Macro lens 2.0x with case

P/N: T300238

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General description
This Macro lens provides 2× magnification compared to the standard 24° lens in Macro mode. It is developed for R&D usage or development purposes, such as looking at PCB's or small electronic components.

Imaging and optical data	
Field of view (FOV)	Depending on the IR resolution of the camera: • 320 x 240: 15.78 mm × 11.83 mm • 384 × 288: 15.78 mm × 11.83 mm • 464 x 348: 15.78 mm × 11.83 mm • 640 x 480: 15.36 mm × 11.52 mm
Magnifying factor	2.0×
Working distance	18 mm (0.71 in)
Depth of field	±0.1 mm
Focal length	17.5 mm (0.69 in)
Spatial resolution (IFOV)	Depending on the IR resolution of the camera: • 320 × 240 pixels: 49 µm/pixel • 384 × 288 pixels: 41 µm/pixel • 464 × 348 pixels: 34 µm/pixel • 640 × 480 pixels: 24 µm/pixel
Lens identification	Automatic
F-number	1.1
Number of lenses	4 (4 asph)
MTF @ 70% of FOV	For 30 cy/mm: 32%
Distortion	< 0.5%

Physical data	
Weight	0.19 kg (0.42 lb)
Size (L × D)	46 × 72 mm (1.8 × 2.83 in)
Front lens diameter	25.4 mm (1.0 in)

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Shipping information	
Packaging, type	Cardboard box
List of contents	• Lens • Lens case • Front lens cap • Rear lens cap • Lens mounting instructions
Packaging, weight	0.450 kg (0.99 lb)
Packaging, size	151 × 125 × 125 mm (5.9 × 4.9 × 4.9 in)
EAN-13	7332558025772
UPC-12	845188021481
Country of origin	Sweden

Compatible with the following products:

- 85900-0000; FLIR A700 Thermal Core
- 85900-1100; FLIR A700 Thermal Core, Optional temperature range
- 85902-0202; FLIR A700 24° Standard Science Kit
- 85903-0202; FLIR A700 24° f/1.0 Standard Science Kit
- 90600-0000; FLIR A500 Thermal Core
- 90600-1100; FLIR A500 Thermal Core, Optional temperature range
- 90610-0202; FLIR A500 24° Standard Science Kit
- 91900-0000; FLIR A400 Thermal Core
- 91900-1100; FLIR A400 Thermal Core, Optional temperature range
- 91902-0202; FLIR A400 24° Standard Science Kit
- 79301-0101; FLIR T530 14°
- 79302-0101; FLIR T530 24°
- 79304-0101; FLIR T530 24° + 14°
- 79306-0101; FLIR T530 24° + 14° & 42°
- 79305-0101; FLIR T530 24° + 42°
- 79303-0101; FLIR T530 42°
- 79307-0101; FLIR T530 42° + 14°
- 79301-0201; FLIR T540 14°
- 79302-0201; FLIR T540 24°
- 79304-0201; FLIR T540 24° + 14°
- 79306-0201; FLIR T540 24° + 14° & 42°
- 79305-0201; FLIR T540 24° + 42°
- 79303-0201; FLIR T540 42°
- 79307-0201; FLIR T540 42° + 14°
- 89001-0101; FLIR T560 14°
- 89002-0101; FLIR T560 24°
- 89004-0101; FLIR T560 24° + 14°
- 89006-0101; FLIR T560 24° + 14° & 42°
- 89005-0101; FLIR T560 24° + 42°
- 89003-0101; FLIR T560 42°
- 89007-0101; FLIR T560 42° + 14°
- 79309-0101; FLIR T530 80°
- 79309-0201; FLIR T540 80°
- 89010-0101; FLIR T560 80°
- 82501-0201; FLIR T840 14°
- 82502-0201; FLIR T840 24°
- 82504-0201; FLIR T840 24° + 14°
- 82506-0201; FLIR T840 24° + 14° & 42°

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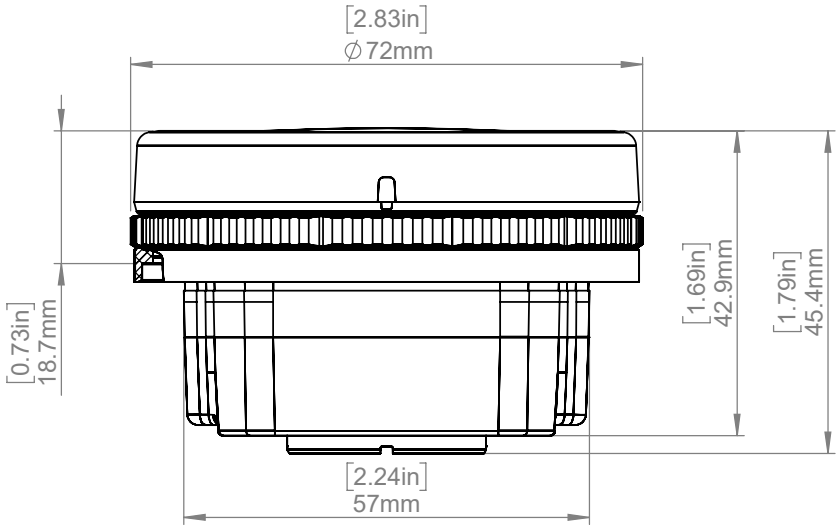
- 82509-0201; FLIR T840 24° + 14° & 6°
- 82505-0201; FLIR T840 24° + 42°
- 82508-0201; FLIR T840 24° + 6°
- 82503-0201; FLIR T840 42°
- 82507-0201; FLIR T840 42° + 14°
- 89201-0101; FLIR T860 14°
- 89202-0101; FLIR T860 24°
- 89204-0101; FLIR T860 24° + 14°
- 89206-0101; FLIR T860 24° + 14° & 42°
- 89211-0101; FLIR T860 24° + 14° & 6°
- 89205-0101; FLIR T860 24° + 42°
- 89210-0101; FLIR T860 24° + 6°
- 89203-0101; FLIR T860 42°
- 89207-0101; FLIR T860 42° + 14°
- 89201-0201; FLIR T865 14°
- 89202-0201; FLIR T865 24°
- 89204-0201; FLIR T865 24° + 14°
- 89206-0201; FLIR T865 24° + 14° & 42°
- 89213-0201; FLIR T865 24° + 14° & 6°
- 89205-0201; FLIR T865 24° + 42°
- 89212-0201; FLIR T865 24° + 6°
- 89203-0201; FLIR T865 42°
- 89207-0201; FLIR T865 42° + 14°
- 82511-0201; FLIR T840 80°
- 89215-0201; FLIR T865 80°

Lens IR f=10mm (42°)

Lens IR f=17mm (24°)

Lens IR f=29mm (14°)

Lens IR Close-Up (2x) B



Modified	Check	Drawn by	
2019-09-30	JOHE	R&D Instruments	FLIR

Denomination

Basic dimensions for lenses T199104, T199105, T199106, T199598

Size	Scale	Sheet
A4	1:1	1(1)

Drawing No.	Rev
T130322	B

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