



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

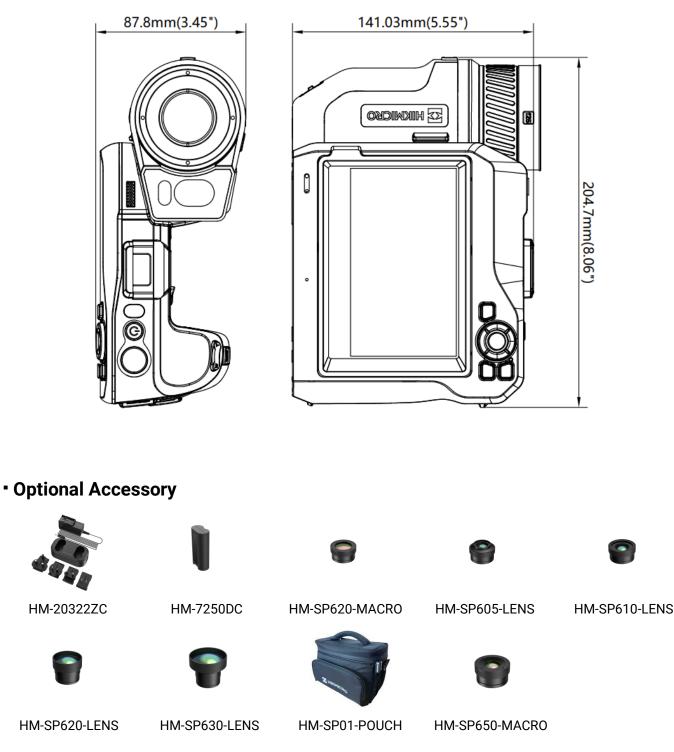
IR Resolution480 × 360 (172,800 pixels)SuperR960 x 720 (691,200 pixels)NETD< 30 mK (@ 25 °C, F#=1.0)Image Frequency30 HzSpectral Range7.5 to 14 µmDetector Pitch17 µmF-numberL6: F1.2; L9: F1.1; L19: F1.0; L37: F1.0Focal LengthL6: 77.4 mm; L9: 51.4 mm; L19: 25 mm; L37: 12.6 mmField of View (FOV)L6: 6* x 4.5°; L9: 9* x 6.8°; L19: 18.7* x 14°; L37: 37.3* x 27.8*Spatial Resolution (IPOV)L6: 0.22 mrd; L9: 0.33 mrd; L19: 0.26 mrd; L37: 1.35 mrdMin. Focus DistanceL6: 2 m (6.56 ft); L9: 1 m (3.3 ft); L19: 0.2 m (0.65 ft)Focus ModeLaser Assisted AF/Continuous AF/AF/Manual Focus/Touch AFFocus ModeLaser Assisted AF/Continuous AF/AF/Manual Focus/Touch AFFocus Mode226 x 2248 (8 MP)Display1280 x 720 Resolution, 5" LOD Touch ScreenScreen BrightnessManual/AutoDisplay1280 x 720 Resolution, 5" LOD Touch ScreenScreen BrightnessManual/AutoOlor PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedFocus ModeThermal/Visual/Fusion/PIP/BlendingMeasurement and AnalysisObject Temperature Range-40°C to 2200°C (-40°F to 3992°F)Accuracy±1°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 °C (40 to 32°F); ±2%: 150 to 2200°C (302 to 3992°F)Measurement ToolsCenter Spot, Hot Spot, Cold SpotLevel and Span ModeAuto/Manual/1-Tap Touch-ScreenInspection RouteYesData Storage and Communic	Infrared Image	
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Image Frequency30 HzSpectral Range7.5 to 14 µmDetector Pitch17 µmFnumberL6: F1.2; L9: F1.1; L19: F1.0; L37: F1.0Focal LengthL6: F7.4 mm; L9: 51.4 mm; L19: 25 mm; L37: 12.6 mmField of View (FOV)L6: 6* x.4.5°; L9: 9* x.6.8°; L19: 18.7° x 14°; L37: 37.3° x 27.8°Spatial Resolution (IFOV)L6: 0.22 mrad; L9: 0.33 mrad; L19: 0.68 mrad; L37: 1.35 mradMin. Focus DistanceL6: 2 m (6.56 ft); L9: 1 m (3.3 ft); L19: 0.2 m (0.65 ft); L37: 0.2 m (0.65 ft)Focus SpeedApprox. 1 secondImage Display1280 x 720 Resolution, 5° LCD Touch ScreenScreen BrightnessManual/AutoDigital Zom1. x to 12.x continuousColor PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedFocus Mode PaletteAbove/Below/IntervalColor AlarmAbove/Below/Interval/InsulationImage ModesThermal/Visual/Fusion/PIP/BindingMeasurement and Analysis21°C (210 20°C (40°F to 3992°F)Accuracy41°C to 2200°C (40°F to 3992°F)42°C to 2200°C (40°F to 3992°F)42°C to 12°C (1.8°F): 0 to 100°C (32 to 212°F); ±1%: 100 to 150°C (212 to 302°F); ±2°C (43.6°F): -20° to 100°C (32 to 212°F); ±1%: 100 to 150°C (212 to 302°F); ±2°C (43.6°F): -20° to 100°C (302 to 3392°F)Measurement ToolsCenter Spot, Hot Spot, Cold SpotUser-definable: Delta T, 10 spots, 11ine, 5 rectangles, and 5 circlesLevel and Span ModeAuto/Manual/1-Tap Touch-ScreenInspection RouteYesData Storage AndomRemovable 64 GB SD CardImage Storage Capacity	SuperIR	960 x 720 (691,200 pixels)
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Display1280 × 720 Resolution, 5" LCD Touch ScreenScreen BrightnessManual/AutoDigital Zoom1.x to 12.x continuousColor PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedFocus Mode PaletteAbove/Below/IntervalColor AlarmAbove/Below/IntervalColor AlarmAbove/Below/Interval/InsulationImage ModesThermal/Visual/Fusion/PIP/BlendingMeasurement and AnalysisObject Temperature Range-40°C to 2200°C (-40°F to 3992°F)Accuracy±1°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 ToolsCenter Spot, Hot Spot, Cold Spot User-definable: Delta T, 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 videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver LIVC. Wi-Fi	Image Display	
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Digital Zoom1.x to 12.x continuousColor PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedFocus Mode PaletteAbove/Below/IntervalColor AlarmAbove/Below/Interval/InsulationImage ModesThermal/Visual/Fusion/PIP/BlendingMeasurement and Analysis-40°C to 2200°C (-40°F to 3992°F)Object Temperature Range-40°C to 2200°C (-40°F to 3992°F)Accuracy±1°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 ToolsCenter Spot, Hot Spot, Cold SpotUser-definable: Delta T, 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 videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	Display	1280 × 720 Resolution, 5" LCD Touch Screen
Color PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedFocus Mode PaletteAbove/Below/IntervalColor AlarmAbove/Below/Interval/InsulationImage ModesThermal/Visual/Fusion/PIP/BlendingMeasurement and Analysis-40°C to 2200°C (-40°F to 3992°F)Object Temperature Range-40°C to 2200°C (-40°F to 3992°F)Accuracy±1°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 ToolsCenter Spot, Hot Spot, Cold Spot User-definable: Delta T, 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 videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	Screen Brightness	Manual/Auto
