HM-TP42-3AQF/W-Pocket2

Handheld Thermography Camera

HIKMICRO Pocket Series is equipped with a high-resolution HIKMICRO VOx detector, an 8 MP optical camera, and a 3.5" LCD touch screen. It helps you quickly and efficiently locate the hidden problems and accurately measure the temperatures of faults. The wide temperature range of -20°C to 400°C is ideal for building inspection, HVAC, electrical, and mechanical equipment maintenance. The 25 Hz frame rate keeps up with fast inspections, and the Wi-Fi function allows the Pocket to share images in real-time. The Pocket Series is a powerful thermography tool in your pocket, so it is always there whenever you need it.

Key Features

- Thermal resolution: 256 × 192 (49, 152 pixels), NETD: < 40 mK (@ 25°C, F# = 1.0)
- Accurately measure temperature from -20°C to 400°C (-4°F to 752°F)
- Accuracy: Max. (± 2°C/3.6°F, ± 2%)
- 25 Hz image frequency
- Thermal, fusion, PIP, and optical modes,8 MP optical camera
- Manual, automatic, and 1-Tap level and span
- High temperature alarm
- Built-in 16 GB memory
- LED work light
- 1.0x to 4.0x continuous digital zoom
- Up to 4 hours continuous running

Specification

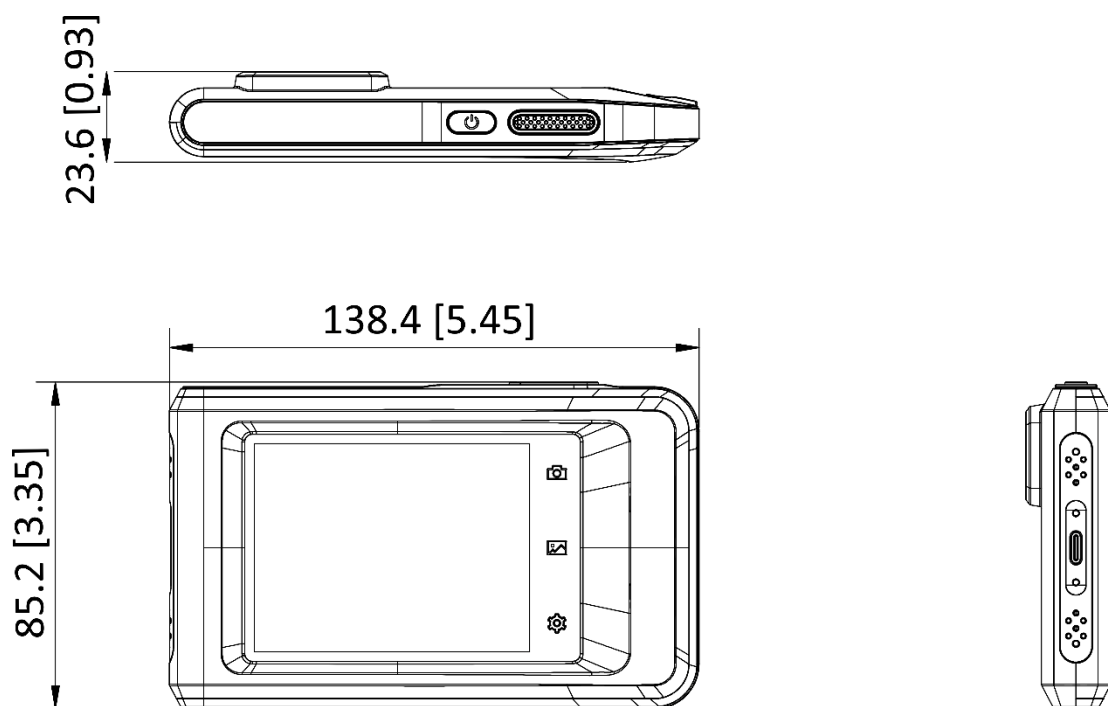| Thermal Module	
Detector Type	Vanadium Oxide Uncooled Focal Plane Array
IR Resolution	256 × 192 (49, 152 pixels)
Detector Pitch	12 μm
Spectral Range	8 to 14 μm
NETD	< 0.04°C (40 mK) at 25°C (77°F) ambient temperature, F# = 1.0
FOV (Field of View)	50° H × 37.2° V
Image Frequency	25 Hz
Focal Length	3.5 mm
Focus	Fixed
Minimum Focus Distance	0.3 m (0.98 ft)
IFOV (Spatial Resolution)	3.43 mrad
F-number	F1.1
Optical Module	
Built-in Visual Camera	3264 × 2448 (8 MP)
Focus	Fixed
FOV	64.6° H × 51.5° V
Picture Resolution	Configurable: 2 MP, 5 MP, 8 MP
Video Resolution	640 × 480
Image Display	
Display	640 × 480 Resolution, 3.5" LCD Touch Screen
Screen Brightness	Manual adjustment
Digital Zoom	1.0x to 4.0x continuous
Color Palettes	7: White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain
Image Modes	Thermal/Optical/Fusion/PIP
PIP	Resizable and movable infrared area on the visual image
Fusion	Thermal image with visual camera details
Level/Span	Auto/Manual/1-Tap Touch-Screen
Minimum Temp Span (Manual)	2°C (3.6°F)
Measurement and Analysis	
Object Temperature Range	-20°C to 400°C (-4°F to 752°F)
Accuracy	Max. (± 2°C/3.6°F, ± 2%), for ambient temperature from 15°C to 35°C (59°F to 95°F) and object temperature above

