

# **Eco-V Handheld Thermal Camera**



The handheld thermal camera is based on the thermal technology, specially designed for the needs of temperature measuring applications. People can quickly troubleshoot faults on-site.

#### **Key Feature**

- Thermal resolution: 96 × 96 (9,216 pixels)
- 112:1 Distance to spot ratio (D:S)
- SuperIR: 240 × 240 (57,600 pixels)
- NETD: < 50 mK (@ 25°C, F# = 1.0)
- Measurement presets: center spot, hot spot, cold spot, off
- 25 Hz image frequency
- Laser pointer
- Built-in 4 GB flash memory: 30,000 pictures
- Up to 8 hours continuous running
- Thermal/Visual/Fusion

## Specification

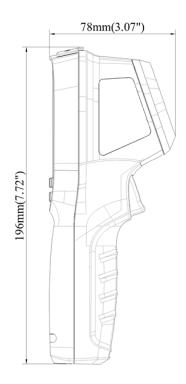
Accuracy above 0°C (32°F)  Measurement Tools Center Spot, Hot Spot, Cold Spot  Level and Span Mode Auto/Manual  Data Storage and Communication  Storage Media Built-in 4 GB flash memory  Image Storage Capacity Approx. 30,000 Images  General  USB Interface USB Type-C  Laser Yes, Class II  Battery Type Rechargeable Li-ion battery  Battery Charging Time Approx. 3 hours fully charged(Adapter Output: 5 V 2 A)  Battery Operating Time Approx. 8 hours  Protection Level IP54  Drop Test Height 2 m (6.56 ft)  Working Temperature Range -10°C to 50°C (14°F to 122°F)  Storage Temperature Range -40°C to 70°C (-40°F to 158°F)  Relative Humidity < 95% non-condensing  Weight	
SuperIR         240 × 240 (57,600 pixels)           Distance to Spot Ratio (D:S)         112:1           Image Frequency         25 Hz           NETD         < 50 mK (@ 25°C, F# = 1.0)           Detector Pitch         12 μm           Focal Length         1.35 mm           Spectral Range         7.5 to 14 μm           F-number         F1.0           Field of View (FOV)         50° × 50°           Spatial Resolution (IFOV)         8.89 mrad           Min. Focus Distance         0.1 m (0.33 ft)           Focus Mode         Focus Free           Image Display         240 × 320 Resolution, 2.4″LCD Screen           Image Modes         Thermal/Visual/Fusion           Color Palettes         White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion           Color Alarm         Above alarm           Visual Camera         640 × 480           Measurement and Analysis           Object Temperature Range         -20°C to 550°C (-4°F to 1022°F)           Accuracy         Max (±2°C/3.6°F, ±2%) at ambient temperature 25°C (77°F) and object above 0°C (32°F)           Measurement Tools         Center Spot, Hot Spot, Cold Spot           Level and Span Mode         Auto/Manual           Data Storage Adedia         Built-in 4 GB flash memory	C (0.246 minute)
Distance to Spot Ratio (D:S)         112:1           Image Frequency         25 Hz           NETD         < 50 mK (@ 25°C, F# = 1.0)	
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Focal Length   1.35 mm   5 pectral Range   7.5 to 14 μm   7 - number   F1.0   F1.0   50° × 50° × 50°   50° × 50	K (@ 25°C, F# = 1.0)
Spectral Range 7.5 to 14 µm F-number F1.0 Field of View (FOV) 50° × 50° Spatial Resolution (IFOV) 8.89 mrad Min. Focus Distance 0.1 m (0.33 ft) Focus Mode Focus Free Image Display Display 240 × 320 Resolution, 2.4"LCD Screen Image Modes Thermal/Visual/Fusion Color Palettes White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion Color Alarm Above alarm Visual Camera 640 × 480 Measurement and Analysis Object Temperature Range -20°C to 550°C (-4°F to 1022°F) Measurement Tools Center Spot, Hot Spot, Cold Spot Level and Span Mode Auto/Manual Data Storage And Communication Storage Media Built-in 4 GB flash memory Image Storage Capacity Approx. 30,000 Images General USB Interface USB Type-C Laser Yes, Class II Battery Type Rechargeable Li-ion battery Battery Charging Time Approx. 8 hours Protection Level IP54 Drop Test Height Approx. 290 g (0.64 lb) Weight Approx. 290 g (0.64 lb)	
