

SP40H Handheld Thermal Camera



The HIKMICRO SP40H high-performance handheld thermal camera is ideal for industrial, predictive, oil and gas, and utility maintenance inspections.

HIKMICRO SP40H has a high sensitivity (NETD < 30 mK) and high resolution (480×360) HIKMICRO VOx detector, and the temperature calibration is up to 2200°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: 480 × 360 (172,800 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
- 1.x to 12.x continuous digital zoom
- Manual, automatic, and 1-Tap Level and Span
- 30 Hz image frequency
- Up to 4 hours continuous running

Specification

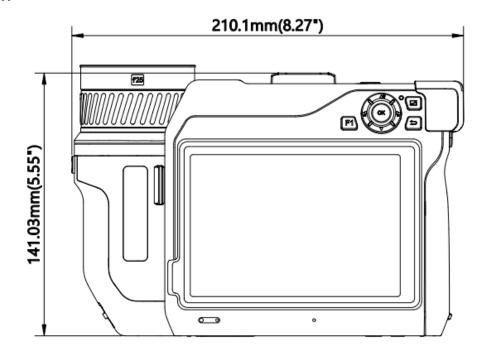
Infraerd Image 480 × 360 (172,800 pixels) SuperIR 960 × 720 (691,200 pixels) NETD < 30 mK (⊚ 25 °C, F#=1.0) Image Frequency 30 Hz Detector Pitch 17 μm Spectral Range 7.5 to 14 μm Focal Length £6:77.4 mm; L9:51.4 mm; L19: 25.6 mm; L37: 12.6 mm Fnumber £6:61.2; L9; F1.1; L19; F1.0; L37; F1.0 Field of View (FOV) £6:6 × x 4.5°; L9:9° x 6.8°; L19: 18.7° x 14°; L37: 37.3° x 27.8° Spatial Resolution (IFOV) £6:6 × x 4.5°; L9:9° x 6.8°; L19: 18.7° x 14°; L37: 37.3° x 27.8° Spatial Resolution (IFOV) £6:0.22 mrad; L9: 0.33 mrad; L19: 0.66 mrad; L37: 1.35 mrad Min. Focus Distance £6:2 m (6.56 ft); L9: 1 m (3.3 ft); L19: 0.15 m (0.49 ft); L37: 0.15 m (0.49 ft) Focus Mode £aser Assisted AF/Continuous AF/AF/Manual Focus/Touch AF Focus Mode £aser Assisted MF/Continuous AF/AF/Manual Focus/Touch AF Brous Speed Manual/Auto Usial Camera 3264 x 2448 (8 MP) Display 1 xto 12x continuous Screen Brightness Manual/Auto Digital Zoom 1 xto 12x continuous Color Palettes Mohey Below/Interval <	Specification	
SuperIR 960 x 720 (691,200 pixels) NETD < 30 mK (@ 25 °C, F#=1.0)	-	
NETD < 30 mK (@ 25 °C, F#=1.0)	IR Resolution	480 × 360 (172,800 pixels)
Image Frequency 30 Hz	SuperIR	960 x 720 (691,200 pixels)
Detector Pitch 17 μm Spectral Range 7.5 to 14 μm Focal Length L6: 77.4 mm; L9: 51.4 mm; L19: 25.6 mm; L37: 12.6 mm Focal Length L6: 77.4 mm; L9: 51.4 mm; L19: 25.6 mm; L37: 12.6 mm Focal Length L6: F1.2; L9: F1.1; L19: F1.0; L37: F1.0 Field of View (FOV) L6: 6° × 4.5°; L9: 9° × 6.8°; L19: 18.7° × 14°; L37: 37.3° × 27.8° Spatial Resolution (IFOV) L6: 0.22 mrad; L9: 0.33 mrad; L19: 0.66 mrad; L37: 1.35 mrad Min. Focus Distance L6: 2 m (6.56 ft); L9: 1 m (3.3 ft); L19: 0.15 m (0.49 ft); L37: 0.15 m (0.49 ft) Focus Mode Laser Assisted AF/Continuous AF/AF/Manual Focus/Touch AF Focus Speed Approx. 1 second Approx. 1 second Focus Speed Focus Speed Approx. 1 second Focus Speed Approx. 1 second Focus Speed Focus Mode Palette Above/Below/Interval Focus Mode Palette Above/Below/Interval Focus Mode Palette Above/Below/Interval Focus Mode Above/Below/Interval Focus Mode Above/Below/Interval Focus Speed Focus Mode	NETD	< 30 mK (@ 25 °C, F#=1.0)
Spectral Range 7.5 to 14 μm	Image Frequency	30 Hz
Focal Length	Detector Pitch	17 μm
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Display 1280 × 720 Resolution, 5" LCD Touch Screen Screen Brightness Manual/Auto 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 2°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 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 128 GB SD Card Image Storage Capacity Approx. 120,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters	Image Display	
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Measurement and Analysis Object Temperature Range -40°C to 2200°C (-40°F to 3992°F) Accuracy	Color Alarm	Above/Below/Interval/Insulation
Object Temperature Range -40°C to 2200°C (-40°F to 3992°F) Accuracy	Image Modes	Thermal/Visual/Fusion/PIP/Blending
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Inspection Route Pata Storage and Communication Storage Media Removable 128 GB SD Card Image Storage Capacity Approx. 120,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters		User-definable: Delta T, 10 spots, 1 line, 5 rectangles, and 5 circles
Data Storage and Communication Storage Media Removable 128 GB SD Card Image Storage Capacity Approx. 120,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters	Level and Span Mode	Auto/Manual/1-Tap Touch-Screen
Storage Media Removable 128 GB SD Card Image Storage Capacity Approx. 120,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters	Inspection Route	Yes
Image Storage Capacity Approx. 120,000 Images Voice note: max. 60 seconds; Text note: max. 200 characters	Data Storage and Communicati	on
Annotations Voice note: max. 60 seconds; Text note: max. 200 characters	Storage Media	Removable 128 GB SD Card
Annotations Text note: max. 200 characters	Image Storage Capacity	Approx. 120,000 Images
Text note: max. 200 characters		
Video Storage Capacity Approx. 500 hours		
	Video Storage Capacity	Approx. 500 hours

