

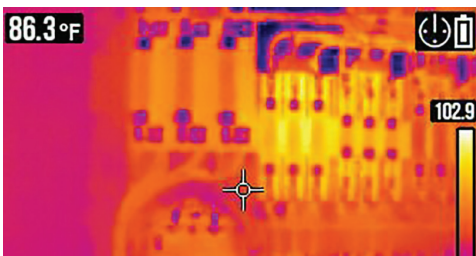


## INDUSTRIAL IMAGING MULTIMETERS

# FLIR DM284™/285™

The FLIR DM284 and DM285 are industrial, all-in-one True RMS digital multimeters and thermal imagers that can show you exactly where a hot spot or temperature anomaly is for faster troubleshooting. Featuring Infrared Guided Measurement (IGM™) powered by a built-in 160 × 120 FLIR thermal imager, the meters visually guide you to the precise location of a problem. You'll pinpoint issues faster, more safely, and efficiently. Both multimeters are ideal for inspecting industrial-electrical, mechanical, HVAC/R, and electronic systems, and can be used for both benchtop electronics or in the field. The DM285 is Bluetooth-enabled for wireless transfer of thermal images and data via METERLiNK® to mobile devices running the FLIR Tools® mobile app.

[flir.com/IGM-Multimeters](http://flir.com/IGM-Multimeters)



### WORK SAFER AND SMARTER

Thermal imaging allows you to quickly scan for overheating system components, then use the DMM test functions to troubleshoot and diagnose the fault

- Identify energized and faulty equipment from a safe distance with non-contact temperature measurement
- Simplify data and thermal imaging collection and produce instant reports by connecting via METERLiNK to a smartphone or tablet running the FLIR Tools app\*
- Save electrical parameter data and thermal images with onboard data storage\*

### TROUBLESHOOT CHALLENGING PROBLEMS EFFECTIVELY

Fully loaded with features for high and low voltage applications

- Solve challenging problems with the 18-function DMM including VFD mode, True RMS, LoZ, NCV, a built-in worklight, and laser pointer
- Measure voltage, current, frequency, resistance, continuity, diode, capacitance, and temperature
- Operate easily with an intuitive menu system

### DESIGN AND FUNCTIONALITY

An all-in-one tool that's built to last

- Rely on the meters' drop-tested durability in any working condition
- Change the battery quickly and easily with the 'no tool' battery compartment\*
- See readings clearly on the TFT display with a wide viewing angle\*

\*DM285 Only.

## SPECIFICATIONS

| Thermal Imaging                  | DM284                                    | DM285                               | Additional Measurements  | DM284   | DM285  |
|----------------------------------|--|-------------------------------------|--|---|--|
| IR Resolution                    | 160 × 120 (19,200 pixels)                | 160 × 120 (19,200 pixels)           | Continuity Check   | 600 Ω   | 20 Ω and 200 Ω   |
| Thermal Imaging Detector         | FLIR Lepton® microbolometer              | FLIR Lepton® microbolometer         | Measuring Rate   | 3 samples per second  | 3 samples per second                                       |
| Temperature Sensitivity          | ≤150 mK                                  | ≤150 mK                             | Min/Max/Avg  | Yes   | Yes  |
| Emissivity Settings              | 4 presets with custom adjustment         | 4 presets with custom adjustment    | <b>General Information</b>   |   |  |
| Temperature Accuracy             | 3°C or 3% whichever is greater           | 3°C or 3% whichever is greater      | Connectivity   | –   | Bluetooth®   |
| Temperature Range                | 14°F to 302°F (-10°C to 150°C)           | 14°F to 302°F (-10°C to 150°C)      | Data Logging & Storage   | –   | 10 sets of 40k scalar measurements, 100 images             |
| Field of View                    | 50° × 38°                                | 50° × 38°                           | Auto Power Off   | Yes   | Yes  |
| Laser Pointer                    | Yes                                      | Yes                                 | Worklights   | Yes   | Yes  |
| Focus                            | Fixed                                    | Fixed                               | Display Size   | 2.8 in TFT screen   | 2.8 in TFT screen  |
| Thermal Imaging Palette          | Iron, Rainbow, Grayscale                 | Iron, Rainbow, Grayscale            | Battery  | 4 AAA batteries; optional TA04 Li-Poly rechargeable battery | 3 AA batteries; optional TA04 Li-Poly rechargeable battery |
| Level & Span                     | Auto                                     | Auto                                | Drop Test  | 3 m   | 3 m  |
| <b>Measurements-Both Models</b>  |  |                                     | IP Rating  | IP54  | IP40   |
| True RMS                         | Yes                                      |                                     | Safety Category Rating   | CAT III-1000V, CAT IV-600V                                  | CAT III-1000V, CAT IV-600V                                 |
|                                  | <b>Range</b>                             | <b>Basic Accuracy</b>               | Size (L × W × H)   | 200 × 95 × 49 mm (7.9 × 3.7 × 1.9 in)                       | 200 × 95 × 49 mm (7.9 × 3.7 × 1.9 in)                      |
| AC / DC Voltage                  | 1000 V                                   | ±1.0% / 0.09%                       | Weight   | 537 g (18.9 oz)   | 537 g (18.9 oz)  |
| AC / DC mV                       | 600.0 mV                                 | ±1.0% / 0.5%                        | Warranty   | 10 year on product and detector                             | 10 year on product and detector                            |
| VFD AC Voltage                   | 1000 V                                   | ±1.0%                               | <b>Box Contents</b>  |   |  |
| AC / DC LoZ V                    | 1000 V                                   | ±2.0%                               | Multimeter, batteries, silicone test leads, test lead storage/tripod accessory, Type-K thermocouple, alligator probes, soft carrying case (DM285 only) |   |  |
| AC / DC Current                  | 10.00 A                                  | ±1.5% / 1.0%                        | <b>Ordering Information</b>  |   |  |
| AC / DC mA                       | 400.0 mA                                 | ±1.5% / 1.0%                        |  |   | <b>Order #</b>   |
| AC / DC μA                       | 4,000 μA                                 | ±1.0%                               | FLIR DM285 Industrial Imaging Multimeter with Datalogging, Connectivity, IGM   |   | 793950372876   |
| Resistance                       | 6.000 MΩ<br>50.00 MΩ                     | ±0.9%<br>±3.0%                      | FLIR DM284 Imaging True RMS Industrial Multimeter with IGM   |   | 793950372845   |
| Capacitance                      | 10.00 mF                                 | ±1.9%                               |  |   |  |
| Diode Test                       | 1.500 V                                  | 0.400 V to 0.800 V, typical reading |  |   |  |
| Flex Clamp Range                 | 3000 A AC (Optional TA72/74)             | ±3.0% + 5 digits                    |  |   |  |
| Frequency                        | 100.00 kHz                               | ±0.1%                               |  |   |  |
| Temperature, Type-K Thermocouple | -40.0°F to 752.0°F<br>-40.0°C to 400.0°C | ±1.0% + 5.4°F<br>±1.0% + 3°C        |  |   |  |

Specifications are subject to change without notice. For the most up-to-date specs, go to [www.flir.com](http://www.flir.com)

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