



FLIR

Imaging 600A AC/DC Clamp Meter with IGM™

The FLIR CM174 Imaging 600A AC/DC Clamp Meter with IGM 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. The narrow jaw enables greater accessibility, and its compact form-factor fits easily into your back pocket – so you can have thermal imaging at your fingertips everywhere you go. The FLIR CM174 will quickly become your primary electrical troubleshooting tool.

Find problems faster with IGM.

Visually identify electrical issues with the first thermal imaging clamp meter

- 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

Confirm your findings.

Verify problems, check load, and validate hot spots

- Center-point temperature to confirm hot spot
- Amperage and voltage measurements to check the load
- Laser and crosshair pinpoint the location of the problem found in thermal image

Solve complex electrical issues.

Design and functionality vital to professionals

- 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
- Expandable to 3000 Amps AC with FLIR flex accessories



IGM technology guides you where to measure



Verify amperage measurements

Specifications

| FLIR CM174: Imaging Clamp Meter | | |
|------------------------------------|---|----------------|
| Imaging Detector | FLIR Lepton® microbolometer | |
| Thermal Image Resolution | 4800 pixels (60 × 80) | |
| Field of View (V × H) | 38.6° × 50.0° | |
| Color Palettes | Iron, Rainbow, Grayscale | |
| Image Frame Rate | 9Hz | |
| Temperature Measurement | Center point of thermal image | |
| Temperature Range | -13°F to 302°F (-25°C to 150°C) | |
| Temperature Distance to Spot Ratio | 30:1 | |
| Temperature Accuracy | ±5.4°F (3°C) or ±3% of rdg | |
| Spectral Response | 8 to 14μm | |
| Temperature Targeting | Class 1 Laser Pointer and Crosshair on display | |
| Emissivity Settings | 4 Presets with Custom Adjustment | |
| Electrical Measurements | 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% |
| General information | | |
| Display | 6000 Count 2.0" (50mm) Color TFT | |
| Jaw Opening | 1.38" (35mm), 1250MCM | |
| Category Rating | CAT IV-600V, CAT III-1000V | |
| Certifications | UL | |
| Battery Type | 4 x AAA | |
| Warranty | 10 Years on Product and Detector* | |
| Includes | Clamp Meter, 4 x AAA Batteries, Premium Silicone Test Leads, Quick Start, User Manual (CD), Extended Warranty Registration Card | |

*See FAQs at flir.com/CM174



Test Leads Input

600 AMP
AC/DC
Current Jaw

Temperature
Measurement

Selection
Buttons

Activate
Thermal
Imager

Thermal
Image

Electrical
Measurement

Extended
Rubberized
Function Knob



Lepton
Thermal
Imager

Optional
Accessories
Mount

Worklight

Laser Pointer

Tool Less
Battery
Compartment



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| Ordering Information | UPC | EAN |
|---|--------------|---------------|
| FLIR CM174 Imaging 600A AC/DC Clamp Meter with IGM™ | 793950371749 | 0793950371749 |
| FLIR TA72 Universal Flex Current Probe Accessory 10" (25cm) | 793950377727 | 0793950377727 |
| FLIR TA74 Universal Flex Current Probe Accessory 18" (45cm) | 793950377741 | 0793950377741 |
| FLIR TA15 Soft Sided Carrying Case | 793950377154 | 0793950377154 |
| FLIR TA55 Line Splitter | 793950377550 | 0793950377550 |
| FLIR TA52 Magnet Mount | 793950377529 | 0793950377529 |
| FLIR TA42 Belt Clip | 793950374207 | 0793950374207 |
| FLIR TA80 Premium Silicone Test Leads | 793950377802 | 0793950377802 |
| FLIR TA70 Alligator Clips | 793950377703 | 0793950377703 |