



WHAT DO YOU NEED TO MEASURE?

FLIR delivers world-class thermal cameras and test & measurement tools with the accuracy, reliability, and versatility you need to tackle your most challenging jobs.



“Our FLIR camera has contributed significantly to better safety and increased production in our facility. It has become a major part of our condition monitoring program.”

— Scott Myers, Reliability Technician, Tate & Lyle
Source: TechValidate TVID: BF7-504-768

“FLIR gave us the ability to be more marketable and to provide services for clients, who were at the time, using other less qualified contractors for their imaging needs.”

— Jeffrey Wayment, Electrician, Electric 1 West
Source: TechValidate TVID: 3F5-D23-154

“With FLIR, the ability to show clients heating or cooling losses is an effective way to prove value.”

— Energy Auditor, Small Business Professional Services Company
Source: TechValidate TVID: ADF-642-371

“FLIR products have helped us by providing some of the best diagnostic equipment to reduce our customers’ down time and expensive repairs.”

— Electrician, Small Business Professional Services Company
Source: TechValidate TVID: 480-62C-A7E



Our exclusive IGM technology is centered around the FLIR Lepton® thermal camera core. The compact, low-cost Lepton gives us the ability to develop new, highly-efficient test and measurement products that integrate powerful thermal imaging — a capability that helps you instantly see excessive heat, so you can pinpoint the location of potential problems, take measurements, and solve problems faster than ever.



NEW PRODUCTS



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FLIR Ex-XT

The new FLIR Ex-XT cameras bring powerful resolution and temperature measurement features to the outstanding line of FLIR Ex-Series cameras. With up to 76,800 IR pixels and wide temperature ranges — -20°C to 550°C/-4°F to 1022°F — plus Wi-Fi and MSX® thermal imaging detail, the new Ex-XT models are the troubleshooting tools you need for building, electrical, and mechanical applications.



p.8

FLIR T840

A bright idea for bright conditions: the FLIR T840 thermal imaging camera has a brilliant color viewfinder with soft eyecup for conducting outdoor inspections. This camera also features a 180° rotating lens platform and thoughtful ergonomic design to help users quickly diagnose failing components in hard-to-reach areas.



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FLIR VT8-600/VT8-1000

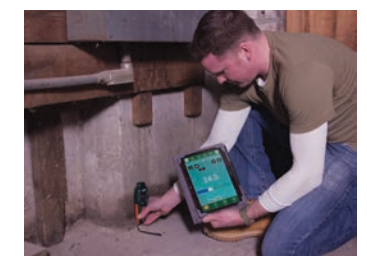
High-quality voltage, continuity, and current tester, ideal for electricians and service technicians who troubleshoot and verify electrical installations or systems within commercial and light industrial facilities. The FLIR VT8's optimized and open-jaw design allows it to fit into tight spaces and reliably measure large-diameter cables. Extensive measurement features make the FLIR VT8 a versatile tool — just one meter can get the job done.



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EXTECH M055W

Wireless Datalogging Pin/Pinless Moisture Meter. Using the wireless feature, Bluetooth® Datalogging Module, and the free ExView® W-Series App, you can transmit readings in real-time to your iOS® and Android™ devices for remote viewing and store over 15K readings.



FLIR ONE[®] Pro-Series Thermal Imaging Camera Attachments

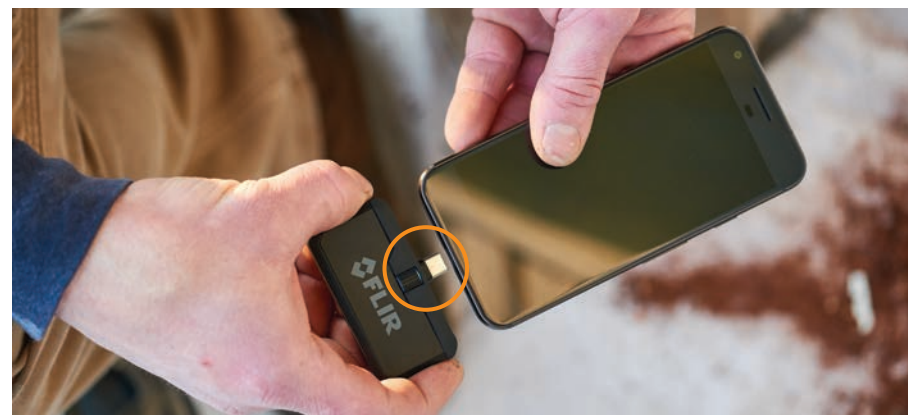
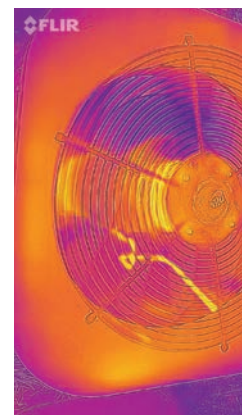
The FLIR ONE Pro-Series gives you the power to find invisible problems faster than ever. With robust features such as multiple temperature meters and level/span controls, the FLIR ONE Pro and FLIR ONE Pro LT work as hard as you do. The revolutionary VividIR™ image processing helps you see more details, FLIR MSX[®] adds sharpness and perspective, and the FLIR OneFit™ adjustable connector extends up to 4 mm to fit many popular protective cases. Whether you're inspecting electrical panels, looking for HVAC problems, or finding water damage, FLIR ONE Pro-Series camera are tools no serious professional should be without.

Key Features:

- Identify problem areas easier with the added detail and perspective from FLIR MSX
- Record stunningly crisp imagery and fine detail through VividIR advanced image processing
- Work anywhere with confidence thanks to the ruggedized drop-resistant design
- Fits with most popular phone cases using OneFit adjustable connector
- Measure the temperature of any spot in a scene up to 400°C/752°F (FLIR ONE Pro only) and detect temperature differences as small as 0.07°C/0.13°F (FLIR ONE Pro only)
- Share thermal images and videos to the social media platform of your choice through one-touch reporting
- Explore additional features such as FLIR ONE Panorama™, FLIR ONE TimeLapse™, and FLIR ONE CloseUp™ functions



SPECIFICATIONS	FLIR ONE PRO LT	FLIR ONE PRO
IR resolution	80 × 60 (4,800 pixels)	160 × 120 (19,200 pixels)
Thermal sensitivity	100 mK	70 mK
Object temperature range	-20°C to 120°C (-4°F to 248°F)	-20°C to 400°C (-4°F to 752°F)
HFOV/VFOV	55° ±1° / 43° ±1°	
Accuracy	±3°C (±5.4°F) or ±5%, typical percent of the difference between ambient and scene temperature.	
Focus	Fixed 15 cm - Infinity	
Frame rate	8.7 Hz	
Battery life	1 hour	
Charging	Female micro USB-C (5 V 1 A)	
Interface	Lightning (iOS), USB-C, and micro USB (Android™)	



OneFit adapts your FLIR ONE Pro-Series camera to fit with almost any phone case.

flir.com/flironepro

FLIR C2 and FLIR C3 Full-Featured, Pocket-Sized Thermal Cameras

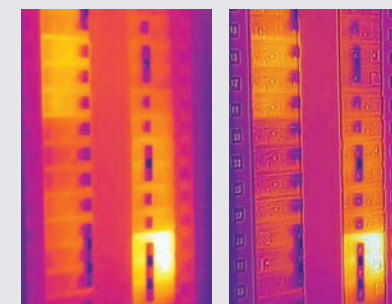
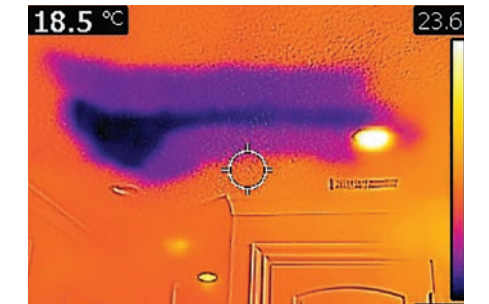
The FLIR C2 and C3 are your go-to tools for building inspections, facilities maintenance, HVAC, or electrical repair. The C2 includes MSX[®] real-time image enhancement, high sensitivity, a wide field of view, and fully radiometric imagery to clearly show where problems are and verify the completion of repairs. The C3 includes all the features of the C2 plus picture-in-picture, area maximum or minimum temperature measurement, and Wi-Fi connectivity so you can quickly get to the job of finding hidden problems, sharing images, and documenting repairs. No matter which you choose, you'll be ready anytime to find hot fuses, cold air leaks, plumbing issues, and more.

Key Features:

- Capture thermal measurements from -10°C to 150°C (14°F to 302°F)
- Pocket Portable: keep it at your side, ready for immediate use so you don't miss an opportunity
- Easy viewing thanks to brilliant 3 in. intuitive touchscreen with auto-orientation
- Isolate temperature measurements on any pixel and create convincing reports using fully-radiometric thermal image JPEGs that are easy to adjust and analyze in FLIR Tools[®]
- Identify problem areas faster using MSX-enhanced thermal images
- Share images with colleagues instantly with Wi-Fi peer-to-peer sharing (C3 only)
- Record picture-in-picture (C3 only)
- Determine hottest or coldest (max./min.) target in the scene with area measurement box (C3 only)



SPECIFICATIONS	FLIR C2	FLIR C3
IR resolution	80 × 60 (4,800 pixels)	
Thermal sensitivity	<0.10°C	
Field of view	41° × 31°	
Object temperature range	-10°C to 150°C (14°F to 302°F)	
Accuracy	±2°C (±3.6°F) or 2%, whichever is greater, at 25°C (77°F) nominal	
Frame rate	9 Hz	
Focus	Focus-free	
Picture-in-picture	–	IR area on visual image
Area	–	Box with max. or min.
Wi-Fi	–	Standard 802.11 b/g/n



Breaker Panel without MSX

Breaker Panel with MSX

What is MSX?

