

## G31 Handheld Thermal Camera



HIKMICRO G31 Handheld Thermal Camera is specially designed for temperature measurement. It's equipped with a 384 × 288 resolution thermal detector. It helps the staff to quickly find the high-temperature targets in the environment. Meanwhile, it provides assistance with decisions and ensures safety. The device is mainly applied to various industries, such as Building, Electrical utilities, oil and gas industry, etc.

### Key Feature

- High sensitivity thermal module with 384 × 288 resolution, Super resolution to 768 × 576
- Supports multiple palettes
- High quality optical module with 8 MP resolution
- Bi-spectrum image fusion, picture-in-picture preview
- Wide temperature measurement range: -20°C to 650°C
- High temperature measurement accuracy: Up to ± 2 C, ± 2%
- High-calibre 800 × 480 resolution 4.3" LCD touch display
- Long-distance laser light supplement for thermography targets
- LED light supplement makes the device a torch in required scenarios
- Supports 1.0x to 8.0x continuous digital zoom

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## ▪ Specification

| Infrared Image                                    |   |
|---|---|
| IR Resolution                                     | 384 × 288 (110,592 pixels)  |
| SuperIR   | 768 × 576 (442,368 pixels)  |
| NETD  | < 35 mK (@ 25°C, F# = 1.0)  |
| Image Frequency                                   | 50 Hz   |
| Detector Pitch                                    | 17 µm   |
| Spectral Range                                    | 7.5 to 14 µm  |
| Focal Length                                      | 15 mm   |
| F-number  | F1.0  |
| Field of View (FOV)                               | 25° × 19°   |
| Spatial Resolution (IFOV)                         | 1.13 mrad   |
| Min. Focus Distance                               | 0.1 m (0.33 ft)   |
| Focus Mode  | Laser Assisted AF/Continuous AF/AF/Manual Focus/Touch AF  |
| Focus Speed                                       | Approx. 2 second  |
| Image Display                                     |   |
| Visual Camera                                     | 3264 × 2448 (8 MP)  |
| Display   | 800 × 480 Resolution, 4.3" LCD Touch Screen   |
| Screen Brightness                                 | Manual/Auto   |
| Digital Zoom                                      | 1.x to 8.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/Condensation  |
| Image Modes                                       | Infrared/Visual/Fusion/PIP/Blending   |
| Measurement and Analysis                          |   |
| Object Temperature Range                          | -20 °C to 650 °C (-4 °F to 1202 °F)   |
| Accuracy  | Max (±2°C/3.6°F, ±2%)   |
| Measurement Tools                                 | Center Spot, Hot Spot, Cold Spot<br>User-definable: Delta T, 10 spots, 1 line, 5 rectangles, and 5 circle |
| Level and Span Mode                               | Auto/Manual/1-Tap Touch-screen  |
| Inspection Route                                  | Yes   |
| Data Storage and Communication                    |   |
| Storage Media                                     | Removable 64 GB Micro 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. 54 hours  |
| Video File Format                                 | MP4 video<br>and radiometric video  |
| Image Format                                      | Radiometric JPEG  |
| Radiometric Infrared-Video Streaming (Compressed) | Over UVC, Wi-Fi   |



| General                   |   |
|---------------------------|---|
| Wi-Fi                     | 802.11 b/g/n (2.4 GHz and 5 GHz)  |
| Bluetooth                 | Bluetooth 4.2   |
| USB Interface             | USB Type-C  |
| HDMI Interface            | Yes   |
| LED Light                 | Yes   |
| Laser Pointer             | Yes   |
| Laser                     | Yes, Class II, Wavelength: 635 nm; Power: < 1 mW  |
| Laser Distance Meter      | Indoor distance: 50 m (164 ft);<br>Outdoor distance: 10 m (33 ft).                                |
| Battery Type              | Interchangeable and rechargeable Li-ion battery   |
| GPS & Compass             | Yes   |
| Battery Operating Time    | Approx. 4 hours   |
| Battery Charging Time     | Approx. 4 hours fully charged   |
| Power Saving Mode         | Yes   |
| Protection Level          | IP54, IEC 60529   |
| Drop Test Height          | 2 m (6.56 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 61000-6-3, EN IEC 61326-1, EN IEC 61326-2-2 |
| Vibration                 | 2 g, IEC 60068-2-6  |
| Shock                     | 25 g, IEC 60068-2-27  |
| Storage Temperature Range | -20°C to 60°C ( -4°F to 140°F)  |
| Working Temperature Range | -20°C to 50°C ( -4°F to 122°F)  |
| Relative Humidity         | < 95% non-condensing  |
| Weight                    | Approx. 1058 g (2.33 lb)  |
| Dimension                 | 284.7 × 120.6 × 124.5 mm (11.21 × 4.75 × 4.9 in)  |
| Tripod Mounting           | UNC ¼"-20   |

