

SP120H Thermographic Handheld Camera



The HIKMICRO SP120H high-performance handheld thermal camera is an excellent choice for industrial, predictive, oil and gas, and utility maintenance inspections. It features a high-sensitivity HIKMICRO VOx detector (NETD < 20 mK) with a resolution of 1280 x 1024 and can measure temperatures up to 2200°C. This flexible and ergonomic thermal imager includes an electronic viewfinder and a 180° rotating lens, simplifying long outdoor inspections. Advanced features such as GPS and compass annotations, continuous digital zoom, and 1-Tap level and span make it easy for professionals to survey equipment and detect malfunctions. With the HIKMICRO Viewer App or HIKMICRO Analyzer software, users can transfer, analyze, and share images, as well as generate reports for free.

Features

- Thermal resolution: 1280 x 1024 (1 310 720 pixels), NETD: < 20 mK (@ 30 °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
- 1024 x 768 OLED electronic viewfinder and auto-brightness 5.1-inch color LCD display
- 1.x to 12.x continuous digital zoom
- Manual, automatic, and 1-Tap Level and Span
- GPS & compass annotation functions
- 30 Hz image frequency
- Up to 4 hours continuous running

Specification

1280 × 1024 (1,310,720 pixels)
2560 × 2048 (5,242,880 pixels)
< 20 mK (@ 30 °C, F#=1.0)
30 Hz
12 μm
7.5 to 14 µm
L8: 112.2 mm; L12: 72.9 mm; L25: 35 mm; L50: 17.6 mm
L8: F1.3; L12: F1.2; L25: F1.1; L50: F1.1
L8: 7.9° × 6.3°; L12: 12° × 9.6°; L25: 25° × 20°; L50: 50° × 40°
L8: 0.11 mrad; L12: 0.17 mrad; L25: 0.34 mrad; L50: 0.68 mrad
L8: 5m (16.4 ft); L12: 1.65m (5.41 ft); L25: 0.3m (0.98 ft); L50: 0.2m (0.66 ft)
Laser Assisted AF/Continuous AF/AF/Manual Focus/Touch AF
4208 × 3120 (13 MP)
1920 × 1080 Resolution, 5.1" OLED Touch Screen, Lv 360 Cd/m^2
Manual/Auto
1024 × 768 pixels OLED
1.x to 12.x continuous
White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red
Above/Below/Interval
Above/Below/Interval/Insulation/Condensation
Thermal/Visual/Fusion/PIP/Blending
Range -40~150°C (-40 ~ 302°F)
Range 100~650°C (212~1202°F)
Range 300~2200°C (572~3992°F)
Range -40~150°C (-40 ~ 302°F) :
-40~0°C (-40 ~ 32°F) : ±2°C (±3.6°F)
0~100°C (32 ~ 212°F) : ±1°C
100~150°C (212 ~ 302°F) : ±1%
Range 100~650°C (212~1202°F) : ±2%
Range 300~2200°C (572~3992°F) : ±2%
Center Spot, Hot Spot, Cold Spot User-definable: Delta T, 10 spots, 1 line, 5 rectangles, and 5 circles
Auto/Manual/1-Tap Touch-Screen
Yes
ion
Removable 128 GB SD Card

	Voice note: max. 60 seconds;
Annotations	Text note: max. 200 characters
Video Storage Capacity	Approx. 130 Hours (MP4 video)
3,	MP4 video
Video File Format	and radiometric video
Image Format	Radiometric JPEG
Radiometric Infrared-Video	Over UVC, Wi-Fi
Streaming (Compressed)	Over Ove, wi-ri
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
LED Light	Yes
Laser Pointer	Yes
Laser Distance Meter	Indoor distance: 50 m (164 ft);
	Outdoor distance: 15 m (49 ft).
Laser	Yes, Class II, Wavelength: 635 nm; Power: < 1 mW
Battery Type	Interchangeable and rechargeable Li-ion battery
GPS & Compass	Yes
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, 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. 1550 g (3.42 lb) (Without lens)
	Approx. 1700 g (3.74 lb) (With L25 lens)
Dimension	220.5 × 151.9 × 88.1 mm (8.68 × 5.98 × 3.47 in) (Without lens)
Tripod Mounting	UNC 1/4"-20
Warranty	3 years for the full product, 10 years for the detector, and 2 years for the battery.

Available Model

HM-TP9CH-W/W-SP120H-L25

HM-TP9CH-W/W-SP120H-L8

HM-TP9CH-W/W-SP120H-L12/25

HM-TP9CH-W/W-SP120H-L12

HM-TP9CH-W/W-SP120H-L12/50

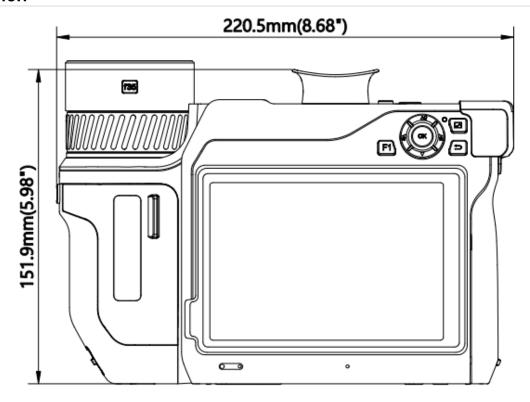
HM-TP9CH-W/W-SP120H-L50

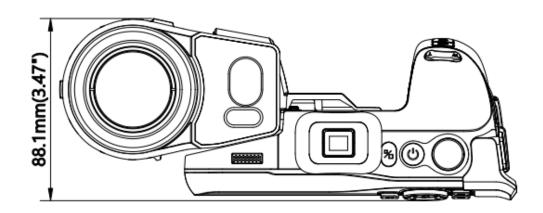
HM-TP9CH-W/W-SP120H-L8/25

HM-TP9CH-W/W-SP120H-L25/50

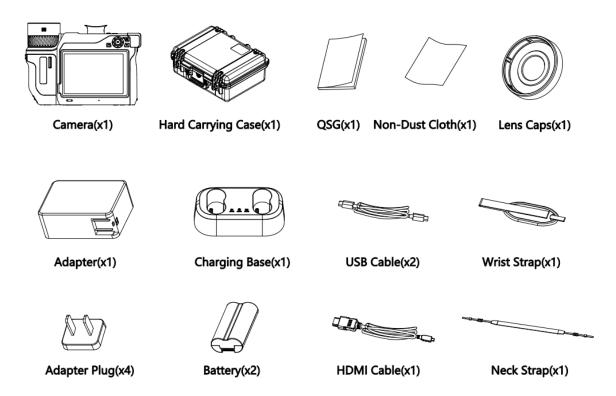
HM-TP9CH-W/W-SP120H-L8/12/25

- Dimension





Packaging List



- Accessory
- Optional



- 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