

Eco Lite Handheld Thermal Camera



This handheld thermal imager utilizes thermal imaging technology and is specifically designed for home temperature measurement applications. It offers comprehensive functionality while remaining extremely user-friendly, featuring a spot-temperature measurement mode, making it an excellent choice for those new to thermal imaging.

▪ Features

- Thermal resolution: 96 x 96 (9,216 pixels)
- Two temperature measurement methods: Thermometer Mode and Multiple Measurement Tools (Center Spot, Max Spot, Min Spot)
- Built-in 80M (user available storage space is less than the nominal capacity)
- Up to 14 hours continuous running
- NETD : < 50mK (@ 25 °C,F#=1.0)
- 25 Hz image frequency
- Field of View (FOV): 50° × 50°
- Protection Level: IP54

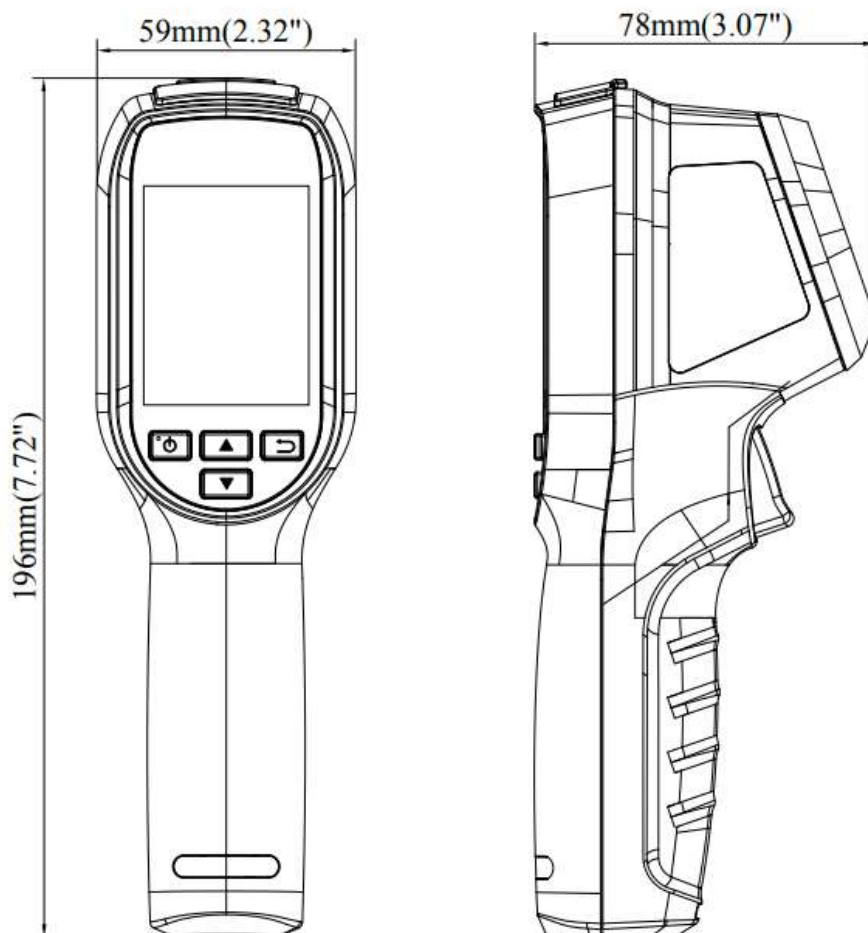
▪ Specification

Infrared Image	
IR Resolution	96 × 96 (9,216 pixels)
ODE	Yes
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
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Blue Yellow
Screen Brightness	Manual
Measurement and Analysis	
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 1: -20°C to 150°C (-4°F to 302°F) Range 2: 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
Data Storage and Communication	
Storage Media	Built-in 2 Gb NAND FLASH (user available storage space is less than the nominal capacity)
Image Storage Capacity	Max 2,600 Images
Image File Format	JPEG
Radiometric Infrared-Video Streaming (Compressed)	Over UVC
General	
USB Interface	USB Type-C
Battery Type	Rechargeable Li-ion Battery
Battery Operating Time	Approx. 14 hours
Battery Charging Time	Approx. 3 hours fully charged(Adapter Output: 5 V 2 A)

Protection Level	IP54
Drop Test Height	1 m (3.28 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. 228 g (0.529 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

Dimensions



• Packaging List



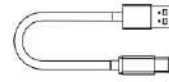
Camera (X1)



QSG (X1)



Wrist Strap (X1)



USB 2.0 A to USB Type-C Cable (X1)

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