



The World's **Sixth Sense**®

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.



CHECK OUT OUR **NEW**
FLIR THERMAL CAMERAS AND
TEST INSTRUMENTS!

FLIR cameras are used weekly at our customers' facilities to verify that energized electrical connections are not overheating. We have also used FLIR cameras in the truck repair shop to identify blockages in cooling systems. Our FLIR camera has also been used to pinpoint roof leaks in our old admin building. Very valuable!

-Lisa Phillips,
Electrical Engineer, Altorfer Power Systems



With FLIR, we located several electrical hot spots that could have shut buildings or areas down and were able to repair ahead of time on our schedule with no failure. We also located two roof leaks that the roofers could not find and repair on their own.

- Facilities Manager, Fortune 500
Telecommunications Services Company

INTRODUCING FLIR'S NEW, EXCLUSIVE INFRARED GUIDED MEASUREMENT (IGM™) TECHNOLOGY



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.

IGM technology, driven by a FLIR Lepton® thermal camera core, allows FLIR to develop unique products that help you to visually pinpoint potential issues — instantly and efficiently – before, during, and after work is performed.



292 organizations saved their customer or organization an average of \$774,250 with their FLIR product.

-TechValidate survey of FLIR users



OUR LATEST INNOVATIONS **NEW**

Leveraging our 50-year history as the world's largest supplier of thermal imaging technology to military, government, and commercial customers, FLIR introduces a new line of test & measurement instruments built upon our commitment to innovation, quality, and reliability.



FLIR DM284

Imaging True RMS multimeter with IGM

p.16



FLIR ONE PRO

3rd generation thermal accessory for mobile devices



FLIR C3

Pocket thermal imaging camera with Wi-Fi connectivity



FLIR Exx-Series

Advanced thermal imaging cameras with laser distance meter and MSX



AX8

Thermal imaging sensor for continuous monitoring



FLIR MR40

Pocket-sized, easy-to-use moisture pen + flashlight

FLIR ONE PRO® Thermal Imaging Camera Attachment

The all new FLIR ONE Pro is a must-have for any inspector or contractor's toolbox.

Combining enhanced high resolution MSX™ imagery with powerful measurement tools and report generation capability, the FLIR ONE Pro works almost as hard as you do.

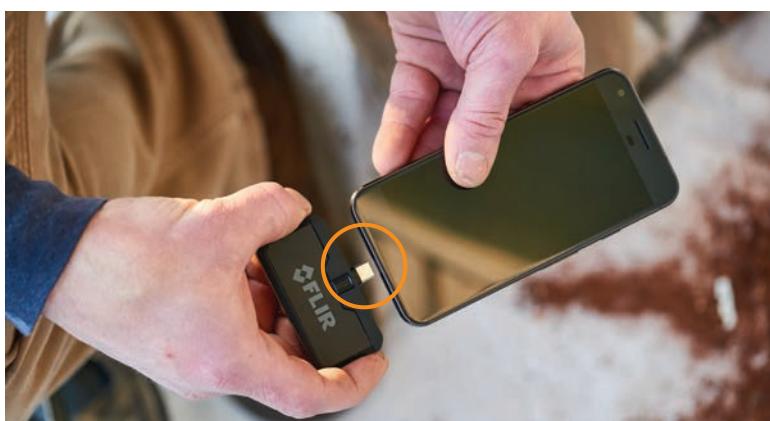
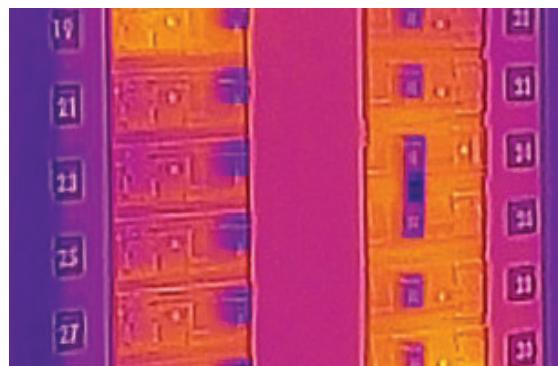
With our exclusive VividIR™ image processing, the FLIR ONE Pro gives you the sharpest mobile thermal image you've ever seen. One size fits all with our brand new adjustable connector — ensuring that your FLIR ONE Pro will fit your phone or tablet, even with its rugged case still in place so you don't have to choose between protecting your phone and thermal vision.

Key Features:

- MSX-enhanced thermal images provide stunning detail to help you identify problem areas easier
- VividIR advanced image processing delivers true super-resolution image enhancement for stunningly crisp imagery and fine detail
- Ruggedized design that can withstand a 1.8-meter drop
- OneFit™ adjustable connector adapts your FLIR ONE Pro to fit with almost any phone case
- Measure the temperature of any spot in a scene between -4°F and 248°F (-20° to 120°C), and detect temperature differences as small as 0.18° F (0.1° C)
- One-touch reporting lets you share thermal images and videos to the social media platform of your choice
- Explore additional features like FLIR ONE Panorama™, FLIR ONE TimeLapse™, and FLIR ONE CloseUp™ functions



Available Late Q2 , 2017



Use FLIR ONE to check overheating breakers or missing insulation behind walls.

► OneFit adapts your FLIR ONE to fit with almost any phone case

FLIR C2 and FLIR C3

Full-featured, Pocket-sized Thermal Cameras

NEW

The FLIR C3 and C2 are your go-to tool 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 one you choose, you'll be ready anytime to find hot fuses, cold air leaks, plumbing issues, and more.

