

P/N: 72001-0101

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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Imaging and optical data	
NETD	100 mK
Field of view	41° × 31°
Minimum focus distance	<ul style="list-style-type: none"> Thermal: 0.15 m (0.49 ft.) MSX: 1.0 m (3.3 ft.)
Focal length	1.54 mm (0.061 in.)
Spatial resolution (IFOV)	11 mrad
F-number	1.1
Image frequency	9 Hz
Focus	Focus free

Detector data	
Focal Plane Array	Uncooled microbolometer
Spectral range	7.5–14 μm
Detector pitch	17 μm
IR sensor size	80 × 60

Image presentation	
Display (color)	<ul style="list-style-type: none"> 3.0 in. 320 × 240 pixels
Display, aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive
Image adjustment (alignment calibration)	Yes

Image presentation modes	
Infrared image	Yes
Visual image	Yes

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Image presentation modes	
MSX	Yes
Gallery	Yes
Measurement	
Object temperature range	-10°C to +150°C (14 to 302°F)
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal.
Measurement analysis	
Spotmeter	On/off
Emissivity correction	Yes; matt/semi-matt/semi-glossy + custom value
Measurements correction	<ul style="list-style-type: none"> Emissivity Reflected apparent temperature
Set-up	
Color palettes	<ul style="list-style-type: none"> Iron Rainbow Rainbow HC Gray
Set-up commands	Local adaptation of units, language, date and time formats
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simpl. Chinese, Spanish, Swedish, Trad. Chinese, Turkish.
Lamp	
Output power	0.85 W
Field of view	60°
Service functions	
Camera software update	Using FLIR Tools
Storage of images	
Storage media	Internal memory store at least 500 sets of images
Image file format	<ul style="list-style-type: none"> Standard JPEG 14-bit measurement data included
Video streaming	
Non-radiometric IR video streaming	Yes
Visual video streaming	Yes
Digital camera	
Digital camera	640 × 480 pixels
Digital camera, focus	Fixed focus

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Data communication interfaces	
USB, connector type	USB Micro-B: Data transfer to and from PC
USB, standard	USB 2.0

Power system	
Battery type	Rechargeable Li-ion polymer battery
Battery voltage	3.7 V
Battery operating time	2 h
Charging system	Charged inside the camera
Charging time	1.5 h
External power operation	<ul style="list-style-type: none"> AC adapter, 90–260 VAC input 5 V output to camera
Power management	Automatic shut-down

Environmental data	
Operating temperature range	–10°C to +50°C (14 to 122°F)
Storage temperature range	–40°C to +70°C (–40 to 158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles
Relative humidity	95% relative humidity +25°C to +40°C (+77°F to +104°F) non condensing
EMC	<ul style="list-style-type: none"> WEEE 2012/19/EC RoHs 2011/65/EC C-Tick EN 61000-6-3 EN 61000-6-2 FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8
Battery regulations	UL 1642
Encapsulation	Camera housing and lens: IP 40 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Physical data	
Weight (incl. Battery)	0.13 kg (0.29 lb.)
Size (L × W × H)	125 × 80 × 24 mm (4.9 × 3.1 × 0.94 in.)
Tripod mounting	No
Housing material	<ul style="list-style-type: none"> PC and ABS, partially covered with TPE Aluminum
Color	Black and gray

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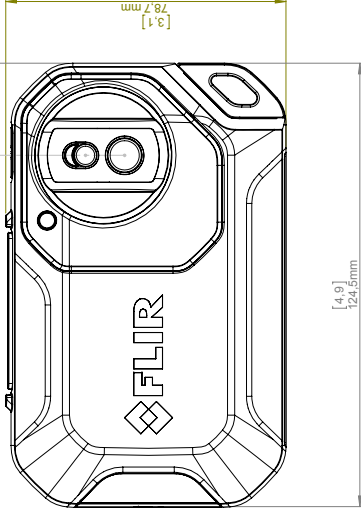
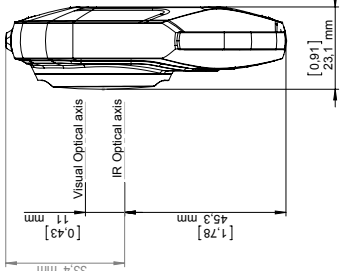
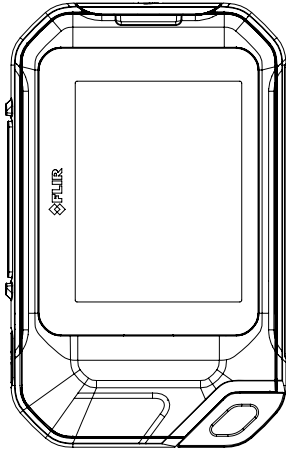
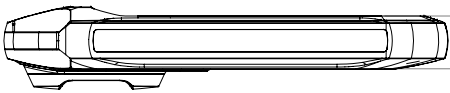
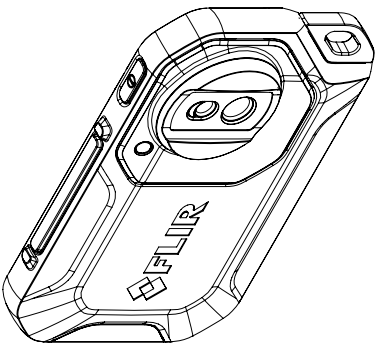
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Shipping information	
Packaging, type	Cardboard box
List of contents	<ul style="list-style-type: none">• Infrared camera• Lanyard• Power supply/charger with EU, UK, US, CN and Australian plugs• Printed documentation• USB cable
Packaging, weight	0.53 kg (1.17 lb.)
Packaging, size	175 × 115 × 75 mm (6.9 × 4.5 × 3.0 in.)
EAN-13	4743254001961
UPC-12	845188010614
Country of origin	Estonia

Supplies & accessories:

- T198532; Car charger
- T198534; Power supply USB-micro
- T198533; USB cable Std A <-> Micro B
- T198584; FLIR Tools
- T198583; FLIR Tools+ (download card incl. license key)
- T199233; FLIR Atlas SDK for .NET
- T199234; FLIR Atlas SDK for MATLAB

Camera with built-in IR lens f=1,54mm



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CE Declaration of Conformity

This is to certify that the System listed below has been designed and manufactured to meet the requirements, as applicable, of the following EU-Directives and corresponding harmonising standards. The systems consequently meet the requirements for the CE-mark.

Directives:

Directive 2004/108/EC:

Electromagnetic Compatibility

Directive 2011/65/EC:

Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS recast)

Standards:

Information technology:

EN 55022

Radio disturbance characteristics - (AC:2011)

Information technology:

EN 55024

Immunity characteristics - (CISPR 24:2010)

RoHS:

EN 50581

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Additional standards:

Emission:

EN 61000-6-3

**Electromagnetic Compatibility
Generic standards - Emission**

Immunity:

EN 61000-6-2

**Electromagnetic Compatibility
Generic standards - Immunity**

System:

FLIR CX-series

FLIR Systems AB
Quality Assurance


Björn Svensson
Director, Quality Assurance