

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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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