (Wired) Long Focus Videoscope Combo

P/N: VS70-1

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
UPC-12	793950400715
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17″ stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera with 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes

FLIR VS70: General Purpose (Wired) Long Focus Videoscope Combo

P/N: VS70-1

Revision

42584

Last modified

2017-05-09 14:49 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

Compatible cameras full list	
VS-RB	Replacement centering brush
VSC65-12S	12″ stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

FLIR VS70: Small Opening Short Focus Videoscope Combo

P/N: VS70-2

Revision

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The Small Opening Short Focus Combo (Wired) kit includes the VS70, a base kit, and a 5.8 mm short-focus camera on a 1 m semi-rigid cable. Built for close-up inspections.

ERP description	Small Opening Short Focus Combo (Wired)
Kit contents	VS70 + VSC5.8-1RM

VS70 main unit general data	
LCD screen	145 mm (5.7″), 135 mm (5.3″) viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	–87 dBm (SNR = 42 dB, F_{mod} = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24″ × 0.2″), total length 10 cm (3.9″), wire length 1.2 m (3.9′)
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6-8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

FLIR VS70: Small Opening Short Focus Videoscope Combo

P/N: VS70-2

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Website

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Customer support

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VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5″ ×7″ × 2.75″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSC58-1RM general data	
ERP description	5.8 mm camera with 1 m SR probe—VGA via SF
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible cameras	N/A
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10°C to 50°C (14 to 122°F)

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSC58-1RM (5.8 mm camera with 1 m SR probe—VGA via SF), VSA-58 (5.8 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400739
UPC-12	793950400739

FLIR VS70: Small Opening Short Focus Videoscope Combo

P/N: VS70-2

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless 2.4 Ghz VS70 transmitter
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17″ stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12″ stainless steel rigid probe

FLIR VS70: Small Opening Short Focus Videoscope Combo

P/N: VS70-2

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Compatible cameras full list	
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit

P/N: VS70-KIT

Revision

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Website

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The Starter Bundle includes the VS70, a wired handset, a dedicated 6 mm long-locus camera with two-way articulation on a 1 m semi-rigid cable, and an 8mm long focus camera on a 1 meter semi-rigid cable. The bundle provides long-distance views and close-up inspection.

ERP description	Starter Bundle: Main Unit, Two-way Articulation, General Purpose Camera
Kit contents	VS70 + VSA2-1 + VSC80-1R

VS70 main unit general data	
LCD screen	145 mm (5.7″), 135 mm (5.3″) viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video Recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	–87 dBm (SNR = 42 dB, F_{mod} = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24″ × 0.2″), total length 10 cm (3.9″), wire length 1.2 m (3.9′)
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit

P/N: VS70-KIT

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Website

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Customer support

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VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5″ × 7″ × 2.75″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSA2-1 (two-way 6 mm articulated camera with 1 m probe)	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	No
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10°C to 50°C (14 to 122°F)
Power requirements	N/A

Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Integrated handset	N/A
Wireless capabilities	N/A
Compatible main unit	VS70

FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit

P/N: VS70-KIT

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Website

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Customer support

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Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Compatible wireless handset	VST
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1 (two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400760
UPC-12	793950400760
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17″ stainless steel rigid probe

FLIR VS70: Starter Bundle w Articulation and extra camera Videoscope Kit

P/N: VS70-KIT

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Website

http://www.flir.com

Customer support

http://support.flir.com

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12″ stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

FLIR VS70: Videoscope Main Unit

P/N: VS70

Revision

29700

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2015-10-16 07:11 UTC+1

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Website

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Customer support

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The FLIR VS70 is a rugged, waterproof, and shock-resistant videoscope that features intuitive handset controls that enable users to maneuver the narrow camera probe into tight spaces to deliver vivid and sharp video and images to a large 5.7” color LCD display. Advanced inspection solutions, expansion cameras, and add-on accessories enable users to expand their FLIR VS70 to address many different inspection needs. A camera (VSCxx or VSAxx) is needed for operation.

VS70 main unit general data	
LCD screen	145 mm (5.7″), 135 mm (5.3″) viewable
Active matrix	640 × 480 pixels
Memory type	SD card (4 GB included, 32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL (frame rate 30 fps)
Multi-language menu	Yes, 26 languages
Reciever frequency	2.4 GHz
Reciever sensitivity	–87 dBm (SNR = 42 dB, Fmod = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20–20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24″ × 0.2″), total length 10 cm (3.9″), wire length 1.2 m (3.9′)
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system data	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

VS70 main unit environmental data	
IP rating	67

FLIR VS70: Videoscope Main Unit

P/N: VS70

Revision

29700

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Website

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VS70 main unit environmental data	
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5″ ×7″ × 2.75″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box, FLIR hard case
Packaging contents	VS70 videscope, hard case, user manual (English), CD (translations), international USB power, 12V auto USB charger, headset with boom microphone, auto adapter for USB power, shoulder strap, camera cleaning kit
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton size	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400708
UPC-12	793950400708
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR VS70: Wired Articulation Camera Videoscope Combo

P/N: VS70-3

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Website

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Customer support

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The Articulation Combo (Wired), Long Focus kit includes the VS70, a wired handset, and a dedicated 6 mm long-focus camera with two-way articulation on a 1 m semi-rigid cable. Long focus provides an increased viewing distance, and articulation provides greater internal camera control.

ERP description	Articulation Combo (Wired), Long Focus
Kit contents	VS70 + VSA2-1

VS70 main unit general data	
LCD screen	145 mm (5.7″), 135 mm (5.3″) viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	–87 dBm (SNR = 42 dB, F_{mod} = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24″ × 0.2″), total length 10 cm (3.9″), Wire length 1.2 m (3.9′)
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

FLIR VS70: Wired Articulation Camera Videoscope Combo

P/N: VS70-3

Revision

42584

Last modified

2017-05-09 14:49 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5″ ×7″ × 2.75″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSA2-1 (two-way 6 mm articulated camera with 1 m probe)	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	No
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)
Power requirements	N/A

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1 (two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg

FLIR VS70: Wired Articulation Camera Videoscope Combo

P/N: VS70-3

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Shipping information	
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400746
UPC-12	793950400746
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual Languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17″ stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel Camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool

FLIR VS70: Wired Articulation Camera Videoscope Combo

P/N: VS70-3

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Compatible cameras full list	
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12″ stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

FLIR VS70: Wireless Articulation Camera Videoscope Combo

P/N: VS70-3-W

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The Wireless Articulation Combo kit includes the VS70, a wireless handset, and a dedicated 6 mm long-focus camera with two-way articulation on a 1 m semi-rigid cable. The kit provides an increased viewing distance and greater internal camera control.

ERP description	Wireless Articulation Combo
Kit contents	VS70 + VSA2-1-W

VS70 main unit general data	
LCD screen	145 mm (5.7″), 135 mm (5.3″) viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	–87 dBm (SNR = 42 dB, F_{mod} = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24″ × 0.2″), total length 10 cm (3.9″), wire length 1.2 m (3.9′)
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

FLIR VS70: Wireless Articulation Camera Videoscope Combo

P/N: VS70-3-W

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Website

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Customer support

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VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5″ × 7″ × 2.75″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSA2-1-W (wireless two-way 6 mm articulated camera with 1 m probe)	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	Yes, 2.4 GHz to main unit
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10°C to 50°C (14 to 122°F)
Power requirements	N/A

VSA2 power system	
Power requirements	Integrated rechargable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Shipping information	
Packaging type	Brown shipping box over hard case

FLIR VS70: Wireless Articulation Camera Videoscope Combo

P/N: VS70-3-W

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Shipping information	
Packaging contents	VS70 main unit, VSA2-1-W (wireless two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400753
UPC-12	793950400753
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17″ stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF

FLIR VS70: Wireless Articulation Camera Videoscope Combo

P/N: VS70-3-W

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Customer support

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Compatible cameras full list	
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12″ stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

P/N: VS70-KIT-W

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Wireless Bundle includes the VS70 and a wireless handset with a dedicated 6mm long focus, 2-way articulation camera on a 1-meter semi-rigid cable, and an 8mm long focus camera on a 1-meter cable. Allows long-distance views and close-up inspections.

ERP description	Starter Bundle: Main Unit, Two-way Articulation, General Purpose Camera
Kit contents	VS70 + VSA2-1-W + VSC80-1R

VS70 main unit general data	
LCD screen	145 mm (5.7″), 135 mm (5.3″) viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format:	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	–87 dBm (SNR = 42 dB, F_{mod} = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24″ × 0.2″), total length 10 cm (3.9″), wire length 1.2 m (3.9′)
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

P/N: VS70-KIT-W

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Website

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Customer support

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VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5″ × 7″ × 2.75″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSA2-1-W (wireless two-way 6 mm articulated camera with 1 m probe)	
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Articulation	Two-way 240 ± 20° manual tip articulation
Integrated handset	Yes
Wireless capabilities	Yes, 2.4 GHz to main unit
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)
Power requirements	N/A

VSA2 power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m

FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

P/N: VS70-KIT-W

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Camera VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF)	
Focal length	65 mm to infinity
Field of view	56°
Integrated handset	N/A
Wireless capabilities	N/A
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible detachable cameras	N/A
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10°C to 50°C (14 to 122°F)

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSA2-1 (two-way 6 mm articulated camera with 1 m probe), VSA-60 (6 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400777
UPC-12	793950400777
Country of origin	TW
Tariff code	9013809000

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Website	http://support.flir.com
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Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual Languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

FLIR VS70: Wireless Bundle w wireless Articulation and extra camera Videoscope Kit

P/N: VS70-KIT-W

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Website

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Customer support

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Suggested cameras and accessories	
VST	Wireless handset
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17″ stainless steel rigid probe

Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe via SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe via SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12″ stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

FLIR VS70: Wireless General Purpose Videoscope Combo

P/N: VS70-1-W

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Website

http://www.flir.com

Customer support

http://support.flir.com



The Wireless General Purpose Combo kit includes the VS70, a wireless handset (VST), and a non-dedicated 8 mm long-focus camera on a 1 m semi-rigid cable. The wireless handset makes it easy to manipulate the camera probe while keeping the display in clear view.

ERP description	Wireless General Purpose Combo
Kit contents	VS70 + VST + VSC8.01R

VS70 main unit general data	
LCD screen	145 mm (5.7″), 135 mm (5.3″) viewable
Active matrix	Active matrix, 640 × 480 pixels
Memory type	SD card 4 GB included (32 GB maximum)
Compression format	MPEG4
Still image format	JPEG (640 × 480 pixels)
Video recording format	AVI (640 × 480 pixels)
Video output format	NTSC and PAL, frame rate 30 fps
Multi-language menu	Yes
Receiver frequency	2.4 GHz
Receiver sensitivity	–87 dBm (SNR = 42 dB, F_{mod} = 15)
Data/video	Mini USB 1.1 and AV out
Audio	Earphone plug, 3.5 mm, 4 rings
Speaker	15 mm, 32 Ω, 20 Hz to 20 kHz
Microphone	Boom microphone 6 mm × 5 mm (0.24″ × 0.2″), total length 10 cm (3.9″), wire length 1.2 m (3.9′)
Tripod mount	On rear, accepts standard tripod screw
Certifications	FCC, CE
Warranty	2 years, see website for details

VS70 main unit power system	
Battery	3.7 V rechargeable lithium polymer
Battery life	6–8 hours
Power adapter	100–240 V input/5 V DC output
Battery status indication	Progressive with auto power off (APO)

FLIR VS70: Wireless General Purpose Videoscope Combo

P/N: VS70-1-W

Revision

42584

Last modified

2017-05-09 14:49 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

VS70 main unit environmental data	
IP rating	67
Drop test	2 m
Operating temperature	–10 to 60°C (14 to 140°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

VS70 main unit physical data	
Product weight	1.57 kg (3.46 lb.), including batteries
Product dimensions	241 mm × 178 mm × 70 mm (9.5″ × 7″ × 2.75″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray and black