Patented MSX Image Enhancement Improves Clarity, Speeds Diagnosis

Multi-Spectral Dynamic Imaging (MSX) adds visible definition to IR images by detecting the edges of objects and including that detail in the thermal image. Text becomes clearly visible so that you can read a label or identifier within the IR image. This exclusive function provides extraordinary thermal detail that instantly highlights and orients problem locations and eliminates the need to refer to a visual image for detail.

flir.com/c2 • flir.com/c3

FLIR Ex-Series with Wi-Fi and MSX® Enhancement

The newest additions to the FLIR Ex-Series offer the thermal resolution you need to troubleshoot abnormally-high temperatures in electrical systems, locate structural issues, find energy waste, and much more. The E5-XT, E6-XT, and E8-XT boast an expanded temperature range — up to 550°C (1022°F) — and improved resolution compared with earlier Ex-Series models. With MSX® technology for extraordinary detail and Wi-Fi connectivity to smartphones and tablets via the FLIR Tools® Mobile app, the Ex-Series cameras help you make critical decisions easily.

Key Features:

- Easy to use with simple button navigation
- Record radiometric JPGs that are easy to share with clients
- Upload thermal photos instantly over Wi-Fi via the FLIR Tools® Mobile app
- Diagnose faults faster with the help of stunning MSX images
- Rely on the temperature measurements accuracy of ±2°C (±3.6°F) or ±2% of reading
- Fully automatic and light weight — only 575 g (1.2 lbs)
- Work longer thanks to the swappable Li-ion battery with 4-hour life
- On-board 640 × 480 digital camera provides visual, MSX, and picture-in-picture images



SPECIFICATIONS	FLIR E4	FLIR E5-XT	FLIR E6-XT	FLIR E8-XT
IR resolution	80 × 60 (4,800 pixels)	160 × 120 (19,200 pixels)	240 × 180 (43,200 pixels)	320 × 240 (76,800 pixels)
Thermal sensitivity	<0.15°C (0.27°F) / <150 mK	<0.10°C (0.27°F) / <100 mK	<0.06°C (0.11°F) / <60 mK	<0.05°C (0.09°F) / <50 mK
Object temperature range	-20°C to 250°C (-4°F to 482°F)	-20°C to 400°C (-4°F to 752°F) in two ranges	-20°C to 550°C (-4°F to 1022°F) in two ranges	20°C to 550°C (-4°F to 1022°F) in two ranges
Image modes	Thermal MSX, thermal, picture-in-picture, thermal blending, digital camera			
Measurement modes	3 modes: center spot, 1 area box (min/max), isotherm (above/below)			
Frame rate	9 Hz			
Field of view	45° × 34°			
Focus	Focus free			

FLIR E53 Advanced Thermal Imaging Camera (240 × 180 IR Resolution)

The FLIR E53 offers the resolution and sensitivity you need at the right price — making it the perfect entry into the Exx-Series. This camera provides more than 43,200 points of temperature measurement and detects temperature differences as small as <0.04°C for immediate identification of failing components.

Key Features:

- Take accurate readings on smaller targets at farther distances with superior spot-size performance
- Diagnose faster with improved detail and perspective from FLIR's patented MSX® image enhancement
- Measure temperatures up to 650°C (1200°F)
- Activate up to three spotmeters and one area box with max/min temperature display
- Streamline your workflow with customizable folders and simplified report generation
- Instantly improve contrast on your target with 1-Touch Level/Span
- Add voice, text, and sketch annotations
- Upload and share images instantly via Wi-Fi connection to mobile devices running the FLIR Tools® app
- Connect via METERLiNK® to Bluetooth-enabled FLIR Test & Measurement tools

SPECIFICATIONS	FLIR E53
IR resolution	240 × 180 (43,200 pixels)
Thermal sensitivity	<0.04°C @ 30°C
Object temperature range	-20°C to 650°C (-4°F to 1200°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Image frequency	30 Hz
Field of view (FOV)	24° × 18°
Focus	Manual
Image modes	Infrared, visual, MSX®, picture-in-picture
Measurement presets	No measurement, center spot, hot spot, cold spot, 3 spots, hot spot-spot*
Spotmeter	3 in live mode
Area box	1 in live mode
Compass, GPS	Yes; automatic GPS image tagging
Image file format	Standard radiometric JPEG, measurement data included
Video recording	Real-time radiometric recording (.csq); non-radiometric H.264 recording to memory card
Video streaming	Radiometric streaming over UVC or Wi-Fi; non-radiometric H.264 or MPEG-4 over Wi-Fi
Communication interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort

*Hot spot to center spot Delta measurement



flir.com/ex-series • flir.com/e53

FLIR Exx-Series Advanced Thermal Imaging Cameras

FLIR redesigned the Exx-Series from the handle up to deliver the best performance, resolution, and sensitivity of any pistol-grip handheld thermal camera. The new E75, E85, and E95 cameras are packed with features you need for a wide range of electrical, mechanical, and building applications.

The new Exx-Series offers superior sensitivity, up to 161,472 pixel resolution, true 42° field of view, and a vibrant 4 in. LCD in a user-friendly, handheld platform that can detect even subtle indications of electrical faults, building deficiencies, and moisture intrusion.

Key Features:

- Save time and money with interchangeable, auto-calibrating lenses you can share between cameras
- Ensure accurate temperature measurements with laser-assisted autofocus
- Put more pixels on your target from a safe distance with up to 464 × 348 (161,472 pixels) IR resolution
- Add depth and detail to images with our best MSX® image enhancement
- Produce brilliant imagery at 4x the thermal pixel resolution with UltraMax® processing
- Instantly improve contrast for target with 1-Touch Level/Span
- See more clearly thanks to a vibrant 4 in. LCD with 160° viewing angle
- Share images and data quickly with streamlined reporting features
- Work faster thanks to rapid-response touchscreen with intuitive new user interface
- Work safely with convenient menu buttons that allow for one-handed operation
- New folder and naming structure that makes finding images easier
- Connect to mobile devices via Wi-Fi or to FLIR clamps, multimeters and moisture meters via METERLiNK®
- On-screen area measurement
- Wide temperature ranges up to 1,500°C / 2,732°F (E95)



AutoCal™ lenses

SPECIFICATIONS	FLIR E75	FLIR E85	FLIR E95
IR resolution	320 × 240 (76,800 pixels)	384 × 288 (110,592 pixels)	464 × 348 (161,472 pixels)
UltraMax®	307,200 pixels	442,368 pixels	645,888 pixels
Object temperature range	-20°C to 650°C / optional 1000°C (-4°F to 1200°F / 1830°F)	-20°C to 1200°C (-4°F to 2192°F)	-20°C to 1500°C (-4°F to 2732°F)
Laser area measurement (m² or ft²)	No	Yes	Yes
Area box	1 in live mode	3 in live mode	3 in live mode
Thermal sensitivity	<0.03°C @ 30°C †		
Accuracy	±2°C (±3.6°F) or ±2% of reading		
Image frequency	30 Hz		
Field of view (FOV)	24° × 18° (18 mm lens), 42° × 32° (10 mm lens), 14° × 10° (29 mm lens)		
Lens identification	Automatic		
Focus	Continuous, one-shot laser distance meter (LDM), one-shot contrast, manual		
Image modes	Infrared, visual, MSX®, picture-in-picture		
Measurement presets	Center spot, hot spot, cold spot, User Preset 1, User Preset 2		
Spotmeters	3 in live mode		
Laser distance measurement	Yes, on-screen		
Compass, GPS	Yes; automatic GPS image tagging		
Image file format	Standard radiometric JPEG, measurement data included		
Video recording	Real-time radiometric recording (.csq); non-radiometric H.264 recording to memory card		
Video streaming	Radiometric streaming over UVC or Wi-Fi; non-radiometric H.264 or MPEG-4 over Wi-Fi		
Communication interfaces	USB 2.0, Bluetooth, Wi-Fi, DisplayPort		

† With wide-angle lens



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product design



Select FLIR meters communicate with Exx cameras via Bluetooth



Mobile devices communicate with Exx cameras via Wi-Fi

flir.com/exx-series

FLIR T-Series Professional Thermal Imaging Cameras NEW

FLIR T-Series thermal imaging cameras offer outstanding range, resolution, and image clarity paired with the ergonomics professional thermographers need for a full day of inspections. These professional-level cameras offer features such as crisp 640 × 480 thermal imagery (T620/T640/T660) or a 180° rotating optical block (T530/T540/T840). All offer superior sensitivity and state-of-the-art connectivity, so you can find hot spots or potential faults, and report them quickly for immediate repairs.

Key Features:

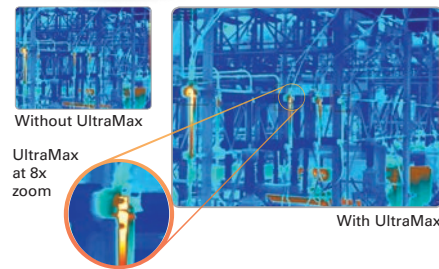
- The best detection, pictures, and temperature measurements with up to 307,200 pixel (640 × 480) IR resolution
- Interchangeable AutoCal™ optics can be shared between T500-Series, the T840, or new Exx-Series models without the need for secondary pairing or factory recalibration
- Add depth and detail to images with MSX® image enhancement
- Ergonomic design provides all-day comfort, so you can scan from tough angles while keeping the display in view
- Simplify manual level and span adjustments with 1-Touch Level/Span (T530/T540/T840)
- Laser-assisted autofocus improves focus and measurement accuracy, provides data for laser distance measurement, and on-screen area measurement (T530/T540/T840)
- Quickly access to measurement tools, parameters, image modes, and more through vibrant touchscreen and updated interface
- Send images and collect data via Wi-Fi to the FLIR Tools® app
- Add FLIR clamp or multimeter data to images via Bluetooth with METERLiNK® technology



reddot award
product design



T840



ULTRAMAX®
Unmatched performance at four times the resolution
A unique image processing technique that allows you to generate reports with images that have four times as many pixels

