



QUICK START

Compact Thermal Imaging Multimeter with Meterlink® DM266





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Compact Thermal Imaging Multimeter with Meterlink®

1 Quick Start (en)

Note: Please refer to the User Manual for complete safety and operational instructions: <https://flir.com>.

1.1 SAFETY STATEMENTS

WARNING!

- Do not operate this device if you do not have the correct knowledge. Incorrect operation can cause damage, shock, injury or death to persons.
- Do not start a measurement before setting the function switch to the correct position. Failure to follow this warning can cause damage to the instrument and injury to persons.
- Do not change to the resistance function when measuring voltage.
- Do not use the device if the test leads or the device show signs of damage.
- Use extreme care when measuring voltages > 30 V AC RMS or V DC.
- Do not perform diode, capacitance, or continuity tests before removing power from the circuit or device under test.

	This symbol, adjacent to another symbol or terminal, indicates that the user must refer to the manual for further information.
	This symbol, adjacent to a terminal, indicates that, under normal use, hazardous voltages may be present.
	Double insulation.

- This device complies with part 15 of the FCC Rules. See the User Manual for the full FCC Compliance text. This applies also to Industry Canada Compliance.
- Safety Category Rating: CAT III 600 V

1.2 MULTIMETER QUICK STEPS

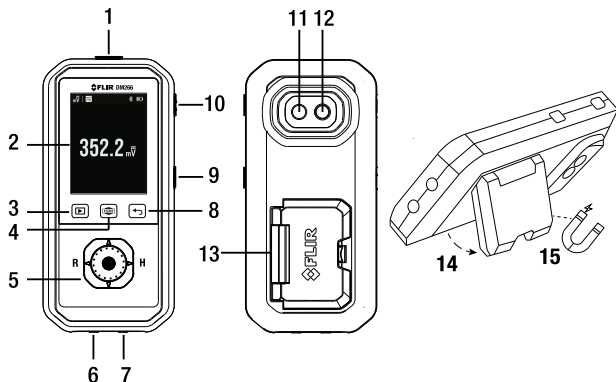
1. To power the meter, long press the power button (middle, right side of meter).
2. Connect the supplied test leads to the meter input terminals (bottom), observing correct polarity.
3. Turn the scroll wheel to select a measurement function and press the Enter button (centre) to activate the function. A blue dot will appear next to the activated measurement function icon at the bottom of the display. The function icon will also appear at the top left of the display.
4. Touch the test leads to the circuit under test, as described in the dedicated measurement sections, below.
5. Read the measurement on the display.

1.3 IMAGING QUICK STEPS

1. To power the meter, long press the power button (middle, right side of meter).
2. Press the IGM button to enter (or exit) the thermal image mode.
3. Point the camera toward the object under test.
4. To change the colour palette and other image options, refer to the sections, below, and the user manual.
5. In the thermal image mode, the multimeter operates normally, with measurements superimposed on the thermal image.
6. To capture an image or video, use the image capture button (short press to capture image; long press to start video, short press to stop video).

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1.4 METER FRONT AND BACK

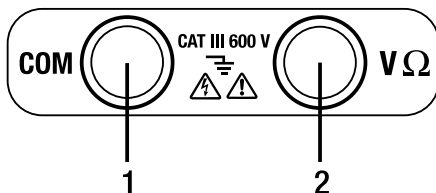


1. USB port
2. Display
3. Image, video, data log gallery button
4. Thermal imager button
5. Scroll wheel, enter button, and multifunction navigation buttons
6. COM test lead input terminal
7. Positive test lead input terminal
8. Return button
9. Power button
10. Image and video capture button
11. Thermal camera lens
12. Digital camera lens
13. Tilt stand
14. Tilt stand folding out
15. Tilt stand is magnetic

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1.5 METER BOTTOM

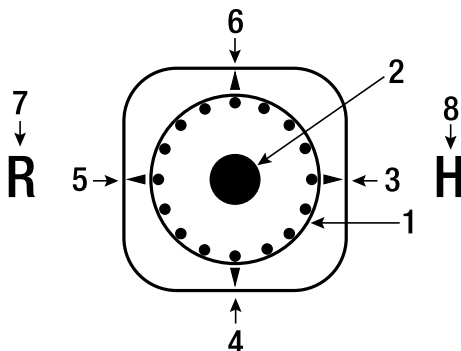
Connect the black test lead to the COM jack (1) and the red test lead to the voltage/resistance jack (2).