Camera VSC80-1R general data	
ERP description	8 mm camera with 1 m SR probe—VGA via LF
Compatible main unit	VS70
Compatible wireless handset	VST
Compatible cameras	N/A
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Warranty	2 years
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Operating temperature	–10 to 50°C (14 to 122°F)

VST general data	
ERP description	Wireless 2.4 GHz VS70 transmitter
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible cameras	VSC3.9-1FM, VSC4.1-2RM, VSC5.8-1RM, VSC5.8-2RM, VSC5.8-1R, VSC5.8-2R, VSC5.8-20M, VSC5.8-30M, VSC8.0-1R, VSC8.0-2R, VSC6.5-12S, VSC6.5-17S, VSS-20, VSS-30
Wireless frequency	2.4 GHz to main unit
Video system	NTSC/PAL
Battery	3.7 V rechargeable lithium polymer
Charge time	~2 hours
Power adapter	100–240 V input/9 V DC output
Unobstructed effective range	10 m (32.5′)
Operating temperature	–10 to 60°C (14 to 140°F)

FLIR VS70: Wireless General Purpose Videoscope Combo

P/N: VS70-1-W

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VST general data	
Storage temperature	–40 to 80°C (–40 to 176°F)
Product dimensions	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)
Weight (approximate)	0.43 kg (0.95 lb.)
Color	Gray and black
Warranty	2 years

VST power system	
Power requirements	Integrated rechargeable battery
Run time	2 hours continuous use
Auto power off	No

Shipping information	
Packaging type	Brown shipping box over hard case
Packaging contents	VS70 main unit, VSC80-1R (8 mm camera with 1 m SR probe—VGA via LF), VSA-80 (8 mm camera accessories: mirror, anti-snag tip, magnet), patch cable, 4 GB SD card, USB/video out cables, power adapters, vehicle charger, headset, neck strap, cleaning kit, VS-HC (VS70 hard case with camera storage), and user manual (printed English and translated on CD)
Packaging weight	7.5 kg
Packaging dimensions (H × W × L)	53 cm × 43.5 cm × 22 cm
Carton weight	16 kg
Carton dimensions (H × W × L)	55 cm × 46.5 cm × 46 cm
Carton quantity	2
EAN-13	0793950400722
UPC-12	793950400722
Country of origin	TW
Tariff code	9013809000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Documentation	
Manual languages (on CD and web)	Czech, Danish, German, Greece, English (US), Spanish (Spain), Finnish, French (France), Hungarian, Italian, Japanese, Korean, Bokmal Norwegian (Norway), Dutch Flemish (Netherlands), Polish, Portuguese (Portugal), Russian, Swedish, Chinese, Chinese (Taiwan)

Suggested cameras and accessories	
VS-2PC	2 m patch cable
VSA2-1-W	Wireless two-way 6 mm articulated camera with 1 m probe
VSC65-17S	17″ stainless steel rigid probe

FLIR VS70: Wireless General Purpose Videoscope Combo

P/N: VS70-1-W

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Customer support

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Compatible cameras full list	
VSA2-2M-W	Wireless two-way 6 mm articulated camera with 2 m probe SF
VSA2-2-W	Wireless two-way 6 mm articulated camera with 2 m probe
VSA2-1M-W	Wireless two-way 6 mm articulated camera with 1 m probe SF
VSA2-2	Two-way 6 mm articulated camera with 2 m probe
VSA2-2M	Two-way 6 mm articulated camera with 2 m probe via SF
VSA2-1	Two-way 6 mm articulated camera with 1 m probe
VSA2-1M	Two-way 6 mm articulated camera with 1 m probe via SF
VSC2-58-1FM	Two-channel camera, 5.8 mm diameter 1 m probe
VSC58-30M	5.8 mm camera with 30 m FG probe—QVGA via SF
VSC58-20M	5.8 mm camera with 20 m FG probe—QVGA via SF
VSS-30	30 m plumbing spool
VSS-20	20 m plumbing spool
VSC28	28 mm camera head for spool
VSC25	25 mm camera head for spool
VS-BR25	Centering brush for VS70 camera probes
VS-BR28	Centering brush for VS70 camera probes
VS-RB	Replacement centering brush
VSC65-12S	12″ stainless steel rigid probe
VSC41-2RM	4.1 mm camera with 2 m SR probe—QVGA via SF
VSC39-1FM	3.9 mm camera with 1 m flex probe—QVGA via SF
VSC58-2R	5.8 mm camera with 2 m SR probe—VGA via LF
VSC58-2RM	5.8 mm camera with 2 m SR probe—VGA via SF
VSC58-1R	5.8 mm camera with 1 m SR probe—VGA via LF
VSC58-1RM	5.8 mm camera with 1 m SR probe—VGA via SF
VSC80-2R	8 mm camera with 2 m SR probe—VGA via LF
VSC80-1R	8 mm camera with 1 m SR probe—VGA via LF

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Accessories for FLIR T&M instruments

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2 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS2

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Website

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Customer support

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General description	
Part number	MR-PINS2
Part name	2 inch pins for MR06, MR07, MR08, includes 1 pair of pins

FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface-resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.

- Fits FLIR's hammer, wall cavity and combo probes.
- Unibody construction rather than two piece.
- Smaller-diameter pins.
- Sandblasted hardened steel.
- Insulated with abrasion-resistant coating.

Replacement pin set for FLIR MR06, MR07, and MR08.

Meter data	
Suitable accessory	MR06, MR07, MR08
Included insulated pin pairs and length	1 pair of 2 in. (50 mm)
Warranty	1 year (with registration)

Meter physical data	
Weight	0.02 kg (0.05 lb.)
Dimensions (H × W × L)	8 mm × 8 mm × 76 mm (0.32 in. × 0.32 in. × 3 in.)
Material	Stainless steel
Color	Black insulation

Shipping information	
Packaging type	Plastic bag
Packaging contents	1 pair of 2 in. insulated pins
Packaging weight	0.0127 kg (0.03 lb.)
Packaging dimensions (H × W × L)	1 cm × 2 cm × 8 cm (0.4 in. × 0.8 in. × 3.2 in.)
Inner carton weight	1.5 kg (3.3 lb.)
Inner carton dimensions (H × W × L)	13 cm × 19 cm × 38 cm (5.2 in. × 7.5in. × 15 in)
Inner carton quantity (bag)	100
Master carton weight	6 kg (13.3 lb.)
Master carton dimensions (H × W × L)	28 cm × 40 cm × 40 cm (11 in. × 15.8 in. × 15.8 in.)
Master carton quantity	400
EAN-13	0793950372029
UPC-12	793950372029

2 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS2

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

2 inch pins for MR06, MR07, MR08, includes 10 pair of pins

P/N: MR-PINS2-10

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Website

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Customer support

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General description	
Part number	MR-PINS2-10
Part name	2 inch pins for MR06, MR07, MR08, includes 10 pair of pins

FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface-resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.

- Fits FLIR's hammer, wall cavity and combo probes.
- Unibody construction rather than two piece.
- Smaller-diameter pins.
- Sandblasted hardened steel.
- Insulated with abrasion-resistant coating.

Replacement pin set for FLIR MR06, MR07, and MR08.

Meter data	
Suitable accessory	MR06, MR07, MR08
Included insulated pin pairs and length	10 pairs of 2 in. (50 mm)
Warranty	1 Year (with Registration)

Meter physical data	
Weight	0.12 kg (0.25 lb.)
Dimensions (H × W × L)	8 mm × 8 mm × 76 mm (0.32 in. × 0.32 in. × 3 in.)
Material	Stainless steel
Color	Black insulation

Shipping information	
Packaging type	Plastic bag
Packaging contents	10 pairs of 2 in. insulated pins
Packaging weight	0.127 kg (0.3 lb.)
Packaging dimensions (H × W × L)	1 cm × 9 cm × 8 cm (0.4 in. × 3.6 in. × 3.2 in.)
Inner carton weight	6 kg (11 lb.)
Inner carton dimensions (H × W × L)	13 cm × 19 cm × 38 cm (5.2 in. × 7.5 in. × 15 in.)
Inner carton quantity (bag)	50
Master carton weight	12 kg (26.5 lb.)
Master carton dimensions (H × W × L)	15 cm × 40 cm × 40 cm (6 in. × 15.8 in. × 15.8 in.)
Master carton quantity	100
EAN-13	0793950372128
UPC-12	793950372128

2 inch pins for MR06, MR07, MR08, includes 10 pair of pins

P/N: MR-PINS2-10

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Shipping information	
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

20 m (66′) plumbing spool (no camera, need VSC25 or VSC28)

P/N: VSS-20

Revision

29700

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Customer support

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Part No.	VSS-20

General information	
Short description	20 m (66′) plumbing spool (no camera, need VSC25 or VSC28)
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	VSC25 or VSC28
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	N/A
Resolution	N/A
Probe length	20 m (66′)
Focal length	N/A
Field of view	N/A
Imaging sensor	N/A
Video format	N/A
Brightness control	N/A
Lamp type	N/A

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information

20 m (66′) plumbing spool (no camera, need VSC25 or VSC28)

P/N: VSS-20

Revision

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Physical data	
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	Brown box with shipping labels
Packaging contents	Brown box, hard case, spool
Packaging weight	4 kg
Packaging dimensions (H × W × L)	45 cm × 37 cm × 17 cm
Carton weight	9 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	2
EAN-13	0793950406144
UPC-12	793950406144
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

25 mm camera head for spool, spool (VSS-20 or VSS-30) needed for operation

P/N: VSC25

Revision

29961

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Website

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Customer support

http://support.flir.com



Part No.	VSC25

General information	
Short description	25 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	25 mm
Resolution	VGA (640 × 480 pixels)
Probe length	N/A
Focal length	65 mm to infinity
Field of view	72°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°C)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless steel, PC-ABS, rubber hand grip, nylon strap

25 mm camera head for spool, spool (VSS-20 or VSS-30) needed for operation

P/N: VSC25

Revision

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Website

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Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera
Packaging weight	0.23 kg
Packaging dimensions (H × W × L)	23.5 cm × 7.5 cm × 7 cm
Carton weight	7 kg
Carton dimensions (H × W × L)	47 cm × 25.5 cm × 30 cm
Carton quantity	24
EAN-13	0793950400913
UPC-12	793950400913
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

28 mm camera head for spool, spool (VSS-20 or VSS-30) needed for operation

P/N: VSC28

Revision

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Website

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Customer support

http://support.flir.com



Part No.	VSC28

General information	
Short description	28 mm camera head for spool, spool (VCS-20 or VCS-30) needed for operation
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	28 mm
Resolution	VGA (640 × 480 pixels)
Probe length	N/A
Focal length	65 mm to infinity
Field of view	110°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless steel, PC-ABS, and rubber hand grip, nylon strap

28 mm camera head for spool, spool (VSS-20 or VSS-30) needed for operation

P/N: VSC28

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Website

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Customer support

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Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera
Packaging weight	0.26 kg
Packaging dimensions (H × W × L)	23.5 cm × 7.5 cm × 7 cm
Carton weight	7 kg
Carton dimensions (H × W × L)	47 cm × 25.5 cm × 30 cm
Carton quantity	24
EAN-13	0793950400937
UPC-12	793950400937
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

3.9 mm (0.15″) camera with 1 m (3.3′) flexible probe—QVGA via short focus

P/N: VSC39-1FM

Revision

29700

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Website

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Customer support

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Part No.	VSC39-1FM

General information	
Short description	3.9 mm (0.15″) camera with 1 m (3.3′) flexible probe—QVGA via short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	3.9 mm
Resolution	QVGA (320 × 240 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	53°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, and rubber hand grip, nylon strap

3.9 mm (0.15″) camera with 1 m (3.3′) flexible probe—QVGA via short focus

P/N: VSC39-1FM

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Website

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Customer support

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Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.3 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	8.2 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400944
UPC-12	793950400944
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

30 cm (12″) stainless steel rigid probe

P/N: VSC65-12S

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part No.	VSC65-12S

General information	
Short description	30 cm (12″) stainless steel rigid probe
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	6.5 mm
Resolution	VGA (640 × 480 pixels)
Probe length	30 cm (12″)
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless Steel, PC-ABS, rubber hand grip, nylon strap

30 cm (12″) stainless steel rigid probe

P/N: VSC65-12S

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: rotating mirror
Packaging weight	1.7 kg
Packaging dimensions (H × W × L)	59 cm × 49 cm × 26 cm
Carton weight	8 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	4
EAN-13	0793950406052
UPC-12	793950406052
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

30 m (98′) plumbing spool (no camera, need VSC25 or VSC28)

P/N: VSS-30

Revision

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Website

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Customer support

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Part No.	VSS-30

General information	
Short description	30 m (98′) plumbing spool (no camera, need VSC25 or VSC28)
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	VSC25 or VSC28
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	N/A
Resolution	N/A
Probe length	30 m (98′)
Focal length	N/A
Field of view	N/A
Imaging sensor	N/A
Video format	N/A
Brightness control	N/A
Lamp type	N/A

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information

30 m (98′) plumbing spool (no camera, need VSC25 or VSC28)

P/N: VSS-30

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	Brown box with shipping labels
Packaging contents	Brown box, hard case, spool
Packaging weight	4.5 kg
Packaging dimensions (H × W × L)	45 cm × 37 cm × 17 cm
Carton weight	10 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	2
EAN-13	0793950406151
UPC-12	793950406151
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

4 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS4

Revision

30160

Last modified

2015-11-02 14:02 UTC+1

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Website

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Customer support

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General description	
Part number	MR-PINS4
Part name	4 inch pins for MR06, MR07, MR08, includes 1 pair of pins

FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface-resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.