Key Features:

- Captures Thermal Measurements from -10°C to 150°C (14 to 302°F)
- Pocket Portable: keep it on you and at your side, ready for immediate use so you don't miss an opportunity
- Brilliant 3" intuitive touch screen with auto orientation for easy viewing
- 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
- FLIR's 2-10 warranty covers parts and labor for two years and the detector for ten
- Wi-Fi enabled for instant peer-to-peer image sharing (C3 only)
- Picture-in-Picture (C3 only)
- Area measurement box measures hottest or coldest spot (max./min.) (C3 only)



Specifications	FLIR C2	FLIR C3
IR resolution	80 x 60 (4,800 pixels)	
Thermal sensitivity	<0.10°C	
Field of view	41° x 31°	
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	
Frame rate	9 Hz	
Focus	Focus free	
Picture-in-picture	N/A	IR area on visual image
Area	N/A	Box with max. or min.
Wi-Fi	N/A	Standard 802.11 b/g/n

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

Now you can afford the ultimate inspection tool and gain a competitive advantage. The E4, E5, E6, and E8 infrared cameras are powerful and extremely cost-effective troubleshooting tools. Blow customers away with dramatic MSX thermal images that clearly reveal problems

Key Features:

- 3" color LCD display
- Wi-Fi connectivity to mobile devices via FLIR Tools Mobile app
- Simple button navigation
- On-board 640 x 480 digital camera
- Fully automatic, lightweight, easy to use, weighs only 1.2lbs
- 2% accuracy
- File format: radiometric jpg
- Swapable Li-ion battery with 4-hour life

- Simultaneous storage of IR/Visual/MSX images
- Picture-in-picture image
- Area box measurement mode
- Each includes power supply/charger with four plugs, rechargeable battery, FLIR Tools software, USB cable, and hard transport case. E8 also includes extra battery and external battery charger
- FLIR's 10-5-2 warranty provides a 10-year warranty on the IR detector, 5-year protection on field-replaceable batteries, and 2-year coverage on parts and labor

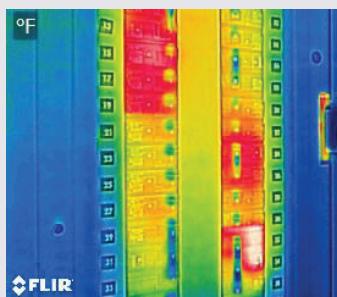


Specifications	FLIR E4	FLIR E5	FLIR E6	FLIR E8
IR resolution	80 x 60 (4,800 pixels)	120 x 90 (10,800 pixels)	160 x 120 (19,200 pixels)	320 x 240 (76,800 pixels)
Thermal sensitivity	<0.15°C	<0.10°C	<0.06°C	<0.06°C
Digital camera resolution			640 x 480	
Temperature range			-20 to 250°C (-4 to 482°F)	
Measurement modes		3 modes: 1 Spot (center); 1 Area Box (Min/Max); Isotherm (above/below)		
Frame rate			9Hz	
Field of view			45° x 34°	
Focus			Focus free	

What is MSX®?

NEW Exclusive MSX® Thermal Imaging Technology Made Affordable for Everyday Use

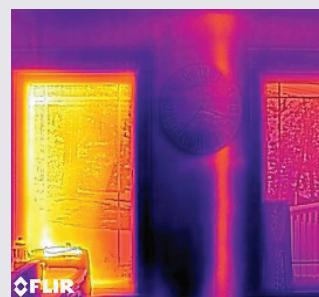
Multi-Spectral Dynamic Imaging (MSX) for easier interpretation of an image - adds visible spectrum definition to IR images by detecting the edges of objects and including that detail in the thermal image. Text becomes clearly visible so that you can read a label or identifier within the IR image. This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



Breaker Panel



Missing Insulation



Warm Drain Pipe in Wall

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.

With up to 161,472 pixel resolution and a larger, more vibrant LCD screen than any other pistol-grip thermal camera, Exx-Series cameras make it easier than ever to identify hot spots, discover potential points of failure, and diagnose problems – even at a distance. Avoid costly shutdowns and lost production time through regular predictive maintenance routines with these rugged, intuitive cameras.

Offering superior sensitivity and a true 42° field of view in a user-friendly, handheld platform, Exx-Series cameras can detect even subtle indications of building deficiencies and moisture intrusion, and provide on-screen area measurement so you can easily quantify and document air leaks, moisture, and other building problems.

Key Features:

- Interchangeable, auto-calibrating lenses
- Up to 464 x 348 (161,472 pixels) IR resolution
- Our best MSX® image enhancement adds depth and detail to images
- UltraMax™ processing for 4x pixel resolution
- Vibrant 4" touchscreen with 160° viewing angle
- True 42° field of view
- Laser-assisted autofocus
- Streamlined reporting features
- Rapid-response touch screen with intuitive new user interface
- Convenient menu buttons 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 (E85, E95)
- Wide temperature ranges up to 1,500°C (E95)

**FLIR
Exx-SERIES
STARTS AT
\$6,999**



Specifications	FLIR E75	FLIR E85	FLIR E95
IR Resolution	320 x 240 (76,800 pixels)	384 x 288 (110,592 pixels)	464 x 348 (161,472 pixels)
Thermal Sensitivity		< 0.03°C @ 30°C	
Object Temperature Range	-20°C to 650°C (-4°F to 1,200°F) Optional 300°C to 1,000°C (572°F to 1,830°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)
Image Frequency		30 Hz	
Field of View (FOV)	24° x 18° (18 mm lens), 42° x 32° (10 mm lens), 14° x 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	
UltraMax™	Super-resolution process quadruples pixel count, activated in FLIR Tools+		
Laser Distance Measurement		Yes, on-screen	
Laser Area Measurement (m² or ft²)	No	Yes	Yes
Measurement Presets	No measurement, center spot, hot spot, cold spot, User Preset 1, User Preset 2		
Spotmeter	1 in live mode	3 in live mode	3 in live mode
Area Box	No	3 in live mode	3 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		



Select FLIR meters communicate with Exx cameras via Bluetooth



Mobile devices communicate with Exx cameras via Wi-Fi

FLIR T-Series High Performance Thermal Imaging Cameras

Highest Resolution Highest Sensitivity & Widest Temperature Range

- Accurate, Reliable Readings** Maximum flexibility and efficiency for accuracy from farther away. Crisp thermal images with up to 307,200 pixels (640 x 480) for the best detection, pictures and temperature measurements from long range and up to 1.2 million pixels with ULTRAMAX™.
- ULTRAMAX Technology** - Enhances thermal resolution to create a higher definition radiometric JPEG with up to four times as many pixels and better distance accuracy than the native image.
- MSX Thermal Image Enhancement** Etches detail from the visible light camera onto the thermal image to help you see exactly where problems are without compromising the thermal image or temperature data.
- Flex Ergonomics** Scan targets up high, down low (like MCC's), and from tough angles while keeping the display in view. Rotating optical block lens moves 120° up or down.
- Wi-Fi Connectivity** Send images and data via iOS/Android devices to share images and critical information quickly using the FLIR Tools Mobile app.
- Bright 4.3" Touchscreen** Tap the screen or buttons to quickly access temperature measurement tools, parameters, image modes and more.
- METERLiNK™ Technology** Wirelessly transmits extra diagnostic data from FLIR clamps, Multimeters and moisture meters directly to the camera for annotating thermal images to support further diagnostic testing.



