



**MISSION EQUIPPED:**  
REDEFINING TEST AND MEASUREMENT



## FLIR DM93 DIGITAL MULTIMETER

*Take the guesswork out of your electrical troubleshooting*

The new FLIR DM93 is a rugged DMM designed with advanced VFD filtering and shielding that help you accurately analyze the non-traditional sine waves and noisy signals found in VFD-controlled equipment. And with LoZ Mode to eliminate ghost readings, continuous data recording to detect intermittent glitches, Bluetooth links to Android devices, and bright LED worklights, the FLIR DM93 prepares you to tackle the tough jobs.



## FLIR CM83 POWER CLAMP METER

*Streamline your industrial power diagnostics projects*

The new FLIR CM83 is an industrial power clamp meter that can help you accurately analyze three-phase systems and VFD-controlled equipment. And with Harmonics Mode to find noise from different electrical draws, Phase Rotation to confirm power is balanced, Inrush Current to detect current spikes, Bluetooth connectivity to Android devices, and compatibility with METERLINK-enabled FLIR IR cameras, the FLIR CM83 equips you to diagnose and repair your complex systems.



## FLIR CM78 CLAMP METER + IR THERMOMETER

*Prepare yourself to troubleshoot complex systems*

The new FLIR CM78 combines a True RMS digital multimeter and clamp meter to let you take accurate AC/DC readings up to 1000A or 1000V safely and quickly. In addition, the built-in IR thermometer with laser spot allows fast scanning for hot spots, and the Type K thermocouple verifies that associated current/temperature specs are correct. The FLIR CM78 also integrates a dual LED worklight, Bluetooth connectivity to Android devices, and METERLINK for connecting to FLIR IR cameras.



## FLIR MR77 MOISTURE METER

*Enhance your moisture detection capabilities*

The new FLIR MR77 is a rugged, feature-packed moisture meter designed to help you tackle your tough restoration projects. Incorporating both a pinless sensor and a wired pin probe to capture moisture readings up to 0.75" below the surface of wood and other building materials, the FLIR MR77 also features an IR thermometer with laser spot, field-replaceable temperature/humidity sensor, Bluetooth connectivity to Android devices, and compatibility with METERLINK-enabled FLIR IR cameras.



## FLIR VS70 VIDEOSCOPE

*Gain access to extremely tight environments*

The new FLIR VS70 is a rugged, waterproof videoscope with intuitive handset controls that enable users to maneuver the narrow camera probe into tight areas, delivering clear video and images to a large 5.7" color LCD display. The FLIR VS70 features wide-angle 180-degree and standard 90-degree camera views, SD card storage of video, image and audio files, a six-to-eight hour battery life, USB port for convenient battery charging, and the headset provides easy voice annotations to enhance reporting.



## FLIR VP50 NCV DETECTOR PLUS WORKLIGHT

*Always be ready for quick voltage checks and area lighting*

The FLIR VP50 is a rugged and waterproof CAT IV-rated Non-Contact Voltage Detector. Some of the safety features of this pocket-size detector are its powerful LED worklight – great to have if the power is out or when work areas are blocked – and dual-LED convenience light at the probe tip for illuminating poorly lit inspection areas. Also, the vibration feedback and red LED alarms are useful for checking for the presence of voltage in noisy areas. Finally, the high/low sensitivity modes can detect voltage on industrial systems, low-voltage equipment, and obstructed installations.



### THE NEXT GENERATION OF TEST AND MEASUREMENT

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 products built upon our commitment to innovation, quality, and reliability.

### FLIR WARRANTY COVERAGE

FLIR DM93, CM78, CM83, MR77 and VP50 are covered by a Limited Lifetime Warranty, and the FLIR VS70 and its accessories come with a Two-Year Limited Warranty. Electrical meter accessories are covered under a Two-Year Limited Warranty, and the MR01 replaceable temperature/humidity sensor for the MR77 is covered by a One-Year Limited Warranty.