SPECIFICATIONS	FLIR T530	FLIR T540	FLIR T840	FLIR T620	FLIR T640	FLIR T660
IR resolution	320 × 240	464 × 348	464 × 348	640 × 480	640 × 480	640 × 480
Object temperature range	-20°C to 650°C / opt. 1200°C (-4°F to 1202°F / 2192°F)	-20°C to 1500°C (-4°F to 2732°F)	-20°C to 1500°C (-4°F to 2732°F)	-40°C to 650°C (-40°F to 1202°F)	-40°C to 2000°C (-40°F to 3632°F)	-40°C to 2000°C (-40°F to 3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading	±2°C (±3.6°F) or ±2% of reading	±2°C (±3.6°F) or ±2% of reading	±2°C (±3.6°F) or ±2% of reading	±2°C (±3.6°F) or ±2% of reading	±1°C (±1.8°F) or ±1% of reading for limited temp. range / ±2°C (±3.6°F) or ±2% of reading
Thermal sensitivity	<30 mK @ 30°C (42° lens)	<30 mK @ 30°C (42° lens)	<50 mK	<40 mK at 30°C	<30 mK at 30°C	<20 mK @ 30°C
Focus	Continuous LDM, One-shot LDM, One-shot contrast, Manual	Continuous LDM, One-shot LDM, One-shot contrast, Manual	Continuous LDM, One-shot LDM, One-shot contrast, Manual	One-shot automatic, Manual	One-shot automatic, Manual	One-shot automatic, Manual
Display size	4 in. (10.16 cm) LCD	4 in. (10.16 cm) LCD	4 in. (10.16 cm) LCD	4.3 in. (10.92 cm) LCD	4.3 in. (10.92 cm) LCD	4.3 in. (10.92 cm) LCD
Viewfinder	No	No	Yes	No	Yes	Yes

FLIR T1K HD Thermal Imaging Cameras

FLIR T1K (T1010/T1020) infrared cameras are designed for thermography experts who need the highest quality without compromise. With full HD resolution, outstanding thermal sensitivity, and FLIR-exclusive optics designed specifically for HDIR detectors, T1K cameras raise the bar on performance.

Key Features:

- Records high-quality images at 786,432 pixel (1024 × 768) native IR resolution
- Delivers superior image clarity and detail thanks to MSX®, UltraMax®, and FLIR proprietary adaptive filtering algorithms
- Ergonomic design provides all-day comfort, so you can scan from tough angles while keeping the display in view
- FLIR OSX™ Precision HDIR optical system provides the highest fidelity imagery so you can pin-point the smallest anomalies from farther away
- Now featuring an agile new GUI and live image enhancements such as 1-Touch Level/Span
- Wireless connectivity allows you to upload images and collect data via Wi-Fi to the FLIR Tools® app*

* T1020 model

SPECIFICATIONS	FLIR T1010	FLIR T1020
IR resolution	1024 × 768	1024 × 768
Thermal sensitivity	<25 mK @ 30°C	<20 mK @ 30°C
Accuracy	±2°C (±3.6°F) or ±2% of reading	±1°C (±1.8°F) or ±1% for temperatures 5°C to 150°C (41°F to 302°F) ±2°C (±3.6°F) or ±2% of reading for temperatures up to 1200°C (2192°F)
Viewfinder	No	Yes
Object temperature range	-40°C to 2000°C (-40°F to 3632°F)	
Focus	One shot or manual	
Display size	4.3 in. (10.92 cm) wide screen LCD	



The Infrared Training Center

ITC offers classes for practically every application, from free online courses to advanced training that can certify you as a thermography expert.

• FREE online courses

User-friendly, on-demand courses designed to show you how to use your camera and get started on electrical surveys, energy audits, and more

• Thermography certification training

Level I certifies that you know how a thermal imager works and how to use it. Level II cranks your credibility up a notch with more in-depth concepts, and intensive labs

• Classes covering many topics

Popular ITC courses include: Indoor Electrical Surveys Using IR Thermography, Outdoor Electrical Surveys Using IR Thermography, Outdoor Electrical Surveys Using IR Thermography, Building Inspection, and Condition Monitoring

• Brush up your skills

Need a quick refresher on the basics of infrared? ITC's FREE live and on-demand webcasts are just for you! Available on your desktop, laptop, tablet, or smartphone: www.infraredtraining.com/webinars

Come to classes at our training center or at one of our many regional locations. On-site training at your facility is available if you would like to certify a group of 10 or more. For a complete list and schedule of courses and more information, visit www.infraredtraining.com



FLIR Optics

FLIR produces a range of optional lenses for each family of T-Series cameras. From the OSX™ Precision HDIR optics for the T1K, to the T500-Series' compact AutoCal™ lenses, these optics were designed to be tough, accurate, and precise.



AutoCal lenses
(T500-Series, T840, Exx-Series)



6° Telephoto lens
(T500-Series and T840)



T600-Series lenses



T1K lenses



Specifications	Mobile		Compact		Point & Shoot				Professional				High-Performance							
Model	FLIR ONE Pro LT	FLIR ONE Pro	C2	C3	E4	E5-XT	E6-XT	E8-XT	E53	E75	E85	E95	T530	T540	T840	T620	T640	T1010	T1020	
IR resolution	80 × 60 (4,800 pixels)	160 × 120 (19,200 pixels)	80 × 60 (4,800 pixels)		80 × 60 (4,800 pixels)	160 × 120 (19,200 pixels)	240 × 180 (43,200 pixels)	320 × 240 (76,800 pixels)	240 × 180 (43,200 pixels)	320 × 240 (76,800 pixels)	384 × 288 (110,592 pixels)	464 × 348 (161,472 pixels)	320 × 240 (76,800 pixels)	464 × 348 (161,472 pixels)		640 × 480 (307,200 pixels)		1024 × 768 (786,432 pixels)		
UltraMax® resolution	–		–		–				–	307,200 pixels	442,368 pixels	645,888 pixels	307,200 pixels	645,888 pixels		1.2 MP		3.1 MP		
MSX® image enhancement	Yes		Yes		Yes				Yes				Yes							
Color viewfinder	–		–		–				–				–	Yes	–	Yes	–	Yes	–	Yes
Thermal sensitivity	<0.1°C	<0.07°C	<0.10°C		<0.15°C	<0.10°C	<0.06°C	<0.05°C	<0.04°C	<0.03°C			<0.03°C			<0.04°C	<0.03°C	<0.025°C	<0.02°C	
Temperature range	-20°C to 120°C (-4°F to 752°F)	-20°C to 400°C (-4°F to 752°F)	-10°C to 150°C (14°F to 302°F)		-20°C to 250°C (-4°F to 482°F)	-20°C to 400°C (-4°F to 752°F)	-20°C to 550°C (-4°F to 1022°F)		-20°C to 650°C (-4°F to 1,200°F)	-20°C to 650°C (-4°F to 1,200°F)	-20°C to 1,200°C (-4°F to 2,192°F)	-20°C to 1,500°C (-4°F to 2,732°F)	-20°C to 650°C (-4°F to 1,202°F)	-20°C to 1,500°C (-4°F to 2,732°F)		-40°C to 650°C (-40°F to 1,202°F)	-40°C to 2,000°C (-40°F to 3,632°F)	-40°C to 650°C (-40°F to 1,202°F)	-40°C to 2000°C (-40°F to 3,632°F)	
										Optional to 1,000°C (1,830°F)			Optional to 1,200°C (2,192°F)			Optional to 2,000°C (3,632°F)				
Field of view	50° x 38°	55° x 43°	41° x 31°		45° x 34°				24° x 18°				24° x 18°			25° x 19°		28° x 21°		
Spot size ratio	86:1	153:1	90:1		97:1	192:1	294:1	385:1	571:1	763:1	917:1	1111:1	763:1	1111:1		1471:1		2128:1		
Measurement tools	3 spots, 3 area boxes, 3 circles		Spotmeter	Spotmeter, area box (max/min)	Spotmeter (center spot), area box (max/min), isotherm (above/below)				3 spotmeters, 1 area box, center spot, hot spot, cold spot, 3 spots, hot spot-spot*	3 spotmeters, 1 area box (max/min), hot spot, cold spot, User Presets (1 & 2), Delta T	3 spotmeters, 3 area boxes (max/min), hot spot, cold spot, User Presets (1 & 2), Delta T		3 spotmeters, 3 area boxes (max/min), hot spot, cold spot, User Presets (1 & 2), Delta T			10 spotmeters, 5+5 area boxes, hot spot, cold spot, User Presets (1 & 2), Delta T	10 spotmeters, 5+5 area boxes, profile (max/min), hot spot, cold spot, User Presets (1 & 2), Delta T	1 spotmeter, 1 area box (max/min/avg.), profile (max/min), hot spot, cold spot, User Presets (1 & 2), Delta T	10 spotmeters, 5+5 area boxes (max/min/avg.), profile (max/min), hot spot, cold spot, User Presets (1 & 2), Delta T	
Communication modes	USB-C, micro-USB and Lightning		USB	USB, Wi-Fi	USB, Wi-Fi				USB, Wi-Fi, Bluetooth, Display Port				USB, Wi-Fi, Bluetooth, Display Port			USB, Wi-Fi, Bluetooth, mini-HDMI		USB Micro-B, HDMI	USB Micro-B, Wi-Fi, Bluetooth, HDMI	
Touchscreen	–		3 in (7.62 cm)		–				4 in (10.16 cm)				4 in (10.16 cm)			4.3 in (10.92 cm)				
On-screen text, image sketch	–		–		–				Yes				Yes			–	–	–	Yes	
Voice annotation	–		–		–				Yes				Yes			–	–	–	Yes	
Laser pointer	–		–		–				Yes				Yes							
METERLINK®	–		–		–				Yes				Yes			–	–	–	Yes	
Radiometric JPEG	Yes		Yes		Yes				Yes				Yes							
IR video storage	Yes		–		–				Yes				Yes			–	–	–	Yes	
Built-in GPS/Compass	–		–		–				Yes				Yes			–	–	–	Yes	
Available lenses	–		–		–				–	14°, 24° and 42° AutoCal™ lenses			6°, 14°, 24° and 42° AutoCal™ lenses			7°, 15°, 25°, 45° and 80°		7°, 12°, 28° and 45°		

*Hot spot to center spot Delta measurement

FLIR AX8 Thermal Imaging Temperature Sensor

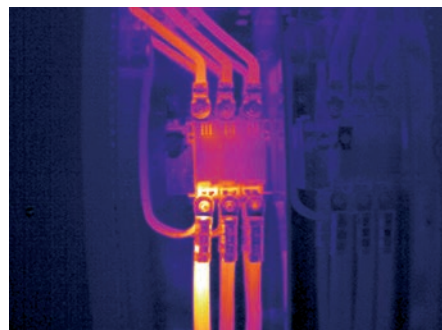
FLIR AX8 is a thermal sensor with imaging capabilities. Combining thermal and visual cameras in a small, affordable package, the AX8 provides continuous temperature monitoring and automated alarms for critical electrical and mechanical equipment. Compact and easy to install, AX8 provides continuous monitoring of electrical cabinets, manufacturing areas, data centers, energy distribution, mass transit, refrigeration warehouses, and much more.