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 T420	FLIR T440	FLIR T620	FLIR T640
IR Resolution	320 x 240 (76,800 pixels)		640 x 480 (307,200 pixels)	
Temperature Range	-20°C to 650°C (-4°F to 1,202°F)	-20°C to 1,200°C (-4°F to 2,192°F)	-40°C to 650°C (-40°F to 1,202°F) Optional: to 2,000°C (3,632°F)	-40°C to 2,000°C (-40°F to 3,632°F)
Thermal Sensitivity	<0.04°C @ 30°C		<0.03°C @ 30°C	
Display Size	3.5"	3.5"	4.3"	4.3"
Auto Focus	Manual & Automatic		Manual/Automatic/Continuous	
Viewfinder	No		Yes	

The Infrared Training Center

The 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

• Popular ITC courses:

Indoor Electrical Surveys using IR Thermography, Outdoor Electrical Surveys using IR Thermography, Building Inspection, Condition Monitoring

Come to classes at our training center or at one of our many regional locations. On-site training at your facility 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 or call 1.866.872.4647

- New to thermography? 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



FLIR AX8 Thermal Imaging Sensor

Continuous Condition and Safety Monitoring

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, process and manufacturing areas, data centers, energy generation and distribution, transportation and mass transit, storage facilities and refrigeration warehouses.

Specifications	
IR resolution	80 x 60 (4,800 pixels)
Thermal sensitivity/NETD	< 0.10°C @ +30°C (+86°F) / 100 mK
Field of view (FOV)	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
Emissivity correction	Variable from 0.01 to 1.0
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Alarm functions	Automatic alarms on any selected measurement function. A maximum of 5 alarms can be set
Alarm output	Digital Out, store image, file sending (ftp), email (SMTP), notification
Web interface	Yes
Storage media	Built-in memory for image storage
Ethernet, connector type	M12 8-pin X-coded
Ethernet, video streaming	Yes
Ethernet, power	Power over Ethernet, PoE IEEE 802.3af class 0
Ethernet, protocols	Ethernet/IP, Modbus TCP, TCP, UDP, SNTP, RTSP, RTP, HTTP, ICMP, IGMP, sftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour)
Image modes	Thermal, Visual, MSX

NEW



Also available as a kit that includes the sensor and accessories (Model # 71201-0101-KIT)

FLIR IR Windows

Faster and Safer Thermal Surveys

- 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
- Integrity and environmental ratings of cabinets are intact even after installation
- Windows are sized to match dimensions of standard knockout punches
- Easy to install with no screws involved



Model Size	IRW-2C/2S 2" Window	IRW-3C/3S 3" Window	IRW-4C/4S 4" Window
NEMA Environment Type		Type 4/12 (outdoor/indoor)	
Automatically Grounded		Yes	
Maximum Operating Temperature		500°F/260°C	
Body Material - IRW-xC Type		Anodized Aluminum	
Body Material - IRW-xS Type		AISI grade 316 stainless steel	

FLIR TG165/TG167 Spot Thermal Cameras

Find an unseen world of problems ordinary meters miss

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 exclusive Lepton® micro thermal camera, the TG165 and TG167 help you identify heat patterns so you can pinpoint areas for 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:

- TG165: 50° x 38.6° wide field-of-view (FOV) for building inspections
- TG167: 25° x 19.6° tighter FOV for electrical/mechanical scans
- Captures temperatures from -25°C to 380°C (13°F to 716°F)
- True thermal detection – best-in-class image quality
- Portable design with balanced, contoured grip
- Tripod mount and lanyard connection
- Simple to operate – intuitive buttons and menu
- Rugged and reliable – withstands a 2-meter drop
- Dual laser pointers to frame area of interest
- Convenient pull-trigger activates lasers and freezes images
- Micro SD card & mini-USB port for downloading images and charging

NEW



FLIR TG54/TG56 Spot IR Thermometers

Easily take measurements in hard-to-reach spots from farther away

The TG54 and TG56 Spot IR (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:

- Take non-contact surface temperature measurements with IR sensor
- 24:1 or 30:1 spot ratio to measure smaller targets from a safer distance
- 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
- Stunning visual high and low alarms
- Rugged, industrial design that can withstand a three meter drop
- Bright LED worklight to help you see your target in poor lighting conditions
- Tool-less battery compartment



Spot IR 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 Milliseconds	
Spectral Response	5 to 14 microns	

FLIR VP50 Non-Contact Voltage (NCV) Detector + Flashlight

Reliably detects voltages on the latest tamperproof outlets and electrical systems



Key Features:

- Safe CAT IV-1000V rating and toolbox tough with rubber reinforced case and buttons, and a low-profile detection tip
- Vibration and red LED alarms alert users to the presence of voltage in noisy areas
- Versatile High/Low sensitivity modes detect voltage on industrial equipment and low-voltage installations
- Powerful LED worklight always at the ready to illuminate poorly lit locations
- Inspection light at the probe tip facilitates testing in dark areas
- Long run-time capable with power saving Low Battery Indication and Auto Power Off
- Rugged double molded design
- Includes 2 AAA batteries, user manual and limited lifetime warranty