- Fits FLIR's hammer, wall cavity and combo probes.
- Unibody construction rather than two piece.
- Smaller-diameter pins.
- Sandblasted hardened steel.
- Insulated with abrasion-resistant coating.

Replacement pin set for FLIR MR06, MR07, and MR08.

Meter data	
Suitable accessory	MR06, MR07, MR08
Included insulated pin pairs and length	1 pair of 4 in. (101 mm)
Warranty	1 year (with registration)

Meter physical data	
Weight	0.02 kg (0.05 lb.)
Dimensions (H × W × L)	8 mm × 8 mm × 127 mm (0.32 in. × 0.32 in. × 5 in.)
Material	Stainless steel
Color	Black insulation

Shipping information	
Packaging type	Plastic bag
Packaging contents	1 pair of 4 in. insulated pins
Packaging weight	0.172 kg (0.4 lb.)
Packaging dimensions (H × W × L)	1 cm × 2.5 cm × 13 cm (0.4 in. × 1 in. × 5.2 in.)
Inner carton weight	2 kg (4.4 lb.)
Inner carton dimensions (H × W × L)	13 cm × 19 cm × 38 cm (5.2 in. × 7.5 in. × 15 in.)
Inner carton quantity (bag)	100
Master carton weight	8 kg (17.7 lb.)
Master carton dimensions (H × W × L)	28 cm × 40 cm × 40 cm (11 in. × 15.8 in. × 15.8 in.)
Master carton quantity	400
EAN-13	0793950372043

4 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS4

Revision

30160

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
UPC-12	93950372043
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

4.1 mm (0.16″) camera with 2 m (6.6′) semi-rigid probe—QVGA via short focus

P/N: VSC41-2RM

Revision

29700

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part No.	VSC41-2RM

General information	
Short description	4.1 mm (0.16″) camera with 2 m (6.6′) semi-rigid probe—QVGA via short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	4.1 mm
Resolution	QVGA (320 × 240 pixels)
Probe length	2 m
Focal length	20–60 mm
Field of view	53°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap

4.1 mm (0.16″) camera with 2 m (6.6′) semi-rigid probe—QVGA via short focus

P/N: VSC41-2RM

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Website

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Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.3 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	8.2 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400968
UPC-12	793950400968
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

43 cm (17″) stainless steel rigid probe with rotating mirror

P/N: VSC65-17S

Revision

29700

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part No.	VSC65-17S

General information	
Short description	43 cm (17″) stainless steel rigid probe with rotating mirror
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	6.5 mm
Resolution	VGA (640 × 480 pixels)
Probe length	43 cm (17″)
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	Stainless Steel, PC-ABS, rubber hand grip, nylon strap

43 cm (17″) stainless steel rigid probe with rotating mirror

P/N: VSC65-17S

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: rotating mirror
Packaging weight	1.75 kg
Packaging dimensions (H × W × L)	59 cm × 49 cm × 26 cm
Carton weight	8.2 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	4
EAN-13	0793950406069
UPC-12	793950406069
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

5.8 mm (0.23″) camera with 1 m (3.3′) semi-rigid probe—VGA via long focus

P/N: VSC58-1R

Revision

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Website

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Customer support

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Part No.	VSC58-1R

General information	
Short description	5.8 mm (0.23″) camera with 1 m (3.3′) semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap

5.8 mm (0.23″) camera with 1 m (3.3′) semi-rigid probe—VGA via long focus

P/N: VSC58-1R

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Website

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Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.32 kg
Packaging dimensions (H × W × L)	22 cm × 19 × 5 cm
Carton weight	8.7 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400982
UPC-12	793950400982
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

5.8 mm (0.23″) camera with 1 m (3.3′) semi-rigid probe—VGA via macro short focus

P/N: VSC58-1RM

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Website

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Customer support

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Part No.	VSC58-1RM

General information	
Short description	5.8 mm (0.23″) camera with 1 m (3.3′) semi-rigid probe—VGA via macro short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap

5.8 mm (0.23″) camera with 1 m (3.3′) semi-rigid probe—VGA via macro short focus

P/N: VSC58-1RM

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.32 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	8.7 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400999
UPC-12	793950400999
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

5.8 mm (0.23″) camera with 2 m (78″) semi-rigid probe—VGA via long focus

P/N: VSC58-2R

Revision

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Website

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Customer support

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Part No.	VSC58-2R

General information	
Short description	5.8 mm (0.23″) camera with 2 m (78″) semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap

5.8 mm (0.23″) camera with 2 m (78″) semi-rigid probe—VGA via long focus

P/N: VSC58-2R

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.42 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	11.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950406014
UPC-12	793950406014
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

5.8 mm (0.23″) camera with 2 m (78″) semi-rigid probe—VGA via macro short focus

P/N: VSC58-2RM

Revision

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Website

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Customer support

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Part No.	VSC58-2RM

General information	
Short description	5.8 mm (0.23″) camera with 2 m (78″) semi-rigid probe—VGA via macro short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap

5.8 mm (0.23″) camera with 2 m (78″) semi-rigid probe—VGA via macro short focus

P/N: VSC58-2RM

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.42 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	11.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950406021
UPC-12	793950406021
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

5.8 mm cam with 20 m fiberglass-reinforced probe—QVGA via macro short focus

P/N: VSC58-20M

Revision

29700

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part No.	VSC58-20M

General information	
Short description	5.8 mm cam with 20 m fiberglass-reinforced probe—QVGA via macro short focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Front camera focal length	20–60 mm
Front camera field of view	56°
Front camera resolution	QVGA (320 × 240) pixels
Probe length	20 m
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

5.8 mm cam with 20 m fiberglass-reinforced probe—QVGA via macro short focus

P/N: VSC58-20M

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	Brown shipping box
Packaging contents	Brown shipping box, hardcase, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	4 kg
Packaging dimensions (H × W × L)	45 cm × 37 cm × 17 cm
Carton weight	9 kg
Carton dimensions (H × W × L)	39 cm × 36 cm × 47 cm
Carton quantity	2
EAN-13	0793950406007
UPC-12	793950406007
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

5.8 mm camera with 30 m fiberglass-reinforced probe—QVGA via SF

P/N: VSC58-30M

Revision

29700

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part No.	VSC58-30M

General information	
Short description	5.8 mm camera with 30 m fiberglass-reinforced probe—QVGA via SF
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Front camera focal length	20–60 mm
Front camera field of view	56°
Front camera resolution	QVGA (320 × 240) pixels
Probe length	30 m
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

5.8 mm camera with 30 m fiberglass-reinforced probe—QVGA via SF

P/N: VSC58-30M

Revision

29700

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	Brown shipping box
Packaging contents	Brown shipping box, hardcase, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	4.5 kg
Packaging dimensions (H × W × L)	45 cm × 37 cm × 17 cm
Carton weight	10 kg
Carton dimensions (H × W × L)	39 cm × 36 cm × 47 cm
Carton quantity	2
EAN-13	0793950406038
UPC-12	793950406038
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

6 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS6

Revision

30159

Last modified

2015-11-02 14:00 UTC+1

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Website

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Customer support

http://support.flir.com



General description	
Part number	MR-PINS6
Part name	6 inch pins for MR06, MR07, MR08, includes 1 pair of pins

FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface-resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.

- Fits FLIR's hammer, wall cavity and combo probes.
- Unibody construction rather than two piece.
- Smaller-diameter pins.
- Sandblasted hardened steel.
- Insulated with abrasion-resistant coating.

Replacement pin set for FLIR MR06, MR07, and MR08.

Meter data	
Suitable accessory	MR06, MR07, MR08
Included insulated pin pairs and length	1 pair of 6 in. (152 mm)
Warranty	1 year (with registration)

Meter physical data	
Weight	0.02 kg (0.05 lb.)
Dimensions (H × W × L)	8 mm × 8 mm × 178 mm (0.32 in. × 0.32 in. × 7 in.)
Material	Stainless steel
Color	Black insulation

Shipping information	
Packaging type	Plastic bag
Packaging contents	1 pair of 6 in. insulated pins
Packaging weight	0.022 kg (0.05 lb.)
Packaging dimensions (H × W × L)	1 cm × 3 cm × 19 cm (0.4 in. × 1.2 in. × 7.5 in.)
Inner carton weight	2.5 kg (5.6 lb.)
Inner carton dimensions (H × W × L)	13 cm × 19 cm × 38 cm (5.2 in. × 7.5 in. × 15 in.)
Inner carton quantity (bag)	100
Master carton weight	10 kg (22 lb.)
Master carton dimensions (H × W × L)	28 cm × 40 cm × 40 cm (11 in. × 15.8 in. × 15.8 in.)
Master carton quantity	400
EAN-13	0793950372067

6 inch pins for MR06, MR07, MR08, includes 1 pair of pins

P/N: MR-PINS6

Revision

30159

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
UPC-12	793950372067
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

8 mm (0.31″) camera with 1 m (3.3′) semi-rigid probe—VGA via long focus

P/N: VSC80-1R

Revision

29700

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2015-10-16 07:11 UTC+1

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Website

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Customer support

http://support.flir.com



Part No.	VSC80-1R

General information	
Short description	8 mm (0.31″) camera with 1 m (3.3′) semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	8.0 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap

8 mm (0.31″) camera with 1 m (3.3′) semi-rigid probe—VGA via long focus

P/N: VSC80-1R

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.35 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	9.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950406083
UPC-12	793950406083
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

8 mm (0.31″) camera with 2 m (6.6′) semi-rigid probe—VGA via long focus

P/N: VSC80-2R

Revision

29700

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Website

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Customer support

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Part No.	VSC80-2R

General information	
Short description	8 mm (0.31″) camera with 2 m (6.6′) semi-rigid probe—VGA via long focus
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	8.0 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m (6.6′)
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap

8 mm (0.31″) camera with 2 m (6.6′) semi-rigid probe—VGA via long focus

P/N: VSC80-2R

Revision

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Website

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Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	0.5 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	13.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950406090
UPC-12	793950406090
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

AC Current Line splitter

P/N:TA55

Revision

42583

Last modified

2017-05-09 14:35 UTC+1

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Website

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Customer support

http://support.flir.com



Part number	TA55
Part description	AC Current Line Splitter

- Provides easy and safe measurements of current and voltage from two or three wire outlets.
- Plugging the power connector into the line splitter separates the hot/live conductor from the neutral (and ground) for accurate current measurement.
- Dual ranges (x1 and x10) for higher resolution on low-amperage readings.
- Built-in recessed voltage testing inputs.
- 2 year warranty.

