



FLIR C2

Powerful, Compact Thermal Imaging System

The FLIR C2 is the world's first full-featured, pocket-sized thermal camera designed for building industry experts and contractors. Keep it on you so you're ready anytime to find hidden heat patterns that signal energy waste, structural defects, plumbing issues and more. The C2's must-have features include MSX® real time image enhancement, high sensitivity, a wide field of view, and fully radiometric imagery to clearly show where problems are and verify the completion of repairs.

Pocket Portable.

Keep it on you and at your side, ready for immediate use so you don't miss an opportunity

- Light, slim profile fits comfortably in any work pocket
- Brilliant 3" intuitive touch screen with auto orientation for easy viewing
- Built-in LED spotlight you can use as a flashlight and for photo illumination

Fully Radiometric.

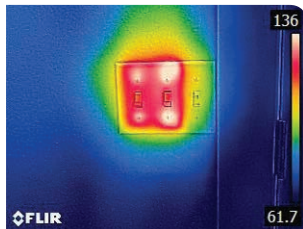
Save thermal image JPEGs instantly, then conveniently adjust and analyze them later with FLIR Tools to isolate temperature measurements on any pixel and create convincing reports

- MSX-enhanced thermal images provide stunning detail to help you identify problem areas easier
- Radiometric image stores 4800 pixels capable of capturing thermal measurements from -10°C to 150°C
- A wide FOV frames what pros need to see and high thermal sensitivity detects subtle temperature differences common in building applications

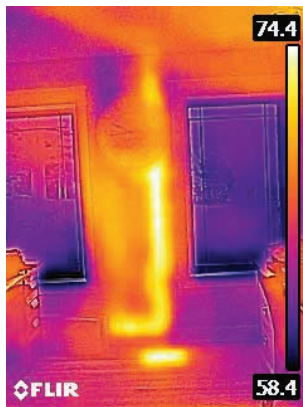
Easily Affordable.

Sub-\$700 MSRP fits everyone's budget to help put this powerful tool into the hands of more people who can really use it

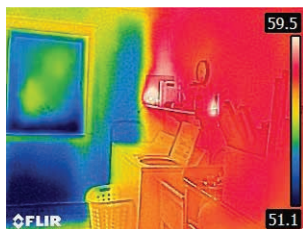
- FLIR Tools professional reporting software included – the industry standard in thermal image post analysis
- Streaming video via FLIR Tools, a feature not usually available on low-cost thermal camera systems
- FLIR's unique 2-10 warranty, covering parts and labor for two years and the detector for ten



Hot Overloaded Dimmer Switch



Warm Drain Pipe in Wall



Uninsulated Outside Wall

Imaging Specifications

Imaging and Optical Data	
IR sensor	80 × 60 (4,800 measurement pixels)
Thermal Sensitivity	<0.10°C
Field of view	41° × 31°
Minimum focus distance	Thermal: 0.15 m (0.49 ft.) MSX: 1.0 m (3.3 ft.)
Image frequency	9 Hz
Focus	Focus free
Spectral range	7.5–14 μm
3" Display (color)	320 × 240 pixels
Auto orientation	Yes
Touch screen	Yes, capacitive
Image presentation modes	
Thermal image	Yes
Visual image	Yes
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; matte/semi/glossy + user set
Measurements correction	Reflected apparent temperature Emissivity
Set-up	
Color palettes	Iron, Rainbow, Rainbow HC, Gray
Storage media	Internal memory stores at least 500 sets of images
Image file format	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
Additional Information	
USB, connector type	USB Micro-B: Data transfer to and from PC, iOS and Android
Battery	3.7 V Rechargeable Li-ion polymer battery
Battery operating time	2 h
Charging system	Charged inside the camera
Charging time	1.5 h
External power operation	AC adapter, 90–260 VAC input 5 V output to camera
Power management	Automatic shut-down
Operating temperature range	-10°C to +50°C (14 to 122°F)
Storage temperature range	-40°C to +70°C (-40 to 158°F)
Weight (incl. Battery)	0.13 kg (0.29 lb.)
Size (L × W × H)	125 × 80 × 24 mm (4.9 × 3.1 × 0.94 in.)
System Includes	
Infrared camera Battery (inside camera) Lanyard Power supply/charger with EU, UK, US, CN and Australian plugs Printed Getting Started Guide USB memory stick with documentation USB cable	



Covers parts and labor for two years and the detector for ten.



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Part number:
63901-0101

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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

IR resolution	80 × 60 pixels
MSX resolution	320 × 240 pixels
Thermal sensitivity/NETD	<0.15°C (0.27°F) / <150 mK
Field of view (FOV)	45° × 34°
Minimum focus distance	0.5 m (1.6 ft.)
Spatial resolution (IFOV)	10.3 mrad
Image frequency	9 Hz
Focus	Focus free

Detector data

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm

Image presentation

Display	3.0 in. 320 x 240 color LCD
Image adjustment	Automatic adjust/lock image

Image presentation modes

Image modes	IR image, visual image, MSX, thumbnail gallery
Multi Spectral Dynamic Imaging (MSX)	IR image with enhanced detail presentation

Measurement

Object temperature range	-20°C to +250°C (-4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F) and object temperature above +0°C (+32°F)

Measurement analysis

Spotmeter	Center spot
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

Set-up

Color palettes	Black and white, iron and rainbow
Set-up commands	Local adaptation of units, language, date and time formats