Key Features:

- Streaming live-video output
- Automated alarming at pre-set temperature thresholds
- Ethernet/IP and Modbus TP compliant for easy sharing of alarm and analysis results to a PLC
- Image masking function allows for analysis of just the target
- MSX® image enhancement for improved visual details
- Compact design for easy installation in space-constrained areas
- Ability to stream live video via Ethernet



SPECIFICATIONS	AX8
IR resolution	80 x 60 (4,800 pixels)
Thermal sensitivity/NETD	<0.10°C @ 30°C (86°F)/100 mK
Field of view	48° x 37°
Built-in digital camera	640 x 480
Object temperature range	-10°C to 150°C (14°F to 302°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Spotmeter	6
Area	6 boxes with max./min./average
Automatic hot/cold detection	Max/Min temp. value and position shown within box
Alarm functions	Set up to 5 alarms on any selected measurement function
Alarm output	Digital Out, store image, file sending (ftp), email (SMTP), notification
Storage media	Built-in memory for image storage
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, sftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour)
Image modes	Thermal, visual, MSX



AX8 Accessory Starter Kit (Part number 71200-0002): includes an M12 to RJ45 Ethernet cable, front mounting-plate kit, rear mounting-plate kit, Gigabit PoE injector 15 W, M12 to pigtail cable

FLIR TG165/TG167 Spot Thermal Cameras

Bridging the gap between single spot IR thermometers and FLIR's legendary infrared cameras, the TG165 and TG167 give you the advantage of thermal imaging to help you discover temperature issues you can't see with typical spot radiometers. Equipped with FLIR's Lepton® thermal imaging sensor, the TG165 and TG167 use the power of Infrared Guided Measurement (IGM™) to show you heat patterns across your target, guiding you to the precise location of potential problems so you can take more reliable temperature readings. They also store images and data for reports. And with a spot ratio of 24:1, you can capture measurements from a safer distance.

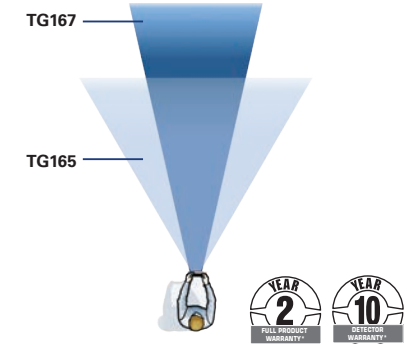
Key Features:

- True thermal detection – best-in-class image quality
- Tripod mount and lanyard connection
- Simple to operate, with pull-trigger to activate lasers or freeze images
- Rugged and reliable – withstands a 2-meter drop
- Dual laser pointers to frame area of interest
- Micro SD card & mini-USB port for downloading images and charging

SPECIFICATIONS	TG165	TG167
Field of view	38.6° x 50°	19.6° x 25°
Thermal imaging palette	Hot-iron, grayscale	Hot-iron, rainbow, grayscale
IR resolution	80 x 60 (4,800 pixels)	
Distance-to-spot ratio	24:1	
Range	-25°C to 380°C (-13°F to 716°F)	
Basic accuracy	±1.5°C (2.7°F) or 1.5%	
Measurement resolution	0.1°C / 0.1°F	
Temperature sensitivity	<150 mK	
Focus	Fixed	
Laser pointer	Dual diverging lasers, trigger-activated	



Field of view (FOV) comparison



FLIR TG54/TG56 Spot IR Thermometers

The TG54 and TG56 spot infrared thermometers provide non-contact surface temperature readings so you can quickly and easily take measurements in places that are out of reach. Providing a distance-to-spot ratio of up to 30:1, the TG54 and TG56 can measure smaller targets from a safer distance. New mode options give you control to view your current reading and last two temperature readings simultaneously. The TG54 and TG56 are built with a color screen that makes it easy to navigate and select settings, plus adds visibility and efficiency to the advanced feature set. The TG54 and TG56 are your go-to, pocket-sized devices for efficient temperature measurement.

Key Features:

- Non-contact surface temperature measurement
- Laser pointer helps you identify what is hot or cold
- Graphical menu structure allows easy access to settings
- Easy emissivity selection with predetermined levels and custom adjustment
- Rugged, industrial design that can withstand a 3-meter drop
- Bright LED worklight to help you see your target in poor lighting conditions

SPECIFICATIONS	TG54	TG56
Distance-to-spot ratio (D:S)	24:1	30:1
Range	-30°C to 650°C (-22°F to 1202°F)	
Basic accuracy	±1°C (±1.8°F) or 1% of reading	
Emissivity	Adjustable with 4 presets and custom option	
Resolution	0.1°C / 0.1°F	
Response	≤150 ms	
Spectral response	5 to 14 μm	



FLIR IRW-xC/xS Round IR Windows

FLIR IR Windows add a protective barrier between you and energized equipment, so you can perform inspections more efficiently and reduce the threat of arc flash injury. FLIR IRW-Series windows feature a permanent hinged cover that flips open easily, so there's nothing to drop, mix up, or lose. If there are mixed-metal concerns, choose the stainless-steel model to prevent galvanic corrosion.

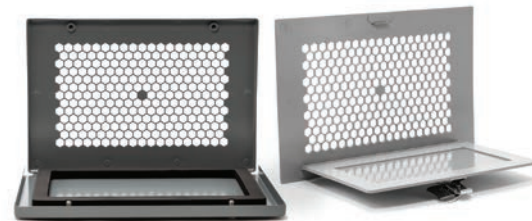


- Key Benefits:**
- Minimize time/cost of complying with NFPA 70E for electrical inspections
 - Decrease the risk of arc flash incidents and resultant injuries
 - Perform both visual and thermal inspections through the crystal window
 - Maintain integrity of cabinet environmental ratings, even after installation
 - Install easily using standard knockout punches, no screws
 - Avoid contact between dissimilar metals by choosing stainless steel models

SPECIFICATIONS	IRW-2C	IRW-3C	IRW-4C	IRW-2S	IRW-3S	IRW-4S
Optic diameter	50 mm (1.97 in)	75 mm (2.95 in)	95 mm (3.74 in)	50 mm (1.97 in)	75 mm (2.95 in)	95 mm (3.74 in)
NEMA environment type	Type 4/12 (outdoor/indoor)					
Automatically grounded	Yes					
Maximum operating temperature	260°C (500°F)					
Body material	Anodized aluminum			AISI-grade 316 stainless steel		
Greelee punch	76BB	739BB	742BB	76BB	739BB	742BB

FLIR IRW-xPC/xPS Large Format IR Windows

FLIR IRW-xPC and IRW-xPS large format infrared inspection windows offer the field of view you need to image inaccessible components, improving inspection efficiency and helping to prevent unplanned downtime. The rectangular polymer windows provide the largest viewing area available to monitor completely undisturbed assets inside energized electrical equipment. Durable and stable in harsh environments, these IR windows are suitable for most industrial settings as well as for shipboard use.



- Key Benefits:**
- Meet IP2x standard for safe maximum hole size and fail-safe design
 - Tested and certified to the highest industry standards
 - Use IRW-xPC windows for indoor applications and IRW-xPS windows for outdoor applications
 - Maintain fixed and stable transmission to ensure temperature data is accurate and reliable
 - Proven compatibility with acids, alkalis, UV, moisture, humidity, vibration, and high frequency noise
 - Protect viewing panes from flying debris, dust, or impact with the lockable window covers



SPECIFICATIONS	IRW-8PC	IRW-12PC	IRW-24PC	IRW-8PS	IRW-12PS	IRW-24PS
Overall height	21.8 cm (8.6 in)	20.6 cm (8.1 in)	21.8 cm (8.6 in)	21.8 cm (8.6 in)	20.6 cm (8.1 in)	21.8 cm (8.6 in)
Overall width	16 cm (6.3 in)	30.5 cm (12.0 in)	61 cm (24.0 in)	16 cm (6.3 in)	30.5 cm (12.0 in)	61 cm (24.0 in)
Aperture overall height	15 cm (5.9 in)	12.7 cm (5.0 in)	15 cm (5.9 in)	15 cm (5.9 in)	12.7 cm (5.0 in)	15 cm (5.9 in)
Aperture overall width	9.1 cm (3.6 in)	23.6 cm (9.3 in)	53 cm (20.9 in)	9.1 cm (3.6 in)	23.6 cm (9.3 in)	53 cm (20.9 in)
Optic temperature range	-40°C to 325°C (-40°F to 617°F)					
IP/NEMA environment type	IP65 / NEMA 4x			IP67 / NEMA 6		
Maximum operating temperature	-40°C to 200°C (-40°F to 392°F)			-40°C to 273°C (-40°F to 523°F)		
Body material	Aluminum			Powder-coated stainless steel		
Optic reinforced grill material	Aluminum reinforcing grill (IP22/ IP2x standard)			Stainless steel reinforcing grill (IP22/ IP2x standard)		

flir.com/ir-windows

FLIR CM275 Industrial Imaging Clamp Meter with Datalogging, Wireless Connectivity and IGM™

FLIR CM275 clamp meters combine Infrared Guided Measurement (IGM) thermal imaging with electrical measurement in one powerful inspection, troubleshooting, and diagnostic tool. Confirm your findings with the clamp meter's wide range of functions plus temperature readings. The FLIR CM275 also provides wireless connectivity for direct connection to the FLIR Tools® app.