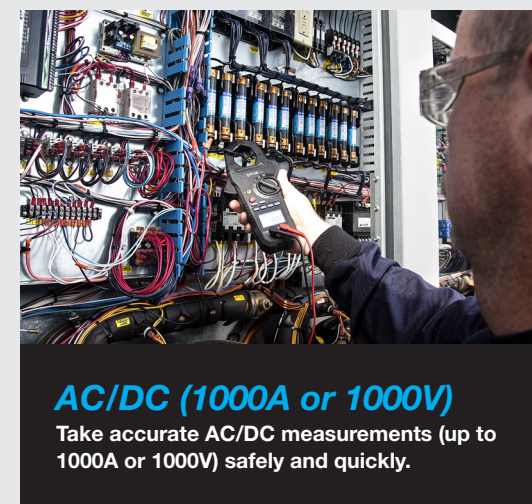
#### VFD Mode

Accurately analyze non-traditional sine waveforms and noisy signals in VFD motors and drive controllers.



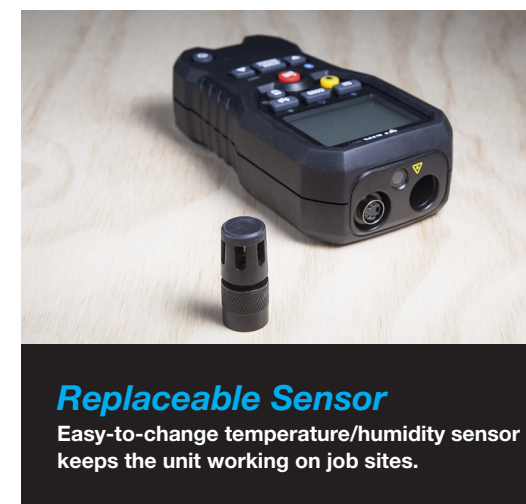
#### Harmonics Mode

Locate noise from different draws to realign harmonics and reduce equipment stress.



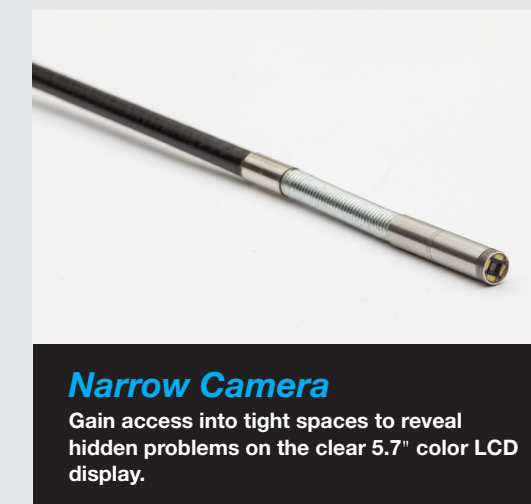
#### AC/DC (1000A or 1000V)

Take accurate AC/DC measurements (up to 1000A or 1000V) safely and quickly.



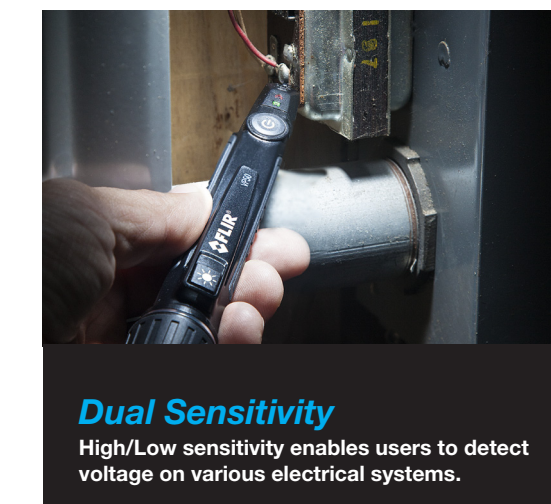
#### Replaceable Sensor

Easy-to-change temperature/humidity sensor keeps the unit working on job sites.