Dual Voltage Range



Technical Summary/ Features

Voltage Ranges	90 to 1000V 24 to 1000V
Category Rating	CAT IV-1000V
Frequency Range	45 - 65Hz
Built-in Flashlight	LED (60 Lumens)
Vibrating Indication	Yes
On/Off Switch	Yes
Warranty	Limited Lifetime*

FLIR Test Accessories



TA12 General Purpose Accessory Case



TA80 CAT IV Silicone Test Probes



TA50 Magnetic Hanging Strap for DM9x Series



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 DM284

FLIR CM174 Imaging 600A AC/DC Clamp Meter with IGM™

The FLIR CM174 is the first clamp meter equipped with a built-in thermal imager that can quickly lead you to problems you can't see with a standard clamp meter. Featuring Infrared Guided Measurement (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:

- Thermal resolution 80 x 60 (4,800 pixels)
- Conquer cluttered wires and cables – IGM can quickly guide you in the right direction
- 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
- Amperage and voltage measurements
- 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, Smart Diode with Disable

Specifications	Range	Basic Accuracy
AC/DC Voltage	1000V	±1.0%
VFD AC Voltage	1000V	±1.0%
LoZ Mode AC Voltage	1000V	±1.0%
LoZ Mode DC Voltage	1000V	±1.0%
DC Current	600.0A	±2.0%
AC Current	600.0A	±2.0%
VFD AC Current	600.0A	±2.0%
Inrush AC Current	600.0A	±3.0%
Inrush AC Current Threshold	Min 0.5A, Integration Time 100ms	
Frequency	60.00kHz	±0.1%
Resistance	6000Ω	±1.0%
Continuity	600.0Ω	±1.0%
Capacitance	1000µF	±1.0%
Diode	1.5V	±1.5%



FLIR CM72/CM74 Commercial 600A Clamp Meters

Key Features:

- Made with a narrow jaw for easy access to wiring in crowded panels and cabinets
- Slim clamp design makes it convenient to carry in your back pocket
- Dual bright high-powered LED worklights guide you to your target in poor lighting conditions
- Advanced electrical features including: True RMS, LoZ, VFD Mode (CM74 only), Inrush (CM74 only)
- Smart Diode with Disable

- Expandable to 3000A AC with TA72 & TA74 Flex Clamp Accessories (sold separately)
- Min / Max, Hold and Auto Power Off with Disable
- Premium gold-tipped silicone test lead accessories included
- Large digit LCD display with bright backlight
- Rubberized double molded hand grips reduce slippage

Electrical Measurements	CM72 Max Range	CM74 Max Range	Basic Accuracy
AC/DC Voltage	600.0V	1000V	±1.0%
VFD AC Voltage	-	1000V	±1.0%
LoZ Mode AC/DC Voltage	600.0V	1000V	±1.0%
DC Current	-	600.0A	±2.0%
AC Current	600.0A	600.0A	±2.0%
VFD AC Current	600.0A	600.0A	±2.0%
Inrush AC Current	-	600.0A	±3.0%
Frequency	60.00kHz	60.00kHz	±0.1%
Resistance	6000Ω	6000Ω	±1.0%
Continuity	600.0Ω	600.0Ω	±1.0%
Capacitance	1000µF	1000µF	±1.0%
Diode	1.5V	1.5V	±1.5%



FLIR CM82/CM83/CM85 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 bargraph, integrated non-contact voltage detector, min/max/average, auto power off, data hold, peak hold, relative, DCA zero, and battery status

Model CM82

- 600A True RMS AC/DC Current Measurement

Model CM83 (600A) / CM85 (1000A)

- True RMS AC/DC Current Measurement
- FLIR Tools Mobile connects the FLIR CM83 to compatible smartphones and tablets via Bluetooth for remote viewing and sharing
- METERLiNK technology wirelessly embeds electrical clamp meter readings into radiometric infrared images captured with compatible FLIR Thermal Cameras
- Includes: CAT IV Silicone Test Leads, 6 AAA Batteries, User Manual/CD, and Limited Lifetime Warranty



Specifications	CM82	CM83	CM85	Basic Accuracy
AC/DC Current	600A	600A	1000A	±2%
AC/DC Voltage	1000V	1000V	1000V	±1% / 0.7%
AC VFD Voltage	1000V	1000V	1000V	±1%
Harmonics	1st-25th Order	1st-25th Order	1st-25th Order	±5%
Total Harmonic Distortion	0.0 to 99.9%	0.0 to 99.9%	0.0 to 99.9%	±3%
Inrush Current	600ACA (Integration Time 100ms)	600ACA (Integration Time 100ms)	1000ACA (Integration Time 100ms)	±3%
Active Power	10kW to 600kW (10V, 5A min)	10kW to 600kW (10V, 5A min)	10kW to 1000kW (10V, 5A min)	±3%
Diode Test	0.4 to 0.8V	0.4 to 0.8V	0.4 to 0.8V	±0.1V
Capacitance	3.999mF	3.999mF	3.999mF	±1.9%
Resistance	99.99kΩ	99.99kΩ	99.99kΩ	±1%
Continuity Threshold	30Ω	30Ω	30Ω	±1%
Frequency	20.00Hz to 9.999kHz	20.00Hz to 9.999kHz	20.00Hz to 9.999kHz	±0.5%
Bluetooth Range Max	—	32ft (10m)	32ft (10m)	—
Jaw Opening	1.45in (37mm, 1000MCM)	1.45in (37mm, 1000MCM)	1.77in (45mm)	—
Category Rating	CAT IV-600V, CAT III-1000V			
Battery Type	6 x AAA			
Warranty	Limited Lifetime*			

* When registered within 60 days of purchase.

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

The FLIR CM4X Clamp Meter series includes three affordable True RMS meters designed for commercial and residential electricians. The CM42 and CM44 feature AC clamp measurement, and the CM46 offers both AC and DC measurements, and center-point temperature readings.