- Key Features:**
- Safely check for live connections using non-contact temperature measurement
 - Use advanced electrical features including Variable Frequency Drive (VFD) mode, True RMS, and Low Impedance (LoZ) mode
 - Pinpoint exact hot spot locations with laser or crosshairs
 - Store electrical measurements and thermal images internally, for later review
 - Rely on the protection of CAT IV-600V, CAT III-1000V safety ratings

THERMAL IMAGING CM275		
IR resolution	160 × 120 (19,200 pixels)	
Object temperature range	-10°C to 150°C (14°F to 302°F)	
Field of view	50° × 38°	
Temperature sensitivity	150 mK	
Focus	Fixed	
MEASUREMENTS RANGE BASIC ACCURACY		
AC / DC Voltage	1000 V	±1.0%
VFD AC Voltage	1000 V	±1.0%
AC / DC LoZ V	1000 V	±1.0%
AC / DC Current	600.0 A	±2.0%
VFD AC Current	600.0 A	±2.0%
AC inrush	600.0 A	±3.0%
Resistance	6.000 kΩ	±1.0%
Capacitance	1000 μF	±1.0%
Diode test	1.5 V	±1.5%



FLIR CM174 Industrial Thermal Imaging Clamp Meter with IGM™

The FLIR CM174 is equipped with a built-in thermal imaging camera that can quickly lead you to problems you can't see with a standard clamp meter. Using IGM technology, the CM174 visually guides you to the precise location of a potential electrical problem, identifying dangerous and unknown problem areas safely. Confirm your findings with accurate amperage and voltage measurements, and center-point temperature readings.

- Key Features:**
- All-in-one tool – carry just one device and always have access to thermal imaging
 - Work safely – scan a panel or cabinet for hazards using IGM without direct contact
 - Center-point temperature to confirm hot spot
 - Laser and crosshair pinpoint the location of the problem found in thermal image
 - Narrow jaw and built-in worklights help you access difficult locations with lighting issues
 - Advanced electrical features: True RMS, LoZ, VFD Mode, Inrush, and Smart Diode with Disable

THERMAL IMAGING CM174		
IR resolution	80 × 60 (4,800 pixels)	
Object temperature range	-25°C to 150°C (-13°F to 302°F)	
Field of view	50° × 38.6°	
Temperature sensitivity	150 mK	
Focus	Fixed	
MEASUREMENTS RANGE BASIC ACCURACY		
AC / DC Voltage	1000 V	±1.0%
VFD AC Voltage	1000 V	±1.0%
AC / DC LoZ V	1000 V	±1.0%
AC / DC Current	600.0 A	±2.0%
VFD AC Current	600.0 A	±2.0%
AC inrush	600.0 A	±3.0%
Resistance	6.000 kΩ	±1.0%
Capacitance	1000 μF	±1.0%
Diode test	1.5V	±1.5%



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FLIR CM82/CM83/CM85 Industrial True RMS Power Clamps

FLIR offers an excellent choice of industrial-grade Power Clamp Meters engineered with advanced power analysis and variable frequency drive filtering functions required by electrical troubleshooters.

Key Features:

- VFD Mode provides superior accuracy for working on VFD-controlled equipment
- Advanced power efficiency and harmonics measurements for system level performance analysis
- Inrush Mode captures fast AC current spikes during appliance start-up
- Phase Rotation testing ensures the motor and power source are aligned
- True RMS DMM functionality features reliable performance and expansive ranges
- Powerful LED lamps not only assist with clamping but are bright enough to serve as a primary work light
- True RMS voltage and current, power factor, bright white LED backlit display, analog bar graph, integrated non-contact voltage detector, min/max/average, auto power off, data hold, peak hold, relative, DCA zero, and battery status

CM82

- 600 A True RMS AC/DC current measurements

CM83 and CM85

- True RMS AC/DC current measurements (CM83: 600 A) (CM85: 1000 A)
- Bluetooth connection to FLIR Tools® Mobile for remote viewing and sharing
- Embed clamp meter readings via METERLiNK® in radiometric images captured with compatible FLIR thermal cameras



Bluetooth
CM83/CM85 only



SPECIFICATIONS	CM82	CM83	CM85	BASIC ACCURACY
AC/DC current	600 A	600 A	1000 A	±2.0%
AC/DC voltage	1000 V	1000 V	1000 V	±1.0% / 0.7%
AC VFD voltage	1000 V	1000 V	1000 V	±1.0%
Harmonics	1st to 25th order	1st to 25th order	1st to 25th order	±5.0%
Total harmonics distortion	0.0 to 99.9%	0.0 to 99.9 %	0.0 to 99.9 %	±3.0%
Inrush current	600 ACA (Integration time 100 ms)	600 ACA (Integration time 100 ms)	(Integration time 100 ms)	±3.0%
Active power	10 kW to 600 kW (10 V, 5 A min)	10 kW to 600 kW (10 V, 5 A min)	10 kW to 1000 kW (10 V, 5 A min)	±3.0%
Diode test	0.4 to 0.8 V	0.4 to 0.8 V	0.4 to 0.8 V	±0.1 V
Capacitance	3.999 mF	3.999 mF	3.999 mF	±1.9%
Resistance	99.99 kΩ	99.99 kΩ	99.99 kΩ	±1.0%
Continuity threshold	30 Ω	30 Ω	30 Ω	±1.0%
Frequency	20.00 Hz to 9.999 kHz	20.00 Hz to 9.999 kHz	20.00 Hz to 9.999 kHz	±0.5%
Bluetooth range max	—	32 ft (10 m)	32 ft (10 m)	—
Jaw opening	37 mm (1.45 in, 1000 MCM)	37 mm (1.45 in, 1000 MCM)	45 mm (1.77 in)	—
Category rating	CAT IV-600 V, CAT III-1000 V			
Battery type	6 x AAA			

* When registered within 60 days of purchase.

FLIR CM78 1000A Clamp Meter with IR Thermometer

The FLIR CM78 is a True RMS industrial clamp meter for the electrician who works on high-powered equipment and temperature systems and needs a safe, capable combination tool. An integrated IR thermometer provides fast non-contact measurements on panels, conduits, and motors.

Key Features:

- Integrated IR thermometer provides fast non-contact measurements on panels, conduits, and motors
- Powerful worklights not only assist with clamping but are bright enough to serve as a primary worklight
- FLIR Tools Mobile connects the FLIR CM78 to your compatible smartphones and tablets via Bluetooth
- METERLiNK® technology wirelessly integrates electrical readings on your infrared image with METERLiNK-enabled FLIR thermal cameras
- Features: Voltage and current, min/max/average, auto power off, data hold, relative, peak hold, battery status indicator, bright white LED backlight

SPECIFICATIONS	CM78	BASIC ACCURACY
AC/DC current	1000 A	±2.5%
AC/DC voltage	1000 V	±1.5%
Resistance	40 MΩ	±1.5%
Capacitance	4 mF	±3.0%
Frequency	4000 Hz	±1.5%
Temperature (IR)	-20 to 518°F, -20 to 270°C	±2.0%
IR distance to target ratio	8 inches away : 1 inch spot size	
Type K temperature (optional probe)	-4 to 1400°F, -20 to 760°C	±3.0%



FLIR CM72/CM74 Commercial 600A Clamp Meters

The FLIR CM72 600A AC Clamp Meter and the CM74 600A AC/DC Clamp Meter give you better access to wiring in hard-to-reach places. With advanced electrical features including Auto Range, True RMS, Inrush (CM74 only), and VFD Mode (CM74 only), the clamp meters have all the measurement functions you need to stay competitive and ensure accurate readings.

Key Features:

- Portable and slim, with a narrow jaw for easy access to crowded panels
- High-powered LED worklights guide you to your target in low light
- Advanced measurement features including True RMS, LoZ, smart diode with Disable, and MIN/MAX/HOLD
- Rubberized, double-molded hand grips and bright, backlit LCD display
- Premium gold-tipped silicone test lead included
- Expandable to 3000 A AC with TA72 and TA74 Flex Clamp accessories (sold separately)

SPECIFICATIONS	CM72	CM74	BASIC ACCURACY
AC/DC voltage	600 V	1000 V	±1.0%
VFD AC voltage	—	1000 V	±1.0%
LoZ Mode AC/DC voltage	600 V	1000 V	±1.0%
DC current	—	600 A	±2.0%
AC current	600 A	600 A	±2.0%
VFD AC current	600 A	600 A	±2.0%
Inrush AC current	—	600 A	±3.0%
Frequency	60 kHz	60 kHz	±0.1%
Resistance	6000 Ω	6000 Ω	±1.0%
Continuity	600 Ω	600 Ω	±1.0%
Capacitance	1000 μF	1000 μF	±1.0%
Diode	1.5 V	1.5 V	±1.5%



FLIR CM42/CM44/CM46 Professional 400A True RMS Clamp Meters with Accu-Tip™

FLIR CM4X clamp meters are affordable True RMS meters designed for commercial and residential electricians. The CM42 and CM44 feature AC clamp measurement, and the CM46 offers both AC/DC measurement to meet your unique needs. Each meter is equipped with a bright back-lit display for ease of use inside electrical panels. Made with an over-molded, easy-to-grip design, CM4X clamp meters are durable enough to withstand a two-meter drop, and the slim form factor is convenient to carry in your tool bag anywhere you go.