1.6 CONTROL BUTTONS

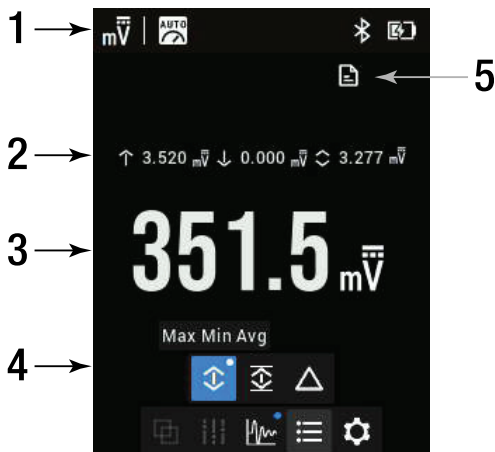
- **Power:** Located on middle right side of meter. Long press to switch meter ON or OFF. Short press to wake meter from sleep (APO) mode.
- **Image and video capture:** Located on the upper right side of meter. Short press to capture an image. Long press to start video recording (short press to stop).
-  **Gallery:** Press to open image, video, and data log gallery.
-  **IGM:** Press to open/close the thermal imager.
-  **Return:** Press to exit a menu and return to previous screen.

1.7 SCROLL WHEEL AND MULTIFUNCTION BUTTONS



1. Scroll wheel: Select a measurement function or scroll through menus.
2. Enter button: Press to open main menu, activate measurements, and select menu items.
3. Right navigation button.
4. Down navigation button.
5. Left navigation button.
6. Up navigation button and VFD enable/disable button.
7. **R** (RANGE): Left navigation button also manually changes range.
8. **H** (HOLD): Right navigation button also freezes/unfreezes reading.

1.8 MULTIMETER DISPLAY DESCRIPTION



1. Left-most icon shows selected measurement function.
2. Secondary display area for advanced functions.
3. Primary measurement reading.
4. Main menu (press Enter to open). Measurement functions are displayed here when the scroll wheel is turned.
5. Data logger icon appears when meter is logging.

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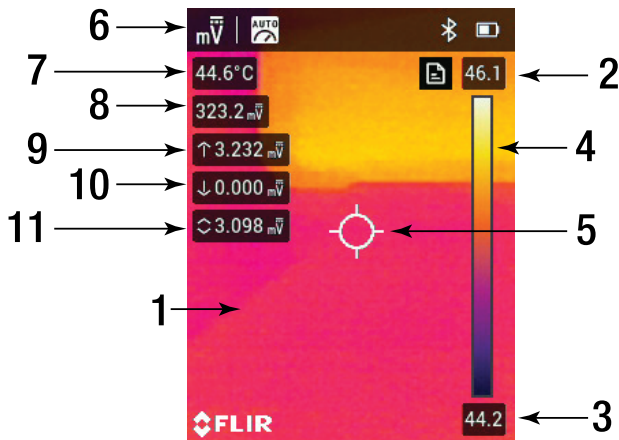
1.9 TOP ROW ICONS

	Battery Status icon (not charging)		Bluetooth
	Battery Status icon (charging)		
	Auto range		Auto Power Off (APO)
	Data Hold		Low pass filter

1.10 OTHER DISPLAY ICONS

OL	Out of range		Peak Hold menu icon
	> 30 V (AC/DC)		Peak MAX indicator
LoZ	Low impedance mode		Peak MIN indicator
	Data logger menu icon		Relative mode
	Maximum, Minimum, Average mode		

1.11 THERMAL IMAGE DESCRIPTION



1. Thermal image.
2. Highest temperature measured.
3. Lowest temperature measured in image.
4. Full temperature range of image.
5. Cross hair for targeting.
6. Selected multimeter measurement function icon.
7. Measured temperature of targeted spot.
8. Multimeter measurement.
9. Maximum multimeter measurement.
10. Minimum multimeter measurement.
11. Average multimeter measurement.

1.12 AC/DC VOLTAGE MEASUREMENTS

WARNING! Use extra care when measuring voltages > 30 V DC or AC RMS.

1. Insert the test leads into the input terminals at the bottom of the meter.
2. Turn the scroll wheel to the desired voltage position ($\widetilde{V}$, $\overline{\overline{V}}$, $m\widetilde{V}$, $m\overline{\overline{V}}$, $\widetilde{LoZ}$, $\overline{\overline{LoZ}}$) and press Enter to activate.
3. Place the probe ends of the test leads in parallel to the part under test.
4. Read the measurement on the display. The frequency is shown above the voltage reading.

1.13 RESISTANCE/CONTINUITY MEASUREMENTS

WARNING! Do not measure resistance on a powered circuit or component.

1. Insert the test leads into the input terminals at the bottom of the meter.
2. Turn the scroll wheel to the resistance Ω or continuity $\bullet\bullet\bullet$ position and press Enter.
3. Place the probe ends of the test leads in parallel to the part under test.
4. Read the resistance value on the display. For continuity, the meter will beep when a short is detected.

1.14 DIODE TESTS

WARNING! Remove power to the device under test before taking diode measurements.

1. Insert the test leads into the input terminals at the bottom of the meter.
2. Turn the scroll wheel to the diode position $\rightarrow|$ and press Enter.
3. Take a forward bias diode measurement and note the reading.

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4. Take a reverse bias diode measurement and note the reading.
5. If the reading is between 0.40 V and 0.90 V in one direction and **OL** (overload) in the opposite direction, the component is good. If the measurement is **0 V** in both directions (shorted) or **OL** in both directions (open), the component is bad.

