

TECHNICAL DATA

Features

- 320 x 240 infrared resolution (76,800 pixels)
- 3.5" color IPS Display
- Built-in dual LED flashlight
- Choice of 7 color palettes
- Intuitive on-screen measurement tools
- 4 image modes (Thermal, Visual Image, Picture-in-Picture, Fusion (Thermal Blending))
- High and Low temperature spot and alarm indicators
- IP54 and 6.5' (2m) drop tested
- 4x digital zoom
- Rechargeable Li-ion battery
- Tripod mountable for continuous long-term monitoring
- View, analyze stored data and generate reports or project in real-time
- Low battery indication and auto shut-off
- Includes power adapter, USB cable, 2 batteries, 32GB micro SD memory card and hard carrying case

Specifications

Imaging and Optical Specifications

| | |
|-----------------------------|--------------|
| Field of View (FOV): | 56 x 42° |
| Focal Length: | 4.0mm |
| Spatial Resolution: | (IFOV) 3mrad |
| Thermal Sensitivity (NETD): | <65mK |
| Image Capture Frequency: | 9Hz |
| Focus: | Fixed |

Measurement

| | |
|--------------------|--|
| Temperature Range: | -40 to 752°F (-40 to 400°C) |
| Accuracy: | ±3.6°F (2°C) or ±2% of reading, for ambient temperature at 77°F (25°C) |
| Resolution: | 0.1°F/°C/K |

Detector Specifications

| | |
|-----------------|---|
| Detector Type: | Uncooled Vanadium Oxide, Focal plane array (UFPA) |
| Spectral Range: | 8 to 14µm |
| IR Resolution: | 320 x 240 (76,800 pixels) |



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TECHNICAL DATA



3.5" color IPS Display



320 x 240 infrared resolution
(76,800 pixels)



Built-in dual LED flashlight

Image Presentation and Measurement Analysis

| | |
|--------------------------------|--|
| Display: | 3.5" color IPS |
| Color Palettes: | 7 (Ironbow/Rainbow/Rainbow(HC)/Lava/Red-Hot/White-Hot/Black-Hot) |
| Image Modes: | Thermal, Visual Image, Picture-in-Picture, Fusion (Thermal Blending) |
| On-Screen Temperature Markers: | 3 (Center/High Temp/Low Temp) |
| Image Measurement Tools: | 5 Points/3 Rectangles/3 Circles/1 Line (add up to 6) |
| Emissivity: | Adjustable (0.01 - 1.00) |
| Isotherm: | Yes (Below, Above, Interval) |
| Temperature Span: | Automatic/Manual |
| Temperature Alarm Indicators: | High/Low (user adjustable) |

General Specifications

| | |
|------------------------|--|
| Image Capture Modes: | 2 (Single/Time-Lapse) |
| Display Resolution: | 640 x 480 pixels |
| Digital Zoom: | Yes (2x/4x) |
| Image Format: | JPG |
| LED Flashlight: | Yes (Dual) |
| External Memory: | Micro SD card |
| Auto shut-off: | Yes (user adjustable 5/10/20/30/45/60/90 mins) |
| Tripod Mountable: | Yes |
| Low Battery Indicator: | Yes |
| Power Supply: | 3.7V/5200mAh rechargeable Li-ion battery |
| Battery Life: | Approx. 3.5 hours |
| Charge System: | In Camera or Battery (USB-C) |
| Charge Time: | Approx. 4 hours |
| PC Connectivity: | USB Cable (USB-C) |

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Software: Yes (download from website)
 Software Functionality: Image Analysis/Live Camera Feed/Report Generation
 Software OS Compatibility: Windows Vista 7/8/10/11
 Supported Languages: English, French, German and Spanish
 Product Certifications: CE, UKCA, IP54, 6.6' (2m) drop test
 Operating Temperature: 32 to 122°F (0 to 50°C)
 Storage Temperature: 14 to 140°F (-10 to 60°C)
 Operating/Storage Humidity Range: 10 to 95%
 Maximum Operating Altitude: 6561' (2000m)
 Dimensions: 10.2 x 3.9 x 3.8" (260 x 99 x 97mm)
 Weight: 1.4lbs (630g)



| Model | Description |
|------------|-------------------------------------|
| R2170 | Thermal Imaging Camera |
| R2170-3.7V | Replacement/Add-On Battery |
| R2170-NIST | Thermal Imaging Camera with NIST |
| RSD-16GB | 16GB Micro SD Memory Card w/Adapter |
| R8890 | Hard Carrying Case |
| R1500 | Tripod |