

Thermal Imaging CameraModel **R2050**



TECHNICAL DATA

Features

- 80 x 80 infrared resolution (6,400 pixels)
- 2.8" color LCD display
- · Built-in laser and white LED flashlight
- 5 megapixel digital camera
- Video recording with voice annotations
- 3 image modes (infrared/visual camera/picture in picture)
- Choice of 4 color palettes
- Automatic level and span function
- HDMI output and expandable memory (Micro SD)
- Rechargeable li-ion battery
- Tripod mountable for continuous long-term monitoring
- Low battery indicator and auto shut off
- Includes li-ion battery, AC adapter with plugs, micro SD card, USB and HDMI cable, earphones, wrist strap, software and soft carrying case

Specifications

Imaging and Optical

Field of View (FOV): 17°x 17° Minimum Focus Distance: 0.5m

Thermal Sensitivity (NETD): <0.1°C @ +86°F (30°C)/100mK

Image Capture Frequency: 50Hz Focus: Manual

Measurement

Temperature Range: Low Range:

-4 to 302°F (-20 to 150°C)

High Range:

32 to 662°F (O to 350°C)

Accuracy: ± 3.6 °F (2°C) or $\pm 2\%$ of reading

Resolution: 0.1 or 1°F/°C

Detector

Detector Type: Uncooled microbolometer,

Focal plane array (FPA)

Spectral Range: 8 to 14µm

IR Resolution: 80 x 80 (6,400 pixels)

Image Presentation

Image Modes:

Display: 2.8" color (240 X 320 pixels)

IR image, visual image,

picture in picture

Color Palettes: 4 (Gray/Gray Inverted/

Iron/Rainbow)





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Measurement Analysis

Spot Meter: Center

Emissivity: Adjustable (O to 1.00)

Automatic Hot/

Cold Detection: Auto hot or cold spotmeter markers

Measurement Corrections: Emissivity, reflected temperature

General Specifications

Zoom: 32x continuous, digital zoom

Digital Camera: 5 Megapixels

Image Format: JPEG on memory card

>2000 pictures

Video Out: HDMI

Video Camera and

Annotations: Yes
Laser Indicator: Yes
LED Flashlight: Yes

External Memory: micro SD card

Auto Shut-off: Yes
Tripod Mountable: Yes
Low Battery Indicator: Yes

Power Supply: Rechargeable li-ion battery

Battery Life: Approx. 4 hours

Charging System: In Camera (AC Adapter)

PC Connectivity: USB Cable Software: Yes (Included)

Software OS Compatibility: Windows XP / 7 / 8 / 10 Supported Languages: English, Chinese, French,

German, Spanish

Laser Class:

Product Certifications: CE, IP65, 6.6' (2m) drop test
Operating Temperature: -4 to 122°F (-20 to 50°C)
Storage Temperature: -40 to 158°F (-40 to 70°C)

Operating/Storage Humidity:

Humidity: 10 to 90%
Dimensions: 8.8 x 3 x 7.8"
(224 x 77 x 96mm)

Weight: 1.1lbs (500g)





| Description |
|-------------------------------|
| Thermal Imaging Camera |
| Replacement AC Adapter |
| Replacement Battery |
| Hard Carrying Case |
| Thermal Imaging Camera & NIST |
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