Key Features:

- Accu-Tip technology delivers more accurate amperage readings on smaller-gauged wires, to a tenth of a digit
- MAX/MIN/AVG recording plus frequency and diode measurement
- Data hold, zero function, and low-pass filter (VFD) for voltage measurement
- Large, bright backlit display for easy-to-see readings
- Operates at -10°C to 50°C (14°F to 122°F) and accepts up to 30 mm max conductor
- Electrical field detection (NCV) determines if voltage is present, strength of the field

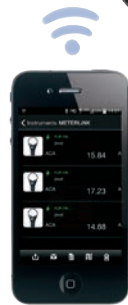
SPECIFICATIONS	CM42	CM44	CM46	BASIC ACCURACY
AC / DC voltage	600 V	600 V	600 V	±1.0%
AC + DC voltage (digital low-pass filter/VFD)	—	—	600 V	±1.2%
Clamp-On AC current (50-100 Hz)	400 A	400 A	400 A	±1.8%
(100-400 Hz)	—	—	—	±2.0%
Clamp-On DC current	—	—	400 A	±2.0%
Accu-Tip Clamp-On DC current	—	—	60 A	±2.0%
Frequency	50 to 400 Hz	50 to 400 Hz	50 to 400 Hz	±1.0%
Resistance	60 kΩ	60 kΩ	60 kΩ	±1.0%
Capacitance	—	2500 μF	2500 μF	±2.0%
Diode	2.0 V	2.0 V	2.0 V	±1.5%
Temperature	—	-40°C to 400°C (-40°F to 752°F)	-40°C to 400°C (-40°F to 752°F)	±1.0%

FLIR CM55/CM57 Flexible Clamp Meters

FLIR CM55 and CM57 flexible clamp meters are ergonomic tools designed to simplify your workday. The narrow, flexible coil clamp allows you to measure currents in tight or awkward spots. The clamps are Bluetooth-enabled for direct connection with the FLIR Tools® app on iOS and Android devices, so you can transfer data, then analyze and share it — right from the job-site.

Key Features:

- Measures current up to 3,000 Amps for multiple conductor measurements
- Convenient 10 in. or 18 in. (25.4 cm or 45.7 cm) flexible clamp
- Inrush current for equipment start-up spikes
- Bluetooth to mobile devices for remote viewing
- Data recording for trend analysis transferable via Bluetooth
- Bright LED worklights for easy inspection and navigation



Bluetooth



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FLIR VT8-600/VT8-1000 Voltage, Continuity, and Current Testers

NEW

High-quality voltage, continuity, and current tester, ideal for electricians and service technicians who troubleshoot and verify electrical installations or systems within commercial and light industrial facilities. The FLIR VT8's optimized and open-jaw design allows it to fit into tight spaces and reliably measure large-diameter cables. Extensive measurement features make the FLIR VT8 a versatile tool — just one meter can get the job done. Carry the compact tester in your pocket to be ready at any moment for easy troubleshooting.

Key Features:

- Take measurements in tight spaces with the optimized jaw design, and measure large-diameter cables with the wide jaw opening
- Measure True RMS AC/DC voltage and current, continuity, resistance, and capacitance
- Improve accuracy of readings with True RMS measurements
- Detect live AC voltages with the built-in non-contact voltage (NCV) detector
- Work efficiently in dimly lit areas using the bright LED worklight and backlit display
- Safely store test leads when not in use with the built-in test lead holder

VT8-600

- Measures up to 100 A/600 V with CAT III-600 V /CAT IV-300 V safety rating

VT8-1000

- Measures up to 200 A/1000 V with the CAT III-1000 V/CAT IV-600 V safety rating



SPECIFICATIONS	VT8-600	VT8-1000
AC/DC Current Range	100A	200A
AC/DC Current Resolution		0.1A
AC (50 to 60 Hz) / DC Current Accuracy		±2.5%
AC/DC Voltage Range	600 V	1000 V
AC/DC Voltage Resolution		0.1 V
AC (45 to 66 Hz) / DC Voltage Accuracy		±1.5%, ±1.0%
Resistance		60.00 MΩ ± (1.5%)
Continuity Check Threshold		10 Ω to 100 Ω
Capacitance		600 μF ±4.0%, 6000 μF ±10.0%
Non-Contact Voltage Detector (NCV)		>100 Vrms; ≤10 mm distance (LED/buzzer alerts)
Additional Measurement Functions	DCA zero, relative mode (AC/DC voltage, AC current, and capacitance), data hold	

FLIR TA72/TA74 Flexible Clamp Adaptors

Designed to add capabilities and simplify challenges, the FLIR TA72 and TA74 Universal Flex Current Probes let you easily take measurements in tight or awkward spots — a difficult task with a traditional hard jaw clamp meter. The connection is a standard banana plug and the output is a voltage signal, so it's compatible with most DMMs and clamp meters, regardless of brand.

Key Features:

- Adds 3000 A AC current measurements to existing meters
- Convenient 10 in. or 18 in. (25.4 cm or 45.7 cm) flexible clamp with locking mechanism
- AC voltage probe output for universal compatibility
- Banana plug connections fit most meters
- Switchable AC current range: 30 A, 300 A, 3000 A
- Bright LED worklight for easy inspection

SPECIFICATIONS	TA72	TA74
Flexible Conductor Length	10 in (25.4 cm)	18 in. (45.7 cm)
Maximum AC current		3000 A AC
AC current ranges & resolution		30.00 A, 300.0 A, 3000 A
Basic AC current accuracy (full scale)		±3.0% + 5 digits
Measurement rate		1.5 samples per second, nominal
AC current bandwidth		45 Hz to 500 Hz (sine wave)
	15 mm (0.6 in.)	35 mm (1.4 in) 1.0%
Positional error (distance from optimum)	25 mm (1.0 in.)	50 mm (2.0 in) 1.5%
	35 mm (1.4 in.)	60 mm (2.4 in) 2.0%



NECA Showstopper 2015



FLIR DM285 Industrial Thermal Imaging Multimeter with Datalogging, Wireless Connectivity and IGM™

The FLIR DM285 is an industrial, True RMS digital multimeter with Infrared Guided Measurement (IGM) to guide you directly to hot spots and temperature anomalies. The built-in 160 × 120 thermal imager will help you pinpoint issues faster, so you can get to repairs safely and efficiently. The DM285 features on-board data storage and Bluetooth® connection to the FLIR Tools® Mobile app, for data sharing and reporting.

Key Features:

- 19,200 pixel thermal camera visually guides you to an electrical problem
- Includes high-quality test probes and a Type-K thermocouple
- Performs 18 measurement functions including LoZ and non-contact voltage (NCV) detection

- Saves electrical parameter data and thermal images with onboard data storage
- Drop-tested and IP rated for greater durability
- Fast and easy battery swaps with the 'no tool' battery compartment



FLIR DM284 Imaging Multimeter with IGM™

The FLIR DM284 with IGM is a professional, all-in-one True RMS digital multimeter, featuring a built-in thermal imager. Speed up troubleshooting with IGM, for immediate, visual indication of hot spots that need further investigation. IGM lets you work from a safer distance and more efficiently without direct contact. Once you're guided to the right spot, the DM284 can help verify findings with advanced contact measurement features.

Key Features:

- See exactly where to measure with the 160 × 20 resolution thermal imaging
- 18-function DMM including VFD mode, True RMS, LoZ, and NCV
- View simultaneous thermal and thermocouple measurements

- Built-in worklights and laser pointer plus thermocouple input
- Simple user interface with multiple thermal image color palettes
- Drop-tested and IP rated for greater durability



Also available as a kit (DM284-FLEX-KIT / DM285-FLEX-KIT) that includes 3000 A flex clamp, carrying case and rechargeable battery

Specifications DM284 and DM285

THERMAL IMAGING		
IR Resolution	160 × 120 (19,200 pixels)	
Temperature sensitivity	≤150 mK	
Emissivity	4 presets with custom adjustment	
Temperature accuracy	3°C or 3.5%	
Object temperature range	-10°C to 150°C (14°F to 302°F)	
FOV (w x h)	46° × 25° (DM284), 50° × 38° (DM285)	
Laser pointer	Yes	
Focus	Fixed	
MEASUREMENTS		
RANGE		ACCURACY
AC / DC Voltage	1000 V	±1.0% / 0.09%
AC / DC Voltage (mV)	600.0 mV	±1.0% / 0.5%
VFD AC Voltage	1000 V	±1.0%
AC / DC LoZ V	1000 V	±1.5%
AC / DC Current	10.00 A	±1.5%
AC / DC mAmps	400.0 mA	±1.5%
AC / DC μAmps	4,000 μA	±1.0%
Resistance	6,000 MΩ	±0.9%
	50.00 MΩ	±3.0%
Continuity	Yes	Yes
Capacitance	10.00 mF	±1.9%
Diode	Yes	Yes
Min/Max/Avg	Yes	Yes
Flex clamp range	3000 A AC (Optional TA72/74)	±3.0% + 5 digits
Frequency range	99.99 kHz	±0.1%
Type-K thermocouple range	-40°C to 400°C (-40°F to 752°F)	±1.0% + 3°C (DMM) / ±1.0% + 5°C (IGM)

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FLIR DM92/DM93 True RMS Industrial Multimeters

The FLIR DM92 and DM93 digital multimeters offer variable frequency drive filtering to help you accurately analyze non-traditional sine waves and noisy signals. The DM93 also offers Bluetooth connectivity, so you can upload and share data through the FLIR Tools® mobile app. No matter the electrical challenge, the DM92/DM93 have the features and flexibility to make the job simple.

