

Features

- 160 x 120 infrared resolution (19,200 pixels)
- 2.8" color TFT display
- Built-in LED flashlight
- Choice of 5 color palettes
- High and Low temperature spot and alarm indicators
- Dustproof and 6.5' (2m) drop tested
- Rechargeable li-ion battery
- Tripod mountable for continuous long-term monitoring
- View stored data with included software
- Low battery indication and auto shut off
- Includes USB cable, lens cover, 16GB micro SD card & soft carrying case

Specifications

Imaging and Optical Specifications

Field of View (FOV):	56 x 42°
Minimum Focus Distance:	0.82' (0.25m)
Spatial Resolution:	(IFOV) 11mrad
Thermal Sensitivity (NETD):	<0.05°C (50mK)
Image Capture Frequency:	9Hz
Focus:	Fixed

Measurement

Temperature Range:	14 to 752°F (-10 to 400°C)
Accuracy:	±3.6°F (2°C) or ±2% of reading
Resolution:	0.1°F/°C

Detector Specifications

Detector Type:	Uncooled microbolometer, Focal plane array (FPA)
Spectral Range:	8 to 14µm
IR Resolution:	160 x 120 (19,200 pixels)

Image Presentation and Measurement Analysis

Display:	2.8" color TFT
Color Palettes:	5 (Iron/Rainbow/Gray/ Red-White/White-Blue)
Center Spot:	Yes
Emissivity:	Adjustable (0.01 to 0.99)
Temperature Alarm Indicators:	High/Low (user adjustable)
Automatic Hot/Cold Detection:	Auto hot or cold spot-meter markers

TECHNICAL DATA



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TECHNICAL DATA



General Specifications

Display Resolution:	320 x 240 pixels
Image Format:	BMP
LED Flashlight:	Yes
External Memory:	Micro SD card
Auto Shut-Off:	Yes (user adjustable 5/10/30 minutes)
Tripod Mountable:	Yes
Low Battery Indicator:	Yes
Power Supply:	3.7V/5000mAh rechargeable Li-ion battery
Battery Life:	Approximately 6 hours
Charging System:	In camera
Charge Time:	4 hours
PC Connectivity:	USB Cable (Type-C)
Software:	Yes (download from website)
Software OS Compatibility:	Windows 7/8/10/11
Supported Languages:	English and French

Product Certifications:	CE, IP65, 6.5' (2m) drop test
Temperature:	Operating: 32 to 122°F (0 to 50°C) Storage: -4 to 140°F (-20 to 60°C)
Operating/Storage Humidity Range:	10 to 90%
Maximum Operating Altitude:	6561' (2000m)
Dimensions:	9.3 x 3 x 3.4" (236 x 76 x 86mm)
Weight:	1lbs (454g)

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TECHNICAL DATA



R2160-KIT

Thermal Imaging Camera Kit

Includes:
R2160 Thermal Imaging Camera,
R8888 Hard Carrying Case with
custom foam interior



R2160-KIT2

Thermal Imaging Camera and
Heat Stress Meter Kit

Includes:
R2160 Thermal Imaging Camera,
R6250SD Data Logging Heat
Stress Meter



Model	Description
R2160	Thermal Imaging Camera
R2160-NIST	Thermal Imaging Camera with NIST
R2160-RC	Replacement Lens Cap
R8888	Hard Carrying Case
R2160-KIT	Thermal Imaging Camera Kit
R2160-KIT2	Thermal Imaging Camera and Heat Stress Meter Kit