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
- Tough, over-molded, easy grip design and slim, portable size
- Durable to withstand a 2-meter drop, and operates at -10°C to 50°C (14°F to 122°F)
- Built to accept up to a 30mm max conductor
- Electrical field detection (NCV) determines if voltage is present and relative strength of the field



Measurements	CM42	CM44	CM46	Basic Accuracy
DC Voltage	600 V	600 V	600 V	±1.0%
AC Voltage (Digital Low Pass Filter/VFD)	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) (100-400 Hz)	400 A	400 A	400 A	±1.8% ±2.0%
Accu-Tip Clamp-On AC Current	60 A	60 A	60 A	±1.5%
Clamp-On DC Current	—	—	400 A	±2.0%
Accu-Tip Clamp-On DC Current	—	—	60 A	±2.0%
Frequency	50-400 Hz	50-400 Hz	50-400 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%
DCµA	—	2000 µA	2000 µA	±1.0%
Temperature	—	-40°C to 400°C (-40°F to 752°F)	-40°C to 400°C (-40°F to 752°F)	±1.0%

General Meter	
Display	3-5/6 digits 6000 counts
Operating Temperature	-10°C to 50°C (14 to 122°F)
Continuity	10Ω < & < 250Ω
Recording	Min / Max / Avg
Backlight LCD	Yes
Certifications	UL, CE
Category	CAT IV 300V / CAT III 600V
Jaw Opening	30 mm Max
Warranty	Limited Lifetime
Battery Type	2x AAA



Accu-Tip enables more accurate amperage measurements

FLIR CM55/CM57 Flexible Clamp Meters

FLIR Flexible Clamp Meters with Bluetooth® are ergonomic tools designed to simplify your work every day.

Key Features:

- 3000A AC True RMS current measurements
- Convenient 10" or 18" flexible clamp with locking mechanism
- Inrush current for equipment start-up spikes
- Bluetooth to mobile devices for remote viewing
- Data recording for trend analysis transferable via Bluetooth
- Bright LED work lights for easy inspection and navigation
- Limited Lifetime Warranty with Registration



Specifications	CM55	CM57
Maximum AC Current	3000A AC	3000A AC
AC Response	True RMS	True RMS
AC Current Ranges & Resolution	30.00A, 300.0A, 3000A	30.00A, 300.0A, 3000A
Basic AC Current Accuracy	± 3.0% + 5 digits	± 3.0% + 5 digits
Maximum Resolution	0.01A	0.01A
AC Current Bandwidth	45Hz – 500Hz (sine wave)	45Hz – 500Hz (sine wave)
Inrush Current	Min 0.5A, 100mS	Min 0.5A, 100mS
Data Record Mode	20000 points, 1 min Sample Rate	20000 points, 1 min Sample Rate
	30.00 A ±(3.0% + 5 digits)	30.00 A ±(3.0% + 5 digits)
	300.0 A ±(3.0% + 5 digits)	300.0 A ±(3.0% + 5 digits)
Detailed Accuracy	3000 A ±(3.0% + 5 digits)	3000 A ±(3.0% + 5 digits)
	30.00 A ±(3.0% + 5 digits)	30.00 A ±(3.0% + 5 digits)
	300.0 A ±(3.0% + 5 digits)	300.0 A ±(3.0% + 5 digits)
	3000 A ±(3.0% + 5 digits)	3000 A ±(3.0% + 5 digits)
Positional Error (Distance from optimum)	0.6" (15mm) 2.0% 1.0" (25mm) 2.5% 1.4" (35mm) 3.0%	1.4" (35mm) 1.0% 2.0" (50mm) 1.5% 2.4" (60mm) 2.0%

FLIR TA72/TA74 Flexible Clamp Adapters

Designed to add capabilities, simplify challenges and get the best readings with your existing meter

Key Features:

- Adds 3000A AC current measurements to existing meters
- Convenient 10" or 18" flexible clamp with locking mechanism
- AC voltage probe output for universal compatibility
- Banana plug connections fit most meters
- Switchable AC current range: 30A, 300A, 3000A
- Bright LED work lights for easy inspection
- Limited lifetime warranty with registration

Specifications	TA72/TA74
Maximum AC Current	3000A AC
AC Current Ranges & Resolution	30.00A, 300.0A, 3000A
Basic AC Current Accuracy (full scale)	± 3.0% + 5 digits
Measurement Rate	1.5 samples per second, nominal
AC Current Bandwidth	45Hz – 500Hz (sine wave)
	30.00 A ±(3.0% + 5 digits)
Detailed Accuracy	300.0 A ±(3.0% + 5 digits)
	3000 A ±(3.0% + 5 digits)
Positional Error (Distance from optimum)	1.4" (35mm) 1.0% 2.0" (50mm) 1.5% 2.4" (60mm) 2.0%



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 Infrared Guided Measurement that visually shows you where hot spots are so you can pinpoint where to investigate further. 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.

NEW



Key Features:

- See exactly where to measure with the 160 x 120 resolution thermal imaging
- Verify issues with trusted readings every time, even with complex measurements
- 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
- Durable and drop tested with 10-year warranty



Thermal Imaging

IR Resolution	160 x 120 (19,200 pixels)
Sensitivity	≤ 150 mK
Emissivity	4 Presets with Custom Adjustment
Accuracy	3°C or 3.5%
Range	-10°C to 150°C (14°F to 302°F)
FOV (w x h)	46° x 35°
Laser Pointer	Yes
Focus	Fixed



Thermal scan of an electrical panel

Measurements	Range	Accuracy
AC / DC Volts	1000V	1% / 0.09%
AC / DC mVolt	600.0mV	1% / 0.5%
VFD	1000V	±1.0%
AC / DC LoZ V	1000V	±1.5%
AC / DC Amps	10.00A	±1.5%
AC / DC mAmps	400.0mA	±1.5%
AC / DC µAmps	4,000µA	±1.0%
Resistance	50 MΩ	0.9%
Continuity	Yes	Yes
Capacitance	10.00mF	1.9%
Diode	Yes	Yes
Min/Max/Avg	Yes	Yes
Flex Clamp Range	3000A AC (Optional TA72/74)	± 3.0% + 5 digits
Frequency Range	99.99kHz	0.1%
Thermocouple	Type K -40°F to 752°F (-40°C to 400°C)	±1.0% + 5.4°F (DMM) ±1.0% + 9°F (IGM)



Also available as a kit (DM284-FLEX-KIT) that includes 3,000A Flex Clamp and rechargeable battery

FLIR DM90/DM92/DM93 True RMS Industrial Multimeters

Our world-class digital multimeters offer variable frequency drive filtering to help you accurately analyze non-traditional sine waves and noisy signals.