## ▪ Available Model

HM-TP73-15SVF/W-G31

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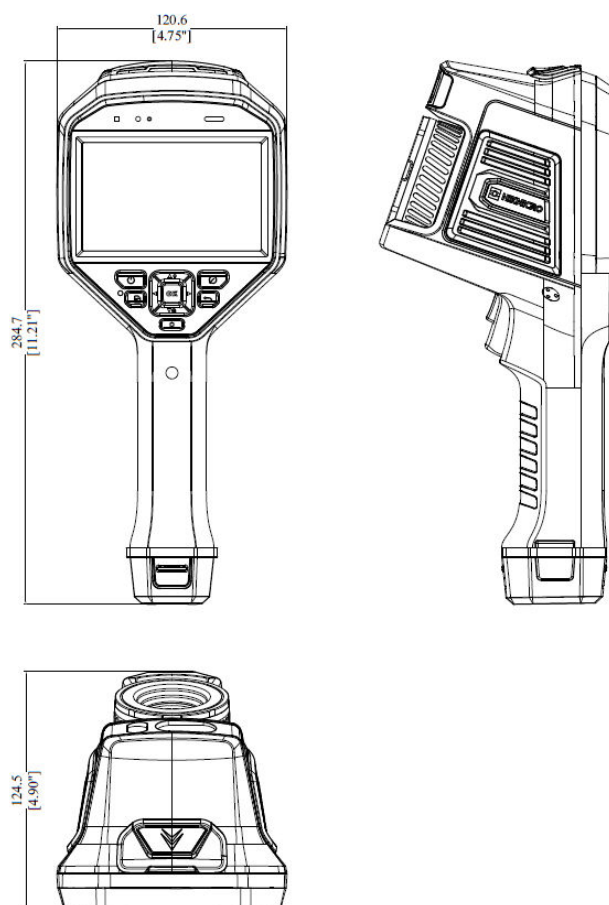
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## • Dimension



Unit: mm [inch]

## • Optional Accessories



HM-5202ZC2  
G Series Charging  
Base



HM-701ZJ-G01-  
SHIELD  
Handheld  
Thermography  
Accessory



INR18650-35E-1S2P  
G Series Battery



HM-SP01-POUCH  
M/G/SP Series Pouch



HM-G305-LENS1  
0.5x wide angle lens,  
for G31



HM-G320-LENS1  
2x telephoto lens, for  
G31



HM-G330-LENS1  
3x telephoto lens, for  
G31

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## G61H Handheld Thermal Camera



HIKMICRO G61H handheld thermal camera is specially designed for temperature measurement. It's equipped with a 640 × 480 resolution thermal detector. It helps the staff to quickly find the high-temperature targets in the environment. Meanwhile, it provides assistance with decisions and ensures safety. The device is mainly applied to various industries, such as Building, Electrical utilities, oil and gas industry, etc.

### Key Feature

- High sensitivity thermal module with 640 × 480 resolution
- Supports multiple palettes
- High quality optical module with 8 MP resolution
- Bi-spectrum image fusion, picture-in-picture preview
- Wide temperature measurement range: -20°C to 2000°C
- High temperature measurement accuracy: Up to  $\pm 2^{\circ}\text{C}$ ,  $\pm 2\%$
- High-calibre 800 × 480 resolution 4.3" LCD touch display
- Long-distance laser light supplement for thermography targets
- LED light supplement makes the device a torch in required scenarios
- Supports 1.0x to 8.0x continuous digital zoom

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## • Specification

| Infrared Image                                    |   |
|---|---|
| IR Resolution                                     | 640 x 480 (307,200 pixels)  |
| SuperIR   | 1280 x 960 (1,228,800 pixels)   |
| NETD  | < 35 mK (@ 25 °C, F#=1.0)   |
| Image Frequency                                   | 50 Hz   |
| Detector Pitch                                    | 17 µm   |
| Spectral Range                                    | 7.5 to 14 µm  |
| Focal Length                                      | 25 mm   |
| F-number  | F 1.0   |
| Field of View (FOV)                               | 25° × 19°   |
| Spatial Resolution (IFOV)                         | 0.68 mrad   |
| Min. Focus Distance                               | 0.3 m (0.98 ft)   |
| Focus Mode  | Laser Assisted AF/Continuous AF/AF/Manual Focus/Touch AF  |
| Focus Speed                                       | Approx. 2 second  |
| Image Display                                     |   |
| Visual Camera                                     | 3264 × 2448 (8 MP)  |
| Display   | 800 × 480 Resolution, 4.3" LCD Touch Screen   |
| Screen Brightness                                 | Manual/Auto   |
| Digital Zoom                                      | 1.x to 8.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/Condensation  |
| Image Modes                                       | Infrared/Visual/Fusion/PIP/Blending   |
| Measurement and Analysis                          |   |
| Object Temperature Range                          | -20 °C to 2000 °C (-4 °F to 3632 °F)  |
| Accuracy  | Max (±2°C/3.6°F, ±2%)   |
| Measurement Tools                                 | Center Spot, Hot Spot, Cold Spot<br>User-definable: Delta T, 10 spots, 1 line, 5 rectangles, and 5 circle |
| Level and Span Mode                               | Auto/Manual/1-Tap Touch-screen  |
| Inspection Route                                  | Yes   |
| Data Storage and Communication                    |   |
| Storage Media                                     | Removable 64 GB Micro 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. 54 hours  |
| Video File Format                                 | MP4 video<br>and radiometric video  |
| Image Format                                      | Radiometric JPEG  |
| Radiometric Infrared-Video Streaming (Compressed) | Over UVC, Wi-Fi   |





