

## SP60H Handheld Thermal Camera



The HIKMICRO SP60H high-performance handheld thermal camera is ideal for industrial, predictive, oil and gas, and utility maintenance inspections. HIKMICRO SP60H has a high sensitivity (NETD < 30 mK) and high resolution (640 × 480) HIKMICRO VOx detector, and the temperature calibration is up to 2200°C. This flexible and ergonomic thermal imager provides an electronic viewfinder and a 180° rotating lens, making long-day outdoor inspections easier. Advanced features help thermal imaging professionals to easily survey equipment and find signs of malfunction, such as GPS and compass annotations, continuous digital zoom, and 1-Tap level and span. Connect HIKMICRO Viewer App or HIKMICRO Analyzer software to transfer, analyze, and share pictures, and generate reports for free.

### Key Features

- Thermal resolution: 640 x 480 (307 200 pixels), NETD : < 30 mK (@ 25 °C,F#=1.0)
- Temperature measurement range : -40°C to 2200°C (-40°F to 3992°F)
- Accuracy: Max. (±1°C (±1.8°F): 0 to 100°C (32 to 212°F); ±1%: 100 to 150°C (212 to 302°F))
- The 90° rotating screen and the 180° rotating lens design
- 1024 x 768 OLED electronic viewfinder and auto-brightness 5-inch color LCD display
- 1.x to 12.x continuous digital zoom
- Manual, automatic, and 1-Tap Level and Span
- GPS & compass annotation functions
- 30 Hz image frequency
- Up to 4 hours continuous running

## ▪ Specification

| Infrared Image                 |                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| IR Resolution                  | 640 × 480 (307,200 pixels)                                                                                                                             |
| SuperIR                        | 1280 × 960 (1,228,800 pixels)                                                                                                                          |
| NETD                           | < 30 mK (@ 25 °C, F#=1.0)                                                                                                                              |
| Image Frequency                | 30 Hz                                                                                                                                                  |
| Detector Pitch                 | 17 μm                                                                                                                                                  |
| Spectral Range                 | 7.5 to 14 μm                                                                                                                                           |
| Focal Length                   | L8: 77.4 mm; L12: 51.4 mm; L25: 25 mm; L50: 12.6 mm                                                                                                    |
| F-number                       | L8: F1.2; L12: F1.1; L25: F1.0; L50: F1.0                                                                                                              |
| Field of View (FOV)            | L8: 8° × 6°; L12: 12° × 9°; L25: 24.8° × 18.7°; L50: 50° × 37.3°                                                                                       |
| Spatial Resolution (IFOV)      | L8: 0.22 mrad; L12: 0.33 mrad; L25: 0.68 mrad; L50: 1.35 mrad                                                                                          |
| Min. Focus Distance            | L8: 2 m (6.56 ft); L12: 1 m (3.3 ft); L25: 0.2 m (0.65 ft); L50: 0.2 m (0.65 ft)                                                                       |
| Focus Mode                     | Laser Assisted AF/Continuous AF/AF/Manual Focus/Touch AF                                                                                               |
| Focus Speed                    | Approx. 1 second                                                                                                                                       |
| Image Display                  |                                                                                                                                                        |
| Visual Camera                  | 3264 × 2448 (8 MP)                                                                                                                                     |
| Display                        | 1280 × 720 Resolution, 5" LCD Touch Screen                                                                                                             |
| Screen Brightness              | Manual/Auto                                                                                                                                            |
| Viewfinder                     | 1024 × 768 pixels OLED                                                                                                                                 |
| Digital Zoom                   | 1.x to 12.x continuous                                                                                                                                 |
| Color Palettes                 | White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red                                                                                |
| Focus Mode Palette             | Above/Below/Interval                                                                                                                                   |
| Color Alarm                    | Above/Below/Interval/Insulation                                                                                                                        |
| Image Modes                    | Thermal/Visual/Fusion/PIP/Blending                                                                                                                     |
| Measurement and Analysis       |                                                                                                                                                        |
| Object Temperature Range       | -40°C to 2200°C (-40°F to 3992°F)                                                                                                                      |
| Accuracy                       | ±1°C (±1.8°F): 0 to 100°C (32 to 212°F); ±1%: 100 to 150°C (212 to 302°F); ±2°C (±3.6°F): -40 to 0°C (-40 to 32°F); ±2%: 150 to 2200°C (302 to 3992°F) |
| Measurement Tools              | Center Spot, Hot Spot, Cold Spot<br>User-definable: Delta T, 10 spots, 1 line, 5 rectangles, and 5 circles                                             |
| Level and Span Mode            | Auto/Manual/1-Tap Touch-Screen                                                                                                                         |
| Inspection Route               | Yes                                                                                                                                                    |
| Data Storage and Communication |                                                                                                                                                        |
| Storage Media                  | Removable 64 GB SD Card                                                                                                                                |
| Image Storage Capacity         | Approx. 60,000 Images                                                                                                                                  |
| Annotations                    | Voice note: max. 60 seconds;<br>Text note: max. 200 characters                                                                                         |
| Video Storage Capacity         | Approx. 64 hours                                                                                                                                       |
| Video File Format              | MP4 video and radiometric video                                                                                                                        |
| Image Format                   | Radiometric JPEG                                                                                                                                       |

