

Eco-V Eco Series 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 Features

- Thermal resolution: 96 x 96 (9,216 pixels)
- 112:1 Distance to spot ratio (D:S)
- SuperIR: 240 x 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

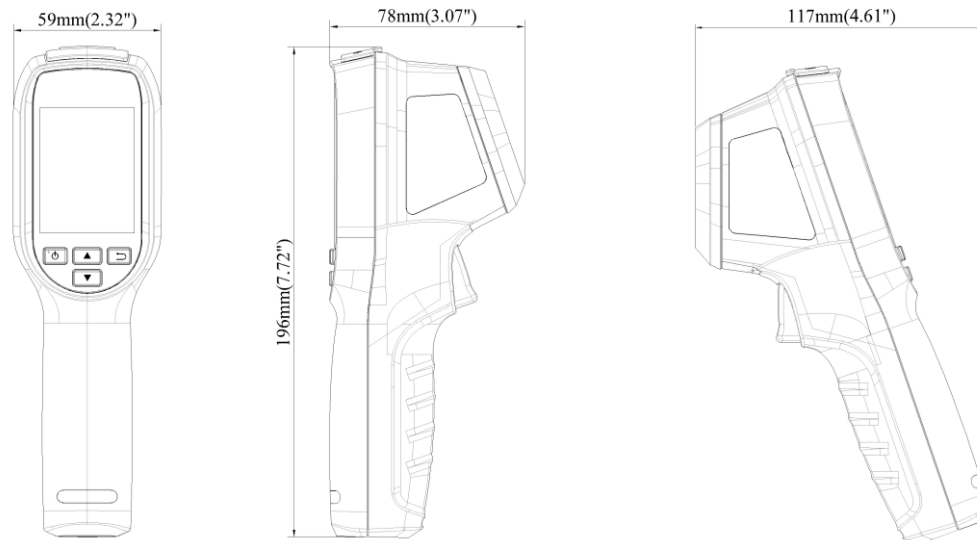
| Infrared Image | |
|--------------------------------|--|
| IR Resolution | 96 × 96 (9,216 pixels) |
| SuperIR | 240 × 240 (57,600 pixels) |
| Distance to Spot Ratio (D:S) | 112:1 |
| NETD | < 50 mK (@ 25 °C, F#=1.0) |
| Image Frequency | 25 Hz |
| Detector Pitch | 12 μm |
| Focal Length | 1.35 mm |
| 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 |
| Color Alarm | Above alarm |
| Visual Camera | 640 × 480 |
| Measurement and Analysis | |
| 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) |
| Measurement Tools | Center Spot, Hot Spot, Cold Spot |
| 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. 18,000 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 in) |
| Tripod Mounting | UNC ¼"-20 |

▪ Available Model

HM-TP30-1AQF-Eco-V

HM-TP30G-1AQF-Eco-V

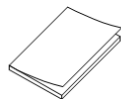
▪ Dimension



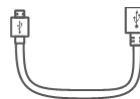
▪ Packaging List



Camera (× 1)



QSG (× 1)



USB 2.0 A to USB Type-C Cable (× 1)



Wrist Strap (× 1)



Calibration Certificate (× 1)

▪ Accessory

▪ Optional

HM-B01-POUCH 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.



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