

HikMicro HM-TP42-3AQF/W-POCKET2 - Pocket Thermal Imaging Camera



Product Description

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.

Features

- Thermal resolution: 256 x 192 (49, 152 pixels), NETD: < 40 mK [@ 25°C, F# = 1.0)
- Accurately measure temperature from -20°C to 400°C I -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

Specifications

- Thermal Module
 - Detector Type: Vanadium Oxide Uncooled Focal Plane Array
 - $\circ\,$ IR Resolution: 256 x 192 (49,152 pixels)
 - Detector Pitch :12 pm
 - \circ Spectral Range: 8 to 14 pm
 - $\circ~$ NETD: < 0.04°C (40 mK) at 25°C (77°F) ambient temperature, F# = 1.0
 - $\circ\,$ FOV (Field of View): 50° H x 37.2° V
 - \circ Image Frequency: 25 Hz
 - Focal Length: 3.5 mm
 - $\circ\,$ Focus: Fixed
 - $\circ~$ Minimum Focus Distance: 0.3 m (0.98 ft)
 - $\circ~$ IFOV (Spatial Resolution): 3.43 mrad
 - F-number: F1.1
- Optical Module
 - Built-in Visual Camera: 3264 x 2448 (8 MP)

- Focus: Fixed
- FOV: 64.6° H x 51.5° V
- $\circ\,$ Picture Resolution: Configurable: 2 MP, 5 MP, 8 MP
- $\circ~$ Video Resolution: 640 x 480

• Image Display

- Display: 640 x 480 Resolution, 3.5" LCD Touch Screen
- Screen Brightness: Manual adjustment
- $\circ~$ Digital Zoom: 1.0x to 4.0x continuous
- $\circ~$ Color Palettes: 7: White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain
- Image Modes: Thermal/Optical/Fusion/PIP
- $\circ\,$ PIP: Resizable and movable infrared area on the visual image
- $\circ\;$ Fusion: Thermal image with visual camera details
- Level/Span: Auto/Manual/I-Tap Touch-Screen
- Minimum Temp Span (Manual): 2°C (3.6°F)
- Measurement and Analysis
 - $\circ~$ 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)
 - $\circ~$ Measurement Presets: Center Spot, Hot Spot, Cold Spot, Off
 - o High Temperature Alarm: Audible/visual alarm of above temperature threshold, user-defined temperature threshold
 - \circ On-Camera Emissivity Correction:Variable from 0.01 to 1.0 or selected from the materials list
 - $\circ\,$ On-Camera Reflected Temperature Compensation: Automatic, based on the input of the reflected temperature
 - $\circ~$ 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.THMJPEG without measurement data included
 - $\circ~$ Text Note: Max. 200 characters
 - $\circ~$ Video Storage Capacity: Approx. 10 h
 - $\circ~$ Video File Format: Standard MP4 non-radiometric video
- Software
 - $\circ~$ PC Software: HIKMICR0 Analyzer
 - APP: HIKMICR0 Viewer App
 - $\circ~$ Cast Screen: UVC Alarm Client
- Battery
 - Power Supply: 5 VDC/ 2 A (Charging via USB), fast charging
 - $\circ~$ Power Consumption: 1.92 W
 - Battery Type: Rechargeable Li-ion battery
 - $\circ\,$ 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
 - $\circ\,$ 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)
 - Bluetooth: Bluetooth 4.2
 - USB Interface: USB 2.0, Type-C
 - LED Light (torch): Yes
 - Microphone: Yes
 - $\circ~$ 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)
 - $\,\circ\,$ Warranty: 3 years for whole product, 10 years for detector, and 2 years for battery
 - $\circ\,$ Recommended Calibration Cycle: 1year (assumes normal operation and normal aging]
 - Safety: IEC 61010-1: Overvoltage Category II, Pollution Degree 2
 - Electromagnetic Compatibility
 - EN55032: 2015 + All: 2020
 - EN50130-4: 2011 + AI: 2014
 - EN61000-3-3: 2013
 - \circ Australian RCM
 - EN 61010-1: 2010
 - EN55032: 2015 + All: 2020
 - EN50130-4: 2011 + AI: 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

- $\circ\,$ 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)
- $\,\circ\,$ Dimension: 138.5 mm x 85.2 mm x 23.6 mm
- $\,\circ\,$ Tripod Mounting: UNC 1/4"-20

Includes

- (1) Camera
- (1) Quick Start Guide
- (1) Power Supply
- (1) USB Cable
- (1) Carrying Pouch
- (1) Wrist Strap