Specifications	
Voltage	120 V ±10%
Current	15 A AC maximum
Temperature	Operating: 5–40°C (41–104°F); storage: –20 to 60°C (–4 to 140°F)
Humidity	Operating: max. 80% up to 31°C (87°F) decreasing linearly to 50% at 40°C (104°F); storage <80%
Altitude	2000 m (7000′) max.

Meter data	
Suitable main unit	CM78, CM83 (CM82, CM85)
Warranty	2 years

Certifications	
Certifications	UL, CUL, CAT II—600 V
Safety	For indoor use and in accordance with the requirements for double insulation to IEC 1010-1 (1995): EN 61010-1 (1995), Overvoltage Category II, Pollution Degree 2

Meter physical data	
Weight:	0.102 kg
Dimensions (H × W × L)	2.2 cm × 6.03 cm × 16.2 cm
Material	PC-ABS
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell

AC Current Line splitter

P/N:TA55

Revision

42583

Last modified

2017-05-09 14:35 UTC+1

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Website

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Customer support

http://support.flir.com

Shipping information	
Packaging contents	Manual, TA55
Packaging weight:	0.207 kg
Packaging dimensions (H × W × L)	6.03 cm × 8.6 cm × 24.4 cm
Carton weight	4.4 kg
Carton dimensions	15″ × 7.5″ × 18.25″
Carton quantity	48
EAN-13	0793950377550
UPC-12	793950377550
Country of origin	Taiwan
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Belt clip holster for TG165

P/N:TA14

Revision

26727

Last modified

2015-06-12 10:27 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part Number	TA14
Part Description	Belt clip holster for TG165
Add the TA14 clip holster to your belt to conveniently carry the TG165 Imaging IR Thermometer at your side— whenever, wherever— you need it. The multi-positional, durable and secure design makes it easy for you to quickly access the TG165 while on the job and free your hands for other tools	

Meter Data	
Suitable Main Unit	TG165
Warranty	1 Year

Meter Physical Data	
Weight	0.4 kg (0.8 lb.)
Dimensions (H × W × L)	8.5 × 17 × 27 cm (3.4 × 6.7 × 10.6 in.)
Material	Rubber patterned PU / Lycra (Exterior), EVA with Velvet finish (Interior)
Color	Black

Shipping Information	
Packaging, type	Color box
Packaging, Contents	Belt clip holster
Each Weight	0.227 kg (0.5 lb.)
Each Dimensions (H × W × L)	190.5 × 102 × 102 mm (7.5 × 4 × 4 in.)
Master Carton Weight	N/A
Master Carton Dimensions	N/A
Master Carton Quantity	N/A
EAN-13	0793950377147
UPC-12	793950377147
Country of Origin	USA
Tariff Code	N/A

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com

Belt clip holster for TG165

P/N: TA14

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

CAT IV Insulated Alligator Probes

P/N:TA70

Revision

29570

Last modified

2015-10-13 15:56 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	TA70
Part description	CAT IV Insulated Alligator Probes
• Works with FLIR TA80 test probes. • Complies with latest UL CAT IV/CAT III—1000 V. • Slide-on connection with finger guards. • 2 year warranty.	

Specifications	
Maximum capacity	10 A
Operating temperature	–10 to 50°C (14 to 122°F)
Relative humidity	Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F)
Storage temperature	–20 to 60°C (–4 to 140°F), <80% relative humidity
Altitude	Operating below 2000 m (6562′)

Meter data	
Suitable main unit	FLIR TA80 test leads
Warranty	2 years

Certifications	
Certifications	IEC/EN 61010-031:2008 and UL 61010-031:2010 to 600 V CAT IV and 1000 V CAT III

Meter physical data	
Weight	0.02 kg
Dimensions (H × W × L)	7.94 cm × 4.13 cm × 1.91 cm
Material	Nickel-plated steel, TPR and polypropylene
Color	Black and red

Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA70 alligator clips
Packaging weight	0.05 kg

CAT IV Insulated Alligator Probes

P/N:TA70

Revision

29570

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Packaging dimensions (H × W × L)	7 .62 cm × 2.54 cm × 16.83 cm
Carton weight	3.3 kg
Carton dimensions	14.5″ × 13″ × 8″
Carton quantity	48
EAN-13	0793950377703
UPC-12	793950377703
Country of origin	Taiwan
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

CAT IV Silicone Test Leads

P/N:TA80

Revision

29571

Last modified

2015-10-13 15:57 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	TA80
Part description	CAT IV Silicone Test Leads
• 1000 V, 10 A test probes. • UL certified to CAT IV—1000 V rating. • Gold-plated tips for professional precision. • Double-extruded multi-color silicone leads with wear indication. • High-strength stress relief integrated into the probe. • 41″ lead length with a total length of 46″ including the probe. • Removable probe protection caps for 4mm tips.	

Specifications	
Maximum capacity	1000 V, 10 A with protective caps
Operating temperature	–10 to 50°C (14–122°F)
Relative humidity	Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F)
Storage temperature	–20 to 60°C (–4 to 140°F), <80% relative humidity
Altitude	Operating below 2000 m (6562′)

Meter data	
Suitable main unit	DM93, CM83, CM78 (IM75, DM92, CM85, CM82)
Warranty	2 years

Certifications	
Certifications	IEC/EN 61010-031:2008 and UL 61010-031:2010 to 1 kV CAT IV (with the protective cap removed: 1 kV CAT II only)

Meter physical data	
Weight:	0.06 kg
Dimensions (H × W × L)	5.08 cm × 3.81 cm × 117 cm
Material	Gold-plated tips, double-extruded silicone (removable caps for 4 mm tips)
Color	Red and black

Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA80 test leads
Packaging weight	0.09 kg
Packaging dimensions (H × W × L)	7 .62 cm × 2.54 cm × 16.83 cm

CAT IV Silicone Test Leads

P/N: TA80

Revision

29571

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Shipping information	
Carton packaging weight	4.4 kg
Carton dimensions	14.5″ × 13″ × 8″
Carton quantity	48
EAN-13	0793950377802
UPC-12	793950377802
Country of origin	Taiwan
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Display for Point of Purchase or Slat Wall for VP5x

P/N: VP5x-4-Pack

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

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Customer support

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Part number	VP5x-4-Pack
Display for point of purchase or slat wall for VP5x non-contact voltage detector with flashlight.	

Assembled physical data	
Weight	3.1 lb.
Dimensions (H × W × L)	20″ × 7.75″ × 11″
Color	Black
Suitable units	VP50, VP52
Number of units (not included)	4

Shipping information	
Packaging, type	Brown shipping box
Packaging contents	Counter display base, counter display backing, push screws (4), working VP50 (attached)
Packaging weight	5 lb.
Carton dimensions (L x W x H)	14″ × 11″ × 10″
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA
Tariff code	3929.90.9980

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

EVA Protective Case

P/N: MR10

Revision

29700

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Website

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Customer support

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Part number	MR10
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions. • Fits the FLIR MR7x series of digital multimeters and accessories. • Custom instrument compartment protects tools from extremes. • Concealed zipper designed for dirt resistance. • Resilient nylon carry strap. • Ruggedized non-slip finish.	

Meter data	
Suitable main unit	MR77
Warranty	1 year

Meter physical data	
Weight	0.4 kg
Dimensions (H × W × L)	17.34 cm × 9.72 cm × 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.56 kg
Packaging dimensions (H × W × L)	17.78 cm × 10.795 cm × 34.29 cm
Carton weight	13.44 kg
Carton dimensions	22.5″ × 14.5″ × 25″
Carton quantity	20
EAN-13	0793950370117
UPC-12	793950370117
Country of origin	China
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com

EVA Protective Case

P/N: MR10

Revision

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Website

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Customer support

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Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TG165 Display

P/N: TM-Monitor-CN

Revision

26727

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2015-06-12 10:27 UTC+1

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Website

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Customer support

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Part number	TM-Monitor-CN
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Chinese
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

P/N: TM-Monitor-CN

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Tariff code	9403.20.0020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TG165 Display

P/N: TM-Monitor-DE

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Website

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Customer support

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Part number	TM-Monitor-DE
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	German
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

P/N: TM-Monitor-DE

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FLIR TG165 Display

P/N: TM-Monitor

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Part number	TM-Monitor
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	English
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

FLIR TG165 Display

P/N: TM-Monitor

Revision

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Website	http://support.flir.com
E-mail	TMsupport@flir.com
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Repairs	repair@flir.com

FLIR TG165 Display

P/N: TM-Monitor-ES

Revision

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Customer support

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Part number	TM-Monitor-ES
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Spanish
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

FLIR TG165 Display

P/N: TM-Monitor-ES

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Tariff code	9403.20.0020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TG165 Display

P/N: TM-Monitor-FR

Revision

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Part number	TM-Monitor-FR
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	French
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

FLIR TG165 Display

P/N: TM-Monitor-FR

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Tariff code	9403.20.0020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TG165 Display

P/N: TM-Monitor-IT

Revision

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Website

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Customer support

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Part number	TM-Monitor-IT
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Italian
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

P/N: TM-Monitor-IT

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Technical support	
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E-mail	TMsupport@flir.com
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FLIR TG165 Display

P/N: TM-Monitor-JP

Revision

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Website

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Customer support

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Part number	TM-Monitor-JP
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Japanese
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

P/N: TM-Monitor-JP

Revision

26727

Last modified

2015-06-12 10:27 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com

Tariff code	9403.20.0020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TG165 Display

P/N: TM-Monitor-KR

Revision

26727

Last modified

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	TM-Monitor-KR
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Korean
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

P/N: TM-Monitor-KR

Revision

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Website

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Customer support

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Tariff code	9403.20.0020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TG165 Display

P/N: TM-Monitor-PT

Revision

26727

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	TM-Monitor-PT
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Portuguese
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

P/N: TM-Monitor-PT

Revision

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Website

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Tariff code	9403.20.0020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR TG165 Display

P/N: TM-Monitor-RU

Revision

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Website

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Customer support

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Part number	TM-Monitor-RU
Part description	FLIR TG165 Display
Point of sale display for the FLIR TG165 Imaging IR Thermometer. This stand displays the product with a security tether on a retractable cable for in-store hands-on experience. On the front there is a button that starts a product highlight video in the local language. The stand also can be on a counter or hung on a slat wall using the included hardware. The FLIR TG165 Imaging IR Thermometer is NOT INCLUDED.	
Meter data	
Local language	Russian
Suitable main unit	FLIR TG165
Meter physical data (assembled)	
Weight	1.497 kg (3.3 lb.)
Dimensions (H × W × L)	19.685 cm × 19.368 cm × 31.75 cm (7.75″ × 7.625″ × 12.5″)
Shipping information	
Packaging type	Brown shipping box
Packaging contents	TG display board, slat wall bracket, locking bracket, header graphic, FLIR TG165 brochure set of 25 in the local language, international power adapter (Europe, UK, USA, China, Japan, Australia, Spain)
Packaging weight	2.72 kg (6 lb.)
Carton dimensions (H × W × L)	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton weight	2.72 kg (6 lb.)
Carton dimensions	18.733 cm × 21.273 cm × 33.02 cm (7.375″ × 8.375″ × 13″)
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA

P/N: TM-Monitor-RU

Revision

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

General Purpose Accessory Case

P/N:TA12

Revision

29566

Last modified

2015-10-13 15:52 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	TA12
Part description	General Purpose Accessory Case
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions. • Durable EVA protective case for general accessories. • Internal flap with dual pockets separates additional storage compartments. • Concealed zipper designed for dirt resistance. • Resilient nylon carry strap. • Ruggedized non-slip finish.	

