

This infrared thermometer is used for measuring the temperature of the object's surface, which is applicable for various hot, hazardous or hard-to-reach objects without contact safely and quickly. This unit consists of Optics, Temperature Sensor Signal amplifier, Processing circuit and LCD Display. The Optics

collected the infrared energy emitted by object and focus onto the Sensor. Then the sensor translates the energy into an electricity signal. This signal will be turned out to be digital shown on the LCD after the signal amplifier and processing circuit.

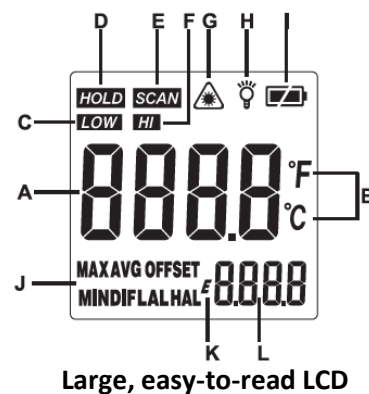
Specification	
Temperature range	-50~550°C (-58~1022°F)
Accuracy	0°C~550°C (32°F~1022°F): $\pm 1.5^{\circ}\text{C}$ ($\pm 2.7^{\circ}\text{F}$) or $\pm 1.5\%$
	-50°C~0°C (-58°F~32°F): $\pm 3^{\circ}\text{C}$ ($\pm 5^{\circ}\text{F}$) Whichever is greater
Resolution	0.1°C or 0.1°F
Repeatability	1% of reading or 1°C
Response time	500 mSec, 95% response
Spectral response	5 μm ~14 μm
Emissivity	0.10~1.00 Adjustable (0.95 Preset)
Distance to Spot size	12:01
Operating Temperature	0 ~40°C (32 ~ 104°F)
Operating Humidity	10%RH~95%RH non-condensing, up to 30°C(86°F)
Storage Temperature	-20°C ~ 60°C (-4°F~140°F)
Power	3V (1.5V AAA battery X2)
Typical battery life (Alkaline)	Non-laser mode: 22 hrs; Laser Models:12 hrs

Emissivity			
Material	Emissivity	Material	Emissivity
Aluminum	0.3	Iron	0.7
Asbestos	0.95	Lead	0.5
Asphalt	0.95	Limestone	0.98
Basalt	0.7	Oil	0.94
Brass	0.5	Paint	0.93
Brick	0.9	Paper	0.95
Carbon	0.85	Plastic	0.95
Ceramic	0.95	Rubber	0.95
Concrete	0.95	Sand	0.9
Copper	0.95	Skin	0.98
Dirt	0.94	Snow	0.9
Frozen food	0.9	Steel	0.8
Hot food	0.93	Textiles	0.94
Glass(plate)	0.85	Water	0.93
Ice	0.98	Wood	0.94



LCD display & Distance to spot size

- A: Measuring reading
- B: Measuring unit
- C: Low temperature alarm icon
- D: Data hold icon
- E: Scanning icon
- F: High temperature alarm icon
- G: Laser on icon
- H: Back light on icon
- I: Battery power icon
- J: Mode
- K: Emissivity indicator
- L: Functional value



display with backlit

