Eco-V
Eco Series Handheld Thermal Camera



Based on advanced thermal imaging technology, this handheld thermal camera is specifically engineered for temperature measurement applications. It supports multiple scene modes, with select models featuring SuperScene intelligent detection that automatically recognizes scenarios and optimizes image output. Equipped with SuperIR, it delivers clearer and more accurate thermal imaging, enabling users to perform efficient and reliable on-site troubleshooting.

▪ Features

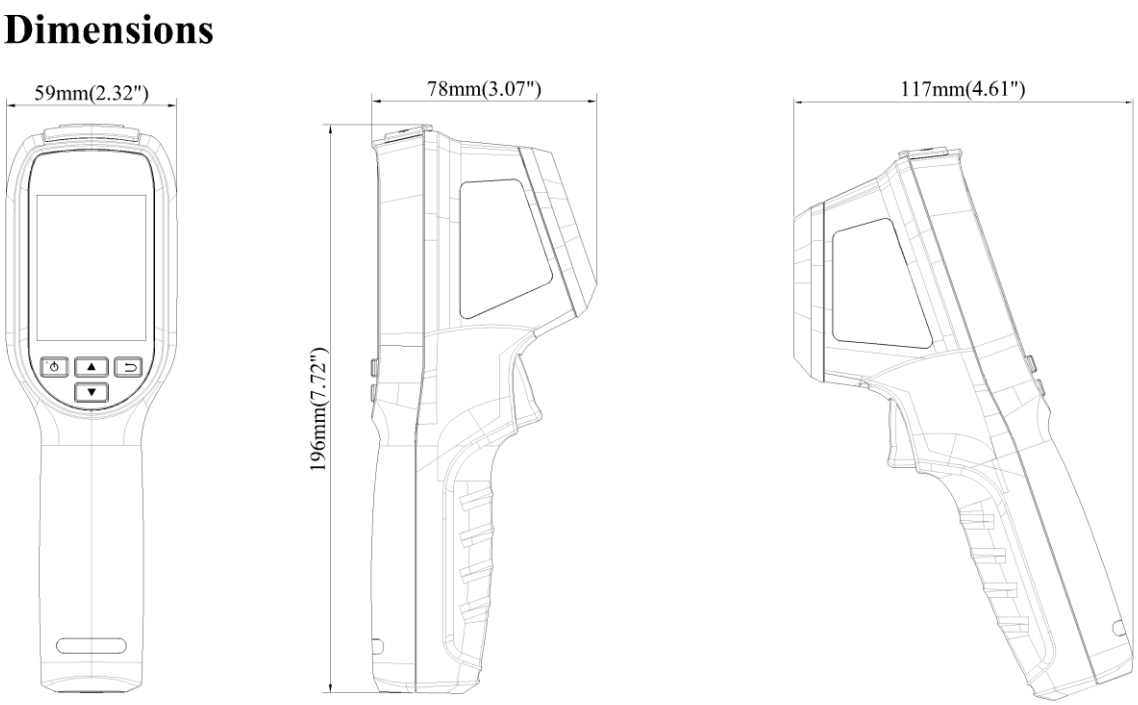
- Thermal resolution: 96 x 96 (9,216 pixels)
- 112:1 Distance to spot ratio (D:S)
- Support SuperIR
- NETD : < 50mK (@ 25 °C,F#=1.0)
- Support Multiple Scene modes, Some support SuperScene intelligent detection
- 25 Hz image frequency
- Laser pointer
- Thermal/Visual/Fusion

▪ Specification

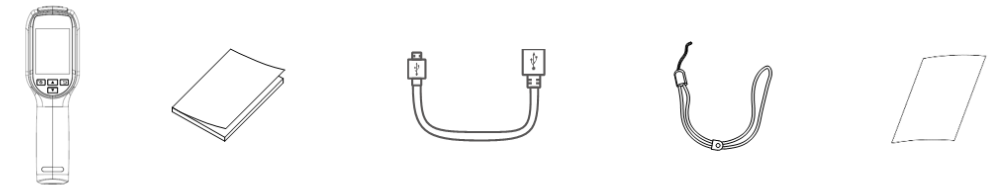
Infrared Image	
IR Resolution	96 × 96 (9,216 pixels)
SuperIR	Yes, on captured images and live view
Distance to Spot Ratio (D:S)	15:1
NETD	< 50 mK (@ 25 °C, F#=1.0)
Image Frequency	25 Hz
Detector Pitch	12 μm
Spectral Range	7.5 to 14 μm
Focal Length	1.35 mm
F-number	F1.0
Field of View (FOV)	50° × 50°
Spatial Resolution (IFOV)	8.89 mrad
Min. Focus Distance	0.1m (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, Blue Yellow
Visual Camera	640× 480 (0.3 MP)
Screen Brightness	Manual
Measurement and Analysis	
SuperScene Mode	Custom, Water Leak, Insulation, Floor Heating, Electrical Faults, Solar Panel
Smart SuperScene Alarm	Water Leak, Insulation, Floor Heating
Alarm	More than, Less than
Alarm Linkage	Alarm Mode Palettes
Temperature Measurement Mode	Thermometer mode, Measurements presets (center spot, Max spot, Min spot, off)
Object Temperature Range	Range -20°C to 150°C (-4°F to 302°F) Range 100°C to 550°C (212°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)
Level and Span Mode	Auto/Manual
Data Storage and Communication	
Storage Media	Built-in 4 GB eMMC (user available storage space is less than the nominal capacity)
Image Storage Capacity	Max 17,000 Images
Image File Format	Radiometric JPEG
Video Storage Capacity	MP4 Approx. 11h
Video File Format	MP4
Radiometric Infrared-Video Streaming (Compressed)	Over UVC
General	
USB Interface	USB Type-C
Battery Type	Rechargeable Li-ion Battery
Laser	Yes, Class II
Battery Operating Time	Approx. 8 hours

Battery Charging Time	Approx. 3 hours fully charged (Adapter Output：5 V 2 A)
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 in)
Tripod Mounting	UNC ¼"-20
Power Supply	USB-C (5V/2A)

▪ Dimension



▪ Packaging List



Camera (× 1) QSG (× 1) USB 2.0 A to USB Type-C Cable (× 1) Wrist Strap (× 1) Calibration Certificate (× 1)

- **Accessory**
- **Optional**

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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.

HIKMICRO

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*Note: Specifications are subject to change without notice. For the current specs, please go to www.hikmicrotech.com