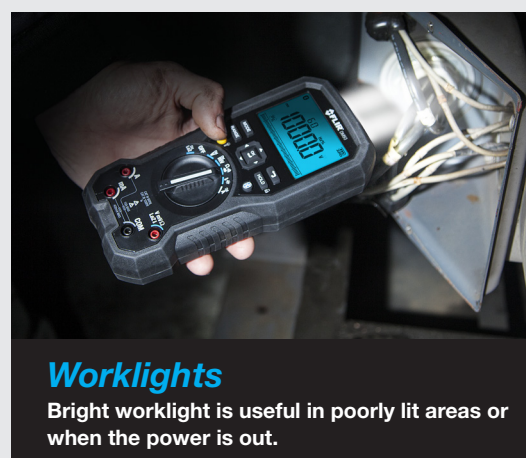
#### Narrow Camera

Gain access into tight spaces to reveal hidden problems on the clear 5.7" color LCD display.



#### Dual Sensitivity

High/Low sensitivity enables users to detect voltage on various electrical systems.



#### Worklights

Bright worklight is useful in poorly lit areas or when the power is out.



#### Inrush Current

Measure hard and soft start-up inrush current spikes while equipment is ramping up.



#### Laser IR Thermometer

Quickly scan for hot spots on panels, conduits, motors, and other equipment.



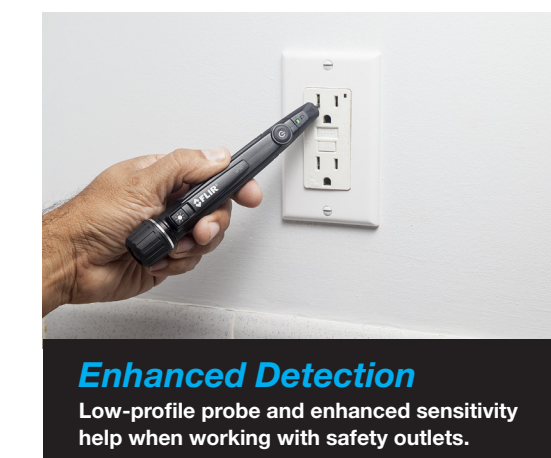
#### Bluetooth Connectivity

Connect to the FLIR Tools Mobile app on Android devices for remote diagnostics.



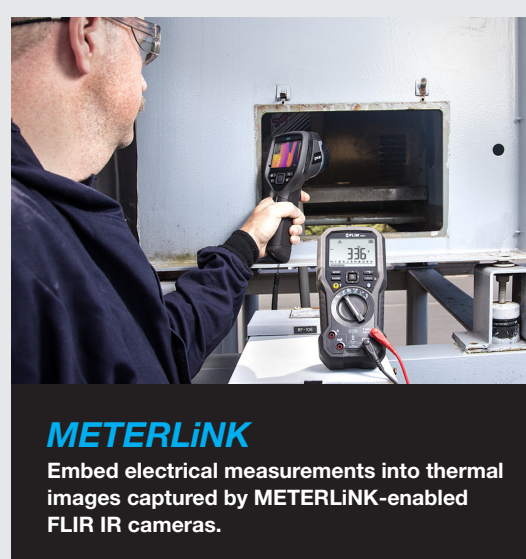
#### Voice Annotations

The headset allows for voice annotations during inspections to clarify findings.



#### Enhanced Detection

Low-profile probe and enhanced sensitivity help when working with safety outlets.



#### METERLINK

Embed electrical measurements into thermal images captured by METERLINK-enabled FLIR IR cameras.



#### Bright Dual-LED Worklight

Make inspections safer/easier when the lights are out or work areas are blocked.



#### Bluetooth Connectivity

Link to Android devices for remote diagnostics in hard-to-reach or hazardous areas.



#### METERLINK Compatibility

Embed moisture data into thermal images from METERLINK-enabled FLIR IR cameras.



#### Versatile Design

Long battery life coupled with USB and vehicle charging keeps your FLIR VS70 on the job all day.



