

# G61 Handheld Thermal Camera



The HIKMICRO G61 high-performance handheld thermal camera is ideal for industrial, predictive, oil and gas, and utility maintenance inspections. HIKMICRO G61 has a high sensitivity (NETD < 35 mK) and high resolution (640 x 480) HIKMICRO VOx detector, and the temperature calibration is up to 650°C. 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: <35 mK (@ 25 °C, F#=1.0)</li>
- Temperature measurement range : -20 °C to 650 °C (-4 °F to 1202 °F)
- Accuracy: Max (±2°C/3.6°F, ±2%)
- 1.x to 8.x continuous digital zoom
- Manual, automatic, and 1-Tap Level and Span
- GPS & compass annotation functions
- Long-distance laser light supplement for thermography targets
- LED light supplement provides light in dark scenarios

## Specification

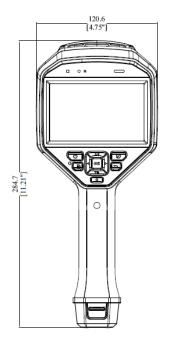
Infrared Image IR Resolution 640 x 480 (307,200 pixels)  SuperIR 1280 x 960 (1,228,800 pixels)  NETD < 35 mK (@ 25 °C, F#=1.0)  Image Frequency 50 Hz  Detector Pitch 17 µm  Spectral Range 7.5 to 14 µm  Focal Length 25 mm  F-number F 1.0  Field of View (FOV) 25° x 19°  Spatial Resolution (IFOV) 0.68 mrad  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 x 2448 (8 MP)  Display 800 x 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  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  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  Voice note: max. 60 seconds;  Text note: max. 200 characters  Video Storage Capacity Approx. 54 hours  Video File Format Radiometric video  Image Format Radiometric video  Image Format	opecification		
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 F1.0  Field of View (FOV) 25° x 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 x 2448 (8 MP)  Display 800 x 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  Color Alarm Above/Below/Interval  Object Temperature Range 20 °C to 650 °C (-4 °F to 1202 °F)  Accuracy Max (±2° C3.6°F, ±2%)  Measurement Tools Center Spot, Hol Spot, Cold Spot  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. 54 hours  Video File Format MP4 video  and radiometric video	Infrared Image		
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Detector Pitch 17 μm  Spectral Range 7.5 to 14 μm  Focal Length 25 mm  F-number F1.0  Field of View (FOV) 25* x 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 x 2448 (8 MP)  Display 800 x 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 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  Video File Format MP4 video  and radiometric video	NETD	< 35 mK (@ 25 °C, F#=1.0)	
Spectral Range 7.5 to 14 µm Focal Length 25 mm F-number F1.0 Field of View (FOV) 25* x 19* Spatial Resolution (IFOV) 0.58 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 x 2448 (8 MP) Display 800 x 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 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 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 Video Storage Capacity Approx. 54 hours Video File Format  MP4 video and radiometric video	Image Frequency	50 Hz	
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 650 °C (-4 °F to 1202 °F) Accuracy Max (±2°C/3.6°F, ±2%) Measurement Tools Center Spot, Hot Spot, Cold Spot 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 Video Storage Capacity Approx. 54 hours MP4 video and radiometric video	Detector Pitch	17 μm	
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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 650 °C (-4 °F to 1202 °F)  Accuracy Max (±2°C/3.6°F, ±2%)  Measurement Tools Center Spot, Hot Spot, Cold Spot  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  Voice note: max. 60 seconds;  Text note: max. 200 characters  Video Storage Capacity Approx. 54 hours  MP4 video and radiometric video	Focal Length	25 mm	
Spatial Resolution (IFOV)  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/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  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  Voice note: max. 60 seconds;  Text note: max. 200 characters  Video File Format  MP4 video and radiometric video	F-number	F 1.0	
