REED INSTRUMENTS

Thermal Imaging Camera
Model **R2150**

TECHNICAL DATA



The R2150 is a compact, easy-to-use thermal imaging camera designed for fast, accurate temperature measurement. It features a 120 x 90 IR resolution, enhanced to 240 x 180 super resolution, a 25Hz refresh rate, and 0.06 °C thermal sensitivity.

Features
- 120 x 90 infrared resolution (10,800 pixels)
- 240 x 180 super resolution
- 2.4" color TFT display
- Built-in Laser and LED flashlight
- Choice of 7 color palettes
- High and Low-temperature alarm indicators
- IP54 and 6.5' (2m) drop tested
- Rechargeable Li-ion battery
- Tripod mountable for continuous long-term monitoring
- Low battery indication and auto shut-off
- Includes USB cable and lanyard

Applications
- Home and building inspection
- Plant and general maintenance
- Electrical and mechanical inspection
- Predictive maintenance
- HVAC/R and plumbing

REED Instruments
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Model **R2150**

1 YEAR WARRANTY

TECHNICAL DATA

Specifications

Imaging and Optical Specifications

Field of View (FOV):	50 x 38°
Focal Length:	1.64' (50cm)
Spatial Resolution:	(IFOV) 7.5mrad
Thermal Sensitivity (NETD):	<0.06°C (60mK)
Image Capture Frequency:	25Hz
Focus:	Fixed

Measurement

Temperature Range:	-4 to 1022°F (-20 to 550°C)
Accuracy:	±3.6°F (2°C) or ±2% of reading
Resolution:	0.1°F/°C

Detector Specifications

Detector Type plane array (UFPA):	Uncooled microbolometer, Focal
Spectral Range:	8 to 14µm
IR Resolution:	120 x 90 (10,800 pixels)
Super Resolution:	240 x 180 (43,200 pixels)

Image Presentation and Measurement Analysis

Display:	2.4" color TFT
Color Palettes:	7 (Ironbow/Rainbow/ Rainbow(HC)/Lava/White-Hot/ Black-Hot/Red-Hot)
Image Modes:	Thermal
On-Screen Temperature Markers:	3 (Center/High Temp/Low Temp)
Image Measurement Tools:	With Software
Emissivity:	Adjustable (0.01 to 0.99)
Temperature Alarm Indicators:	High/Low (user adjustable)

General Specifications

Image Capture Mode(s):	Single
Display Resolution:	320 x 240 pixels
Image Format:	JPG
LED Flashlight:	Yes
Memory:	Internal (approx. 2300 images)
Auto Shut-off:	Yes (user adjustable 5/10/30 minutes)
Tripod Mountable:	Yes
Low Battery Indicator:	Yes
Power Supply:	3.7V/2600mAh rechargeable Li-ion battery
Battery Life:	Approximately 13 hours
Charge System:	In camera
Charge Time:	Approx. 2.5 hours
PC Connectivity:	USB Cable (Type-C)
Software:	Yes (download from website)
Software Functionality:	Image Analysis/ Report Generation
Software OS Compatability:	Windows 7/8/10/11
Supported Languages:	English, French, German, Spanish and Italian
Product Certifications:	CE, IP54, 6.5' (2m) drop test
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	-4 to 140°F (-20 to 60°C)
Operating/Storage Humidity Range:	10 to 95%
Maximum Operating Altitude:	6561' (2000m)
Dimensions:	7.8 x 2.8 x 2.4" (197 x 72 x 60mm)
Weight:	11oz (313g)

Model	Description
R2150	Thermal Imaging Camera
R8888	Medium Hard Carrying Case
R1500	Tripod
R2150-NIST	Thermal Imaging Camera with NIST