P/N: 63901-0101

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Storage of images	
Image storage capacity	Internal memory store at least 500 sets of images
Image storage mode	Simultaneous storage of images in IR, visual and MSX
File formats	Standard JPEG, 14-bit measurement data included
Data communication interfaces	
Interfaces	USB Micro: Data transfer to and from PC and Mac device
Power system	
Battery type	Rechargeable Li Ion battery
Battery voltage	3.7 V
Battery operating time	Approx. 4 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera or in specific charger.
Charging time	2.5 hours to 90% capacity in camera. 2 hours in charger.
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera
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
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
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.)
Physical data	
Camera weight, incl. battery	0.575 kg (1.27 lb.)
Camera size (L x W x H)	244 x 95 x 140 mm (9.6 x 3.7 x 5.5 in.)
Color	Black and gray
Certifications	
Certification	UL, CSA, CE, PSE and CCC
Shipping information	
Packaging, type	Hard case
	<ul style="list-style-type: none"> • Infrared camera • Hard transport case • Battery (inside camera) • USB cable • Power supply/charger with EU, UK, US and Australian plugs • User documentation CD-ROM • Printed documentation • FLIR Tools download card
Packaging, weight	2.7 kg (5.95 lb.)
Packaging, size	303 x 206 x 128 mm (11.9 x 8.1 x 5.0 in.)
EAN-13	4743254000995
UPC-12	845188004941
Country of origin	Estonia



FLIR MR160

Imaging Moisture Meter

The FLIR MR160 Imaging Moisture Meter is the *first of its kind*. Equipped with a built-in thermal camera, MR160 is the *only* moisture meter with the power to show you exactly where to measure.

Featuring **Infrared Guided Measurement (IGM™)** technology, the MR160 helps you quickly scan and target moisture issues, visually guiding you to the spot where you can confidently take measurements and analyze readings.

An integrated pinless sensor and an external pin probe provide the flexibility to take either intrusive or non-intrusive measurements. Built tough with an industry-leading warranty, the MR160 can serve as your go-to troubleshooting tool right out of the box – or as the perfect complement to any high resolution thermal camera you already own – helping you find hidden moisture issues and capture reliable data more efficiently.

IDENTIFY AND VERIFY WITH ONE TOOL.

First-ever thermal imaging moisture meter

- 80 x 60 Lepton® thermal imager powers IGM technology
- Document thermal images and moisture readings on one screen
- Review images and generate reports with free FLIR Tools software

TROUBLESHOOT QUICKLY.

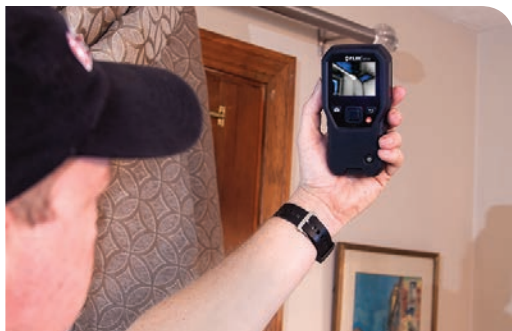
Easily investigate insulation and moisture issues

- Pinless technology for fast non-intrusive measurements
- External pin probe included for contact moisture measurements
- Easy targeting with laser pointer and display cross-hairs

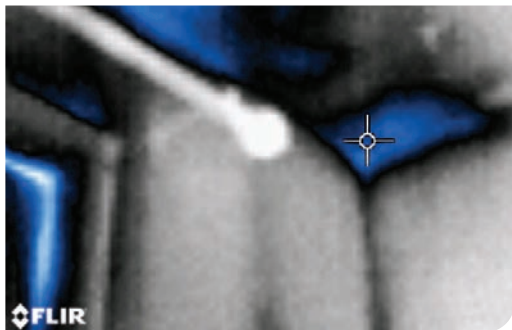
PORTABLE, TOUGH AND DURABLE.

Drop tested rugged design

- Industry-leading warranty
- Small form factor to conveniently carry with you
- Internal rechargeable battery with USB



Scanning ceiling & wall joint for moisture issues



IGM technology shows you cold spots, guiding you where to measure

Specifications

FLIR MR160: Imaging Moisture Meter	
Imaging detector	FLIR Lepton® microbolometer focal plane array
Shutter	Integrated automatic shutter for auto flat field correction
Thermal image resolution (W x H)	4800 pixels (80 x 60)
Spectral response	8–14µm
Field of view (W x H)	51° x 38°
Sensitivity	<150mK
Image update speed frequency	9 Hz
Thermal image palettes	Ice
Thermal image minimum focus distance	10cm (4")
Moisture Measurement	
Pin moisture via external probe range (accuracy)	0–100% WME (± 5%)
Pin moisture groups	9 material groups
Pinless moisture range	0–100 relative measurement
Pinless Measurement Depth	0.75" (19mm) Max
Measurement resolution	0.1
Response time pinless	100ms
Response time pin mode	750ms
General information	
Display (W x H)	QVGA (320 x 240 pixel) 2.3" 64k color TFT
Saved image file format	BMP with measurement values overlaid
Stored image capacity	9999 images
Laser orientation	Single laser pointer to center of thermal image
Power requirements	Integrated rechargeable battery
Battery power - continuous run time	18 hours max
Battery power - typical usage	4 work weeks*
Battery	3.7 V, 3000 mAh Li-ion rechargeable via micro USB
Drop Test	9.8' (3m)
Certification standards	EN61326 (EMC), EN61010 (battery + charger), EN60825-1 class 2 (Laser)
Agency approvals	FCC class B, CE, UL
Warranty	2 Yr Product, 10 Yr Imager / Detector**

*See FAQs at flir.com/MR160

** Register within 60 days of purchase at www.flir.com/testwarranty



Ordering Information	UPC	EAN
MR160	793950371602	0793950371602
MR05 Impact pin probe	793950370056	0793950370056
MR10 Protective case	793950370117	0793950370117
MR05-PINS1	793950371053	0793950371053
MR05-PINS2 (wide)	793950372050	0793950372050



MR02 Pin Probe included

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The World's Sixth Sense™