FLIR MR176

P/N: MR176

Revision

42567

Last modified

2017-05-09 13:53 UTC+1

Copyright

© 2018, FLIR Systems, Inc.

Disclaimer

Specifcations subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@fir.com with any questions.

Website

http://www.flir.com

Customer support

http://support.flir.com

Imaging Moisture Meter Plus with IGM	
Part number	MR176
Part name	Imaging Moisture Meter Plus with IGM

The FLIR MR176 Imaging Moisture Meter Plus with IGM is an all-in-one tool equipped with a built-in thermal camera that can show you exactly where to measure moisture. Featuring Infrared Guided Measurement (IGM) technology, the FLIR MR176 helps you quickly scan and target moisture issues, visually guiding you to the spot where you can confidently take measurements and analyze readings. An integrated pinless sensor and an external pin probe provide the flexibility to take either non-intrusive or intrusive measurements. Coupled with a field-replaceable temperature and relative humidity sensor, and automatically calculated environmental readings, the FLIR MR176 delivers added convenience and ease of use, producing the right measurements—faster.

- Visually identify hidden moisture with IGM. Easily investigate moisture issues and troubleshoot quickly.
- An 80 × 60, 4800-pixel Lepton thermal imager powers IGM technology, visually indicating potential moisture areas via the color display.
- Customize thermal images: select which measurements are integrated (moisture, temperature, relative humidity, dew point, vapor pressure, mixing ratio), and choose from one of four color palettes (Iron, Rainbow, Ice, Greyscale); a lock-image setting prevents extreme hot and cold temperatures from interfering with images while scanning for issues.
- Equipped with a laser and cross-hair to easily reference the exact location of the potential moisture issue seen in the thermal image Get precise readings. Confidently take measurements and analyze readings.
- The field-replaceable temperature/relative humidity sensor can simply be removed from the meter and exchanged when needed, so you can continue to work and reduce downtime.
- The Progressive Environmental Stability Indicator removes response time error when you move through a site to different measurement locations, informing you when the relative humidity readings have reached a steady state.
- Integrated pinless moisture measurements for fast detection, and an external pin probe included with expandable probe options. Convenient and easy to operate. Get more work done in less time.
- Rugged, portable design with an intuitive menu system.
- Document readings and images to share via the included USB cable.
- Free FLIR Tools PC software quickly generates reports.

Thermal imaging	
Imaging detector	FLIR Lepton, microbolometer
Image calibration	Automatic with manual lock scale option
Thermal image resolution (W × H)	4800 pixels (80 × 60)
Spectral response	8–14 µm
Field of view (W × H)	51° × 38°
Sensitivity	<150 mK
Detection limit (wet area detection @ 10 m / 32 in.)	49 cm² (19.7 in²)
Image update speed frequency	9 Hz
Thermal image palettes	Iron, Rainbow, Ice, Greyscale