Key Features:

- LoZ eliminates ghost voltage readings caused by long wires that share a conduit
- Powerful LED worklight for performing tests in dim lighting
- Durable double-molded construction and IP54 rating (DM92/DM93: 2m drop test, DM90: 3m drop test)
- True RMS Voltage and Current, Bright White LED Backlight, Analog Bargraph, Min, Max, Average, Auto Power Off, Data Hold, Relative
- **DM90 additional features:** AC/DC μ A Current
- **DM92/93 additional features:** Auto AC/DC Voltage, Recording, Peak Hold; Manually store and recall up to 99 readings

Technical Summary	Max Range	Basic Accuracy
DC Voltage	1000.0V	$\pm 0.05\%$
AC Voltage	1000.0V	$\pm 0.5\%$
VFD Voltage	1000.0V	$\pm 0.5\%$
DC Current	10.000A	$\pm 0.2\%$
AC Current	10.000A	$\pm 1.0\%$
Resistance	40.00M Ω	$\pm 0.2\%$
Continuity Threshold	30 Ω	$\pm 0.2\%$
Frequency	100.00kHz	± 5 Digits
Capacitance	40.00mF	$\pm 0.9\%$
Temperature	-328 to 2192°F, -200 to 1200°C	$\pm 1.0\%$
Diode Test	2V	$\pm 1.5\%$



DM93 Additional Features:

- Data Record captures electrical measurements and provides wireless data transfer
- Integrated Bluetooth technology connects the FLIR DM93 to the FLIR Tools Mobile app on compatible mobile device for remote viewing and sharing
- METERLiNK technology wirelessly sends the electrical readings to compatible FLIR infrared cameras, embedding the data into live and saved thermal images

FLIR IM75 Insulation & DMM Combo with METERLiNK

An advanced multifunction digital multimeter and premier handheld insulation tester for installation, troubleshooting and maintenance professionals.

Key Features:

- Advanced Insulation Modes
- Multiple resistance insulation test level ranges
- LED indicator with Compare Mode
- Transmit readings to METERLiNK-enabled FLIR thermal imaging cameras, or view real-time readings on Android or iOS devices with free FLIR Tools Mobile app
- Extremely bright LED worklights in a flood pattern to illuminate test areas and targets
- Durable double-molded construction (IP54, 2m Drop Test)

Technical Summary	MAX Range	Basic Accuracy
Insulation Resistance	4M to 20G Ω	$\pm 1.5\%$
Insulation Test Voltages	50, 100, 250, 500 and 1000V	$\pm 3.0\%$
DC Voltage	1000.0V	$\pm 0.1\%$
AC Voltage	1000.0V	$\pm 1.5\%$
VFD AC Voltage	1000.0V	$\pm 1.5\%$
Earth Bond Resistance	40 Ω to 40K Ω	$\pm 1.5\%$
Capacitance	10 mF	$\pm 1.2\%$
Frequency (ACV)	40kHz	± 5 digits
Diode Test	2V	$\pm 1.5\%$
Continuity	400.0 Ω	$\pm 0.5\%$



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 x 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 cross hair 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 MR40 Moisture Pen + Flashlight

The FLIR MR40 is a rugged, 2-pin single scale moisture meter with an integrated flashlight for wood and common building materials. It provides builders, remodelers, residential roofing and flooring contractors, and pest control professionals a quick and reliable means to check for and quantify moisture content. With a pen-like form factor the MR40 can be carried in your pocket, ready to work when you are.



Key Features:

- Pocket size
- Sleek design for getting into corners
- 3-meter drop tested
- IP54 splash-proof rated
- Clear LCD display
- Replaceable pins, 2nd set included
- Calibration/ pin check integrated in cap
- Audible indication of measured range (5-12%, 13- 60%, 60+ %)
- Measurement 'Hold' function
- Auto Power Off
- Lanyard cap retention
- Limited lifetime warranty

Available Q2 , 2017

FLIR MR77 Moisture Meter

Rugged, feature-packed moisture meter incorporating a pinless sensor and a wired pin probe to capture moisture readings up to 0.75" 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 your image with FLIR Thermal Cameras





MR08 Hammer/Wall Probe Combo complete with pins and case

Upgrade your Moisture meter

FLIR Moisture probe accessories

FLIR offers a quality line of probe accessories to upgrade your FLIR moisture meter to meet advanced measurement challenges. Use our optional external pin probes on hard woods and dense materials, in deep wall cavities, or to get through an obstruction like sub floor through hardwood flooring. Designed for everyday job site use, we focused on durability of the system (probe, pins and cord), ease of use, and versatility.

Part Number	MR05 Impact Probe	MR06 Wall Cavity Probe	MR07 Hammer Probe	MR08 Hammer/Wall Probe Combo	MR09 Baseboard Probe
Impact Plate (to use your own hammer)	✓	✓	—	✓	—
Integrated Slide Hammer	—	—	✓	✓	—
Insulated Pins (included)	—	4" & 6"	2x2"	2x2", 4" & 6"	—
Extension Pins	—	✓	—	✓	—
Shoulder Case (included)	—	—	✓	✓	—
Works with MR77, MR160, MR176	✓	✓	✓	✓	✓
No Slip Rubber Grips	✓	✓	✓	✓	✓
Replaceable Pins	✓	✓	✓	✓	—
Detachable Cord with Durable Connection	✓	✓	✓	✓	✓
2 Year Warranty	✓	✓	✓	✓	✓

EX350 Series True RMS Multimeters with LPF and LoZ

NEW

Professional meters loaded with advanced features and functions including Low Pass Filter (LPF) and Low Impedance (LoZ)

Key Features:

- Low Pass Filter (LPF) for accurate measurement of variable frequency drive signals
- LoZ prevents false readings caused by ghost voltages
- Built-in Non-contact AC Voltage Detector (NCV) with LED indicator
- CAT III-600V rating

