

SP40H SP Series 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.

Features

- Thermal resolution: 480 × 360 (172,800 pixels), NETD: < 30 mK (@ 30 °C,F#=1.0)
- Temperature measurement range: -40°C to 2200°C (-40°F to 3992°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

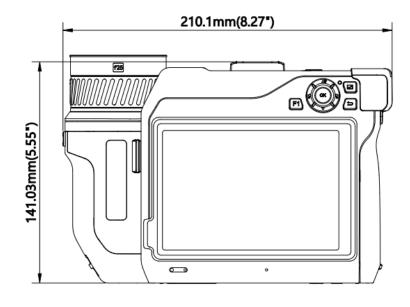
opecinication		
Infrared Image		
IR Resolution	480 × 360 (172,800 pixels)	
SuperIR	960 x 720 (691,200 pixels)	
NETD	< 30 mK (@ 30 °C, F#=1.0)	
Image Frequency	30 Hz	
Detector Pitch	17 μm	
Spectral Range	7.5 to 14 μm	
F-number	L6: F1.2; L9: F1.1; L19: F1.0; L37: F1.0	
Focal Length	L6: 77.4 mm; L9: 51.4 mm; L19: 25.6 mm; L37: 12.6 mm	
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	
Image Display		
Visual Camera	3264 × 2448 (8 MP)	
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/Condensation	
Image Modes	Thermal/Visual/Fusion/PIP/Blending	
Viewfinder	No	
Measurement and Analysis		
Object Temperature Range	Range 1: -40°C to 150°C (-40°F to 302°F); Range 2: 0°C to 650°C (212°F to	
Object Temperature name	1202°F); Range 3: 300°C to 2200°C (572°F to 3992°F)	
Accuracy	Range 1: ±2°C for -40 to 0°C, ±1°C for 0 to 100°C, ±1% for 100 to 150°C; Range	
/ couracy	2: ±2°C for 0 to 100°C, ±2% for 100 to 650°C; Range 3: ±2% for 300 to 2200°C	
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	
SuperScene+	Electrical Panel, PCB Inspection	
Data Storage and Communicat		
Image Storage Capacity	Approx. 130,000 Images (8MP)	
Annotations	Voice note: max. 60 seconds; Text note: max. 200 characters; QR Code note;	
Video Storage Capacity	Picture note; Tag note; Sketch MP4 video max. 420h; Radiometric video max. 72h	
video otorage capacity	MP4 video	
Video File Format	and radiometric video	
Image Format	Radiometric JPEG	
Radiometric Infrared-Video	rigationical to	
Streaming (Compressed)	Over UVC, Wi-Fi	
Extendable Memory Card	Extendable 128 GB SD Card	

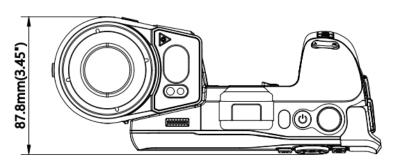
General	
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)
Bluetooth	Bluetooth 4.2
USB Interface	USB Type-C
Laser Pointer	Yes
HDMI Interface	HDMI-D
Laser	Yes, Class II, Wavelength: 635 nm; Power: < 1 mW
Laser Distance Meter	Indoor distance: 50 m (164 ft); Outdoor distance: 10 m (33 ft).
GPS & Compass	Yes
Battery 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

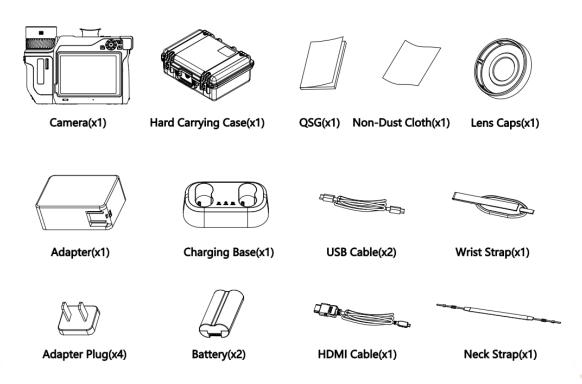
HM-TP94H-Q/W-SP40H-L9 HM-TP94H-Q/W-SP40H-L37 HM-TP94H-Q/W-SP40H-L19 HM-TP94H-Q/W-SP40H-L6

Dimension





Packaging List

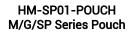


Accessory

Optional

HM-AHBR01 SP Series Desktop Stand Bracket







HM-20322ZC SP Series Battery Charger



HM-SP605-LENS SP Series 0.5X Wide Angle Lens



HM-SP620-MACRO SP Series Macro Lens



HM-SP630-LENS SP Series 3.3X Telephoto Lens



HM-7250DC SP Series Battery



HM-SP610-LENS SP Series 1X 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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*Note: Specifications are subject to change without notice. For the current specs, please go to www.hikmicrotech.com