Meter data	
Suitable main unit	General case, non-specific
Warranty	1 year

Meter physical data	
Weight	0.4 kg
Dimensions (H × W × L)	17.34 cm × 9.72 cm × 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	**Shipping information**
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.6 kg
Packaging dimensions (H × W × L)	17.78 cm × 10.795 cm × 34.29 cm
Carton weight	13.56 kg
Carton dimensions	22.5″ × 14.5″ × 25″
Carton quantity	20
EAN-13	0793950377123
UPC-12	793950377123
Country of origin	China

General Purpose Accessory Case

P/N: TA12

Revision

29566

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	Shipping information
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Hammer and Wall Cavity Probe Combo

P/N: MR08

Revision

30135

Last modified

2015-10-31 13:06 UTC+1

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Website

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Customer support

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General description	
Part number	MR08
Part name	Hammer and Wall Cavity Probe Combo

The FLIR MR08 Hammer and Wall Cavity Probe Combo is ideal for both hammer probe and wall cavity applications. The hammer probe has an additional handle on the bottom to add convenience for angled, horizontal, and inverted hammer-probing needs. The bottom handle can be unscrewed and used as a wall cavity probe to measure the moisture level of insulation within the wall cavity and can also reach the inside face of an exterior wall. You can also install the impact plate for use with a hammer to punch the extended pins through drywall.

FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.

- Insulated pins designed for increased durability.
- Rubberized ergonomic grips reduce slippage.
- Detachable cord with a durable BNC connection.
- Pins included: 2 pairs of 2 in. pins, 1 pair of 4 in. pins, 1 pair of 6 in. pins.
- Impact plate to drive pins through a drywall.

Meter data	
Suitable main unit	MR77, MR160, MR176
Cable length	2.45 m (8 ft.) uncoiled
Included insulated pin pairs and length	2 pairs of 2 in. (50 mm), 1 pair of 4 in. (101 mm), 1 pair of 6 in. (152 mm)
Warranty	2 years (with registration)

Meter physical data	
Weight	1.48 kg (3.25 lb.)
Dimensions (H × W × L)	4.5 cm × 5.97 cm × 56.9 cm (1.8 in. × 2.4 in. × 22.4 in.)
Material	PC-ABS, stainless steel
Color	Black

Shipping information	
Packaging type	White box with accessory color printing
Packaging contents	MR08, 2 pairs of 2 in. insulated pins, 1 pair of 4 in. insulated pins, 1 pair of 6 in. insulated pins, cable, impact plate, pin wrench, shoulder case
Packaging weight	5 kg (11.1 lb.)
Packaging dimensions (H × W × L)	15.5 cm × 18 cm × 65 cm (6.1 in. × 7.1 in. × 25.6 in.)
Master carton weight	11 kg (24.25 lb.)
Master carton dimensions (H × W × L)	18.5 cm × 36.5 cm × 67 cm (7.3 in. × 14.4 in. × 26.4 in.)

Hammer and Wall Cavity Probe Combo

P/N: MR08

Revision

30135

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Master carton quantity	2
EAN-13	0793950370087
UPC-12	793950370087
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Replacement parts	
MR-PINS2	2 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS2-10	2 inch pins for MR06, MR07, MR08, includes 10 pairs of pins
MR-PINS4	4 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS6	6 inch pins for MR06, MR07, MR08, includes 1 pair of pins

Hammer Probe

P/N: MR07

Revision

30134

Last modified

2015-10-31 13:03 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



General description	
Part number	MR07
Part name	Hammer Probe

The FLIR MR07 Hammer Probe expands the functionality of your FLIR moisture meter by allowing you to take measurements in the subfloor through carpet, hardwood flooring, and hard materials that are difficult to penetrate with a standard pin probe.

FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.

- Insulated pins designed for increased durability.
- Rubberized ergonomic grips reduce slippage.
- Detachable cord with durable BNC connection.
- Pins included: 2 pairs of 2 in. pins.

Meter data	
Suitable main unit	MR77, MR160, MR176
Cable length	2.45 m (8 ft.) uncoiled
Included insulated pin pairs and length	2 pairs of 2 in. (50 mm)
Warranty	2 years (with registration)

Meter physical data	
Weight:	1.22 kg (1.10 lbs.)
Dimensions (H × W × L)	4.5 cm × 5.97 cm × 45.4 cm (1.8 in. × 2.4 in. × 17.9 in.)
Material	PC-ABS, stainless steel
Color	Black

Shipping information	
Packaging type	White box with accessory color printing
Packaging contents	MR07, 2 sets of 2 in. insulated pins, pin wrench, shoulder case
Packaging weight	5 kg (11.1 lb.)
Packaging dimensions (H × W × L)	15.5 cm × 18 cm × 65 cm (6.1 in. × 7.1 in. × 25.6 in.)
Master carton weight	11 kg (24.25 lb.)
Master carton dimensions (H × W × L)	18.5 cm × 36.5 cm × 67 cm (7.3 in. × 14.4 in. × 26.4 in.)
Master carton quantity	2
EAN-13	0793950370070
UPC-12	793950370070

Hammer Probe

P/N: MR07

Revision

30134

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Customer support

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Shipping information	
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Replacement parts	
MR-PINS2	2 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS2-10	2 inch pins for MR06, MR07, MR08, includes 10 pairs of pins
MR-PINS4	4 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS6	6 inch pins for MR06, MR07, MR08, includes 1 pair of pins

Impact Pin Moisture Probe

P/N: MR05

Revision

26727

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	MR05
Part description	Impact Pin Moisture Probe
The FLIR MR05 upgrades your FLIR moisture meter to help you easily test for moisture in challenging spots—on rough or uneven surfaces, in corners, in hard woods or high-density materials, and even, with ease, in areas without a dry reference. Made with extra-durable pins and a metallic impact plate that can withstand hammering to drive pins into the hardest materials, the FLIR MR05 lets you tackle the toughest moisture-measurement challenges all day long. Key features include six additional sets of thick and thin pins, an external pin accessory for the FLIR moisture meter mount for extended reach, a 1/4″-20 integrated wrench on the cap to replace pins, a durable BNC connector, a 2 m coiled cord, and a 2 year warranty.	

Meter data	
Suitable main unit	MR77 (MR160 and MR176 coming soon)
Cable length	2.45 m (8′) uncoiled
Pin length	10 mm (0.4″)
Warranty	2 years (with registration)

Meter physical data	
Weight	195 g (0.43 lb)
Dimensions (H × W × L)	8.4 cm × 7.1 cm × 3.8 cm (3.3″ × 2.8″ × 1.5″)
Material	PC-ABS
Color	Black

Shipping information	
Packaging type	Color retail packaging
Packaging contents	MR05, manual, six extra pin sets (three wide, three standard)
Packaging weight	0.4 kg (0.8 lb)
Packaging dimensions (H × W × L)	31.1 cm × 15.2 cm × 5.7 cm (12.25 x 6 x 2.2 in)
Inner shipping carton weight	1.8 kg (3.98 lb)
Inner shipping carton dimensions (H × W × L)	58.5 cm × 15.9 cm × 12.7 cm (23″ × 7″ × 5″)
Inner shipping carton quantity	4
Master carton weight	6 kg (13.2 lb)
Master carton dimensions (H × W × L)	60.9 cm × 39.4 cm × 17.8 cm (24″ × 16″ × 7″)

Impact Pin Moisture Probe

P/N: MR05

Revision

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Website

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Customer support

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Shipping information	
Master carton quantity	12
EAN-13	0793950370056
UPC-12	793950370056
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories	
Replacement pins (standard) Part No. MR05-PINS1 (1.50–1.55 mm)	
Replacement pins (wide) Part No. MR05-PINS2 (2.26–2.35 mm)	

Interactive Point of Purchase Display for Thermal Products

P/N: CS-Monitor-E

Revision

29700

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2015-10-16 07:11 UTC+1

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Website

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Customer support

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Part number	CS-Monitor-E
Interactive point of purchase display for thermal products. Display includes a thermal target consisting of three fuses, a display showing a video and an action button. The display can be used to advertise several different models (TG165, Ex, Exx).	

Assembled physical data	
Weight	11.15 lb.
Dimensions (H × W × L)	16.75″ × 13.25″ × 19.25″
Color	Black
Suitable units	TG165, Ex, Exx

Shipping information	
Packaging type	Brown shipping box
Packaging contents	Display stand upper and lower, deco side (2), black backing upper and lower, power supply, #8-32 × 5/8 panhead screw (14), #8 washer (8), #8-32 wing nut (4), 1/2 × 3/8 spacer (4), 4″ wire tie, 8″ wire tie, remote control, pegboard bracket (2), #6-32 × 1/2 flathead screw, #6 flatwasher, #6-32 kep nut, literature “Affordable Thermal Imaging” (50), instruction manual, IR spot thermometer (Extech 42500)
Packaging weight	19 lb.
Carton dimensions	20″ × 16.5″ × 15.8″
Carton quantity	1
EAN-13	N/A
UPC-12	N/A
Country of origin	USA
Tariff code	3929.90.9980

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662

Interactive Point of Purchase Display for Thermal Products

P/N: CS-Monitor-E

Revision

29700

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Website

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Customer support

http://support.flir.com

Technical support	
Repairs	repair@flir.com

P/N: TA04-KIT

Revision

38299

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Website

http://www.flir.com

Customer support

http://support.flir.com



General description	
Part number	TA04-KIT
Part name	Lithium Polymer Rechargeable Battery Kit
Kit description	Rechargeable battery kit for the FLIR DM284 Imaging Multimeter with extended battery life
Kit contents	The TA04-KIT includes a FLIR DM284 replacement battery door, an Li polymer rechargeable battery, an AC charging adapter with international AC inlet clips for wall outlets, and a quick start guide. The following AC inlet clips are included: North America, Europe, UK, Australia, and Korea.

Battery	
Type	Li polymer rechargeable
Output	3.7 V, 3050 mA h, 11.3 W h
Battery life	Approximately 30 hours constant use in DMM mode or 11 hours constant use in IGM mode
Charge indicator LED	Red/green

Charging adapter	
Input	100–240 V AC, 50/60 Hz, 0.4 A maximum
Output	5 V, 2000 mA

General	
Warranty	2 years limited

Certifications	
Safety standards compliance	CE EMC: EN 61326-1, EN 61000-3-2, EN 61000-3-3 CE LVD (also CB): IEC 62133:2012 US/CAN Safety: UL 1642 (cell), UL 2054 (pack)—UL File Listing MH61622 FCC: FCC Part 15B IC (Canada): ICES-003

Physical data	
Dimensions (H × W × L)	15.5 cm × 12.8 cm × 8 cm (6.1 in. × 5.1 in. × 3.2 in.)
Weight	0.5 kg (1 lb.)

Shipping information	
UPC	793950377048
EAC	0793950377048
Country of origin	Taiwan
Tariff code	8504.40.7018

P/N: TA04-KIT

Revision

38299

Last modified

2016-11-14 14:43 UTC+1

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Customer support

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Magnetic Hanging Strap for DM9x, IM7x Series

P/N:TA50

Revision

29567

Last modified

2015-10-13 15:53 UTC+1

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Website

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Customer support

http://support.flir.com



Part number	TA50
Part description	Magnetic Hanging Strap for DM9x, IM7x Series
• Hang your meter on metal electrical cabinets—allowing you to focus on your testing. • Magnetic strip designed for DM9x series multimeters or any meter that accepts a 1″ (25 mm) strap. • Durable nylon strap. • Securely fastens to the meter with an integrated mounting tab. • 2 year warranty.	

Meter data	
Suitable main unit	DM93 (IM75, DM92)
Warranty	2 years

Certifications	
Certifications	N/A

Meter physical data	
Weight	0.03 kg
Dimensions (H × W × L)	29.8 cm × 3.33 cm × 0.48 cm
Material	Nylon strap, rubber tab enclosing the magnet
Color	Black

Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA50
Packaging weight	0.06 kg
Packaging dimensions (H × W × L)	7 .62 cm × 2.54 cm × 16.83 cm
Carton weight	4 kg
Carton dimensions	14.5″ × 13″ × 8″
Carton quantity	48
EAN-13	0793950377505
UPC-12	793950377505

Magnetic Hanging Strap for DM9x, IM7x Series

P/N: TA50

Revision

29567

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Country of origin	Taiwan
Tariff code	9027808090

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

MR04 Extension pole

P/N: MR04

Revision

36663

Last modified

2016-06-28 09:03 UTC+1

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Customer support

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General description	
Part number	MR04
Part name	Extension pole
When connected to a FLIR Moisture probe such as MR05 Impact Pin Probe or MR06 Wall Cavity Probe, the MR04 allows the user to measure moisture in wood and other building materials in difficult to reach areas from a safe distance.	

