

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 (0 to 350°C)
Accuracy:	±3.6°F (2°C) or ±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

Display:	2.8" color (240 X 320 pixels)
Image Modes:	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 (0 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: II
 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: 10 to 90%
 Dimensions: 8.8 x 3 x 7.8"
 (224 x 77 x 96mm)
 Weight: 1.1lbs (500g)



R2050-ADP

Model	Description
R2050	Thermal Imaging Camera
R2050-ADP	Replacement AC Adapter
R2050-3.7V	Replacement Battery
R8888	Hard Carrying Case
R2050-NIST	Thermal Imaging Camera & NIST