	0°C (32°F)
Measurement Presets	Center Spot, Hot Spot, Cold Spot, Off
High Temperature Alarm	Audible/visual alarm of above temperature threshold, user-defined temperature threshold
On-Camera Emissivity Correction	Variable from 0.01 to 1.0 or selected from the materials list
On-Camera Reflected Temperature Compensation	Automatic, based on the input of the reflected temperature
On-Camera Transmission Correction	Automatic, based on the inputs for distance and humidity
Data Storage	
Storage Media	Built-in EMMC (16 GB)
Image Storage Capacity	Approx. 60, 000 images
Image File Format	Radiometric.JPEG with measurement data included Thermal.THM.JPEG without measurement data included
Text Note	Max. 200 characters
Video Storage Capacity	Approx. 10 h
Video File Format	Standard MP4 non-radiometric video
software	
PC Software	HIKMICRO Analyzer
APP	HIKMICRO Viewer App
Cast Screen	UVC Alarm Client
Battery	
Power Supply	5 VDC/2 A (Charging via USB), fast charging
Power Consumption	1.92 W
Battery Type	Dismountable and rechargeable Li-ion battery
Battery Operating Time	4 hours continuous running per battery (actual life varies depending on settings and usage)
Battery Charging Time	1.5 h to 94%, 2.5h to full charge
Battery Charging System	In-imager charging, fast charging
AC Operation	AC operation with included power supply (100 VAC to 240 VAC, 50/60 Hz)
General	
Wi-Fi	802.11 b/g/n (2.4 GHz+5 GHz)
Bluetooth	Bluetooth 4.2
USB Interface	USB 2.0, Type-C
LED Light (torch)	Yes
Microphone	Yes
Buzzer	Yes, audible alarm of above temperature threshold

Carrying Pouch	Yes
Protection Level	IP54 (protected against dust, limited ingress; protection against water spray from all directions)
Drop Test Height	2 m (6.56 ft)
Warranty	3 years for whole product, 10 years for detector, and 2 years for battery
Recommended Calibration Cycle	1 year (assumes normal operation and normal aging)
Safety	IEC 61010-1: Overvoltage Category II, Pollution Degree 2
Electromagnetic Compatibility	EN55032: 2015 + A11: 2020 EN50130-4: 2011 + A1: 2014 EN61000-3-3: 2013
Australian RCM	EN 61010-1: 2010 EN55032: 2015 + A11: 2020 EN50130-4: 2011 + A1: 2014 EN61000-3-3: 2013
US FCC	CFR 47, Part 15 Subpart B
RoHS Compliant	Yes
Vibration	0.03 g2/Hz (3.8 g), 2.5 g IEC 60068-2-6
Shock	25 g, IEC 68-2-29
Working Temperature Range	–10°C to 50°C (14°F to 122°F)
Storage Temperature Range	–20°C to 60°C (-4°F to 140°F)
Relative Humidity	< 95 % non-condensing
Weight	Approx. 218 g (0.481 lb)
Dimension	138.5 mm × 85.2 mm × 23.6 mm
Tripod Mounting	UNC ¼"-20
Language	
Language	21 Languages English, German, French, Spanish (Spain), Portuguese (Portugal), Italian, Czech, Slovak, Polish, Hungarian, Romanian, Dutch, Danish, Norwegian, Finnish, Swedish, Russian, Turkish, Japanese, Korean, Chinese (Traditional)

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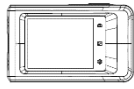
Dimension

23.6 [0.93]

138.4 [5.45]

85.2 [3.35]
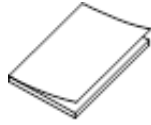
Unit: mm [inch]

Packing List
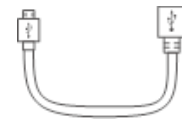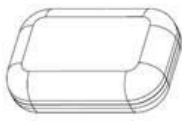
Camera (× 1)   Quick Start Guide (× 1)   Power Supply (× 1)   USB Cable (× 1)

Carrying Pouch (× 1)   Wrist Strap (× 1)

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.

HIKMICRO

BATTERY 2 YEARS

FULL PRODUCT 3 YEARS

DETECTOR 10 YEARS