Focus Mode PaletteAbove/Below/IntervalColor AlarmAbove/Below/Interval/InsulationImage ModesThermal/Visual/Fusion/PIP/BlendingMeasurement and Analysis-40°C to 2200°C (-40°F to 3992°F)Object Temperature Range-40°C to 2200°C (-40°F to 3992°F)Accuracy±1°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 ToolsCenter Spot, Hot Spot, Cold Spot User-definable: Delta T, 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 videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver LIVC. Wi-Fi	Digital Zoom	1.x to 12.x continuous
Color AlarmAbove/Below/Interval/InsulationImage ModesThermal/Visual/Fusion/PIP/BlendingMeasurement and AnalysisObject Temperature Range-40°C to 2200°C (-40°F to 3992°F)Accuracy±1°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 ToolsCenter Spot, Hot Spot, Cold Spot User-definable: Delta T, 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 videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red
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Measurement and AnalysisObject Temperature Range-40°C to 2200°C (-40°F to 3992°F)Accuracy±1°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 ToolsCenter Spot, Hot Spot, Cold Spot User-definable: Delta T, 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 ImagesVoice note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	Color Alarm	Above/Below/Interval/Insulation
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Accuracy±1°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 ToolsCenter Spot, Hot Spot, Cold Spot User-definable: Delta T, 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 ImagesVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	Measurement and Analysis	
Accuracy(±3.6°F): -40 to 0°C (-40 to 32°F); ±2%: 150 to 2200°C (302 to 3992°F)Measurement ToolsCenter Spot, Hot Spot, Cold Spot User-definable: Delta T, 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 File FormatMP4 video and radiometric videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	Object Temperature Range	-40°C to 2200°C (-40°F to 3992°F)
(±3.6°F): -40 to 0°C (-40 to 32°F); ±2%: 150 to 2200°C (302 to 3992°F)Measurement ToolsCenter Spot, Hot Spot, Cold Spot User-definable: Delta T, 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 ImagesVoice note: max. 60 seconds; Text note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	Acouroou	±1°C (±1.8°F): 0 to 100°C (32 to 212°F); ±1%: 100 to 150°C (212 to 302°F); ±2°C
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User-definable: Delta T, 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 videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	Measurement Tools	Center Spot, Hot Spot, Cold Spot
Inspection 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 videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	measurement roois	User-definable: Delta T, 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 videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	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 videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	Inspection Route	Yes
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AnnotationsText note: max. 200 charactersVideo Storage CapacityApprox. 64 hoursVideo File FormatMP4 video and radiometric videoImage FormatRadiometric JPEGRadiometric Infrared-VideoOver UVC. Wi-Fi	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 Image Format Radiometric JPEG Radiometric Infrared-Video Over UVC. Wi-Fi	Annotations	Voice note: max. 60 seconds;
Video File Format MP4 video and radiometric video Image Format Radiometric JPEG Radiometric Infrared-Video Over UVC. Wi-Fi		Text note: max. 200 characters
Image Format Radiometric JPEG Radiometric Infrared-Video Over UVC. Wi-Fi	Video Storage Capacity	Approx. 64 hours
Radiometric Infrared-Video Over UVC, Wi-Fi	Video File Format	MP4 video and radiometric video
Over UVC. Wi-Fi	Image Format	Radiometric JPEG
Streaming (Compressed)		Over UVC. Wi-Fi
	Streaming (Compressed)	

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	HDMI-D
Laser Pointer	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. 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	204.7 × 141.03 × 87.8 mm (8.06 × 5.55 × 3.45 in)
Tripod Mounting	UNC ¼"-20
LED Light	Yes

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



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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