

Thermal Imaging Camera Model **R2165**



TECHNICAL DATA

Features

- 160 x 120 infrared resolution (19,200 pixels)
- 2.8" color TFT Display
- Built-in LED flashlight
- Choice of 7 color palettes
- Intuitive on-screen measurement tools
- 3 image modes (Thermal, Visual Image, Thermal Blending)
- High and Low temperature spot and alarm indicators
- IP65 and 6.5' (2m) drop tested
- 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 USB cable, 32GB micro SD card & soft carrying case

Specifications

Imaging and Optical Specifications

56 x 42° Field of View (FOV): Optimal Focal Distance: 0.25m (0.82') Spatial Resolution: (IFOV) 6.1 mrad

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, for ambient

temperature at 77°F (25°C)

Resolution: O.1°F/°C

Detector Specifications

Detector Type: Uncooled microbolometer,

Focal plane array (UFPA)

Spectral Range: 8 to 14µm

IR Resolution: 160 x 120 (19,200 pixels)



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Image Presentation and Measurement Analysis

2.8" color TFT Display:

Color Palettes: 7 (Ironbow/Rainbow/

Rainbow(HC)/

Lava/Red-Hot/White-Hot/

Black-Hot)

Image Modes: Thermal, Visual Image,

Thermal Blending

On-Screen

Temperature Markers: 7 (Center/High Temp/ Low Temp/Region of

Interest/Up to 3 points)

Adjustable (0.01 to 0.99)

Temperature

Center Spot:

Emissivity:

Alarm Indicators: High/Low (User adjustable)

Automatic Hot/

Cold Detection: Auto hot or cold spot-meter markers

General Specifications

Digital Camera: Yes

Digital Camera Resolution: 640 x 480 pixels 320 x 240 pixels Display Resolution:

BMP Image Format:

LED Flashlight: Yes External Memory:

Micro SD card Auto Shut-off: Yes (user adjustable 5/10/30 minutes)

Yes Tripod Mountable: Low Battery Indicator: Yes

Power Supply: 3.7V/5000mAh

rechargeable Li-ion battery

Battery Life: Approx. 6 hours In Camera Charging System:

Charge Time: 4 hours

PC Connectivity: USB Cable (Type-C)

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Software: Yes (download from website)

Software Functionality: Image Analysis/

Report Generation/ Live Camera Feed

Software OS Compatibility: Windows 7/8/10/11 Supported Languages: English and French CE, IP65, 6.5' (2m) **Product Certifications:**

drop test

10 to 90%

32 to 122°F (O to 50°C) Operating Temperature: Storage Temperature: -4 to 140°F (-20 to 60°C)

Operating/Storage

Humidity Range: Maximum Operating Altitude: 6561' (2000m) Dimensions:

9.3 x 3 x 3.4"

(236 x 76 x 86mm)

Weight: 1lbs (454g)

R2165-KIT

Thermal Imaging Camera Kit

Includes:

R2165 Thermal Imaging Camera, R8888 Hard Carrying Case with custom foam interior



| Model | Description |
|------------|--------------------------------------|
| R2165 | Thermal Imaging Camera |
| R8888 | Medium Hard Carrying Case |
| R1500 | Tripod |
| RSD-16GB | Micro SD Memory Card w/Adapter, 16GB |
| R2165-KIT | Thermal Imaging Camera Kit |
| R2165-NIST | Thermal Imaging Camera with NIST |
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