Specifications	EX350	EX355
Display Counts	4000	6000
Basic DCV Accuracy	±0.5%	±0.5%
NCV Detector	Yes	Yes
DC/AC Voltage	0.01mV to 600V	0.01mV to 600V
DC/AC Current	0.1µA to 10.00A	0.1µA to 10.00A
Resistance	0.1Ω to 40.00MΩ	0.1Ω to 60.00MΩ
Capacitance	1pF to 60.00mF	1pF to 60.00mF
Frequency	0.001Hz to 10MHz	0.001Hz to 10MHz
Temperature (Type K)	—	-40 to 1832°F (-40 to 1000°C)
Duty Cycle	0.1 to 99.9%	0.1 to 99.9%
Diode Test	3.2V	3.2V
Continuity	Audible	Audible


 EX355
with Temperature

EX360 Series CAT IV TRMS Multimeters + NCV + LoZ

Choose a CAT IV-600V multimeter designed for electrical, HVAC, or industrial applications with LoZ function for accurate Voltage readings

Key Features:

- LoZ prevents false readings caused by ghost voltages
- Built-in Non-contact AC Voltage Detector (NCV) with LED indicator
- Smart Data Hold freezes the displayed reading and automatically updates the reading and alerts user (audibly and visually) if the measurement changes ±50 counts
- Large white LED backlit display with 60-segment analog bargraph for viewing trends

Specifications	EX360	EX363	EX365
Basic Accuracy (DCV)	0.5%	0.5%	0.5%
NCV Detector	Yes	Yes	Yes
DC/AC Voltage	0.1mV to 1000V	0.1mV to 1000V	0.1mV to 1000V
DC/AC Current	—	—	1mA to 10A
DC/AC µA Current	—	600µA	—
Resistance	0.1Ω to 40MΩ	0.1Ω to 40MΩ	0.1Ω to 40MΩ
Capacitance	1nF to 10mF	1nF to 10mF	1nF to 10mF
Frequency	0.01Hz to 100kHz	0.01Hz to 100kHz	0.01Hz to 100kHz
Temperature (Type K)	—	-40 to 742°F (-40 to 394°C)	—
Diode Test/Continuity	Yes	Yes	Yes


 Model EX363
HVAC DMM

 Model EX365
Industrial DMM


Includes test leads, 9V battery, holster with tilt stand and built-in magnet, and general purpose bead wire temperature probe (Model EX363);
1-year warranty

EX650 Series True RMS 600A Clamp Meters

Professional clamps featuring Low Impedance (LoZ) mode and choice of advanced model with Low Pass Filter (LPF) and Inrush functions

Key Features:

- 1.18" (30mm) jaw size accommodates conductors up to 350MCM
- LoZ prevents false readings caused by ghost voltages
- μ A function for HVAC flame rod current measurements
- Built-in Non-contact AC Voltage Detector (NCV) with LED indicator
- 6000 count backlit LCD display
- Min/Max captures highest and lowest readings
- Convenient LED worklight for viewing in dimly lit area



Model EX650

Model EX655



CE



Model MA443

Model MA445



CE

Specifications	EX650	EX655
AC Current (Max Res.)	6A, 60A, 600A (0.001A)	60A, 600A (0.01A)
DC Current	—	60A, 600A (0.01A)
Basic Accuracy	ACA: $\pm 2.5\%$ of rdg	ACA: $\pm 2.5\%$ of rdg; DCA: $\pm 2.5\%$ of rdg
AC/DC μ A Current (Max Res.)	600 μ A (0.1 μ A)	600 μ A (0.1 μ A)
DC Voltage (Max Res.)	1000V (0.1mV)	1000V (0.1mV)
AC Voltage (Max Res.)	750V (1mV)	750V (1mV)
Basic Accuracy	ACV: $\pm 1.2\%$ of rdg; DCV: $\pm 0.8\%$ of rdg	ACV: $\pm 1.2\%$ of rdg; DCV: $\pm 0.8\%$ of rdg
Non-Contact Voltage (NCV)	100 to 1000V	100 to 1000V
Resistance (Max Res.)	60M Ω (0.1 Ω)	60M Ω (0.1 Ω)
Capacitance (Max Res.)	60mF (0.01nF)	60mF (0.01nF)
Frequency (Max Res.)	—	10Hz to 1MHz (0.01Hz)
Temperature (Max Res.)	—	-40 to 1832°F (1°F) -40 to 1000°C (1°C)
Continuity Beeper	Yes	Yes
Diode Test	Yes	Yes

MA443/MA445 True RMS 400A Clamp Meters + NCV

Pocket-sized meter with built-in Non-Contact Voltage detector and choice of AC or AC/DC Current model

Key Features:

- 1.2" (30mm) jaw size accommodates conductors up to 500MCM
- 4000 count backlit LCD display
- Built-in flashlight illuminates work area
- CAT III-600V category rating

Specifications	MA443	MA445
AC Current	4.000A, 40.00A, 400.0A (1mA)	40.00A, 400.0A (10mA)
DC Current	—	40.00A, 400.0A (10mA)
Current Accuracy	AC: $\pm 1.8\%$	AC: $\pm 2.5\%$, DC: $\pm 2.0\%$
DC Voltage	400.0mV, 4V, 40, 400V 600V (0.1mV)	400.0mV, 4V, 40, 400V 600V (0.1mV)
AC Voltage	4V, 40V, 400V 600V (0.1mV)	4V, 40V, 400V 600V (0.1mV)
Basic Accuracy	AC: $\pm 1.2\%$ DC: $\pm 0.8\%$	AC: $\pm 1.2\%$ DC: $\pm 0.8\%$
Resistance (Ω)	400, 4k, 40k, 400k, 4M, 40M (0.1 Ω)	400, 4k, 40k, 400k, 4M, 40M (0.1 Ω)
Capacitance	40nF, 400nF, 4 μ F, 40 μ F, 400 μ F	40nF, 400nF, 4 μ F, 40 μ F, 400 μ F
Frequency	10Hz to 1MHz (0.01Hz)	10Hz to 1MHz (0.01Hz)
Temperature	-40° to 1832°F/-40° to 1000°C (1°F/°C)	-40° to 1832°F/-40° to 1000°C (1°F/°C)

