

DIGITAL MULTIMETERS WITH IGM™



Easily troubleshoot electrical issues with the unique combination of onboard thermal imaging and traditional Digital Multimeter test functions.

Teledyne FLIR is proud to offer a high-quality line of digital multimeters to meet the needs of professional inspectors, whether they're working in an industrial or commercial setting.

These rugged multimeters exceed expectations with innovative features like build-in thermal imaging—we call it Infrared Guided Measurement, or IGM—that can guide you to the source of electrical faults.

Integrated flashlights, laser pointers, and features such as connection via Bluetooth® METERLiNK® to FLIR infrared cameras and mobile devices ensure you have the tools on hand to work quickly and efficiently.



Laser pinpoints exact hot spot locations

DM285

INDUSTRIAL IMAGING MULTIMETERS WITH IGM™





Send readings via METERLiNK® to compatible FLIR infrared cameras to embed data into live or saved thermal images

Replace batteries without any tools

All-in-one digital multimeters and thermal imagers for fast inspections of industrial-electrical, mechanical, HVAC/R, and electronic systems.



- Safely scan for issues with the built-in 160×120 FLIR thermal imager
- Operate easily with an intuitive menu system and a built-in worklight
- Troubleshoot complex high- and low-voltage applications with full-featured multimeter
- Connect wirelessly to the FLIR Tools® Mobile app
- Save electrical parameter data and thermal images with onboard data storage
- See readings clearly on the TFT display with a wide viewing angle

Non-contact voltage measurement

\$\int_{\text{FLIR}} \text{DM166}\$
\$\frac{437.3 \circ}{118.2 \sqrt{}}\$
\$\int_{\text{FLIR}} \text{DM166}\$
\$\int_{\text{TIR}} \text{Policy} \text

80 × 60 thermal imager to quickly scan for overheating components

IGM button activates thermal imaging

Rich DMM features for both high- and low-voltage applications

Full color LCD display



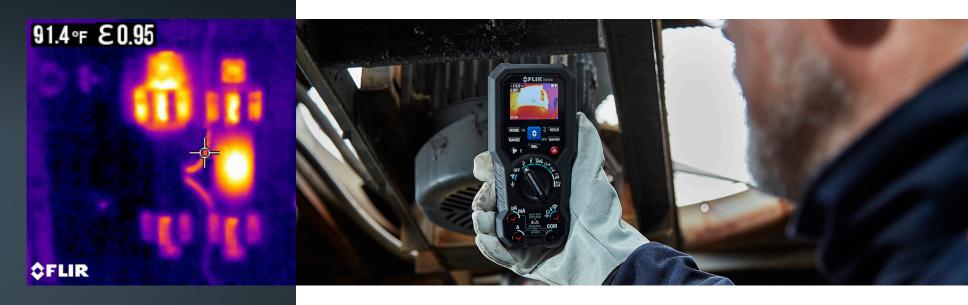
3 m drop-tested durability



Laser pinpoints exact hot spot locations

DM166

IMAGING TRMS MULTIMETER WITH IGM™



Replace batteries without any tools

The most affordable multimeter with built-in thermal imaging—a must-have tool for commercial electricians as well as automation, electronics, and HVAC/R technicians.

- Safely scan for issues with the built-in 80×60 FLIR thermal imager
- Troubleshoot complex high- and low-voltage applications with full-featured multimeter
- Carefully measure voltage with integrated non-contact voltage detection
- Remove high-frequency noise that affects readings with VFD mode



Store/recall 99 readings **♦FLIR** DM93 Advanced variable frequency drive filtering MODE 1 Bright LED worklight RANGE HOLD ₩ HIF A LÖZ/ LoZ prevents false readings

Removable test lead holder

IP54 splashproof

3 m drop-tested durability

Bluetooth connectivity for wireless data transfer

WARNING
TO AVOID ELECTRICAL SHOCK,
REMOVE TEST LEADS BEFORE
OPENING CASE OR BATTERY DOO

AVERTISSEMENT

(3.7V Hechargeable)

FS1 11A 1KV FAST

FS2 400mA 1KV FAST

METER LÎNK

iOS* | Android* Signatorth*

Send readings via METERLiNK to compatible FLIR infrared cameras to embed data into live or saved thermal images

Built-in back stand

DM93

TRMS INDUSTRIAL MULTIMETER





World-class digital multimeter with advanced variable frequency drive filtering that accurately analyze nonsinusoidal waveforms and noisy signals.

- View voltage and frequency together with dual display
- Eliminate ghost voltage error readings with low impedance (LoZ) mode
- Illuminate dimly lit areas with the powerful LED worklight
- Durable double-molded construction: IP54 rating, 3 m drop-tested
- Send readings via Bluetooth® METERLiNK® to compatible FLIR infrared cameras to embed data into live or saved thermal images
- Data record captures electrical measurements and provides wireless data transfer



DM62/66

TRMS DIGITAL MULTIMETERS FOR ELECTRICAL AND FIELD SERVICE



Meters of exceptional value that provide rich features, precise measurements, and quality construction for commercial electricians, automation field service professionals, electronics repair technicians, and even DIYers.

