

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

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|--------------------|-----------------------------------|
| 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

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|-----------------|---|
| 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

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|-------------------------------|--|
| 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



Continued...

TECHNICAL DATA



General Specifications

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|----------------------------|--|
| 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 |