MA160 True RMS 200A AC Open Jaw Clamp Meter

NEW

0.6" (16mm) open-jaw design provides quick current measurements in tight locations without breaking the circuit

- Built-in Non-Contact Voltage (NCV) detector with audible alert and LED indicator
- 2000 count, 2-level backlit LCD display
- Relative Mode for Capacitance
- Zero and offset adjustment
- Complete with test leads, two AA batteries



CB10 AC Circuit Breaker Finder/Receptacle Tester

3-in-1 tester locates circuit breakers and tests receptacle wiring

- Quickly locate 110V to 125VAC circuit breakers and fuses
- Variable sensitivity adjustment to pinpoint correct circuit breaker
- Bright red and green LEDs indicate if receptacle is either correctly wired or one of six fault conditions
- Simply plug the GFCI transmitter into an outlet and trace for the correct breaker at the electrical box



ONLY
\$39.99

BR250 Video Borescope/Wireless Inspection Camera

Detachable wireless 3.5" color display can be viewed from a remote location up to 32ft

- Captured video and still images with date/time stamp can be played back on the wireless monitor or your PC
- Mini waterproof (IP67) 9mm camera head for high resolution viewing
- Two bright LED lamps with dimmer to illuminate viewed object
- SD memory card captures JPEG images or video for viewing on your PC



ONLY
\$249.99

MA260 True RMS 200A AC Open Jaw Clamp Meter

NEW

0.6" (16mm) open-jaw design provides quick current measurements in tight locations without breaking the circuit

- Built-in Non-Contact Voltage (NCV) detector with audible alert and LED indicator
- Smart auto-sensing technology enables the meter to recognize the input and automatically switch to the correct mode of operation
- 10,000 count backlit LCD display
- Complete with test leads and two AAA batteries; 1-year warranty



LT40/LT45 LED Light Meters

Monitor and optimize environmental light levels in buildings, schools, and offices

- Model LT40 measures light intensity of white LED lights
- LT45 measures both white and color LED lights
- Measure LED and standard lighting in Lux or Foot-Candle (Fc) units
- 4000 count display
- Min/Max average
- Cosine and color-corrected measurements
- Model LT40 measures white LED lights
- Model LT45 measures white, red, yellow, green, blue, and purple LED lights
- Manually store/recall up to 99 readings



Model LT40



Model LT45

BR80 Video Borescope Inspection Camera

17mm camera diameter and 2.4" Color TFT LCD Monitor with lightweight, handheld design to easily find, diagnose, and solve problems

- 39" (1m) flexible gooseneck cable retains configured shape
- Mini waterproof (IP67) camera head and cable
- Four bright LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view



RD300 Refrigerant Leakage Detector

Ideal for detecting leakages from air-conditioning units and cooling systems that use all standard refrigerants

- Detects all standard refrigerants using a heated diode sensor
- LED light at probe tip (with on/off switch) for working in dimly lit areas
- LEDs display user-selectable High/Medium/Low levels with sensitivity of 0.25/0.50/0.99 oz per year
- Audible and visual alert with mute button
- Field-replaceable sensor (RD300-S) and LED light tip (RD300-L)



AN100/AN200 CFM/CMM Thermo-Anemometer + IR Thermometers

Simultaneous display of ambient temperature and air flow/air velocity

- Up to 8 easy-to-set area dimensions (ft² or cm²) are stored in the meter's internal memory
- 20-point average function for air flow
- Super large LCD backlit display
- AN200 features built-in non-contact IR thermometer measuring remote surface temperatures to 500°F (260°C) with an 8:1 distance-to-spot ratio and laser pointer



AN200

RHT20/RHT10 Humidity and Temperature USB Dataloggers

USB interface for easy setup and data download to a PC

- Datalogs 16,000 humidity and 16,000 temperature readings with a user-programmable sample rate
- Dew point indication via Windows® software (included)
- User-programmable alarm thresholds for RH and temperature
- RHT10 features status indication via colored LEDs
- RHT20 features LCD display of current readings, Min/Max, and alarm status



C0240 Handheld Indoor Air Quality CO₂ Meter

Dual display of CO₂ level and Humidity, Measures Carbon Dioxide (CO₂)

- Maintenance free NDIR (non-dispersive infrared) CO₂ sensor
- Audible CO₂ warning alarm when level exceeds user set point
- Min/Max CO₂ value recall function
- Software for on-line (real-time) data streaming to a PC
- Automatic Baseline Calibration function



45118/45158 Mini Thermo-Anemometers

Pocket air velocity meters measure air velocity and temperature or windchill

- Fold-up protective housing extends to 9" for better reach
- Data hold to freeze most recent display
- Auto shutoff 15 minutes after last key is pressed
- Water-resistant housing floats and drop-tested to 6 feet
- 45158 measures relative humidity and dew point



45118

42509 Compact IR Thermometer

Great for processes that require temperature control and monitoring

- Dual laser for accurate target
- Fast and accurate measurements at 12" where the two lasers converge with 12:1 field of view
- Blue backlit dual LCD display changes to red backlit when reading exceeds high or low set points
- Exclusive 150 millisecond instantaneous response for capturing spikes in temperature



Rebates & Promotions

The image is a promotional page for FLIR's Bonus Buys program. It features a top banner with the FLIR logo and a 'SPECIAL OFFER' badge. Below the banner is a large image of various FLIR handheld measurement and imaging devices. The page is divided into sections for 'Spend' and 'Choose Your Gift', with a color-coded grid showing gift options for different spending levels. A 'REDEMPTION FORM' section with a 'Last Name' field is also present. The bottom half of the page features three large 'BONUS BUYS' sections, each with its own offer and a 'SPECIAL LIMITED TIME OFFER' badge. The page is filled with small text and fine print details, including legal disclaimers and terms and conditions.

Participate in FLIR's promotional programs to receive free products & accessories, popular gadgets, cash rebates & other exciting prizes!

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