|                                                   |                                                                             |
|---------------------------------------------------|-----------------------------------------------------------------------------|
| Radiometric Infrared-Video Streaming (Compressed) | Over UVC, Wi-Fi                                                             |
| <b>General</b>                                    |                                                                             |
| Wi-Fi                                             | 802.11 b/g/n (2.4 GHz and 5 GHz)                                            |
| Bluetooth                                         | Bluetooth 4.2                                                               |
| USB Interface                                     | USB Type-C                                                                  |
| HDMI Interface                                    | HDMI-D                                                                      |
| Laser Pointer                                     | Yes                                                                         |
| LED Light                                         | Yes                                                                         |
| Laser Distance Meter                              | Indoor distance: 50 m (164 ft);<br>Outdoor distance: 10 m (33 ft).          |
| Laser                                             | Yes, Class II, Wavelength: 635 nm; Power: <1 mW                             |
| Battery Type                                      | Interchangeable and rechargeable Li-ion battery                             |
| GPS & Compass                                     | Yes                                                                         |
| Battery Operating Time                            | Approx. 4 hours                                                             |
| Battery Charging Time                             | Approx. 2.5 hours fully charged                                             |
| Power Saving Mode                                 | Yes                                                                         |
| Programmable Buttons                              | 2                                                                           |
| Protection Level                                  | IP54, IEC 60529                                                             |
| Drop Test Height                                  | 1 m (3.28 ft), IEC 60068-2-31                                               |
| Safety                                            | IEC 61010-1                                                                 |
| EMC                                               | EN 301 489-1, EN 301 489-17, EN IEC 61000-6-2, EN IEC 61000-6-4, EN 61326-1 |
| Vibration                                         | 2 g, IEC 60068-2-6                                                          |
| Shock                                             | 25 g, IEC 60068-2-27                                                        |
| Working Temperature Range                         | -20°C to 50°C (-4°F to 122 °F)                                              |
| Storage Temperature Range                         | -20°C to 60°C (-4°F to 140°F)                                               |
| Relative Humidity                                 | <95% non-condensing                                                         |
| Weight                                            | Approx. 1481 g (3.27 lb)                                                    |
| Dimension                                         | 204.7 × 153.6 × 87.8 mm (8.06 × 6.05 × 3.45 in)                             |
| Tripod Mounting                                   | UNC ¼"-20                                                                   |

## ▪ Available Model

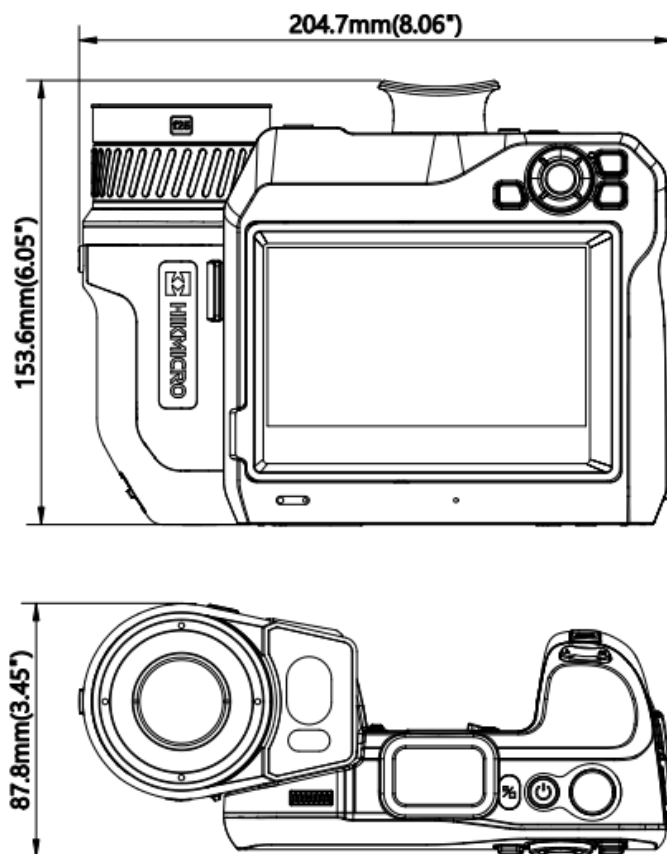
HM-TP96H-Q/W-SP60H-L8

HM-TP96H-Q/W-SP60H-L12

HM-TP96H-Q/W-SP60H-L50

HM-TP96H-Q/W-SP60H-L25

## ▪ Dimension



## ▪ Optional Accessory



HM-20322ZC



HM-7250DC



HM-SP620-MACRO



HM-SP605-LENS



HM-SP610-LENS



HM-SP620-LENS



HM-SP630-LENS



HM-SP01-POUCH



HM-SP650-MACRO

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