Product Datasheet - Technical Specifications

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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
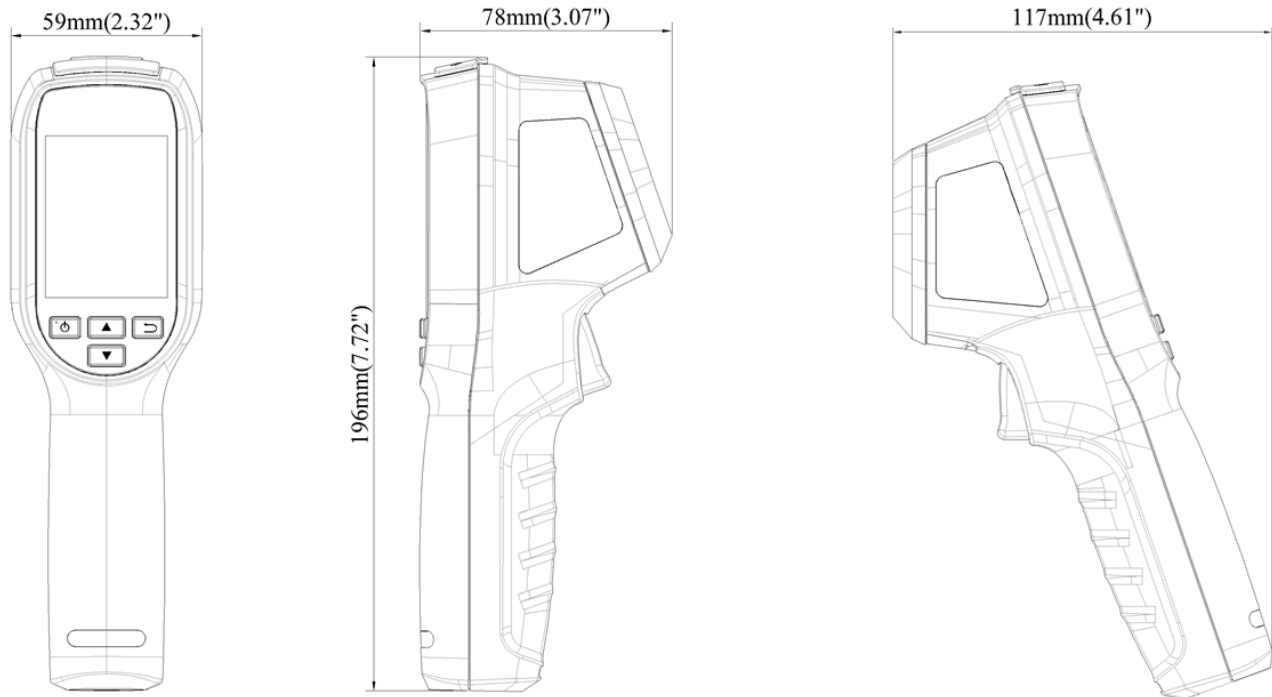- Thermal/Visual/Fusion

▪ Specification

Infrared Image	
IR Resolution	96 × 96 (9,216 pixels)
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	
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 temperature 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	Approx. 290 g (0.64 lb)
Dimension	196 × 117 × 59 mm (7.7" × 4.6" × 2.3")
Tripod Mounting	UNC ¼"-20

▪ Available Model

Eco-V

▪ Dimension

59mm(2.32")

78mm(3.07")

117mm(4.61")

196mm(7.72")

Unit: mm (inch)

▪ Accessory
▪ Optional

HM-B01-POUCH