

TECHNICAL DATA



Features

- Dual lasers assist with target area identification
- 50:1 distance to spot size ratio
- Take photos and record video with built-in camera
- Datalogging capabilities include on-screen graphing with time and date stamp
- Digitally adjustable emissivity
- Type K thermocouple input for contact measurement
- Ambient air temperature, humidity, dew point and wet bulb temperature measurement
- Max, min, avg and differential readings
- High and low alarms
- Trigger lock feature for continuous monitoring
- Export data to PC with included USB cable (no software required)
- Includes type K thermocouple probe, AC adapter, USB cable, mini-tripod, li-ion rechargeable battery and hard carrying case

Specifications

IR Temperature

Range: -58 to 3992°F (50 to 2200°C)

Accuracy: 58 to 68°F (-50 to -20°C): ± 6.3°F (3.5°C)
68 to 932°F (20 to 500°C): ±1% rdg.
+1.8°F (1°C); 932 to 1832°F
(500 to 1000°C): ±1.5% rdg.
1832 to 3992°F (1000 to 2200°C): ±2.0% rdg.

Resolution: 0.1°F (0.1°C)

Contact Type K T/C Temperature

Range: -58 to 2498°F (-50 to 1370°C)

Accuracy: 58 to 32°F (-50 to 0°C): ±4.5°F (2.5°C)
32 to 2498°F (0 to 1370°C):
±0.5% rdg. + 2.7°F (1.5°C)

Resolution: 0.1°F (0.1°C)

Ambient Temperature

Range: 32 to 122°F (0 to 50°C)

Accuracy: 50 to 104°F (10 to 40°C): ± 0.9°F (0.5°C)
>104°F (40°C): ±1.8°F (1.0°C)

Dewpoint and Wet Bulb Temperature

Range: 32 to 122°F (0 to 50°C)

Accuracy: <40°C: ±0.9°F (0.5°C)
>40°C: ± 1.8°F (1.0°C)

Relative Humidity

Range: 0 to 100% RH

Accuracy: 0 to 20%: ±5%
20 to 40%: ±3.5%
40 to 60%: ±3%
60 to 80%: ±3.5%
80 to 100%: ±5%

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General Specifications

Optical Resolution (D:S):	50:1
Dual Laser:	Yes
Spectral Response:	8 to 14µm
Emissivity:	0.1 to 1.0 (Adjustable)
Response Time:	150ms
Display Size/Type:	2.2" TFT Color LCD
Backlit Display:	Yes
Display Hold:	Yes
High/Low Alarms:	Audible (beep) & Visual (on-screen)
Max/Min:	Yes
Average and Differential:	Yes
Datalogging Capabilities:	Yes
F/C Switchable:	Yes
Trigger Lock:	Yes
Auto Shut Off:	Yes (adjustable 3, 15, 60min)
Internal Memory:	Yes (72mb), Expendable with micro SD card
Thermocouple Input:	Yes
Tripod Mountable:	Yes
Laser Class:	Class II
Low Battery Indicator:	Yes
Power Supply:	Li-Ion rechargeable battery

Battery Life:	Approx. 4 hours continuous use
Battery Charge Time:	Approx. 2 hours
Product Certifications:	CE, RoHS
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	-4 to 140°F (-20 to 60°C)
Operating Humidity:	10-90%
Dimensions:	8.1 x 2.4 x 6.1" (205 x 62 x 155mm)
Weight:	14.5 oz (410g)

Model	Description
R2020	Video Infrared Thermometer
SD-MINI(8GB)	8GB Micro SD Memory Card
LS-103	Air/Gas Thermocouple Probe
LS-104	Right Angle Thermocouple Surface Probe
LS-107	Immersion Thermocouple Probe
LS-109	Surface Thermocouple Probe
LS-134A	Needle Tip Thermocouple Probe
LS-139	Spring Loaded Surface Probe
R1500	Lightweight Tripod
R8888	Deluxe Hard Carrying Case
R2020-NIST	Video Thermometer & NIST