SP40
Handheld Thermal Camera

The HIKMICRO SP40 high-performance handheld thermal camera is ideal for industrial, predictive, oil and gas, and utility maintenance inspections. HIKMICRO SP40 has a high sensitivity (NETD < 30 mK) and high resolution (480 × 360) 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 Feature

- Thermal resolution: 480 × 360 (172,800 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
- 25 Hz image frequency
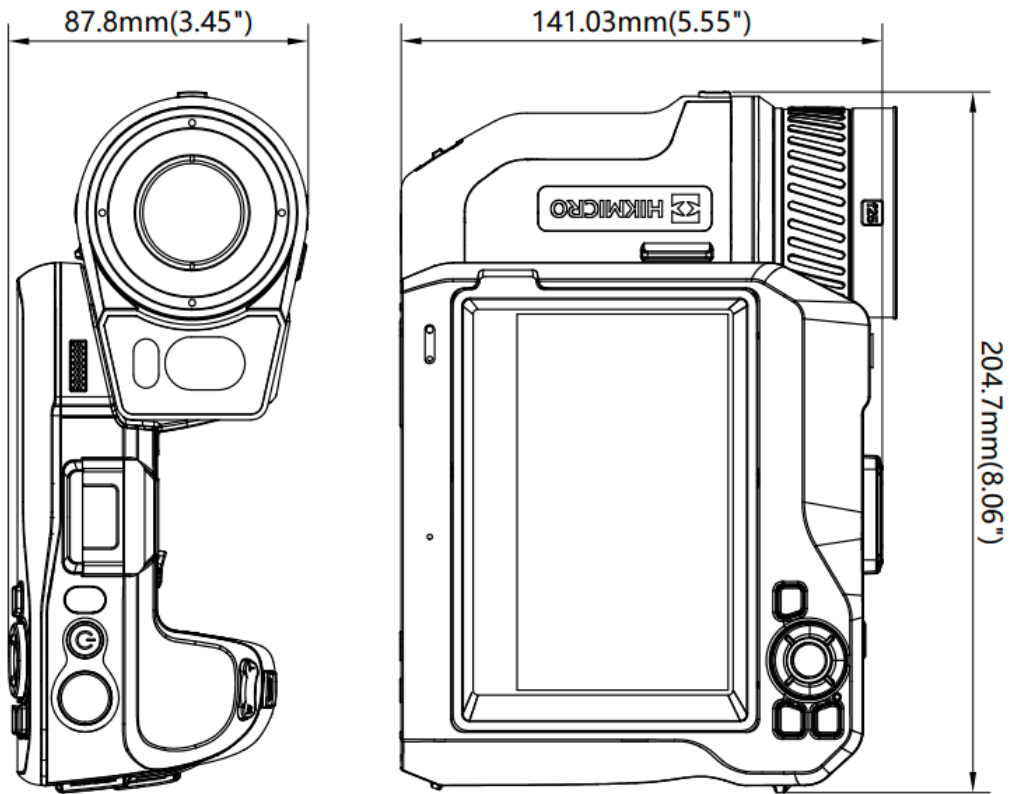- Up to 4 hours continuous running

▪ Specification

Infrared Image	
IR Resolution	480 × 360 (172,800 pixels)
SuperIR	960 × 720 (691,200 pixels)
NETD	< 30 mK (@ 25 °C, F#=1.0)
Image Frequency	25 Hz
Detector Pitch	17 μm
Spectral Range	7.5 to 14 μm
Focal Length	L6: 77.4 mm; L9: 51.4 mm; L19: 25 mm; L37: 12.6 mm
F-number	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: 0.68 mrad; L37: 1.35 mrad
Min. Focus Distance	L6: 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 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	1.0x to 12.0x 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	-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: 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 64 GB SD Card
Image Storage Capacity	Approx. 60,000 Images
Annotations	Voice note: max. 60 seconds; Text note: max. 200 characters
Video Storage Capacity	Approx. 64 hours
Video File Format	MP4 video and radiometric video
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	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 61000-6-3
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 mm × 141.03 mm × 87.8 mm (8.06" × 5.55" × 3.45")
Tripod Mounting	UNC ¼"-20
LED Light	Yes

▪Available Model
HM-TP94-Q/W-SP40-L6
HM-TP94-Q/W-SP40-L19/37
HM-TP94-Q/W-SP40-L9/19
HM-TP94-Q/W-SP40-L6/19
HM-TP94-Q/W-SP40-L9/37
HM-TP94-Q/W-SP40-L9
HM-TP94-Q/W-SP40-L19
HM-TP94-Q/W-SP40-L37

▪ Dimension

87.8mm(3.45")

141.03mm(5.55")

204.7mm(8.06")

▪ Optional Accessories

HM-SP610-LENS	HM-SP630-LENS	HM-SP605-LENS	HM-7250DC
HM-SP620-LENS	HM-20322ZC	HM-SP01-POUCH	HM-SP620-MACRO
HM-SP650-MACRO			

HIKMICRO

FULL PRODUCT 3 YEARS

DETECTOR 10 YEARS

BATTERY 2 YEARS