General information	
Warranty	2 years
Adjustment Angle	± 90°

Meter physical data	
Weight	466 g (1 lbs.)
Dimensions (H × W × L)	47.8 cm (18.83”) collapsed; 134.3 cm (52.88”) extended; × 4 cm (1.6”) × 5.5 cm (2.2”)
Color	Black

Shipping Information	
Packaging, type	Retail box
Packaging, Contents	MR04 Extension Pole and Instruction sheet
Each Weight	0.70 kg
Each Dimensions (H × W × L)	7.2 x 52.1 x 6.7 cm
Master Carton Weight	8.4 Kg
Master Carton Dimensions (H × W × L)	35.1 x 55.9 x 26.7 cm
Master Carton Quantity	12
EAN-13	0793950370049
UPC-12	793950370049
Country of Origin	China
Tariff Code	9025.90.0000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Accessories (optional)	
MR05	Moisture Probe
MR06	Wall Cavity Probe
MR07	Carry Case
MR08	Carry Case

MR09 Baseboard probe

P/N: MR09

Revision

36664

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Website

http://www.flir.com

Customer support

http://support.flir.com



General description	
Part number	MR09
Part name	Baseboard probe
When connected to a FLIR Moisture Meter (using the supplied cable), the MR09 allows the user to take relative moisture measurements behind trim pieces, baseboards, crown molding, and masonry; under tile, inside walls/ceilings, and other such places where the sensor blades can be inserted. The blades are designed to 'flex' into the measurement cavity eliminating the need to remove the obstacle that would otherwise prevent a standard pin or pinless measurement. This probe is designed to operate with FLIR Moisture Meters.	

General information	
Warranty	2 years
Measurement type	Resistive moisture measurements for reference only
Penetration depth	15 cm (6 in.) maximum

Meter physical data	
Blade Material	400-series stainless steel; thickness: 1 mm (0.04 in.)
Mounting hole for conversion plate	9.5 mm (3/8 in.) threaded
Cable length	2.45 cm (8 ft.)
Weight	494 g (1.2 lbs.)
Dimensions (H × W × L)	34 × 10 × 6 cm (13.4 × 4.0 × 2.4 in.)
Color	Black handle. Metallic color blades

Shipping information	
Packaging, type	Retail box
Packaging, Contents	MR09 Baseboard Probe, RJ45-to-BNC connecting cable, and Instruction sheet
Each Weight	0.9 Kg
Each Dimensions (H × W × L)	11.5 × 37.6 × 11.5 cm
Master Carton Weight	8.5 Kg
Master Carton Dimensions (H × W × L)	51 × 25 × 40 cm
Master Carton Quantity	8
EAN-13	0793950370094
UPC-12	793950370094
Country of Origin	China
Tariff Code	9025.90.0000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662

MR09 Baseboard probe

P/N: MR09

Revision

36664

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Website

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Customer support

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Technical support	
Repairs	repair@flir.com

Accessories	
MR07	Carry Case (optional)
MR08	Carry Case (optional)
RJ45-to-BNC Connecting Cable	Included. Connects MR09 to a Moisture meter

NiMH Rechargeable Battery Kit

P/N: TA03-KIT

Revision

39765

Last modified

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Website

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Customer support

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Part number	TA03-KIT
Part name	NiMH Rechargeable Battery Kit
Kit description	Rechargeable battery kit for the CM174 Imaging 600A AC/DC Clamp Meter with extended battery life
Kit contents	The TA03-KIT includes 8 NiMH rechargeable batteries (2 sets), Charger and AC adapter with international AC inlet clips for wall outlets and a quick-start guide. The following AC inlet clips are included: N.America, Europe, UK, Austraila, Korea.

Battery	
Type	NiMH rechargeable, AAA
Output	1.2V, 900mAh, 1.1 Wh
Battery life	Approximately 11 hours constant use in CM mode or 4 hours constant use in IGM mode

Charger and AC Adapter	
AC Adapter Input	100-240VAC, 50/60Hz, 0.4A max
AC Adapter Output	9-12VDC
Charger Input	12V DC, 0.5A
Charger Output	1.2V x 4, 250 mA DC
Charge indicator	Charging, Fully Charged, Bad/ Incorrect Battery

General	
Warranty	Two years limited

Certifications	
Safety standards compliance	CE EMC: EN 61326:2013, EN 61000-3-2:2014, EN 61000-3-3:2013 CE LVD: IEC 61010:2010 (Ed. 3) US Safety: UL 61010-1:2012 (3rd Edition), CAN Safety: CAN/CSA-C22.2 No. 61010-1:2012 (3rd Edition) FCC: FCC Part 15 Subpart B:2016

Physical data	
Dimensions (H × W × L)	15.5 x 12.8 x 8 (cm) /// 6.1 x 5.1 x 3.2 (in)
Weight	0.5 kg (1 lb)

Shipping information	
UPC	793950377314
EAC	0793950377314
Country of origin	Taiwan
Tariff code	8507.30.8090

Technical support	
Website	http://support.flir.com

NiMH Rechargeable Battery Kit

P/N: TA03-KIT

Revision

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Website

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Customer support

http://support.flir.com

Technical support	
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Protective Case for CM7x and CM8x Series

P/N:TA11

Revision

29565

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	TA11
Part description	Protective Case for CM7x and CM8x Series
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions. • Fits the FLIR CM7x and CM8x series of digital multimeters and accessories. • Custom instrument compartment protects tools from extremes. • Concealed zipper designed for dirt resistance. • Resilient nylon carry strap. • Ruggedized non-slip finish.	

Meter data	
Suitable main unit	CM78, CM83 (CM85, CM82)
Warranty	1 year

Meter physical data	
Weight	0.4 kg
Dimensions (H × W × L)	17.34 cm × 9.72 cm × 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.7 kg
Packaging dimensions (H × W × L)	17.78 cm × 10.8 cm × 34.29 cm
Carton weight	15.34 kg
Carton dimensions	22.5″ × 14.5″ × 25″
Carton quantity	20
EAN-13	0793950377116
UPC-12	793950377116
Country of origin	China
Tariff code	4202122020

Protective Case for CM7x and CM8x Series

P/N: TA11

Revision

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Website

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Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Protective Case for DM9x and IM7x Series

P/N:TA10

Revision

29564

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Website

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Customer support

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Part number	TA10
Part description	Protective Case for DM9x and IM7x Series
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions. • Fits the FLIR DM9x and IM75 series of digital multimeters and accessories. • Custom instrument compartment protects tools from extremes. • Concealed zipper designed for dirt resistance. • Resilient nylon carry strap. • Ruggedized non-slip finish.	

Meter data	
Suitable main unit	DM93, DM92 (IM75)
Warranty	1 year

Meter physical data	
Weight:	0.4 kg
Dimensions (H × W × L)	17.34 cm × 9.72 cm × 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	Protective case
Packaging weight	0.6 kg
Packaging dimensions (H × W × L)	17.78 cm × 10.80 cm × 34.29 cm
Carton weight	13.08 kg
Carton dimensions	22.5″ × 14.5″ × 25″
Carton quantity	20
EAN-13	0793950377109
UPC-12	793950377109
Country of origin	China
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com

Protective Case for DM9x and IM7x Series

P/N: TA10

Revision

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Customer support

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Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

Protective Case for DM9x & TA72/74 Series

P/N: TA10-F

Revision

40622

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Website

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Customer support

http://support.flir.com



General description	
Part number	TA10-F
Part name	Protective Case for DM9x & TA72/74 Series

Made from durable EVA rubber, the TA10-F Protective Case shields against harsh environmental conditions and damage. It is exclusively designed for use with the FLIR DM92/DM93 Industrial Digital Multimeters, the FLIR TA72/TA74 Universal Flex Current Probe Accessories, and the FLIR CM55/57 Flexible Clamp Meters with Bluetooth.

- Form-fitting instrument compartment.
- Concealed zipper resists dirt.
- Resilient nylon carry strap.
- Rugged, non-slip finish.
- 1-year warranty.

Meter data	
Suitable main unit	DM93, DM92 with TA74, TA72, CM55 or CM57
Warranty	1 year

Meter physical data	
Weight	0.4 kg
Dimensions (H × W × L)	17.34 cm × 9.72 cm × 26.67 cm
Material	Rubber patterned PU/Lycra (exterior), EVA with velvet finish (interior)
Color	Black

Shipping information	
Packaging type	Colored box with view of product
Packaging contents	Protective case
Packaging weight	0.6 kg
Packaging dimensions (H × W × L)	17.78 cm × 10.80 cm × 34.29 cm
Carton weight	13.08 kg
Carton dimensions (H × W × L)	57.15 cm × 36.83 cm × 63.50 cm
Carton quantity	20
EAN-13	0793950377208
UPC-12	793950377208
Country of origin	China
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com

Protective Case for DM9x & TA72/74 Series

P/N: TA10-F

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Website

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Customer support

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Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

Protective case for TG165

P/N:TA13

Revision

29700

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Website

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Customer support

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Part Number	TA13
Part Description	Protective case for TG165
Safeguard your valuable FLIR T&M instruments with our durable EVA protective case. Stow your FLIR Test and measurement gear in a FLIR durable EVA protective case to shield against dirt, dings, and harsh environmental conditions. • Fits the FLIR TG165 and accessories • Custom instrument compartment protects tools from extremes • Concealed zipper designed for dirt resistance • Resilient nylon carry strap • Ruggedized non-slip finish	

Meter Data	
Suitable Main Unit	TG165
Warranty	1 Year

Meter Physical Data	
Weight	0.4 kg (0.8 lb.)
Dimensions (H × W × L)	8.5 x 17 x 27 cm (3.4 x 6.7 x 10.6 in.)
Material	Rubber patterned PU / Lycra (Exterior), EVA with Velvet finish (Interior)
Color	Black

Shipping Information	
Packaging, type	Color box
Packaging, Contents	Protective Case
Each Weight	0.7 kg (1.5 lb.)
Each Dimensions (H × W × L)	17.8 x 10.8 x 34.3 cm (7 x 4.3 x 13.5 in.)
Master Carton Weight	15 kg (33.7 lb.)
Master Carton Dimensions	57.2 x 36.2 x 62.9 cm (22.5 x 14.5 x 25 in.)
Master Carton Quantity	20
EAN-13	0793950377130
UPC-12	793950377130
Country of Origin	China
Tariff Code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com

Protective case for TG165

P/N:TA13

Revision

29700

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Website

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Customer support

http://support.flir.com

Technical support	
Phone	855-499-3662
Repairs	repair@flir.com

Replaceable External Moisture Pin Probe for MR77

P/N: MR02

Revision

26727

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	MR02
Part description	Replaceable External Moisture Pin Probe for MR77
The FLIR MR77 moisture meter comes with an external moisture pin probe for penetrating measurements. MR02 is the replacement for the accessory included with the MR77 purchase. Additional pins are available (part number MO220-Pins).	

Specifications	
Measurement range	0–100 pin moisture
Output interface	RJ45 connection

Meter data	
Suitable Main Unit	MR77
Warranty	2 years

Meter physical data	
Weight	58.9 g (0.13 lb.)
Dimensions (H × W × L)	6.4 cm × 2.3 cm × 48.3 cm (2.5″ × 0.9″ × 19″)
Material	ABS/PC
Color	Black

Shipping information	
Packaging type	White box
Packaging contents	MR02
Packaging dimensions (H × W × L)	8.26 cm × 4.13 cm × 12.38 cm (3.25″ × 1.625″ × 4.875″)
Packaging weight	85 g (0.18 lb.)
EAN-13	0793950370025
UPC-12	793950370025
Country of origin	China
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662

Replaceable External Moisture Pin Probe for MR77

P/N: MR02

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Technical support	
Repairs	repair@flir.com

Replaceable T/RH Probe for MR77

P/N: MR01

Revision

26727

Last modified

2015-06-12 10:27 UTC+1

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Part number	MR01
Part description	Replaceable T/RH Probe for MR77
Replacement temperature/relative humidity probe for the FLIR MR77 moisture meter: • Metallic screw on connection. • Field replaceable. • Factory calibrated. • Protective cap.	

