On A320 and A325 (A320G), there are two inputs and two outputs. The two cameras differ in the way these pins can be used.

A320 / A310:

- The state (high or low voltage) on an **input** pin is used to start an event in the camera, for instance set a flag in the image stream or trig an alarm activity.
- The state (high or low voltage) on an **output** pin is controlled by an activity in the camera, for instance by the result of an alarm detection.

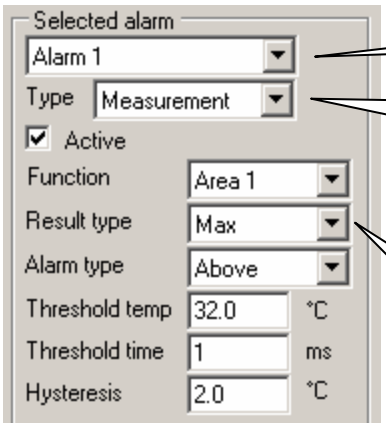
A315, A325 (A320G) & A615:

- The state (high or low voltage) on an **input** pin is used to mark images for use by an application.
- The state (high or low voltage) on an **output** pin is controlled by an application.

I/O data:

Pin	Function	Data
1	IN 1	opto-isolated, 0 - 1.5V = low, 3 - 25 V = high
2	IN 2	opto-isolated, 0 - 1.5V = low, 3 - 25 V = high
3	OUT 1	opto-isolated, ON = supply (max. 100 mA), OFF = open
4	OUT 2	opto-isolated, ON = supply (max. 100 mA), OFF = open
5	Supply VCC	6 - 24 VDC, max 200 mA
6	Supply Gnd	Gnd
NOTE: Cable for digital I/O ports should be max 100m/328 ft.		

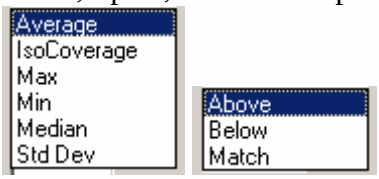
The function of the I/O pins of **A320/A310** can be set up by the software IR Monitor that comes with the camera in the following way.

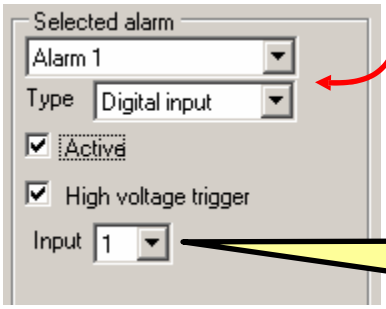


Alarm # 1 - 8

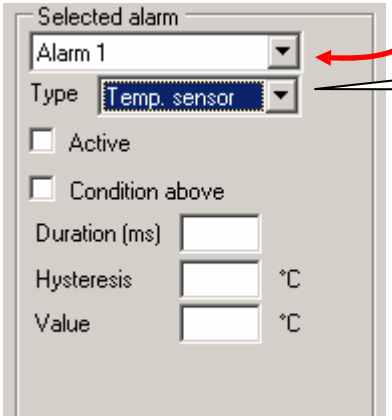
Alarm types:
Measurement result
Digital input
Internal temperature sensor

Measurement types:
Areas, Spots, Internal temperature sensor



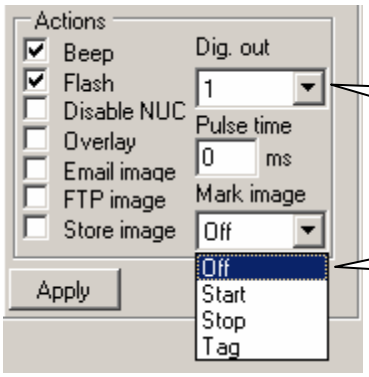


Digital input 1 or 2 selected:
Marked= Alarm on going high (>3V, max 25V)
Unmarked= Alarm on going low (<1.5V, min 0V)



Internal temperature sensor selected:
Alarm on temperature above threshold

Actions on alarm



Digital Out #1 activated: (None, 1 or 2)
Output pulled high on alarm, voltage from external source (pins 5-6). Max 100mA. Pulse time = 0 means that the output is static as long as the alarm condition is met.

The Mark image setting:
On alarm, the image stream is tagged for use by Researcher or other user software. I.e. Dig input alarm can be set up to mark image for recording.