

Part number:

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Legal disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply.

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Imaging and optical data

Field of view (FOV) / Minimum focus distance	45° x 34° / 0.15 m (0.49 ft.)
Spatial resolution (IFOV)	1.23 mrad
Thermal sensitivity/NETD	<40 mK @ +30°C (+86°F)
Image frequency	30 Hz
Focus	Automatic (one shot) or manual
Zoom	1–8x continuous, digital zoom, including panning
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.8–14 μm
IR resolution	640 x 480 pixels

Image presentation

Display	Built-in touch screen, 4.3 in. wide screen LCD, 800 x 480 pixels
Viewfinder	Built-in 800 x 480 pixels
Automatic image adjustment	Continuous/manual; linear or histogram based; possible to lock max, min or span temperature
Manual image adjustment	Level/span/max/min
Image modes	IR-image, visual image, thermal fusion, picture in picture, thumbnail gallery
Thermal fusion	IR image shown above, below or within temp interval on visual image
Picture in Picture	Resizable and movable IR area on visual image

Measurement

Temperature range	–40°C to +150°C (–40°F to +302°F) +100°C to +650°C (+212°F to +1202°F) +300°C to +2000°C (+572°F to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

Measurement analysis

Spotmeter	10
Area	5 boxes or circles with max./min./average
Automatic hot/cold detection	Max/Min temp. value and position shown within box, circle or on a line
Isotherm	Above/below/interval
Profile	1 live line
Measurement presets	Yes
Difference temperature	Delta temperature between measurement functions or reference temperature
Reference temperature	Manually set

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Measurement analysis

Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission, atmospheric transmission and external optics

Set-up

Color palettes	Iron, Gray, Rainbow, Arctic, Lava, Rainbow HC
Set-up commands	Configure information to be shown in image; programmable button; local adaptation of units, language, date and time formats, camera software update
Camera software update	Use PC software FLIR Tools

Storage of images

Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	IR/visual images, simultaneous storage of IR and visual images. Visual and IR image automatically grouped together.

Image annotations

Voice	60 seconds (via Bluetooth) stored with the image
Text	Select text from predefined list, editable in camera or type direct on soft keyboard on touch screen
Sketch	From touch screen
Meterlink	Wireless connection (Bluetooth®) to: Extech Moisture Meter MO297 Extech Clamp Meter EX845
Report generation	<ul style="list-style-type: none"> Instant Report (*.pdf file) in camera Separate PC software with extensive report generation

Video recording in camera and streaming to PC

Non-radiometric IR-video recording	MPEG-4 to memory card
Non-radiometric IR-video streaming	MPEG4 using USB or Wi-Fi

Digital camera

Built-in digital camera	5 Mpixel with LED light
Digital camera video recording	MPEG-4 to memory card
Digital camera video streaming	MPEG4 using USB or Wi-Fi

Laser pointer

Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image

Data communication interfaces

Interfaces	USB-mini, USB-A, Bluetooth, Wi-Fi, Digital Video Output
Bluetooth	Communication with headset and external sensors
Wi-Fi	Wireless communication between camera and external device
USB	<ul style="list-style-type: none"> USB-A: Connect external USB device USB Mini-B: Data transfer to and from PC / streaming
Video out	Digital Video Output (DVI)
Video, connector type	HDMI compatible

Power system

Battery	Li Ion, 3 hours operating time
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Power management	Automatic shutdown and sleep mode (user selectable)

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Environmental data

Operating temperature range	-15°C to +50°C (+5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F 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
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

Physical data

Weight	1.35 kg (2.97 lb.)
Size (L x W x H)	143 x 195 x 95 mm (5.6 x 7.7 x 3.7 in.)
Tripod mounting	UNC ¼"-20

Scope of delivery

- Hard transport case
- Infrared camera with lens
- Battery (2 ea.)
- Battery charger
- Bluetooth headset
- Calibration certificate
- FLIR Tools™ PC software CD-ROM
- HDMI-DVI cable
- HDMI-HDMI cable
- Large eyecap
- Lens caps
- Memory card with adapter
- Neck strap
- Power supply, incl. multi-plugs
- Printed Getting Started Guide
- Printed Important Information Guide
- Tripod adapter
- USB cable, Std A to Mini-B
- User documentation CD-ROM
- Warranty extension card or Registration card