Specifications	
Temperature range	–28 to +77°C (–18 to +170°F)
Temperature accuracy	±2°C (3.6°F)
Relative humidity range/accuracy at 20–30°C (68–86°F)	0–10 ±3 %, 10–90 ± 2.5%, 90–99 ±3%

Meter data	
Suitable main unit	MR77
Warranty	1 year

Meter physical data	
Weight:	19.8 g (0.04 lb.)
Dimensions (H × W × L)	2.5 cm × 2.5 cm × 4.4 cm (1″ × 1″ × 1.75″)
Material	Plastic and metal
Color	Black

Shipping information	
Packaging type	Clear plastic bag
Packaging contents	MR01, protective cap enclosure
Packaging dimensions (H × W × L)	6.03 cm × 2.54 cm × 8.89 cm (2.375″ × 1″ × 3.5″)
Packaging weight	19.8 g (0.04 lb.)
EAN-13	0793950370018
UPC-12	793950370018
Country of origin	China
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662

Replaceable T/RH Probe for MR77

P/N: MR01

Revision

26727

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Website

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Customer support

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Technical support	
Repairs	repair@flir.com

TA42 Belt Clip

P/N:TA42

Revision

36666

Last modified

2016-06-28 09:12 UTC+1

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Customer support

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General description	
Part number	TA42
Part name	Belt Clip
Use your clamp meter while on-the-go with the sturdy TA42 Belt Clip. Designed for use with the FLIR CM174, CM74, and CM72 Clamp Meters. The low-profile clip securely attaches to the meter's tripod mount.	

General information	
Warranty	2 years

Meter physical data	
Screw size	¼”-20 UNC
Weight	20 g (0.71 oz.) approx.
Dimensions	44 × 93.70 mm (1.7 × 3.7 in.)
Color	Black

Shipping information	
Packaging, type	Color, retail box
Packaging, Contents	TA42 Belt Clip and Instruction sheet
Each Weight	0.2 kg
Each Dimensions (H × W × L)	16.8 × 7.8 × 2.6 cm
Master Carton Weight	5.5 kg
Master Carton Dimensions (H × W × L)	20.3 × 29.8 × 36.4 cm
Master Carton Quantity	24 (inner of 12)
EAN-13	0793950374207
UPC-12	793950374207
Country of Origin	China
Tariff Code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

TA52 Magnetic Meter Mount

P/N:TA52

Revision

36667

Last modified

2016-06-28 09:15 UTC+1

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Website

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Customer support

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General description	
Part number	TA52
Part name	Magnetic Meter Mount
Securely mount your FLIR Clamp Meter to an electrical panel or other magnetic surface for convenient test probe measurements. The low-profile TA52 firmly attaches to the meter's tripod mount and stores easily.	

General information	
Warranty	2 years

Meter physical data	
Screw size	¼”-20 UNC
Magnet strength	12.2–12.5 kg
Weight	45 g (1.6 oz.) approx.
Dimensions (L × W × D)	52.40 × 50.40 × 10.33 mm (2.1 × 2.0 × 0.4 in.)
Color	Black

Shipping information	
Packaging, type	Color, retail box
Packaging, Contents	TA52 Magnetic Meter Mount and Instruction sheet
Each Weight	0.2 kg
Each Dimensions (H × W × L)	16.8 × 7.8 × 2.6 cm
Master Carton Weight	5.5 kg
Master Carton Dimensions (H × W × L)	20.3 × 29.8 × 36.4 cm
Master Carton Quantity	24 (inner of 12)
EAN-13	0793950377529
UPC-12	793950377529
Country of Origin	China
Tariff Code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

P/N:TA84

Revision

38301

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2016-11-14 14:52 UTC+1

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Website

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Customer support

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General description	
Part number	TA84
Part name	Test Lead Storage Accessory
Kit description	Securely store your test probes on the back of your FLIR ultimeter when not in use. The FLIR TA84 firmly attaches to the multimeter's tripod mount.

General	
Warranty	2 years

Physical data	
Screw size	¼″-20 UNC
Weight	33.80 g (1.19 oz.)
Dimensions (L × W × D)	54.00 mm × 76.85 mm × 15.20 mm (2.13 in. × 3.02 in. × 0.59 in.)
Color	Black

Shipping information	
Packaging type	Color, retail box
Packaging contents	TA84 test lead storage unit with mounting screw
Weight	0.1 kg (0.2 lb.)
Dimensions (H × W × L)	2.5 cm × 7.7 cm × 16.8 cm (1.0 in. × 3.0 in. × 6.6 in.)
Master carton weight	3.8 kg (8.4 lb.)
Master carton dimensions (H × W × L)	36.5 cm × 33.5 cm × 20.5 cm (14.4 in. × 13.2 in. × 8.0 in.)
Master carton quantity	20
EAN-13	0793950377840
UPC-12	793950377840
Country of origin	Taiwan
Tariff code	9030908922

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Thermocouple Probe with Adapter

P/N:TA60

Revision

29569

Last modified

2015-10-13 15:55 UTC+1

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Website

http://www.flir.com

Customer support

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Part number	TA60
Part description	Thermocouple Probe with Adapter
• Type K thermocouple temperature sensor. • Can be used to measure temperature with many meters. • Fast responding with a wide general-purpose measurement range. • Safety-shrouded banana to banana connection. • 2 year warranty	

Specifications	
Temperature range	–40 to 1200°C (–40 to 2192°F)

Meter data	
Suitable main unit	DM93, CM78 (DM92)
Warranty	2 years

Certifications	
Certifications	ITS-90 (JIS C-1602-1995 Class 2)

Meter physical data	
Weight	0.06 kg
Dimensions (H × W × L)	15.24 cm × 3.81 cm × 1.27 cm
Material	ABS plus PC, bronze (nickel plated), PVC
Color	Black and yellow

Shipping information	
Packaging type	Color box
Packaging contents	Manual, TA60
Packaging weight:	0.08 kg
Packaging dimensions (H × W × L)	7 .62 cm × 2.54 cm × 16.83 cm
Carton weight	4 kg
Carton dimensions	14.5″ × 13″ × 8″
Carton quantity	48
EAN-13	0793950377604

Thermocouple Probe with Adapter

P/N: TA60

Revision

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Website

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Customer support

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Shipping information	
UPC-12	793950377604
Country of origin	Taiwan
Tariff code	9030908822

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Two-channel camera, 5.8 mm diameter with 1 m probe

P/N: VSC2-58-1FM

Revision

29700

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2015-10-16 07:11 UTC+1

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Website

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Customer support

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Part No.	VSC2-58-1FM

General information	
Short description	Two-channel camera, 5.8 mm diameter with 1 m probe
Compatible main unit	VS70
Integrated handset	No
Wireless capabilities	N/A
Compatible wireless handset	With optional VST (cannot switch cameras with VST)
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	No
Diameter	5.8 mm
Front camera focal length	20–60 mm
Front camera field of view	56°
Front camera resolution	QVGA (320 × 240) pixels
Side camera focal length	20–60 mm
Side camera field of view	56°
Side camera resolution	QVGA (320 × 240) pixels
Probe length	1 m
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	See shipping information

Two-channel camera, 5.8 mm diameter with 1 m probe

P/N: VSC2-58-1FM

Revision

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Website

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Customer support

http://support.flir.com

Physical data	
Dimensions (H × W × L)	See shipping information
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachment: anti-snag tip
Packaging weight	0.35 kg
Packaging dimensions (H × W × L)	22 cm × 19 cm × 5 cm
Carton weight	8.5 kg
Carton dimensions (H × W × L)	46 cm × 32 cm × 40 cm
Carton quantity	24
EAN-13	0793950400920
UPC-12	793950400920
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with long focus

P/N: VSA2-1

Revision

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Website

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Customer support

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Part No.	VSA2-1

General information	
Short description	Two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with long focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with long focus

P/N: VSA2-1

Revision

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Customer support

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Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1M, camera attachments: nirror, anti-snag tip, magnet
Packaging weight	1.25 kg
Packaging dimensions (H × W × L)	43 cm × cm 37 cm × 7.5 cm
Carton weight	6 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400784
UPC-12	793950400784
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with macro short focus

P/N: VSA2-1M

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Customer support

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Part No.	VSA2-1M

General information	
Short description	Two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with macro short focus
Compadible main unit	VS70
Integrated handset	Yes
Wirless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with macro short focus

P/N: VSA2-1M

Revision

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Website

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Customer support

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Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1M, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.25 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400791
UPC-12	793950400791
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with long focus

P/N: VSA2-2

Revision

29700

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Website

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Customer support

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Part No	VSA2-2

General info	
Short description	Two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with long focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m
Focal length	65 mm to infinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)

Two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with long focus

P/N: VSA2-2

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Website

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Customer support

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Physical data	
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-2, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 KG
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400821
UPC-12	793950400821
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with short macro focus

P/N: VSA2-2M

Revision

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Website

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Customer support

http://support.flir.com



Part No.	VSA2-2M

General information	
Short description	Two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with short macro focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	No
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	N/A

Environmental data	
Operating temperature	–10 to 50° (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)
Material	PC-ABS, rubber hand grip, nylon strap

Two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with short macro focus

P/N: VSA2-2M

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-2M, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400838
UPC-12	793950400838
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Universal Soft Sided Case

P/N:TA15

Revision

40620

Last modified

2017-02-27 15:45 UTC+1

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General description	
Part number	TA15
Part name	Universal Soft Sided Case

The FLIR TA15 is a universal, multi-compartment soft-sided case designed to protect and carry your FLIR clamp meter, flex clamp accessory, test leads, or any other tool you need on the job. It is recommended for use with any FLIR clamp meter and the FLIR Universal Flex Current Probe Accessory (TA72 or TA74).

- Two large instrument compartments.
- Removable hand strap.
- Quick-release belt clip.
- Convenient magnetic bag closure.
- Label/luggage tag window.
- Two durable side pockets (mesh/neoprene).
- 1-year warranty.

Meter data	
Suitable main unit	Main compartment: CM174, CM74, CM72, CM85, CM83, CM82, CM78 Secondary compartment: TA74, TA72, CM57, CM57
Warranty	1 year

Meter physical data	
Weight	0.22 kg
Dimensions (H × W × L)	26.0 cm × 13.5 cm × 8.5 cm
Material	Black ballistic polyester (exterior), PEVA with velvet finish (interior), PET screen (ID slot)
Color	Black

Shipping information	
Packaging type	Colored box with view of product behind clear plastic cover
Packaging contents	Protective case, removable handle
Packaging weight	0.35 kg
Packaging dimensions (H × W × L)	32.7 cm × 7 cm × 13.7 cm
Carton weight	4.3 kg
Carton dimensions (H × W × L)	15.5 cm × 40 cm × 60 cm
Carton quantity	10

Universal Soft Sided Case

P/N:TA15

Revision

40620

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
EAN-13	0793950377154
UPC-12	793950377154
Country of origin	China
Tariff code	4202122020

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wall Cavity Probe

P/N: MR06

Revision

30133

Last modified

2015-10-31 13:02 UTC+1

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Website

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Customer support

http://support.flir.com



General description	
Part number	MR06
Part name	Wall Cavity Probe

The FLIR MR06 Wall Cavity Probe expands the functionality of your FLIR moisture meter by allowing you to easily measure insulation moisture levels within a wall cavity and the inside face of exterior walls.

FLIR's new insulated pins are smaller in diameter—requiring minimal force to drive the pins into a surface—resulting in less impact to the material. The sandblasted, hardened-steel pins with a single-piece design prevent bending and create an improved bonding surface for the abrasion-resistant insulation. The insulation extends all the way to the connection to the probe, so even if you drive the pins all the way into the wall cavity, the drywall will not affect the measurement.

