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Technical Data FLIR E30bx

Part number:

49001-1701

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Customer support

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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

Imaging and optical data	
Field of view (FOV) / Minimum focus distance	25° × 19° / 0.4 m (1.31 ft.)
Spatial resolution (IFOV)	2.72 mrad
Thermal sensitivity/NETD	< 0.1°C @ +30°C (+86°F) / 100 mK
Image frequency	60 Hz
Focus	Manual
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 μm
IR resolution	160 x 120 pixels
Image presentation	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image modes	IR image, thumbnail gallery
Measurement	
Object temperature range	-20°C to +120°C (-4°F to +248°F)
Accuracy	$\pm 2^{\circ}$ C ($\pm 3.6^{\circ}$ F) or $\pm 2\%$ of reading
Measurement analysis	
Spotmeter	1
Area	Box with max./min./average
Automatic hot/cold detection	Auto hot or cold spotmeter markers within area
Isotherm	Detect high/low temperature/interval
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
Measurement corrections	Reflected temperature, optics transmission and atmospheric transmission
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
Set-up	
Color palettes	Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC
Set-up commands	Local adaptation of units, language, date and time formats
Languages	21
Storage of images	
Image storage	Standard JPEG, including measurement data, on memory card
Image storage mode	IR images



FLIR E30bx

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Report generation	Separate PC software with extensive report generation
Laser pointer	
Laser	Activated by dedicated button
Data communication interfaces	
Interfaces	USB-mini, USB-A, composite video
USB	 USB-A: Connect external USB device USB Mini-B: Data transfer to and from PC
Video out	Composite
Power system	
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)
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	
Camera weight, incl. battery	0.825 kg (1.82 lb.)
Camera size $(L \times W \times H)$	246 × 97 × 184 mm (9.7 × 3.8 × 7.2 in.)
Tripod mounting	UNC 1/4"-20 (adapter needed)

Scope of delivery

- Hard transport case Infrared camera with lens

- Infrared camera with lens
 Battery
 Calibration certificate
 Camera lens cap
 FLIR Tools software CD-ROM
 Handstrap
 Memory card
 Power supply, incl. multi-plugs
 Printed Getting Started Guide
 Printed Important Information Guide
 USB cable
 User documentation CD-ROM
 Video cable
 Warranty extension card or Registration card



The **sheath fault location system** with **bi-polar measuring** voltage method – easy, precise and fast

Special features

- Testing, prelocation and pinpointing of sheath faults
- Voltage up to ±10 kV DC
- High current of up to 750 mA
- Only one HV connection cable
- Automatic measurement and protocolling

Description

The intuitive menu-driven operation of the **MFM 10** with fully automatic measurement and evaluation enables the testing of cable sheaths as well as the prelocation and pinpointing of cable sheath faults in the most simple way possible.

The entry of data is done according to the well-proven SebaKMT rotary encoder principle and is supported by a touch screen.

The very powerful 10 kV DC source with positive and negative polarity allows the testing of HV cables. The bi-polar function ensures the elimination of external thermoelectric and galvanic influences. A multi-section facility permits the entry of cable segments with different parameters.

The available high current of up to 750 mA enables also the "burning" of difficult cable faults.

Integrated protocolling feature in combination with the approved Easyprot Software for an easy and reliable test generation.









For more informations please visit www.sebakmt.com/mfm10



Technical data

Functions	Testing, prelocation and pinpointing, burning, direct resistance measurement, voltage and current limiter, quick event/transient recognition
Display	5.7" 320 x 240; LCD, LED backlight
User interface	Rotary encoder & touch screen
Output voltage	0 10 kV DC, bipolar
Output current	750 mA@ 0.4 kV, 200 mA@ 0.4 1.5 kV 60 mA@ 5 kV, 30 mA@ 10 kV
Pinpointing	0 10 kV DC pulsed
Pulse rates	0.5:1; 1:2; 1.5:0.5; 1.5:3.5 4.8 Hz for the use with A-Frame
Accuracy	±0,1%
Audio frequency (option)	8.44 kHz, 15 W
Protocolling	Easyprot via USB stick
Mains supply	88264 V, 5060 Hz, 800 VA
Battery	NIMH, 340 Wh, for all operations
DC supply	12 V 24 V DC / charge only
Max. discharge capacity	10 μF
Operation conditions	-25 °C +55 °C, 93% rel. humidity
Dimensions	500 x 457 x 305 mm
Weight	25 kg including cable
Protection class	IP53, with lid closed

Scope of delivery

- » MFM 10
- » Set of connection cables
- » USB stick with Easyprot Software
- » Accessory bag



All features at a glance

- » Solid IP53 PELI trolley case easy handling
- » Wide range input for all supply voltages
- » Powerful rechargeable battery
- » Improved prelocation with voltage drop method
- » Highest accuracy by bi-polar measurement
- » Independent from the resistance of supplementary wires and test leads
- » Very fast and fully automatic measurement
- Detection, storage and indication of fast events
- » Protocolling by Easyprot Software
- » Burning
- » Slim HV connector and just one cable
- » Detection of correct hook-up to cable under test
- Fault locating of high-resistive faults inside cables
- » Integrated discharge
- » Graphical display of voltage and current
- » Detection of multiple faults
- » Very fast pulse rate of 0.5:1 in connection with the ESG NT

Options

- » 19" version for vehicle installation (no battery)
- » ESG NT earth fault probe for DC step voltage
- » 10 m HV connection cable
- » Connection clamps for large terminals
- » Audio frequency option



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OUR COMMITMENT TO YOU

A wealth of knowledge and experience.

You can take advantage of expert advice to ensure you get the best, most appropriate and cost effective equipment for the job. We supply a wide variety of industries, so if there is another way to do the job or save you time and money we'll pass on the benefit of our experience for free.

Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and well-maintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

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1 GUARANTEE SAME DAY DESPATCH

We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

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Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

For full details check our price-match quarantee online

3 TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

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*subject to availability and conditions

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