

1 Safety information

Before operating the device, you must read, understand, and follow all instructions, warnings, cautions, and legal disclaimers.

Note Viewport cover must be secured in place when not in use.

Note FLIR Port is intended to be used exclusively with the FLIR 80 degree lens (PN T300805, <https://support.flir.com/resources/app/>) for Exx, T5xx, T8xx cameras.

Note Plexiglas and similar safety barriers directly between the port and the electrical components are non-transmissive to thermal energy and must be removed for effective usage of this product.



DANGER

Risk of electrical shock, burn or explosion.

- Gather all necessary permits prior to installation.
- Remove power to the equipment prior to installation. Verify that power is off using an appropriately rated electrical meter.
- Wear appropriate personal protective equipment (PPE).
- Observe and comply with the requirements of local mandates such as NFPA 70E and CSA Z462.
- Remove extraneous materials and debris from the installation area after power has been switched off.
- It is recommended that the door or panel into which the FLIR Port is to be affixed is removed, thereby allowing the installation to take place remotely, in a safe area.
- Observe that the minimum dielectric clearance requirements are maintained when installing the product.

2 Support

Contact our Technical Support Center if you experience problems or have any questions about your product:

<https://support.flir.com>

3 Installation

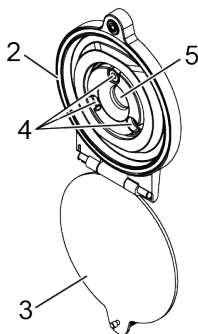
Recommended screw for installation: Stainless steel M4 Socket head screw with hex drive.

Length of the screw: With thread in door, door thickness + 3 mm. With nut and washer on the inside, door thickness + 6 mm. With blind rivet nut through the door, door thickness + 13 mm.

Three potential installation methods are available:

1. Self-tapping screws
2. Machine screws + M4 nut & washer (nylon locking)
3. Blind rivet

3.1 Parts



1. Locking knob
2. Lens port
3. Cover lens port
4. Screw holes
5. Viewing hole

3.2 Procedure

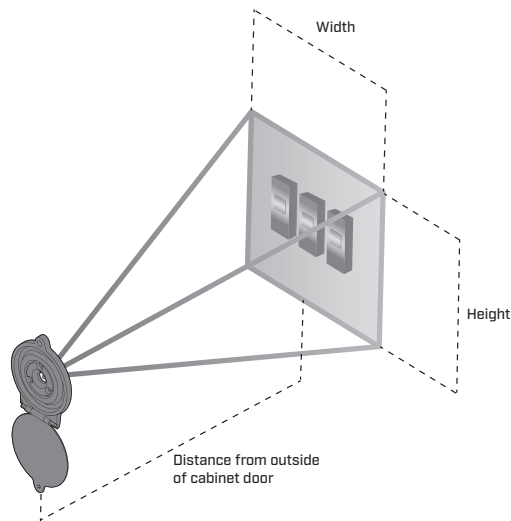
To install the FLIR Port, do the following:

1. Mark the center of the lens port.
2. Drill a hole in the installation surface for the viewing hole. See 3.5 *Drill template*.
3. Drill three holes for the screws (3,5 mm for threaded screws, 4,3 mm for nuts). See 3.5 *Drill template*.

4. Install the frame base with three screws (not included).
Depending on the installation, it is possible to use either threaded holes or with nuts on the inside. See 3 Installation and 3.5 Drill template for measurements of the screw.
5. Tighten the screws.
6. Close the cover lens port.
7. Tighten the locking knob.

3.3 Field of view

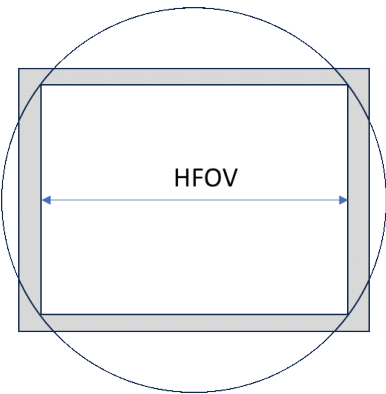
This section describes the total viewing area of the FLIR camera model indicated, using panel thickness of 5.5 mm or less. Camera must include FLIR 80 degree lens designed to mate securely with port (PN T300805).



	Model: E96, T560, T865		Model: E76, T86, T530, T540, T840	
Distance from outside cabinet mm (inch)	Width mm (inch)	Height mm (inch)	Width mm (inch)	Height mm (inch)
100 (3.94)	166 (6.53)	119 (4.69)	171 (6.73)	122 (4.80)
200 (7.87)	333 (13.11)	241 (9.49)	344 (13.54)	248 (9.76)
300 (11.81)	501 (19.72)	363 (14.29)	517 (20.35)	373 (14.69)
400 (15.75)	669 (26.34)	485 (19.09)	690 (27.17)	499 (19.65)

3.4 HFOV

HFOV with different panel thicknesses. Electrical panels may have different thicknesses. Panels that are thicker than 5.5 mm will cause increased blockage of a portion of the camera view as the panel thickness increases. Table 3.4 below provides the resulting horizontal field of view at different panel thicknesses.



	HFOV (°)	
Wall thickness (mm)	Model: E96, T560, T865	Model: E76, T86, T530, T540, T840
5	80	82
5.5	80	82
6	80	81
6.5	79	79
7	78	78
7.5	76	76
8	74	74
8.5	73	73
9	71	71
9.5	70	70
10	68	68
10.5	67	67
11	65	65
11.5	64	64
12	62	62

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For more information and certification please visit <https://support.flir.com/resources/app/>.

3.5 Drill template

Note All measurements are in millimeter.