KEY FEATURES

- Measure both AC/DC voltage and current
- Safely check voltage with non-contact voltage detection
- Operate the meter with one hand, thanks to compact design and easy-access buttons

DM66 UNIQUE FEATURES

- Low impedance mode (LoZ) to prevents ghost voltage from delivering false readings
- Measure frequency, diode, and capacitance
- Measure temperature up to 400°C (752°F) with Type-K thermocouple



DM64

HVAC TRMS DIGITAL MULTIMETER WITH TEMPERATURE

Provides an unmatched feature set and high-quality measurements at an affordable price—perfect for professionals who install, inspect, and maintain HVAC/R systems.

- Assess temperatures up to 400°C (752°F) with Type-K thermocouple
- Test flame sensors with microamps feature
- Readily and precisely identify live wires with probe-contact voltage detection
- Work quickly and comfortably thanks to user-friendly design, intuitive interface, and enhanced ergonomics
- Easily identify deviations from normal conditions by comparing new readings to stored data
- Navigate the meter's on-screen menu system easily
- Swap batteries easily from the "no tool" battery compartment

Specialty insulation modes including: Polarization Index, Dielectric Absorption, and Earth Bond Resistance.

3 m drop-tested durability

IP54 splashproof



Store/recall 99 readings

Bluetooth® connectivity for wireless data transfer

Send readings via METERLINK to compatible FLIR infrared cameras to embed data into live or saved thermal images

IM75

INSULATION & DMM COMBO WITH METERLINK®

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

- Multiple ranges of resistance insulation test levels available: 50 V, 100 V, 250 V, 500 V, 1000 V
- Send readings via METERLINK to compatible FLIR infrared cameras to embed data into live or saved thermal images
- Insulation modes: Polarization Index, Dialectric Absorption, and Earth Bond Resistance
- Bright LED worklights to illuminate test areas and targets
- Multi-color LED display with compare mode makes pass/fail determinations easy
- Durable double-molded construction: IP54 rating, 3 m drop-tested

TECHNICAL SPECIFICATIONS

Safety Category

CAT III-600 V

CAT IV-300 V

CAT III-1000 V

CAT IV-600 V

CAT III-1000 V

CAT IV-600 V

CAT III-1000 V

CAT IV-600 V

MARKET	GENERAL PURPOSE	PROFESSIONAL			INDUSTRIAL		INSULATION
Model	FLIR DM62	FLIR DM64	FLIR DM66	FLIR DM166	FLIR DM285	FLIR DM93	FLIR IM75
IGM Resolution	_	_	_	80 × 60	160 × 120	_	_
IGM Temperature Range	_	_	-	-10°C to 150°C (14°F to 302°F)	-10°C to 150°C (14°F to 302°F)	-	-
Display Counts/Type	6,000/Backlit LCD	6,000/Backlit LCD	6,000/Backlit LCD	6,000/2.4" TFT	6,000/2.8" TFT	40,000/Backlit LCD	4,000/40,000/Backl LCD
Bar Graph	_	_	- 1000	\-	•	•	•
Basic Accuracy (DCV)	±0.4%	±0.4%	±0.4%	±0.5%	±0.09%	±0.05%	±0.1%
True RMS AC/DC Voltage	600 V	600 V	600 V	600 V	1,000 V	1,000 V	1,000 V
True RMS AC/DC Current	10 A	10 A	10 A	10 A	10 A	10 A	_
AC/DC μA Current	•	•	•	•	•	<u> </u>	-
Resistance	60 MΩ	60 ΜΩ	60 MΩ	60 ΜΩ	50 ΜΩ	40 ΜΩ	Insulation: 20 GΩ Earth Bond: 40 kΩ
Capacitance	_	10 mF	10 mF	10 mF	10 mF	40 mF	10 mF
Frequency	_	50 kHz	50 kHz	50 kHz	100 kHz	100 kHz	40 kHz
Temperature	_	-40°C to 400°C (-40°F to 752°F)	-200°C to 1200°C (-328°F to 2192°F)	<u>-</u> 676			
Data Hold	•	•	•	•	•	•	•
Relative	•	•	•	•	•	1.	_
Min/Max/Average	•	•	•	•	•	•	_
LoZ Mode	_	•	•	_	•	.	
Peak	_	_	_	_	•	•	_
Low Pass Filter/VFD	•	•	•	•	•	•	•
Ingress Protection (IP)/ Drop Proof	IP40/2 m	IP40/2 m	IP40/2 m	IP40/3 m	IP40/3 m	IP54/3 m	IP54/3 m
Non-Contact Voltage Detection (NCV)	•	•	•	•	•	-	_
Worklights	_	_	_	_	•	•	•
Data Storage	_	_	_	_	10 Sets (40,000 readings each) and 100 images	Store/Recall 99 readings	Store/Recall 99 readings
Bluetooth/METERLiNK®	_	_	_	_	•	•	•





COMPLETE YOUR TOOLBAG

Teledyne FLIR has a full line of products to make your job easier, including thermal cameras, voltage detectors, clamp meters, and IR thermometers.

Check out all we have to offer at www.flir.com/professional-tools



ACCESSORIES

Teledyne FLIR has all the right accessories to help you maximize your benefits from your digital multimeter, including:

- Test leads
- Thermocouple probes
- Rechargeable battery kits for select meters
- Protective cases
- Flex current probe accessories

Check out our entire range of multimeter-compatible accessories at www.flir.com/dmm-accessories



For more information contact: Sales@TeledyneFLIR.com or to find your local support number, visit: flir.com/contactsupport

www.teledyneflir.com NASDAQ: TDY

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