- Insulated pins designed for increased durability.
- Rubberized ergonomic grips reduce slippage.
- Detachable cord with a durable BNC connection.
- Pins included: 1 pair of 4 in. pins, 1 pair of 6 in. pins.
- Impact plate to drive pins through a drywall.

Meter data	
Suitable main unit	MR77, MR160, MR176
Cable length	2.45 m (8 ft.) uncoiled
Included insulated pin pairs and length	1 pair of 4 in. (101 mm), 1 pair of 6 in. (152 mm)
Warranty	2 years (with registration)

Meter physical data	
Weight:	0.50 kg (1.10 lb.)
Dimensions (H × W × L)	4.5 cm × 5.97 cm × 28.49 cm (1.8 in. × 2.4 in. × 11.2 in.)
Material	PC-ABS
Color	Black

Shipping information	
Packaging type	Color retail packaging
Packaging contents	MR06, 1 pair 4 in. insulated pins, 1 pair 6 in. insulated pins, cable, impact plate, pin wrench
Packaging weight	0.6 kg (1.3 lb.)
Packaging dimensions (H × W × L)	5.3 cm × 12.3 cm × 19.5 cm (2 in. × 4.9 in. × 7.7 in.)
Master carton weight	11 kg (24.24 lb.)
Master carton dimensions (H × W × L)	24 cm × 28 cm × 44.5 cm (9.5 in. × 11 in. × 17.5 in.)
Master carton quantity	16
EAN-13	0793950370063
UPC-12	793950370063

Wall Cavity Probe

P/N: MR06

Revision

30133

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Website

http://www.flir.com

Customer support

http://support.flir.com

Shipping information	
Country of origin	China
Tariff code	9025900000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Replacement parts	
MR-PINS4	4 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS6	6 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS2	2 inch pins for MR06, MR07, MR08, includes 1 pair of pins
MR-PINS2-10	2 inch pins for MR06, MR07, MR08, includes 10 pairs of pins

Wireless handset for the VS70 system

P/N: VST

Revision

42584

Last modified

2017-05-09 14:49 UTC+1

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Website

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Customer support

http://support.flir.com



Introduction	Wireless handset for the VS70 system

VST general	
ERP description	Wireless 2.4 GHz handset transmitter for the VS70 system
Compatible main unit	VS70
Compatible wireless handset	N/A
Compatible cameras and spools	VSC3.9-1FM, VSC4.1-2RM, VSC5.8-1RM, VSC5.8-2RM, VSC5.8-1R, VSC5.8-2R, VSC5.8-20M, VSC5.8-30M, VSC8.0-1R, VSC8.0-2R, VSC6.5-12S, VSC6.5-17S, VSS-20, VSS-30
Wireless frequency	2.4 GHz to main unit
Unobstruced effective range	10 m (32.5′)
Video system	NTSC/PAL
Battery	3.7 V rechargeable lithium polymer
Power adapter	100–240 V input/9 V DC output
Operating temperature	–10 to 60°C (14–140°F)
Storeage temperature	–40 to 80°C (–40 to 176°F)
Product dimensions	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)
Weight (approximate)	0.43 kg (0.95 lb.)
Color	Gray, black
Warranty	2 years

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory printing, VST
Packaging weight	0.55 kg
Packaging dimensions (H × W × L)	23.5 cm × 7.5 cm × 7 cm
Carton weight	12 kg
Carton dimensions (H × W × L)	39.5 cm × 37 cm × 25.5 cm
Carton quantity	20
EAN-13	0793950406168

Wireless handset for the VS70 system

P/N: VST

Revision

42584

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Website

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Customer support

http://support.flir.com

Shipping information	
UPC-12	793950406168
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wireless four-way articulating camera, focal length 25–60 mm

P/N: VSA4-1M-W

Revision

29700

Last modified

2015-10-16 07:11 UTC+1

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part number	VSA4-1M-W
The new FLIR wireless four-way articulation videoscope cameras for the VS70 allows for inspection of tight, remote, and off-center targets. Use both articulation knobs to control movement of the camera up, down, left, and right to get a complete video or picture for your inspection. These cameras come with an integrated handset that contains power and brightness adjustment buttons. Set your display down or let it hang from the neck strap while you focus on your probe orientation without worrying about cords. Also included are the handy camera tip accessories that allow viewing at a 45° angle (mirror), retrieving a metallic object (magnet), and reduce the likelihood of getting stuck (anti-snag ball).	

General information	
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Wireless maximum range	30 m
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	240 ± 20° manual tip articulation
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	25–60 mm
Field of view	60°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with 10 level options
Lamp type	LED
Adjustable articulation tension	Yes, via manual knob

Power system	
Power requirements	Integrated rechargeable battery

Wireless four-way articulating camera, focal length 25–60 mm

P/N: VSA4-1M-W

Revision

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Website

http://www.flir.com

Customer support

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Power system	
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
IP rating	IP67
Drop test	2 m
Operating ambient temperature	–20 to 70°C (–4 to 158°F)
Operating humidity	95% maximum
Storage temperature:	–20 to 70°C (–4 to 158°F)
Storage humidity	80% maximum

Meter physical data	
Weight	0.88 kg (1.95 lb.)
Dimensions (H × W × L)	82.55 mm × 63.5 mm × 1168.4 mm (3.25″ × 2.5″ × 46″)
Material	PC-ABS
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA4-1M-W, user guide, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.52 kg (3.35 lb.)
Packaging dimensions (H × W × L)	69.8 mm × 361.9 mm x 431.8 mm (2.75″ × 14.25″ × 17″)
Carton weight	7 kg (15.4 lb.)
Carton dimensions	387.4 x 444.5 x 330.2 mm (15.25″ × 17.5″ × 13″)
Carton quantity	4
EAN-13	0793950406182
UPC-12	793950406182
Country of origin	Taiwan
Tariff code	9013909000

Accessories	
Extra camera accessories	VS80-A

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wireless four-way articulating camera, focal length 60 mm to infinity

P/N: VSA4-1-W

Revision

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Website

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Customer support

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Part number	VSA4-1-W
Part description	
The new FLIR wireless four-way articulation videoscope cameras for the VS70 allows for inspection of tight, remote, and off-center targets. Use both articulation knobs to control movement of the camera up, down, left, and right to get a complete video or picture for your inspection. These cameras come with an integrated handset that contains power and brightness adjustment buttons. Set your display down or let it hang from the neck strap while you focus on your probe orientation without worrying about cords. Also included are the handy camera tip accessories that allow viewing at a 45° angle (mirror), retrieving a metallic object (magnet), and reduce the likelihood of getting stuck (anti-snag ball).	

General information	
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Wireless maximum range	30 m
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	240 ± 20° manual tip articulation
Diameter	8 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	60 mm to infinity
Field of view	60°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED
Adjustable articulation tension	Yes, via manual knob

Wireless four-way articulating camera, focal length 60 mm to infinity

P/N: VSA4-1-W

Revision

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Website

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Customer support

http://support.flir.com

Power system	
Power requirements	3.7 V rechargeable lithium polymer
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
IP rating	IP67
Drop test	2 m
Operating ambient temperature	–20 to 70°C (–4 to 158°F)
Operating humidity	95% maximum
Storage temperature	–20 to 70°C (–4 to 158°F)
Storage humidity	80% maximum

Meter physical data	
Weight:	0.88 kg (1.95 lb.)
Dimensions (H × W × L)	82.55 mm × 63.5 mm × 1168.4 mm (3.25″ × 2.5″ × 46″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA4-1-W, user guide, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.52 kg (3.35 lb.)
Packaging dimensions (H × W × L)	69.8 mm × 361.9 mm × 431.8 mm (2.75″ × 14.25″ × 17″)
Carton weight	7 kg (15.4 lb.)
Carton dimensions	387.4 mm × 444.5 mm × 330.2 mm (15.25″ × 17.5″ × 13″)
Carton quantity	4
EAN-13	0793950406199
UPC-12	793950406199
Country of origin	Taiwan
Tariff code	9013909000

Accessories	
Extra camera accessories	VS80-A

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wireless two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with long focus

P/N: VSA2-1-W

Revision

29700

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Website

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Customer support

http://support.flir.com



Part No.	VSA2-1-W

General information	
Short description	Wireless two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with long focus
Comtadible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Comtadible wireless handset	N/A
Comtadible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	65 mm to Inifinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	Integrated rechargable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)

Wireless two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with long focus

P/N: VSA2-1-W

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Environmental data	
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1-W, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400814
UPC-12	793950400814
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wireless two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with macro short focus

P/N: VSA2-1M-W

Revision

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Website

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Customer support

http://support.flir.com



Part No.	VSA2-1M-W

General information	
Short description	Wireless two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with macro short focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	1 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	Integrated rechargable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Wireless two-way 6 mm (0.24″) articulating camera with 1 m (3.3′) probe with macro short focus

P/N: VSA2-1M-W

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Website

http://www.flir.com

Customer support

http://support.flir.com

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-1M-W, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.3 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.2 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400807
UPC-12	793950400807
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wireless two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with long focus

P/N: VSA2-2-W

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part No.	VSA2-2-W

General information	
Short description	Wireless two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with long focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 Yr

Camera specifications	
Articulation	two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m
Focal length	65 mm to inifinity
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	Integrated rechargable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)

Wireless two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with long focus

P/N: VSA2-2-W

Revision

29700

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Environmental data	
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, VSA2-2-W, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.4 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.5 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400852
UPC-12	793950400852
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Wireless two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with short macro focus

P/N: VSA2-2M-W

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com



Part No.	VSA2-2M-W

General information	
Short description	Wireless two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with short macro focus
Compatible main unit	VS70
Integrated handset	Yes
Wireless capabilities	2.4 GHz to main unit
Compatible wireless handset	N/A
Compatible detachable cameras	N/A
Warranty	2 years

Camera specifications	
Articulation	Two-way 240 ± 20° manual tip articulation
Diameter	6 mm
Resolution	VGA (640 × 480 pixels)
Probe length	2 m
Focal length	20–60 mm
Field of view	56°
Imaging sensor	CMOS
Video format	NTSC
Brightness control	Manual with variable options
Lamp type	LED

Power system	
Power requirements	Integrated rechargable battery
Run time	2 hours continuous use
Auto power off	No
Power adapter	100–240 V input/5 V DC output

Wireless two-way 6 mm (0.24″) articulating camera with 2 m (78″) probe with short macro focus

P/N: VSA2-2M-W

Revision

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Website

http://www.flir.com

Customer support

http://support.flir.com

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% maximum
Storage temperature	–40 to 80°C (–40 to 176°F)

Physical data	
Weight	0.43 kg (0.95 lb.)
Dimensions (H × W × L)	190 mm × 70 mm × 63.5 mm (7.5″ × 2.75″ × 2.5″)
Material	PC-ABS, rubber hand grip, nylon strap
Color	Gray, black

Shipping information	
Packaging type	White box with FLIR accessory printing
Packaging contents	White box with FLIR accessory graphic, camera, camera attachments: mirror, anti-snag tip, magnet
Packaging weight	1.4 kg
Packaging dimensions (H × W × L)	43 cm × 37 cm × 7.5 cm
Carton weight	6.5 kg
Carton dimensions (H × W × L)	45 cm × 31 cm × 39 cm
Carton quantity	4
EAN-13	0793950400845
UPC-12	793950400845
Country of origin	TW
Tariff code	9013909000

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

FLIR VP52 Counter Stand

P/N: VP52-standonly

Revision

29700

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Website

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Customer support

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Part Name	VP52 Counter Stand
Part No	VP52-standonly
Description	Counter Stand for 10 VP52, Units not included on stand, Can be used for counter or wall display, some assembly required
Includes	Color Back board, Base with retractable cord and functioning VP52 (batteries included), Four push in snap screws

Product Info	
Assembled Dimensions (L × W × H)	394 × 305 × 486 mm (15.5 × 12 × 19.125 in.)

Shipping Info	
Weights	2.27 kg (5 lb.)
Dimensions (L × W × H)	508 × 305 × 152 mm (20 × 12 × 6 in.)
Carton Quantities	1

Technical support	
Website	http://support.flir.com
E-mail	TMsupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

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