#### Bright Worklight

The FLIR VP50 features an intense, 60-lumen LED light to illuminate poorly lit areas.



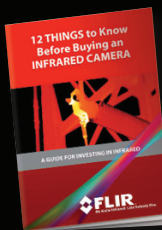
WE KNOW INFRARED...  
LIKE NOBODY ELSE!

As the global leader in infrared technology for the past 50 years, the FLIR name is synonymous with thermal IR imaging. FLIR designs, manufactures, and supports thermal IR cameras and systems for a wide range industrial, scientific, government, and commercial markets – and the company has more than 100,000 systems in use worldwide. With research centers and sales offices located in over 60 countries, FLIR is the world leader in thermal imaging.

- ✓ Widest array of IR cameras, systems and software serving major industries/ applications
- ✓ Highly funded, ongoing R&D resulting in leading-edge IR technology development
- ✓ Unparalleled support organization, including FLIR's renowned Infrared Training Center (ITC)

### LOOKING FOR AN IR CAMERA?

Do Your Homework First and Read our 12 Things to Know Before Buying an Infrared Camera booklet today!



To Download your FREE copy, go to:

[www.flir.com/12things](http://www.flir.com/12things)



Thermal Imaging Cameras

## FLIR E4, E5, E6 AND E8 IR CAMERAS POINT & SHOOT IR CAMERAS

### Introducing the New E-Series

Now every technician and troubleshooter can have an E-Series thermal camera for quick "hot spot" scans and predictive maintenance checks. FLIR's new affordable E-Series gives you everything you need to perform a variety of IR inspections. Clearly detect and pinpoint electrical and mechanical overheating, sources of energy waste, hidden moisture issues, and much more.



### WHAT'S NEW

#### E4, E5, E6 & E8 Cameras Offer

- MSX – Recognize problem locations instantly when you see thermal images enhanced with visible camera details such as numbers, signage, labels, and other identifiable features.
- IR Resolutions to Fit Your Application – Choose from the E4's 4800-pixel resolution all the way up to the impressive 320 x 240 thermal imagery of the E8.
- Fully Radiometric Images – Stores hundreds of thermal, MSX and visible image JPEGs with all temperature data intact and ready to download to your Mac or PC.



## FLIR E40, E50 and E60 IR CAMERAS PERFORMANCE IR CAMERAS

### Top Notch Performance Keeps Getting Better

If you're a busy electrician, plant maintenance technician, building inspector, energy auditor, or HVAC professional, you need to work efficiently and be able to share images and detailed reports of your findings quickly. FLIR's latest E40, E50 and E60 thermal cameras with MSX can help you do just that, by providing a new array of imaging, communication, and productivity tools that make your job a whole lot easier.



### WHAT'S NEW

#### E40, E50, and E60 Cameras feature:

- MSX for Sharply Detailed Images
- Intuitive, One-Handed Operation
- Auto-Orientation Keeps Diagnostics Overlays Upright
- Rugged, Rubber-Reinforced Housing