| General                   |   |
|---------------------------|---|
| Wi-Fi                     | 802.11 b/g/n (2.4 GHz and 5 GHz)  |
| Bluetooth                 | Bluetooth 4.2   |
| USB Interface             | USB Type-C  |
| HDMI Interface            | Yes   |
| Laser Pointer             | Yes   |
| Laser                     | Yes, Class II, Wavelength: 635 nm; Power: < 1 mW  |
| Laser Distance Meter      | Indoor distance: 50 m (164 ft);<br>Outdoor distance: 10 m (33 ft).                                |
| GPS & Compass             | Yes   |
| Battery Type              | Interchangeable and rechargeable Li-ion battery   |
| Battery Operating Time    | Approx. 4 hours   |
| Battery Charging Time     | Approx. 4 hours fully charged   |
| Power Saving Mode         | Yes   |
| Protection Level          | IP54, IEC 60529   |
| Drop Test Height          | 2 m (6.56 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 61000-6-3, EN IEC 61326-1, EN IEC 61326-2-2 |
| 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. 1058 g (2.33 lb)  |
| Dimension                 | 284.7 × 120.6 × 124.5 mm (11.21 × 4.75 × 4.9 in)  |
| Tripod Mounting           | UNC ¼"-20   |
| LED Light                 | Yes   |

## ▪ Available Model

HM-TP76H-25SVF/W-G61H

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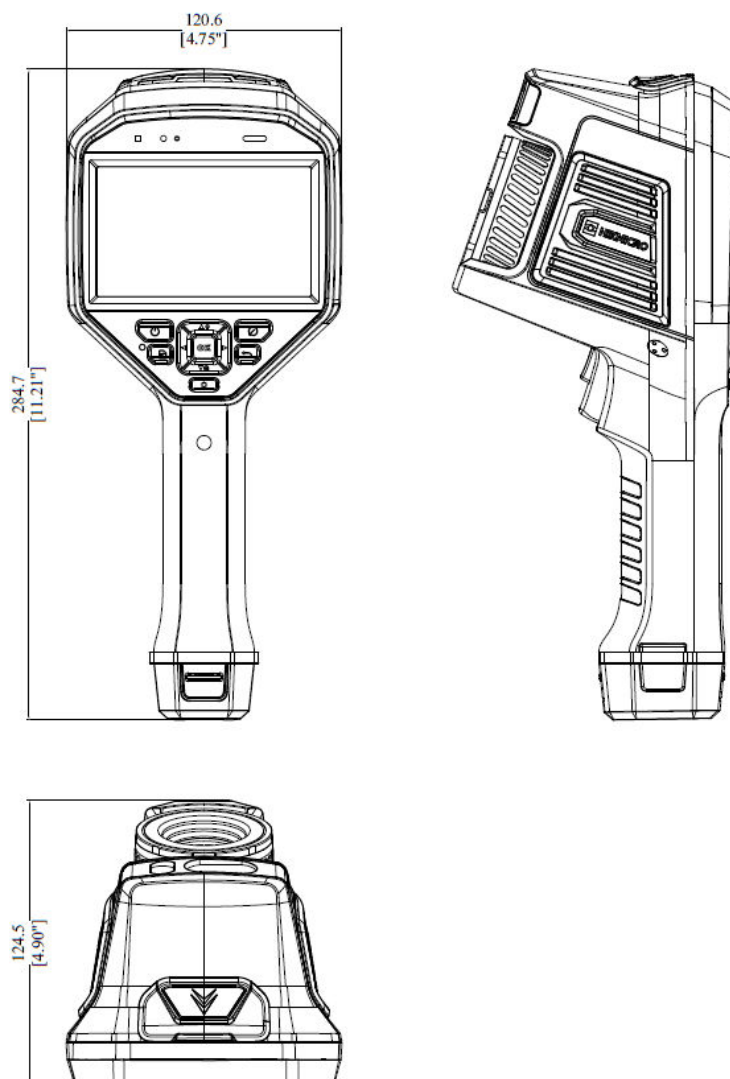
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## •Dimension



Unit: mm [inch]

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## ▪ Optional Accessories



HM-701ZJ-G01-SHIELD  
Handheld Thermography  
Accessory



HM-G605-LENS1  
0.5x wide angle lens, for  
G41 and G61



HM-SP01-POUCH  
M/G/SP Series Pouch



INR18650-35E-1S2P  
G Series Battery



HM-5202ZC2  
G Series Charging Base



HM-G620-LENS1  
2x telephoto lens, for G41  
and G61



HM-G630-LENS1  
3x telephoto lens, for G41  
and G61

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