FEATURES BY METER	DM92	DM93
Connectivity	—	Bluetooth®, max. range 10 m (32 ft)
Data recording	—	20,000 Pts (125 days max)
MEASUREMENTS - BOTH MODELS	RANGE	BASIC ACCURACY
DC voltage	1000 V	±0.05%
AC voltage	1000 V	±0.5%
VFD voltage	1000 V	±0.5%
DC current	10.00 A	±0.2%
AC current	10.00 A	±1.0%
Resistance	40.00 MΩ	±0.2%
Continuity threshold	30.00 Ω	±0.2%
Frequency	100.0 kHz	±5 digits
Capacitance	40.00 mF	±0.9%
Diode	2.000 V	±1.5%
Temperature range	-200°C to 1200°C (-328°F to 2192°F)	±1.0%

Key Features:

- Powerful LED worklight for performing tests in dim lighting
- Drop-tested, durable construction with an IP54 rating
- Multiple measurements including True RMS voltage and current, LoZ, MIN/MAX/AVG
- Manually stores and recalls up to 99 readings
- Integrated Bluetooth technology connects DM93 to FLIR Tools app
- Connect DM93 to compatible FLIR thermal cameras via METERLINK®



FLIR DM90/DM91 TRMS Multimeter with Type-K Temperature

The FLIR DM90 and DM91 offer the comprehensive features professionals need to safely troubleshoot electrical, electronic, and HVAC/R systems. Equipped with LoZ, VFD Mode, and more, the DM90/DM91 multimeters give you trusted results for the most accurate diagnosis of electrical problems. The DM91 is also enhanced with Bluetooth® technology, so you can connect to mobile devices running FLIR Tools® or the FLIR InSite™ workflow management system.

FEATURES BY METER	DM90	DM91
Connectivity	—	Bluetooth®
Data logging and storage	—	1 file of 40k scalar measurements
Measuring rate	3 samples per second	3 samples per second
MEASUREMENTS - BOTH MODELS	RANGE	BASIC ACCURACY
AC / DC Voltage	1000 V	±1.0% / 0.09%
AC / DC Voltage (mV)	600.0 mV	±1.0% / 0.5%
VFD AC Voltage	1000 V	±1.0%
AC / DC LoZ V	1000 V	±2.0%
AC / DC Current	10.00 A	±1.5% / 1.0%
AC / DC mAmps	400.0 mA	±1.5% / 1.0%
AC / DC μAmps	4,000 μA	±1.0%
Resistance	6,000 MΩ	±0.9%
	50.00 MΩ	±3.0%
Capacitance	10.00 mF	±1.9%
Diode	1.500 V	±0.9%
Frequency counter	100.00 kHz	±0.1%
Continuity check	600.0 Ω	±0.9%
	20.00 Ω	
	200.0 Ω	
Type-K thermocouple temperature range	-40°C to 400°C (-40°F to 752°F)	±1.0% + 3°C (DMM) / ±1.0% + 5.4°F (DMM)

Key Features:

- Powerful LED worklight for performing tests in dim lighting
- Durable, drop-tested construction
- Multiple measurements including True RMS voltage and current, LoZ, MIN/MAX/AVG
- Stores and recalls up to 40k readings (DM91)
- Integrated Bluetooth technology for connection to FLIR Tools app, FLIR InSite (DM91)
- CAT IV-600V and CAT III-1000V safety rated



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FLIR DM166 Imaging TRMS Multimeter

The FLIR DM166 is a must-have tool for commercial electricians and automation, electronic, and HVAC technicians. Featuring Infrared Guided Measurement (IGM™), the DM166 visually guides you to the precise location of potential problems. It also offers essential measurement features such as True RMS AC/DC voltage and current, non-contact voltage detection, VFD mode, and more.

Key Features:

- 4,800 pixel thermal camera visually guides you to an electrical problem
- Includes high-quality test probes and a Type-K thermocouple
- Removes high-frequency interference with reading through VFD mode
- Safely check for live connections using non-contact temperature measurement
- Offers CAT III-600V, CAT IV-300V safety rating
- Drop-tested and IP rated for greater durability

MEASUREMENTS	RANGE	ACCURACY
AC / DC Voltage	600 V	±0.7% / 0.5%
AC / DC Voltage (mV)	600.0 mV	±1.0% / 0.3%
VFD AC Voltage	600 V	±1.0%
AC / DC Current	10.00 A	±1.0% / 0.7%
AC / DC mAmps	600.0 mA	±1.0% / 0.7%
AC / DC μAmps	6,000 μA	±1.5% / 1.0%
Resistance	6,000 MΩ	±0.9%
	60.00 MΩ	±1.5%
Continuity	Yes	
Capacitance	2,000 mF	±2.0%
	10.00 mF	±5.0%
Diode	Yes	Yes
Min/Max/Avg	Yes	Yes
Flex clamp range	3000 A AC (optional TA72/74)	±3.0% + 5 digits
Frequency range	99.99 kHz	±0.1%
Type-K thermocouple range	-40°C to 400°C (-40°F to 752°F)	±1.0% + 3°C (DMM) ±1.0% + 5°C (IGM)



THERMAL IMAGING

IR Resolution	80 x 60 pixels (4,800 pixels)
Temperature Sensitivity	≤150 mK
Emissivity	4 presets with custom adjustment
Temperature Accuracy	3°C or 3%
Object temperature Range	-10°C to 150°C (14°F to 302°F)
Field of View	38° x 50°
Laser Pointer	Yes
Focus	Fixed

FLIR IM75 Insulation & DMM Combo with METERLiNK®

The FLIR IM75 is an all-in-one multi-function digital multimeter and insulation tester for installation, troubleshooting, and maintenance professionals. It features a handheld insulation tester and multiple resistance ranges for insulation test levels, as well as METERLiNK compatibility and Bluetooth connectivity to transmit and share data.

Key Features:

- Advanced insulation modes
- True RMS measurements with 1000 V range
- Multiple resistance insulation test level ranges
- LED display with Compare Mode for fast pass/fail determination
- Communicates with METERLiNK-enabled FLIR thermal imaging cameras, FLIR Tools® mobile app
- Durable double-molded construction (IP54, 2 m drop test)

MEASUREMENTS	MAX RANGE	BASIC ACCURACY
Insulation resistance	4 M to 20 GΩ	±1.5%
Insulation test voltages	50, 100, 250, 500 and 1000 V	±3.0%
AC / DC voltage	1000 V	±0.1% / ±1.5%
VFD AC voltage	1000 V	±1.5%
Earth bond resistance	40.00 Ω to 40.00 kΩ	±1.5%
Capacitance	10.00 mF	±1.2%
Frequency (ACV)	40.00 kHz	±5 digits
Diode test	2,000 V	±1.5%
Continuity	400.0 Ω	±0.5%



FLIR DM62/DM66 True RMS Digital Multimeters

The FLIR DM62 and DM66 digital multimeters combine rich feature sets, precise measurement, and quality construction into tools of exceptional value. The meters are easy to use and built to last — whether you want the DM62 for DIY projects or need the pro-level measurement features of the DM66. Whichever multimeter you choose, you'll get the job done fast and efficiently.

FEATURES BY METER	DM62	DM66
Capacitance	—	200.0 nF (±1.5%) 10.00 mF (±4.5%)
AC / DC LoZ V	—	600.0 V (±2.0%)
Frequency	—	50.00 kHz (±0.1%)

MEASUREMENTS - BOTH MODELS	RANGE	BASIC ACCURACY
AC / DC Voltage	600.0 V	±1.0% / 0.4%
AC / DC Voltage (mV)	600.0 mV	±1.0% / 0.4%
VFD AC Voltage	600.0 V	±1.0%
AC / DC Current	10.00 A	±1.5% / 1.0%
AC / DC mAmps	600.0 mA	±1.0% / 0.7%
AC / DC μAmps	6,000 μA	±1.5% / 1.0%
Resistance	6,000 MΩ	±0.9%
Diode	3,000 V	±0.9%

Key Features:

- Flashing backlight and audible indicators
- Broad DMM test functions including VFD mode, MIN-MAX-AVG, and relative mode
- High and low voltage measurement capabilities
- Compact and ergonomic design with easy-to-access buttons
- Durable and drop-tested, with CAT IV-300V and CAT III-600V safety ratings



FLIR DM64 HVAC TRMS Digital Multimeter

The FLIR DM64 is an affordable True RMS digital multimeter with temperature (Type-K thermocouple) and Microamp measurement to test flame sensors. This coupled with a rich feature set for both high- and low-voltage applications makes it the ideal tool for HVAC professionals.

Key Features:

- Flashing backlight and audible indicators
- Test functions include VFD mode, LoZ, capacity, resistance, and more
- High- and low-voltage measurement capabilities
- Includes Type-K thermocouple to measure temperatures up to 400°C (752°F)
- Test flame sensors with microamps feature
- Durable, drop-tested design with no-tool battery compartment

MEASUREMENTS	RANGE	BASIC ACCURACY
AC / DC Voltage	600.0 V	±1.0% / 0.4%
AC / DC Voltage (mV)	600.0 mV	±1.0% / 0.4%
VFD AC Voltage	600.0 V	±1.0%
AC / DC LoZ V	600.0 V	±2.0%
AC / DC Current	10.00 A	±1.5% / 1.0%
AC / DC mAmps	600.0 mA	±1.0% / 0.7%
AC / DC μAmps	6,000 μA	±1.5% / 1.0%
Resistance	6,000 MΩ	±0.9%
Capacitance	2000 μF	±1.5%
Frequency	5,000 kHz	±0.1%
Diode	3,000 V	±0.9%
Type-K thermocouple temperature range	-40°C to 400°C -40°F to 752.0°F	±1.0% + 1°C ±1.0% + 2°F



FLIR VP40 Non-Contact Voltage (NCV) Detector + Flashlight

NEW

The FLIR VP40 is a CAT IV-rated, non-contact voltage detector designed to reliably detect voltages on the latest tamper-proof outlets and electrical systems. Toolbox-tough, with a rubber-reinforced case and buttons, the VP40 has vibration and red LED alarms to help alert users to the presence of voltage, even in noisy areas. Plus, versatile high/low-sensitivity modes help detect voltage in industrial equipment and low-voltage installations.