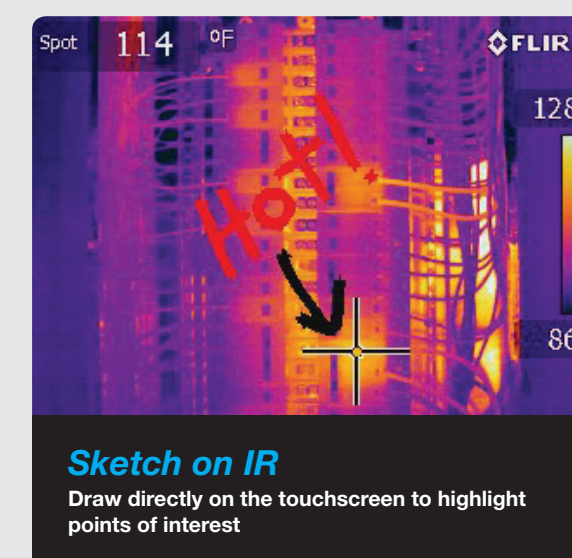


- MSX – Every model allows you to view and save clear images in stunning MSX mode
- Picture-in-picture overlays thermal areas onto digital photos for clearer documentation.
- Multiple Measurements – Add up to 3 box areas and 3 moveable spots with the touchscreen to capture detailed temperature information
- Perpetual Battery Operation – 2-bay charger and spare battery option means plenty of power to keep you running all day.
- MeterLink® – Connect FLIR's new electrical & moisture meters to E40, E50, and E60 cameras via Bluetooth to annotate images
- Reliable Measurements – Accuracy calibrated within 2% or +/-2°C

## FLIR T420 & T440 HIGH-PERFORMANCE IR CAMERAS

### Combining Superior Ergonomics and Performance

The FLIR T420 and T440 thermal cameras bundle 320 x 240 thermal power and MSX technology into an ergonomic and affordable package. Scan targets from difficult angles with our unique rotating optical block that lets you point the lens up or down while keeping the display at eye level.



### FEATURES

#### T420 and T440 Cameras feature:

- Superior IR Images: Sharp thermal resolution at 76,800 pixels for accuracy from a distance
- MSX Enhancement – Adds visible spectrum definition to IR images
- Scalable P-i-P – Overlay thermal images onto visible light pictures
- Delta T & Measurement Tools – Analyze 5 measurement spots, 5 box areas, and more.
- Annotation – Add voice or text to images or use the touchscreen to sketch notes (T440).
- MeterLink – Connect to new FLIR T&M electrical/moisture meters to embed other measurements into your IR images

## NEW FLIR T600 and T620 & T640 HIGH-PERFORMANCE IR CAMERAS

### When Only Top-Notch IR Images Will Do

With the highest infrared resolution available in portable thermal imaging, feature-rich and user-friendly FLIR T600, T620 and T640 cameras with MSX provide the ultimate in IR image clarity and accuracy, making it easier to get your hero shots while dealing with challenging inspections and schedules.



### FEATURES

#### T600, T620 and T640 Cameras feature:

- High IR Resolution: FLIR T600 captures images containing 172,800 (480 x 360) pixels.
- Highest IR Resolution in Class: FLIR T620 & T640 capture 307,200 (640 x 480) pixels
- Optics – A range of lens options, including our new, lightweight 7° telephoto lens
- MSX Enhancement – Adds visible spectrum definition to IR images to clarify problems
- Scalable P-i-P – Overlay thermal image areas onto visible light pictures
- Thermal Fusion: fusion "thresholds" isolate/illustrate hotspots in a visible spectrum scene
- Delta T & Measurement Tools – Analyze 10 measurement spots, 5 box areas, and more
- GPS – Built-in GPS embeds location data into images for inclusion in reports



## METERLINK® CONNECTING FLIR CAMERAS AND METERS

### Connect your FLIR Camera to a compatible FLIR Electrical and Moisture Meters to validate your findings

FLIR thermal cameras help you find electrical problems, moisture damage, and energy loss quickly and easily by detecting and measuring temperature differences. But in many cases you'll need to quantify the severity of those problems with electrical measurements or moisture levels and environmental data.



### FEATURES

#### METERLINK Puts it All Together

FLIR's new electrical and moisture meters use METERLINK to transmit essential diagnostic data wirelessly to compatible FLIR cameras which automatically annotate thermal images with the extra information that customers, colleagues, and insurance companies require.