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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       Max (±2°C/3.6°F, ±2%)         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         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         Voice note: max. 60 seconds;         Text note: max. 200 characters         Video Storage Capacity       Approx. 54 hours         WP4 video       and radiometric video	Focus Mode	Laser Assisted AF/Continuous AF/AF/Manual Focus/Touch AF	
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%)  Center Spot, Hot Spot, Cold Spot 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  Voice note: max. 60 seconds; Text note: max. 200 characters  Video Storage Capacity  Approx. 54 hours  MP4 video and radiometric video	Focus Speed	Approx. 2 second	
Screen Brightness   Manual/Auto	Image Display		
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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; Text note: max. 200 characters  Video Storage Capacity Approx. 54 hours  MP4 video and radiometric video	Measurement Tools	Center Spot, Hot Spot, Cold Spot	
Inspection Route  Pata Storage and Communication  Storage Media Removable 64 GB Micro SD Card Image Storage Capacity Approx. 60,000 Images  Voice note: max. 60 seconds; Text note: max. 200 characters  Video Storage Capacity Approx. 54 hours  WP4 video and radiometric video		User-definable:Delta T, 10 spots, 1 line, 5 rectangles, and 5 circle	
Data Storage and Communication  Storage Media Removable 64 GB Micro SD Card  Image Storage Capacity Approx. 60,000 Images  Voice note: max. 60 seconds;  Text note: max. 200 characters  Video Storage Capacity Approx. 54 hours  Video File Format MP4 video and radiometric video	Level and Span Mode	Auto/Manual/1-Tap Touch-screen	
Storage Media Removable 64 GB Micro SD Card  Image Storage Capacity Approx. 60,000 Images  Voice note: max. 60 seconds; Text note: max. 200 characters  Video Storage Capacity Approx. 54 hours  MP4 video and radiometric video	Inspection Route	Yes	
Image Storage Capacity  Approx. 60,000 Images  Voice note: max. 60 seconds;  Text note: max. 200 characters  Video Storage Capacity  Approx. 54 hours  MP4 video and radiometric video	Data Storage and Communication		
Annotations  Voice note: max. 60 seconds;  Text note: max. 200 characters  Video Storage Capacity  Approx. 54 hours  MP4 video and radiometric video	Storage Media	Removable 64 GB Micro SD Card	
Annotations  Text note: max. 200 characters  Video Storage Capacity  Approx. 54 hours  MP4 video and radiometric video	Image Storage Capacity	Approx. 60,000 Images	
Text note: max. 200 characters  Video Storage Capacity  Approx. 54 hours  MP4 video and radiometric video	Annotations	Voice note: max. 60 seconds;	
Video File Format  MP4 video and radiometric video		Text note: max. 200 characters	
Video File Format and radiometric video	Video Storage Capacity	Approx. 54 hours	
and radiometric video	Video File Format	MP4 video	
Image Format Radiometric JPEG		and radiometric video	
	Image Format	Radiometric JPEG	

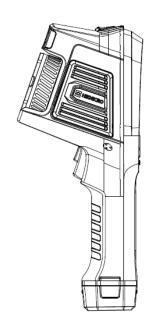
Radiometric Infrared-Video	Over UVC, Wi-Fi
Streaming (Compressed)	OVEL OVE, WITH
General	
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)
Bluetooth	Bluetooth 4.2
USB Interface	USB Type-C
HDMI Interface	Yes
Laser Pointer	Yes
LED Light	Yes
Laser	Yes, Class II, Wavelength: 635 nm; Power: < 1 mW
Laser Distance Meter	Indoor distance: 50 m (164 ft);
	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

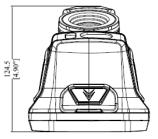
### Available Model

G61

#### Dimension







Unit: mm [inch]

## Optional Accessories



HM-701ZJ-G01-SHIELD Handheld Thermography Accessory



HM-5202ZC2 G Series Charging Base



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



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



HM-SP01-P0UCH M/G/SP Series Pouch



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



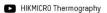
INR18650-35E-1S2P G Series Battery

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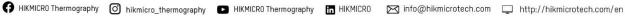












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