Key Features:

- 3 m drop-tested and CAT IV-1000V rated
- Vibration and multi-color flashing LED alarms for voltage indication
- Long run-time with power-saving Low Battery indication and Auto Power-off
- Includes two AAA batteries

SPECIFICATIONS	VP40
Voltage ranges	90 to 1000 V 24 to 1000 V
Category rating	CAT IV-1000 V
Frequency range	45 to 65 Hz
Vibrating indication	Yes
On/Off switch	Yes



YEAR 3 FULL PRODUCT WARRANTY



FLIR RT50 Receptacle Tester with GFCI Check

The RT50 is a reliable GFCI receptacle tester designed for electricians, home or building inspectors, and do-it-yourselfers who need to verify or troubleshoot operation of 3-wire receptacle circuits within residential and commercial buildings. It is durable, easy, and safe to use, and offers the quality you have come to expect from FLIR test and measurement products.

Key Features:

- Durable and safe, designed with an impact-resistant case
- Meets UL safety standards in the US and Canada
- Test for correct wiring of 3-wire receptacles in 110-125 V AC, 50/60 Hz circuits
- Check for circuit breaker operation and verification that it is wired for protection
- Receive positive indication that the circuit has tripped with the GFCI test annunciator LED
- Detect common wiring problems immediately with the bright and easy-to-read indicator lights
- Conveniently verify both 'ground bottom' and 'ground top' style sockets with test code light legend on both sides
- Securely plug into outlets with the ergonomic, easy-grip design



YEAR 3 FULL PRODUCT WARRANTY

FLIR Test Accessories



TA12 General Purpose Accessory Case



TA80 CAT IV Silicone Test Probes



TA50 Magnetic Hanging Strap for Multimeters



TA14 Belt Holster for TG165/TG167



TA60 Thermocouple Probe with Adapter



TA55 AC Current Line Splitter



TA03-KIT, AAA Universal Rechargeable Battery



TA04-KIT, Lithium-Polymer Rechargeable Battery for DM28x, CM27x, and DM166

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FLIR VS70 Videoscope

The rugged, waterproof FLIR VS70 videoscope is the perfect solution for bringing hidden problems into view. It features intuitive handset controls for maneuvering the narrow camera probe into tight spaces, and a vivid 5.7 in. color LCD display so you can easily identify problems. Record videos and grab stills so you can document your findings.

Key Features:

- Intuitive handset controls for selecting angle of view
- Drop-tested and IP rated for splash and water resistance
- Long battery life plus car-charging option for all-day use
- Includes headset for recording voice annotations
- Multiple articulation options including two-way and four-way wireless controls
- Expansion cameras and add-on accessories available

SPECIFICATIONS	VS70
Display resolution	640 x 480 pixels
Display size	135 mm (5.7 in)
Battery life (continuous)	6 to 8 hours (integrated)
Frame rate	30 fps (NTSC & PAL)
Video/image transfer	SD card or USB
Camera diameter range	3.9 mm to 28 mm
Camera focal length options	Long view or short view macro
Camera length range	0.3 m to 30 m (0.98 ft to 98.4 ft)
Certifications	CE, FCC



YEAR 3 FULL PRODUCT WARRANTY



Best-Selling Videoscope Kits:

- **VS70-1** General purpose (wired) with 8 mm long-focus camera
- **VS70-3** 2-way articulation (wired) with 6 mm long-focus camera
- **VS70-3W** 2-way articulation (wireless) with 6 mm long-focus camera
- **VS70-KIT** Bundle with wired 2-way articulation 6 mm long-focus camera and 8 mm long focus camera
- **VS70-KIT-W** Bundle with wireless 2-way articulation 6 mm long-focus camera and 8 mm long-focus camera

More complete kits and a-la-carte options available. Contact FLIR to find the right solution for your application.

FLIR EM54 Environmental Meter

Designed for HVAC/R professionals inspecting and troubleshooting ducting systems within residential, commercial, and industrial facilities. Features air flow/velocity, humidity, temperature, wet bulb, and dew point functions

Key Features:

- Get accurate duct inlet and outlet air speed measurements with the external wide range, high-resolution anemometer
- User selectable units for air velocity: ft/min, m/sec, km/h, MPH, and knots
- Calculates duct airflow (CFM/CMM), wet bulb and dew point in addition to air temperature and relative humidity measurements
- Type K temperature probe included
- View readings clearly on the backlit multi-function display

ENVIRONMENTAL MEASUREMENTS	RANGE	ACCURACY
Air Velocity, Vane Anemometer Probe	0.4 to 30 m/s 79 to 5906 ft/min 1.4 to 108.0 km/h 0.9 to 67.2 mph 0.8 to 58.3 knots	±3% +0.2 m/s ±3% +40 ft/min ±3% +0.8 km/h ±3% +0.4 mph ±3% +0.4 knots
Air Flow	0 to 999900 CMM (0 to 999900 CFM)	
Air Temperature	10 to 30°C (50 to 86°F) -30 to 9.9°C (-22 to 50°F) and 31 to 60°C (88 to 140°F)	±1°C (1.8°F) ±2°C (3.6°F)
Air Relative Humidity	5% to 98%	±3.5%
Dew Point (Calculated)	-30 to 60°C (-22 to 140°F)	±3°C (4.8°F)
Wet Bulb (Calculated)	-30 to 50°C (-22 to 122°F)	±3°C (4.8°F)
Contact Temperature, Type K Thermocouple	-99.9 to 99.9°C (-148 to 212°F) 100 to 1372°C (212 to 2502°F)	±1.5% +1°C (1.8°F) ±1.5% +2°C (3.6°F)



YEAR 3 FULL PRODUCT WARRANTY



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FLIR MR176/MR160 Imaging Moisture Meters with IGM™

Featuring Infrared Guided Measurement (IGM™) powered by a FLIR Lepton® thermal imaging sensor, MR176 and MR160 help you quickly see temperature patterns that point to potential hidden moisture, so you know where to place the meter probe to capture accurate readings.



Common Features MR176 and MR160

- 80 × 60 (4,800 pixels) Lepton thermal imager guides you to potential moisture areas
- Document readings and images to share via USB cable
- Integrated pinless moisture measurements for fast detection, and external pin probe included with expandable probe options
- Equipped with a laser and crosshair to easily reference the location of the potential moisture issue seen in the thermal image
- Rugged, portable design with intuitive menu system

MR176 only

- Customize thermal images: select which measurements are integrated (moisture, temperature, relative humidity, dew point, vapor pressure, mixing ratio)
- A lock image setting prevents extreme hot and cold temperatures from interfering with images while scanning for issues
- Field-replaceable temperature/relative humidity sensor
- Progressive Environmental Stability informs you when the relative humidity readings have reached a steady state



FLIR MR77 Moisture Meter and Hygrometer

Rugged, feature-packed moisture meter incorporating a pinless sensor and a wired pin probe to capture moisture readings up to 1.9 cm (0.75 in) below the surface of various wood types and building materials. The MR77 also incorporates a laser-spot IR thermometer, a field-replaceable temperature/humidity sensor, and High/Low moisture and humidity alarms.

Key Features:

- Field-replaceable temperature and relative humidity sensor
- 2-meter drop-tested, rubber overmolded, pocket-sized design
- Industry-leading limited lifetime warranty with registration
- Features pinless moisture sensor, temperature and RH sensor, and IR thermometer for fast non-contact measurements
- Remote pin-type probe for contact moisture readings
- Bluetooth METERLiNK® technology wirelessly integrates moisture readings on images from compatible FLIR thermal cameras



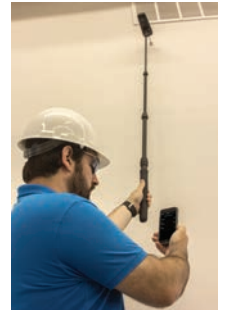
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FLIR MR59 Ball Probe Moisture Meter with Bluetooth®

The FLIR MR59 is a pinless meter with wireless connectivity, which offers the convenience to view live readings from a mobile device via the FLIR Tools® Mobile app. Thanks to the ball-shaped sensor, users can cover a large area in a short time without making a mark; measure into corners and around baseboards easily; and detect problems below the surface.

Key Features:

- Run the meter over and around objects on the measuring surface with the ball-probe sensor
- Identify potential moisture problems up to 100 mm (4 in) below the surface
- Wirelessly connect the meter to FLIR Tools Mobile to view readings on a mobile device
- Detect moisture in a wide range of common building materials
- Receive stable, repeatable readings
- Clear, easy-to-read display
- Work in dim conditions with the backlit display and bright worklight
- Use with the MR04 extension pole to reduce the need for a ladder, or to optimize ergonomics for 'high' and 'low' measuring targets (accessory not included)



FLIR MR12 Ball Probe Moisture Sensor

The FLIR MR12 is a ball-shaped moisture sensor accessory designed to extend the measurement range of the FLIR MR176, MR160, and MR60 moisture meters. Cover a large area in a short time without making a mark, and measure into corners and around baseboards easily. When there's no clear presence of moisture, the MR12's ball probe can help you detect moisture below the surface, and determine the moisture migration path from the source.

Key Features:

- Supports wide range of common building materials
- Senses moisture up to 100 mm (4.0 in), depending upon material tested
- Compatible with FLIR MR60, MR160, and MR176 moisture meters
- Optional MR04 extension pole helps optimize ergonomics for high and low targets
- Auto Power Off after 5 minutes
- Functions up to 40 hours on one battery (without worklight)
- Handgrip designed to prevent interference with measurement
- Drop-tested to 2 meters



FLIR MR60 Combination Pin/Pinless Moisture Meter

The FLIR MR60 is an advanced pin and pinless moisture meter offering the flexibility of destructive and non-destructive measurements. Select one of the 11 material groups for pin moisture or set a reference point for pinless moisture scanning. Then conveniently save screenshots of your measurements as a CSV file with the date, time, and settings.

Key Features:

- Save up to 10,000 screenshots to transfer and view on a PC
- Programmable high-moisture alarm with audible and color/visual alerts
- Bright, easy-to-read display
- Includes FLIR Tools® professional reporting software
- Rugged design that can withstand a 3-meter drop



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