

MR160 Imaging Moisture Meter



FLIR MR160 scanning ceiling & wall joint for moisture issues



MR160 thermal image showing clear moisture intrusion.

# FLIR MR160

**Imaging Moisture Meter** 

The FLIR MR160 Imaging Moisture Meter is the first of its kind. Equipped with a built-in thermal camera, MR160 is the only moisture meter with the power to show you where to measure the problem.

Featuring Infrared Guided Measurement (IGM) technology, the MR160 helps you quickly scan and target moisture issues, visually guiding you to the spot where you can make confident moisture readings.

An integrated pinless sensor and an external pin probe provide the flexibility to take either intrusive or non-intrusive measurements. Built tough with an industry-leading warranty, the MR160 can serve as your go-to troubleshooting tool right out of the box - or as the perfect complement to any high resolution thermal camera you already own - helping you find hidden moisture issues and capture reliable data more efficiently.

#### **IDENTIFY AND VERIFY WITH ONE TOOL.**

First-ever thermal imaging moisture meter

- 80 x 60 Lepton<sup>®</sup> thermal imager with IGM technology
- Document thermal images and moisture readings on one screen
- Review images and generate reports with free FLIR Tools software

### **TROUBLESHOOT QUICKLY.**

Easily investigate insulation and moisture issues

- Pinless technology for fast non-contact measurements
- External pin probe included for contact moisture measurements
- Easy targeting with laser pointer and display cross-hairs

# PORTABLE. TOUGH AND DURABLE.

Rugged design

- Industry-leading warranty
- Small form factor to conveniently carry with you
- Internal rechargeable battery with USB



# **Specifications**

| FLIR MR160: Imaging Moistu                          | ire Meter   |
|---|---|
| Part number   | MR160   |
| Thermal imaging                                     |   |
| Imaging detector                                    | FLIR Lepton <sup>®</sup> , microbolometer focal plane array                           |
| Shutter   | Integrated automatic shutter for auto flat field correction                           |
| Thermal image resolution (W $\times$ H)             | 4800 pixels (80 × 60)   |
| Spectral response                                   | 8–14 µm   |
| Field of view (W x H)                               | 51° × 38°   |
| Sensitivity   | <150mK  |
| Image update speed frequency                        | 9 Hz  |
| Thermal image palettes                              | Ice   |
| Thermal image minimum focus distance                | 10 cm (4")  |
| Moisture Measurement                                |   |
| Pin moisture via external probe<br>range (accuracy) | 0–100% WME ± 5%   |
| Pin moisture groups                                 | 9 material groups   |
| Pinless moisture range                              | 0–100 relative measurement  |
| Measurement resolution                              | 0.1   |
| Response time pinless                               | 100 ms  |
| Response time pin mode                              | 750 ms  |
| General information                                 |   |
| Display type  | 320 x 240 pixel 2.3" 64K color TFT graphical display                                  |
| Display resolution ( $W \times H$ )                 | QVGA (320 x 240)  |
| Saved image file format                             | BMP with measurement values overlaid  |
| Stored image capacity                               | 9999 images   |
| Laser orientation                                   | Single laser pointer to center of thermal image                                       |
| Power requirements:                                 | Integrated rechargable battery  |
| Battery power -<br>continuous run time              | 18 hours max  |
| Battery power - typical usage:                      | 4 work weeks  |
| Battery   | 3.7 V, 3000mAh (2 x 1500mAh Li-ion rechargeable batteries) rechargeable via micro USB |
| Certification standards                             | EN61326 (EMC), EN61010 (battery + charger),<br>EN60825-1 class 2 (Laser)              |
| Agency approvals                                    | FCC class B, CE, UL   |
| Available Accessories                               |   |
| MR10 protective case                                |   |
| MR05 impact pin probe                               |   |





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