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Spatial Resolution (IFOV)       8.89 mrad         Min. Focus Distance       0.1 m (0.33 ft)         Focus Mode       Focus Free         Image Display       240 × 320 Resolution, 2.4"LCD Screen         Image Modes       Thermal/Visual/Fusion         Color Palettes       White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion         Color Alarm       Above alarm         Visual Camera       640 × 480         Measurement and Analysis       Wister Temperature Range         Object Temperature Range       -20°C to 550°C (-4°F to 1022°F)         Measurement Tools       Center Spot, Hot Spot, Cold Spot         Level and Span Mode       Auto/Manual         Data Storage and Communication       Auto/Manual         Storage Media       Built-in 4 GB flash memory         Image Storage Capacity       Approx. 30,000 Images         General       USB Type-C         Laser       Yes, Class II         Battery Type       Rechargeable Li-ion battery         Battery Type       Rechargeable Li-ion battery         Battery Operating Time       Approx. 3 hours fully charged(Adapter Output: 5 V 2 A)         Battery Operating Time       Approx. 8 hours         Protection Level       IP54         Drop Test Height       2 m (6.56 ft)	
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Focus Mode Image Display  Display  240 × 320 Resolution, 2.4"LCD Screen Image Modes Thermal/Visual/Fusion  Color Palettes White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion Color Alarm Above alarm Visual Camera 640 × 480  Measurement and Analysis Object Temperature Range Accuracy Max (±2°C/3.6°F, ±2%) at ambient temperature 25°C (77°F) and object above 0°C (32°F) Measurement Tools Level and Span Mode Auto/Manual  Data Storage and Communication Storage Media Built-in 4 GB flash memory Image Storage Capacity Approx. 30,000 Images  General USB Type-C Laser Yes, Class II Battery Type Rechargeable Li-ion battery Battery Charging Time Approx. 3 hours fully charged (Adapter Output: 5 V 2 A) Battery Operating Time Approx. 8 hours Protection Level IP54 Drop Test Height 2 m (6.56 ft) Working Temperature Range -40°C to 70°C (-40°F to 158°F) Relative Humidity Approx. 290 g (0.64 lb)	nrad
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Object Temperature Range  -20°C to 550°C (-4°F to 1022°F)  Max (±2°C/3.6°F, ±2%) at ambient temperature 25°C (77°F) and object above 0°C (32°F)  Measurement Tools  Center Spot, Hot Spot, Cold Spot  Level and Span Mode  Auto/Manual  Data Storage and Communication  Storage Media  Built-in 4 GB flash memory  Image Storage Capacity  Approx. 30,000 Images  General  USB Type-C  Laser  Ves, Class II  Battery Type  Rechargeable Li-ion battery  Battery Charging Time  Approx. 3 hours fully charged(Adapter Output: 5 V 2 A)  Battery Operating Time  Approx. 8 hours  Protection Level  IP54  Drop Test Height  2 m (6.56 ft)  Working Temperature Range  -10°C to 50°C (14°F to 122°F)  Storage Temperature Range  -40°C to 70°C (-40°F to 158°F)  Relative Humidity  Approx. 290 g (0.64 lb)	480
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Relative Humidity < 95% non-condensing Weight Approx. 290 g (0.64 lb)	
Weight Approx. 290 g (0.64 lb)	<u>`</u>
- 12010-11-0001	
Tripod Mounting UNC ¼"-20	
	non-condensing

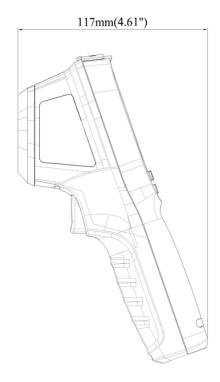
### Available Model

Eco-V

## Dimension







Unit: mm (inch)

- Accessory
- Optional



HM-B01-POUCH

COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.











