

Imaging Detector	FLIR Lepton microbolometer	
Image Calibration	Automatic with manual lock scale option	
Thermal Image Resolution (W x H)	4800 pixels (80 x 60)	
Spectral Response	8 to 14 μ m	
Field of View (W x H)	51° x 38°	
Sensitivity	<150mK	
Detection Limit (Wet Area Detection @ 32ft (10m))	19.7in ² (49cm ²)	
Image Update Speed Frequency	9Hz	
Thermal Image Palettes	Iron, Rainbow, Ice, Greyscale	
Thermal Image Minimum Focus Distance	4" (10cm)	
Pin Moisture	7% to 30%	±1.5% MC
	30% to 100%	Reference only
Pin Moisture Groups	9 Material Groups	
Pinless Moisture Range	0 to 100	Relative
Pinless Measurement Depth	0.75" (19mm) Max	
Measurement Resolution	0.1	
Response Time Pinless Mode	100ms	
Response Time Pin Mode	750ms	
Relative Humidity	0 to 100%	2.5%RH
Air Temperature	32 to 122°F (0 to 50°C)	±1.1°F (±0.6°C)
Dew Point	-22 to 122°F (-30 to 50°C)	±1.8°F (±1.0°C)
Vapor Pressure	0.0 to 12.0kPa	±0.05kPa
Mixing Ratio	0 to 560GPP (0.0 to 80.0 g/kg)	±2GPP (0.25 g/kg)
Display Type	QVGA (320 x 240 pixel) 2.3" color TFT graphical display	
Saved Image File Format	BMP with measurement values overlaid	
Stored Image Capacity	9999 images	
Laser Orientation	Single laser pointer to center of thermal image	
Continuous Run Time	18 hours max	
Typical Usage*	4 work weeks	
Battery	3.7V, 3000mAh Li-ion rechargeable via micro USB	
Certification Standards	EN 61326 (EMC), EN 60825-1 Class 2 (Laser)	
Agency Approvals	CE, FCC Class B	
Includes	MR01 Replaceable Temperature and Relative Humidity Sensor, MR02 Standard Pin Probe, Quick Start Guide, International USB Charger, USB Cable	

Color Display

Snap & Save Pictures

Navigation Button

Back Button

Laser

Power

Laser

Lepton Thermal Imaging Sensor

Pinless Sensor

Charging & Probe Connector



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Ordering Information	UPC	EAN
MR176	793950371763	0793950371763
MR05 Impact Pin Probe	793950370056	0793950370056
MR06 Wall Cavity Probe	793950370063	0793950370063
MR07 Hammer Probe	793950370070	0793950370070
MR08 Hammer and Wall Cavity Probe Combo	793950370087	0793950370087
MR10 Protective Case	793950370117	0793950370117