1.15 CAPACITANCE MEASUREMENTS

WARNING! Remove power to the capacitor, and discharge it, before taking capacitance measurements.

1. Insert the test leads into the input terminals at the bottom of the meter.
2. Turn the scroll wheel to the capacitance position  and press Enter.
3. Place the probe ends of the test leads in parallel to the part under test.
4. Read the auto range measurement on the display.

1.16 MAIN MENU

To open the main menu, press Enter. The menu items, listed below, appear. Navigate to an item and press Enter to open it. Refer to the user manual for details.



Image mode (IGM mode only): Alignment distance, Thermal MSX image, Thermal image, Digital image.



Thermal settings (IGM mode only): Colour, Measurement, Temperature Scale, Emissivity.



Logging: Press Enter to start/stop the Data Logger.



Advanced menu: MAX/MIN/AVG, Peak Hold, Relative.



Settings: Measurement Parameters, Saving Options, Device Settings, Information.

1.17 DATA LOGGER

The DM266 can automatically log up to 40,000 readings in each file. Logged readings are stored as *.csv files and can be shared using the Meterlink mobile app or by connecting to a PC. Refer to the user manual for details.

1.18 METERLINK MOBILE APPLICATION

Images, videos, and data log records can be shared using the Meterlink application. Download the app from the App Store® or Google Play™. Instructions for use are provided with the application and in the DM266 user manual.

1.19 PC INTERFACE

The meter connects to a PC using the supplied USB cable. The meter's USB port is located at the top under the protective flap. When connected, the PC recognizes the meter as a standard storage drive. Drag images, videos, and data log files from the meter's drive to the PC. You can also upgrade the meter's firmware using the PC interface, as explained in the user manual.

1.20 REMOTE CONTROL

The DM266 is supplied with the TA93 remote controller. Pair the TA93 with the meter in the Settings menu, as explained in the user manual, and then remotely freeze/unfreeze the displayed reading and capture images.

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1.21 RECHARGE THE BATTERY

The internal battery is not user serviceable. For replacement or repairs, please contact FLIR support. Recharge the battery by connecting the supplied USB cable to the meter's USB port and to a charger.

1.22 SPECIFICATIONS

1.22.1 General Specifications

Display type	Colour IPS LCD
Over-range indication	OL is displayed
Meter power	Rechargeable 3.7 V (2950 mAh) lithium battery
Operating conditions	-10 to 30°C (14 to 86°F) ($\leq$ 85% RH)
	30 to 40°C (86 to 104°F) ($\leq$ 75% RH)
	40 to 50°C (104 to 122°F) ($\leq$ 45% RH)
Dimensions	168 x 87 x 31 mm (6.5 x 3.4 x 1.2 in.)
Weight	299 g (10.5 oz.)
Safety standards	IEC 61010-1 CAT III 600 V

1.22.2 Imaging

IR resolution	160 x 120 pixels
Thermal image format	*.jpg type with temperature data
IR temperature range	-10°C to +300°C (+14 to +572°F)
Temperature accuracy	$\pm 3^\circ\text{C}$ (5.4°F) or $\pm 3\%$ of reading; whichever is greater

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Emissivity	Three (3) presets plus a custom setting
Digital camera resolution	1600 x 1200 pixels

1.22.3 Image and Video Storage

Image storage limits	40,000 image files
Video recording	50 minutes maximum (20 seconds for file sharing)

1.22.4 Data Logger

Sampling interval	1 to 100 seconds
Data log files	40,000 readings per file
Sharing logs	Meterlink mobile app or PC connection

1.22.5 Wireless Connectivity

Wireless technology	Bluetooth low energy (BLE)
Communications protocol	Meterlink mobile application
Bluetooth range	10 m (32 ft.)

1.22.6 Electrical Specifications

Function	Range	Accuracy (of reading)*
Voltage AC/DC	600.0 mV to 600 V	Basic accuracy: $\pm (0.3\% + 2 \text{ digits})$

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Frequency (line)	45 Hz to 1 kHz	Basic accuracy: $\pm (0.1\% + 2 \text{ digits})$
Resistance	600.0 Ω to 60.00 M Ω	Basic accuracy: $\pm (1.0\% + 2 \text{ digits})$
Continuity	< 30 Ω beeper ON; >150 Ω beeper OFF	
Capacitance	1000 nF to 10.00 mF	Basic accuracy: $\pm (2.0\% + 2 \text{ digits})$
Diode testing	3 V	$\pm (0.9\% + 3 \text{ digits})$

*Best case accuracy. For full accuracy specifications, refer to the user manual.

1.23 Limited Lifetime Warranty

This product is protected by FLIR's Limited Lifetime Warranty. Visit www.flir.com/testwarranty to read the Limited Lifetime Warranty document. Register your product at the website.

1.24 Customer Support

Customer Support Telephone List:	https://support.flir.com/contact
Repair, Calibration, and Technical Support	https://support.flir.com



Website

<http://www.flir.com>

Customer support

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