



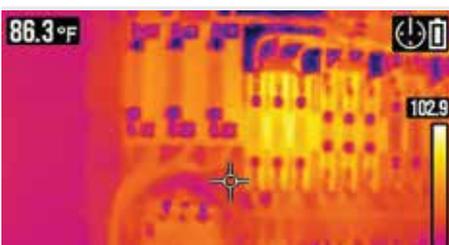
## INDUSTRIAL IMAGING MULTIMETERS

# 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 x 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 uniquely features Bluetooth® which enables wireless data transfer by connecting to the FLIR Tools Mobile app on compatible mobile devices. The DM285 is also compatible with the new FLIR InSite™ workflow management tool that allows you to prepare efficient survey routes, maintain accurate documentation, share information with clients, and file instant reports.

[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
- Streamline inspections and simplify data collection, sharing, and reporting by wirelessly connecting to the FLIR InSite professional workflow management tool\*
- 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
IR Resolution	160 x 120 (19,200 pixels)	160 x 120 (19,200 pixels)
Thermal Imaging Detector	FLIR Lepton® microbolometer	FLIR Lepton® microbolometer
Temperature Sensitivity	≤ 150 mK	≤ 150 mK
Emissivity Settings	4 presets with custom adjustment	4 presets with custom adjustment
Temperature Accuracy	3°C or 3.5%	3°C or 3.5%
Temperature Range	14°F to 302°F (-10°C to 150°C)	14°F to 302°F (-10°C to 150°C)
Field of View	46° x 35°	50° x 38°
Laser Pointer	Yes	Yes
Focus	Fixed	Fixed
Thermal Imaging Palette	Iron, Rainbow, Grayscale	Iron, Rainbow, Grayscale
Level & Span	Auto	Auto

### Measurements-Both Models

	True RMS	
	Range	Basic Accuracy
AC / DC Volts	1000 V	±1.0% / 0.09%
AC / DC mVolt	600.0 mV	±1.0% / 0.5%
VFD AC Volts	1000 V	±1.0%
AC / DC LoZ V	1000 V	±2.0%
AC / DC Amps	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 50.00 MΩ	±0.9% ±3.0%
Capacitance	10.00 mF	±1.9%
Diode Test	1.500 V	±0.9%
Flex Clamp Range	3000 A AC (Optional TA72/74)	±3.0% + 5 digits
Frequency Counter	100.00 kHz	±0.1%
Temperature, Type-K Thermocouple	-40°F to 752.0°F -40°C to 400°C	±1.0% + 5.4°F ±1.0% + 3°C

Additional Measurements	DM284	DM285
Continuity Check	600 Ω	20 Ω and 200 Ω
Measuring Rate	3 samples per second	3 samples per second
Min/Max/Avg	Yes	Yes
General Information		
Connectivity	–	Bluetooth®
Data Logging & Storage	–	10 sets of 40K scalar measurements, 100 images
Auto Power Off	Yes	Yes
Worklights	Yes	Yes
Display Size	2.8 in TFT screen	2.8 in TFT screen
Battery	4 AAA batteries; optional TA04 Li-Poly rechargeable battery	3 AA batteries; optional TA04 Li-Poly rechargeable battery
Drop Test	3 m	3 m
IP Rating	IP54	IP40
Safety Category Rating	CAT III-1000V, CAT IV-600V	CAT III-1000V, CAT IV-600V
Size (L x W x H)	200 x 95 x 49 mm (7.9 x 3.7 x 1.9 in)	200 x 95 x 49 mm (7.9 x 3.7 x 1.9 in)
Weight	537 g (18.9 oz)	537 g (18.9 oz)
Warranty	10 year on product and detector	10 year on product and detector

### Box Contents

Multimeter, L91 lithium batteries, silicone test leads, test lead storage/tripod accessory, Type-K thermocouple, alligator probes, soft carrying case

Ordering Information	Order #
FLIR DM285 Industrial Imaging Multimeter with Datalogging, Connectivity, IGM	793950372876
FLIR DM284 Imaging True RMS Industrial Multimeter with IGM	793950372845

For a complete list of available accessories, go to: [flir.com/store/instruments/testaccessories](http://flir.com/store/instruments/testaccessories)

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

**CORPORATE HEADQUARTERS**  
FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
PH: +1 877.773.3547

**NASHUA**  
FLIR Systems, Inc.  
9 Townsend West  
Nashua, NH 03063  
USA  
PH: +1 866.477.3687

**EUROPE**  
FLIR Systems  
Luxemburgstraat 2  
2321 Meer  
Belgium  
PH : +32 (0) 3665 5100

**UNITED KINGDOM**  
FLIR Systems UK  
2 Kings Hill Av. - Kings Hill  
West Malling - Kent  
ME19 4AQ  
United Kingdom  
Tel. : +44 (0)1732 220 011

[www.flir.com](http://www.flir.com)  
NASDAQ: FLIR

Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2017 FLIR Systems, Inc. All rights reserved. 09/28/17

17-2459-INS-TAM-EMEA



The World's Sixth Sense®