

Part number:

**49001-2301**

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**Test and Measurement Instruments C.C.**

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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.

Information and equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited.

**Imaging and optical data**

IR resolution	240 × 180 pixels
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Field of view (FOV) / Minimum focus distance	25° × 19° / 0.4 m (1.31 ft.)
Spatial resolution (IFOV)	1.82 mrad
Image frequency	60 Hz
Focus	Manual
Zoom	1–4× continuous, digital zoom, including panning
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 μm

**Image presentation**

Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
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	Scalable IR area on visual image

**Measurement**

Object temperature range	–20°C to +120°C (–4°F to +248°F) 0°C to +650°C (+32°F to +1202°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

**Measurement analysis**

Spotmeter	3
Area	3 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Isotherm	Detect high/low temperature/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission

**Set-up**

Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats



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<b>Set-up</b>	
Languages	21
<b>Storage of images</b>	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	IR/visual images; simultaneous storage of IR and visual images
<b>Image annotations</b>	
Text	Text from predefined list or soft keyboard on touch screen
Report generation	<ul style="list-style-type: none"> <li>Separate PC software with extensive report generation</li> </ul>
<b>Video recording in camera</b>	
Non-radiometric IR-video recording	MPEG-4 to memory card
<b>Video streaming</b>	
Radiometric IR-video streaming	Full dynamic to PC using USB
Non-radiometric IR-video streaming	Uncompressed colored video using USB
<b>Digital camera</b>	
Built-in digital camera	3.1 Mpixel (2048 × 1536 pixels), and one LED light
Built-in digital lens data	FOV 53° × 41°
<b>Laser pointer</b>	
Laser	Activated by dedicated button
Laser alignment	Position is automatic displayed on the IR image
<b>Data communication interfaces</b>	
Interfaces	USB-mini, USB-A, composite video
USB	<ul style="list-style-type: none"> <li>USB-A: Connect external USB device</li> <li>USB Mini-B: Data transfer to and from PC / Uncompressed colored video</li> </ul>
Video out	Composite
<b>Power system</b>	
Battery	Li Ion, 4 hours operating time
Charging system	In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
Charging temperature	0°C to +45°C (+32°F to +113°F)
Power management	Automatic shutdown and sleep mode (user selectable)
<b>Environmental data</b>	
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
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2 (Immunity)</li> <li>EN 61000-6-3 (Emission)</li> <li>FCC 47 CFR Part 15 B (Emission)</li> </ul>
Encapsulation	IP 54 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)
Drop	2 m (6.6 ft.)
Safety	EN/UL/CSA/PSE 60950-1
<b>Physical data</b>	
Camera weight, incl. battery	0.825 kg (1.82 lb.)

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#### Physical data

Camera size (L x W x H)	246 x 97 x 184 mm (9.7 x 3.8 x 7.2 in.)
Tripod mounting	UNC ¼"-20 (adapter needed)

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#### Shipping information

- Hard transport case
  - Infrared camera with lens
  - Battery
  - Calibration certificate
  - Camera lens cap
  - Downloads brochure
  - FLIR Tools software CD-ROM
  - Handstrap
  - Memory card
  - Power supply, incl. multi-plugs
  - Printed Getting Started Guide
  - Printed Important Information Guide
  - Service & training brochure
  - USB cable
  - User documentation CD-ROM
  - Video cable
  - Warranty extension card
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