

SP60 Handheld Thermal Camera



The HIKMICRO SP60 high-performance handheld thermal camera is ideal for industrial, predictive, oil and gas, and utility maintenance inspections. HIKMICRO SP60 has a high sensitivity (NETD < 30 mK) and high resolution (640 × 480) HIKMICRO VOx detector, and the temperature calibration is up to 650°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 Feature

- Thermal resolution: 640 × 480 (307,200 pixels), NETD: < 30 mK (@ 25°C, F# = 1.0)
- Temperature measurement range : -20°C to 650°C (-4°F to 1202°F)
- Accuracy: Max. (± 2°C/3.6°F, ± 2%)
- The 90° rotating screen and the 180° rotating lens design
- 1024 × 768 OLED electronic viewfinder and auto-brightness 5-inch color LCD display
- 1.0x to 12.0x continuous digital zoom
- Manual, automatic, and 1-Tap Level and Span
- GPS & compass annotation functions
- 25 Hz image frequency
- Up to 4 hours continuous running

Specification

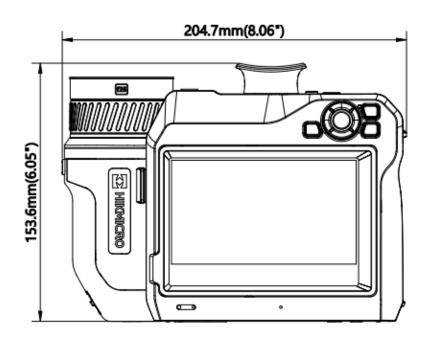
IR Resolution 640 × 480 (307, 200 pixels) Super Resolution 280 × 960 (1,228, 800 pixels) NETD < 30 mK (@ 25°C, F# 1.0) Image Frequency 25 Hz Detector Pitch 17 µm Spectral Range 7.5 µm to 14 µm Focal Length 18: 7.7 4 mm; 125: 15.4 mm; 125: 25 mm; 150: 12.6 mm Filed of View (FOV) 18: 87.4 6°; 112: 13* sº; 125: 0.48 * 18.7°; 150: 50* s 37.3° Spetial Resolution (IFOV) 18: 0.22 mard; 122: 0.33 mard; 125: 0.24 moi 0.65 ft); 150: 0.2 m (0.65 ft); Focus Mode Laser Assisted AF/Continuous AF/AF/Manual Focus/Fouch AF Focus Speed Approx.1 second Visual Camera 3264 × 2448 (8 MP) Display 1280 × 720 Resolution, 5° LCD Touch Screen Screen Brightnes Manual/Auto Visual Camera 120 kor /Below/Interval Dighal Zoncontinuous Tomal/Visual/Fusion/IP/Belonding Color Palettes Move/Below/Interval/Insulation Inage Mode Toemal/Visual/Fusion/IP/Belonding Color Alarm Abov/Below/Interval Nacureet at Analysis Color Solor C4* ft to 1202* f Accuraty Max (± 2°C/3 6°F,	Infrared Image	
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AccuracyMax. (± 2°C/3.6°F, ± 2%)Measurement ToolsCenter Spot, Hot Spot, Cold Spot User-definable: 10 spots, 1 line, 5 rectangles, and 5 circlesLevel and Span ModeAuto/Manual/1-Tap Touch-ScreenInspection RouteYesData Storage and CommunicationStorage MediaStorage MediaRemovable 64 GB SD CardImage Storage CapacityApprox. 60,000 ImagesAnnotationsVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric video	Measurement and Analysis	
Measurement ToolsCenter Spot, Hot Spot, Cold Spot User-definable: 10 spots, 1 line, 5 rectangles, and 5 circlesLevel and Span ModeAuto/Manual/1-Tap Touch-ScreenInspection RouteYesData Storage and CommunicationRemovable 64 GB SD CardImage Storage CapacityApprox. 60,000 ImagesAnnotationsVoice note: max. 60 seconds; Text note: max. 200 charactersVideo File FormatMP4 video and radiometric video	Object Temperature Range	-20°C to 650°C (-4°F to 1202°F)
Measurement ToolsUser-definable: 10 spots, 1 line, 5 rectangles, and 5 circlesLevel and Span ModeAuto/Manual/1-Tap Touch-ScreenInspection RouteYesData Storage and CommunicationStorage MediaRemovable 64 GB SD CardImage Storage CapacityApprox. 60,000 ImagesAnnotationsVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric video	Accuracy	Max. (± 2°C/3.6°F, ± 2%)
Level and Span ModeAuto/Manual/1-Tap Touch-ScreenInspection RouteYesData Storage and CommunicationEmovable 64 GB SD CardStorage MediaRemovable 64 GB SD CardImage Storage CapacityApprox. 60,000 ImagesAnnotationsVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric video	Measurement Tools	Center Spot, Hot Spot, Cold Spot
Inspection RouteYesData Storage and CommunicationKemovable 64 GB SD CardStorage MediaRemovable 64 GB SD CardImage Storage CapacityApprox. 60,000 ImagesAnnotationsVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric video		User-definable: 10 spots, 1 line, 5 rectangles, and 5 circles
Data Storage and CommunicationStorage MediaRemovable 64 GB SD CardImage Storage CapacityApprox. 60,000 ImagesAnnotationsVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric video	Level and Span Mode	Auto/Manual/1-Tap Touch-Screen
Storage MediaRemovable 64 GB SD CardImage Storage CapacityApprox. 60,000 ImagesAnnotationsVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric video	Inspection Route	Yes
Image Storage CapacityApprox. 60,000 ImagesAnnotationsVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric video	Data Storage and Communication	
AnnotationsVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric video	Storage Media	Removable 64 GB SD Card
AnnotationsText note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric video	Image Storage Capacity	Approx. 60,000 Images
Text note: max. 200 characters Video Storage Capacity Approx. 64 hours Video File Format 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. 64 hours
and radiometric video		MP4 video
General		and radiometric video
	General	
Wi-Fi 802.11 b/g/n (2.4 GHz and 5 GHz)	Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)
Bluetooth Bluetooth 4.2	Bluetooth	Bluetooth 4.2
USB Interface USB Type-C	USB Interface	USB Type-C
HDMI Interface HDMI-D	HDMI Interface	HDMI-D

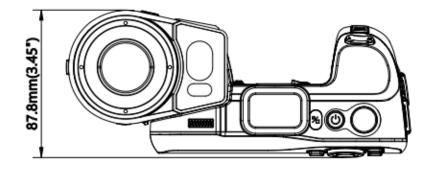
Laser Distance Meter	Indoor distance: 50 m (164 ft);
	Outdoor distance: 10 m (33 ft).
Laser	Yes, Class II, Wavelength: 635 nm; Power: < 1 mW
LED Light	Yes
GPS & Compass	Yes
Battery Type	Interchangeable and rechargeable Li-ion battery
Battery Operating Time	Approx. 4 hours
Battery Charging Time	Approx. 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 61000-6-3
Vibration	2 g, IEC 60068-2-6
Shock	25 g, IEC 68-2-29
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 mm × 153.6 mm × 87.8 mm (8.06" × 6.05" × 3.45")
Tripod Mounting	UNC ¼"-20

Available Model

HM-TP96-Q/W-SP60-L25/50 HM-TP96-Q/W-SP60-L12/25 HM-TP96-Q/W-SP60-L8/25 HM-TP96-Q/W-SP60-L12/50 HM-TP96-Q/W-SP60-L12 HM-TP96-Q/W-SP60-L50 HM-TP96-Q/W-SP60-L25

Dimension





Unit: mm (inch)

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Optional Accessories



HM-SP650-MACRO

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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