

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	240 x 240 (57,600 pixels)
Distance to Spot Ratio (D:S)	112:1
NETD	< 50 mK (@ 25 °C, F#=1.0)
Image Frequency	25 Hz
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	0.1m (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
Measurement and Analysis	
SuperScene Intelligent Detection	Water Leak Scene, Insulation Scene
Alarm Linkage	Alarm Mode Palettes
Temperature Measurement Mode	Thermometer mode, Measurements presets (center spot, Max spot, Min spot, off)
Alarm	More than, Less than
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 4G eMMC (user available storage space is less than the nominal capacity)
Image Storage Capacity	Approx. 30,000 Images
Video Storage Capacity	Approx. 10.5 hours
Radiometric Infrared-Video Streaming (Compressed)	Over UVC
General	
USB Interface	USB Type-C
Laser	Yes, Class II

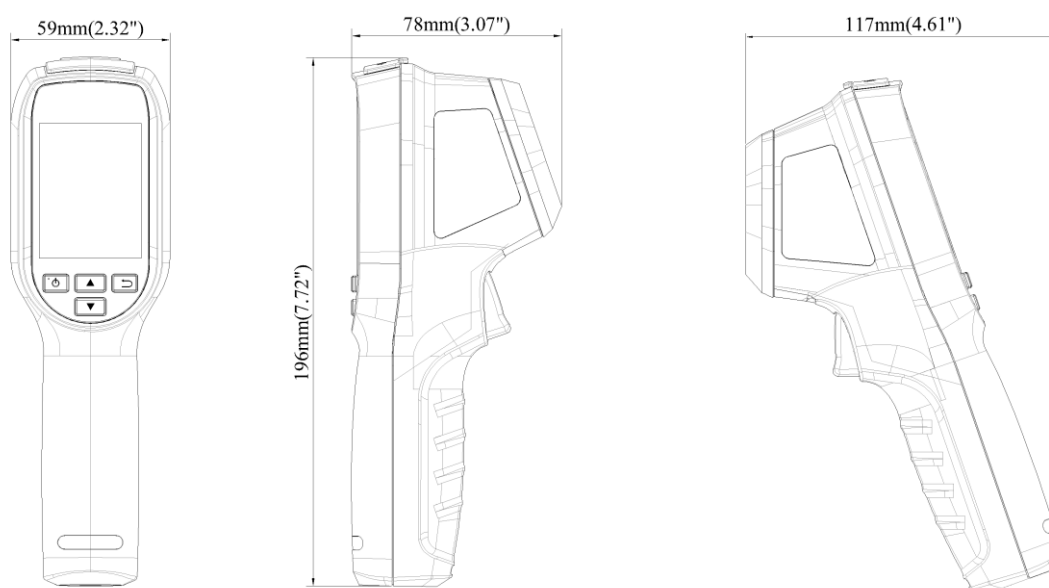
Battery Type	Rechargeable Li-ion battery
Battery Operating Time	Approx. 8 hours
Battery Charging Time	Approx. 3 hours fully charged (Adapter Output: 5 V 2 A)
Protection Level	IP54
Drop Test Height	2 m (6.56 ft)
Working Temperature Range	-10 °C to 50 °C (14 °F to 122 °F)
Storage Temperature Range	-40 °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

▪ Available Model

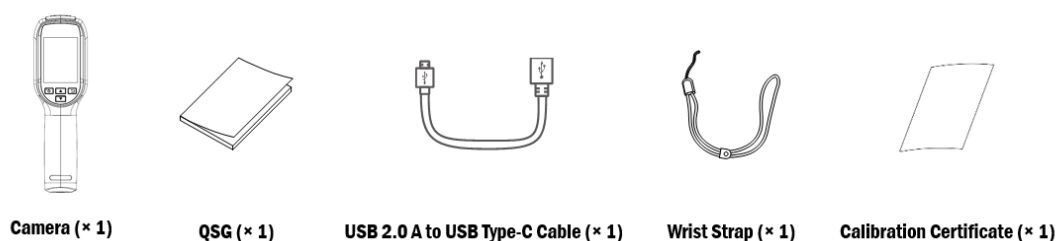
HM-TP30-1AQF-Eco-V

▪ Dimension

Dimensions



▪ Packaging List



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

**HM-B01-POUCH
POUCH**



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*Note: Specifications are subject to change without notice. For the current specs,
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