

## 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:  $96 \times 96$  (9,216 pixels)
- 112:1 Distance to spot ratio (D:S)
- SuperIR:  $240 \times 240$  (57,600 pixels)
- NETD:  $< 40\text{mK}$  (@  $25^{\circ}\text{C}$ ,  $F\# = 1.0$ )
- 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

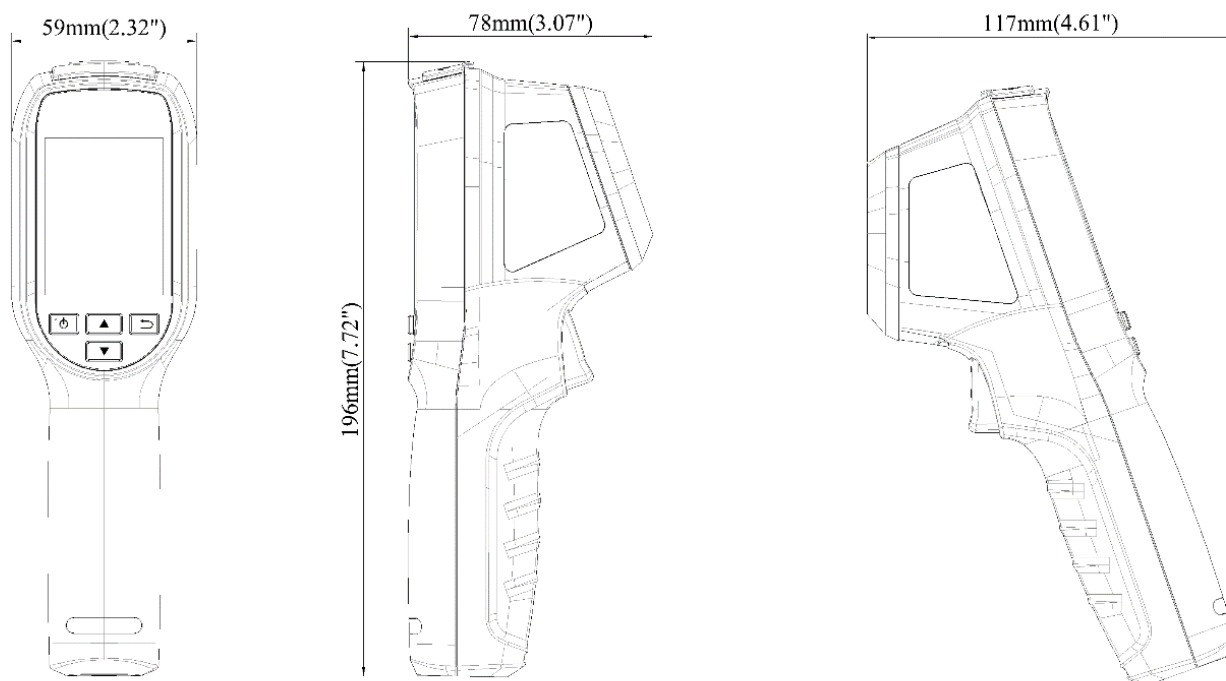
## ▪ Specification

| 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                                                                      |
| 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%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F) |
| Measurement Tools              | Center Spot, Hot Spot, Cold Spot                                                                                     |
| Level and Span Mode            | Auto                                                                                                                 |
| 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. 335 g (0.74 lb)                                                                                              |
| Dimension                      | 196 × 117 × 59 mm (7.7" × 4.6" × 2.3")                                                                               |
| Tripod Mounting                | UNC ¼"-20                                                                                                            |

## ▪ Available Model

Eco-V

## ▪ Dimension



Unit: mm (Inch)

## ▪ Accessory

### ▪ Optional



HM-B01-POUCH

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