#### MeterLink helps thermal camera users

- Quantify electrical problems in reports
- Add detail to load imbalance diagnostics
- Document energy-consumption findings
- Improve documentation of moisture levels

## FLIR TOOLS MOBILE BLUETOOTH CONNECTIVITY

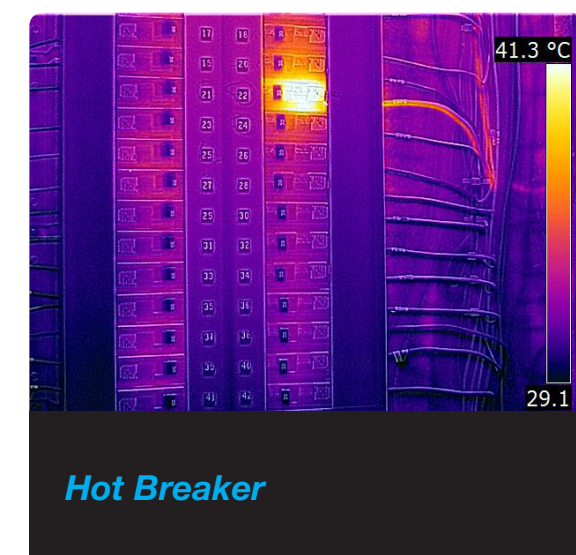
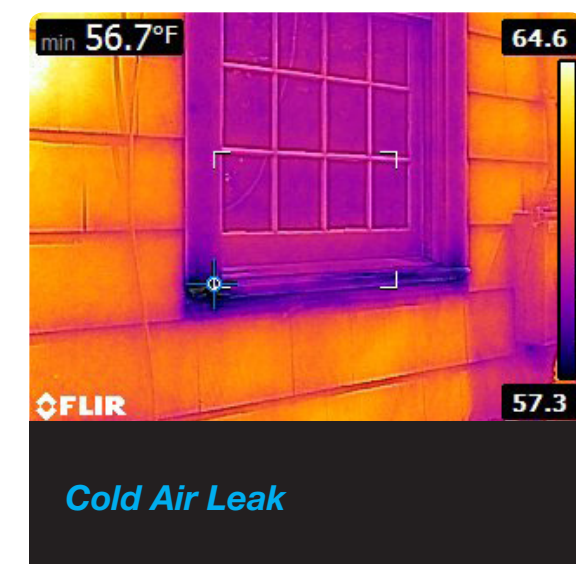
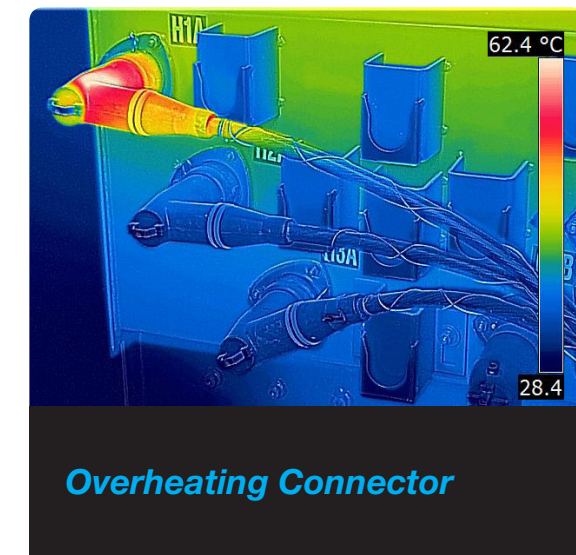
### Connect your FLIR Camera to Android™ or Apple™ Smartphones and Tablets

Get the word out straight from the field with FLIR Tools Mobile for Apple and Android. Connect your smartphone or tablet via Wi-Fi to FLIR E40, E50, an E60 cameras. Then use the app to download images, tack on more measurement spots, adjust span and level, change palettes, add notes, and generate reports as PDFs. Use the app to email images and findings to colleagues and customers, upload to Dropbox and Box.net accounts, or show images to people with you on the job site.



## A FLIR EXCLUSIVE MSX TECHNOLOGY

FLIR's thermal cameras come with exclusive MSX (Multi-Spectral Dynamic Imaging) technology, which uses defined image details – numbers, signage, labels, and other identifiable features – from digital photos and embeds these into the corresponding IR images to create thermal imagery that gives viewers a clearer visual sense of where potential problems are located.



## 5-10-2 PROTECTION FLIR IR CAMERA WARRANTY

FLIR's comprehensive 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.