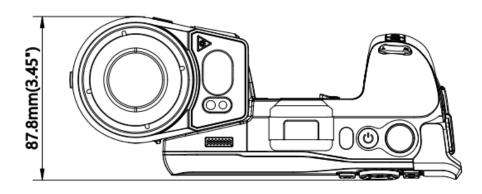
	MP4 video
Video File Format	and radiometric video
Image Format	Radiometric JPEG
Radiometric Infrared-Video	a
Streaming (Compressed)	Over UVC, Wi-Fi
General	
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)
Bluetooth	Bluetooth 4.2
USB Interface	USB Type-C
Laser Pointer	Yes
HDMI Interface	HDMI-D
Laser	Yes, Class 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. 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. 1451 g (3.2 lb)
Dimension	210.1 × 141.03 × 87.8 mm (8.27 × 5.55 × 3.45 in)
Tripod Mounting	UNC 1/4" -20
LED Light	Yes
Warranty	3 years for the full product, 10 years for the detector, and 2 years for the battery.

Available Model

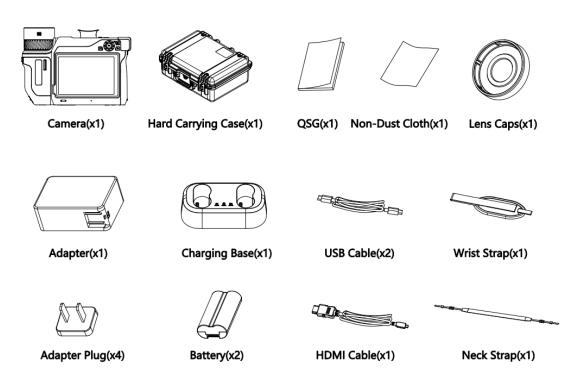
HM-TP94H-Q/W-SP40H-L9 HM-TP94H-Q/W-SP40H-L19 HM-TP94H-Q/W-SP40H-L19 HM-TP94H-Q/W-SP40H-L6

Dimension





Packaging



Accessory

Optional

HM-20322ZC HM-SP610-LENS HM-SP605-LENS HM-7250DC HM-SP620-MACRO **SP Series Battery** SP Series 0.5X Wide SP Series 1X **SP Series Battery SP Series Macro Lens** Charger **Angle Lens Telephoto Lens** HM-SP650-MACRO HM-SP620-LENS HM-SP630-LENS HM-AHBR01 HM-SP01-POUCH SP Series 2X **SP Series Macro Lens** SP Series 3.3X **SP Series Desktop** M/G/SP Series Pouch **Telephoto Lens** 50 µm **Stand Bracket Telephoto Lens**

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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