

Pocket2 Pocket Thermal 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 abnormal temperature. 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**

- IR resolution: 256 × 192 (49, 152 pixels), NETD: < 40 mK (@ 25°C, F# = 1.0)
- Support SuperIR Image enhancement technology on captured images and live-view
- 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, Visual, and Blending modes
- Manual, automatic, and 1-Tap level and span
- High temperature alarm
- Built-in 16 GB memory
- LED work light
- 8MP visual camera
- Up to 4 hours continuous running

# Specification

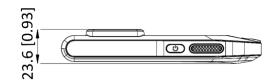
| IR Resolution256 × 192 (49, 152 pixels)SuperIRYes, on captured images and live viewNETD< 40 mK (@ 25 °C, F# 1.0)Image Frequency25 HzDetector Pitch12 µmSpectral Range7.5 to 14 µmFocal Length3.5 mmFocal Length50 ° × 37.2°Spattal Resolution (FOV)3.43 mradNin Focus Distance0.3 m (0.96 ft)Focus Mode60.3 m (0.96 ft)Focus Mode6.40 × 480 Resolution, 3.5° LCD Touch Screen with auto-rotationDisplay640 × 480 Resolution, 3.5° LCD Touch Screen with auto-rotationScreen BrightnessManualDisplay640 × 480 Resolution, 3.5° LCD Touch Screen with auto-rotationScreen BrightnessManualDisplay640 × 480 Resolution, 3.5° LCD Touch Screen with auto-rotationCorler PalettesViet Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedImage Modes70° Cto 400° C (.4° F to 752° F)Accuracy20° Cto 400° C (.4° F to 752° F)Mesurement ToolsCenter Spot, Hot Spot, Cold SpotLevel and Span ModeAuto/Manual/1-Tap Touch-screenDarge Media16 GB flash memory (user available storage space is less sthant the<br>minici capacity)Image Storage CapacityApprox. 50,000 ImagesImage File FormatRetort. JPEGAnotationsText there area. 255 charactersVideo Striage CapacityApirox. 54 hoursVideo Striage CapacityApirox. 54 hoursVideo Striage CapacityApirox. 54 hoursVideo Striage Capac  | Infrared Image              |   |  |
|---|-----------------------------|---|--|
| NETD< 40 mK (@ 25 °C, F# 1.0)   | IR Resolution               | 256 × 192 (49, 152 pixels)  |  |
| Image Frequency     25 Hz       Detector Pitch     12 µm       Spectral Range     7.5 to 14 µm       Focal Length     3.5 mm       Focal Length     5.5 mm       Focal Length     50" x 37.2"       Spatial Resolution (IFOV)     3.43 mrad       Min. Focus Distance     0.3 m (0.98 ft)       Focus Kode     Focus Free       Image Display     640 × 480 Resolution, 3.5" LCD Touch Screen with auto-rotation       Screen Brightness     Manual       Digital Zoom     1.0x to 4.0x continuous       Color Pietets     White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red       Image Modes     Tormal/Visual/Fusion/PIP/Blending       Macuracy     20°C to 400°C (-4°F to 752°F)       Accuracy     Max (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)       Measurement Tools     Center Spot, Hot Spot, Cold Spot       Level and Span Mode     Auto/Manual/1-Tap Touch-screen       Drage Media     Sultin 16 GB flash memory (user available storage space is less than the nominal capacity)       Image Storage Capacity     Approx. 60,000 Images       Inarotet max. 255 characters     Storage Med  | SuperIR                     | Yes, on captured images and live view   |  |
| Detector Pitch12 µmSpectral Range7.5 to 14 µmSpectral Range7.5 to 14 µmFocal Length3.5 mmF-numberF1.1Field of View (FOV)50° × 37.2°Spatial Resolution (IFOV)3.43 mradMin. Focus Distance0.3 m (0.98 ft)Focus ModeFocus FreeImage Display640 × 480 Resolution (3.5° LCD Touch Screen with auto-rotationScreen BrightnessManualDigital Zoom1.0x to 4.0x continuousColor PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedImage ModesThermal/Visual/Fusion/PIP/BlendingMeasurement and Analysis20°C to 400°C (-4°F to 752°F.)Object Temperature Range-20°C to 400°C (-3°F.)Measurement ToolsCenter Spot, Hot Spot, Cold SpotLevel and Span ModeAuto/Manual/1-Tap Touch-screenData Storage CapacityApprox. 60.000 ImagesImage Brie FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo Storage Cap   | NETD                        | < 40 mK (@ 25 °C, F#=1.0)   |  |
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| Spatial Resolution (IFOV)3.43 mradMin. Focus Distance0.3 m (0.98 ft)Focus ModeFocus FreeImage DisplayS264 × 2448 (8 MP)Display640 × 480 Resolution, 3.5° LCD Touch Screen with auto-rotationScreen BrightnessManualDigital Zoom1.0x to 4.0x continuousColor PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedImage Modes-20°C to 400°C (-4°F to 752°F )Masuerment and Analysis-20°C to 400°C (-4°F to 752°F )Object Temperature Range-20°C to 400°C (-2°F )AccuracyMax (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F ) and<br>object temp. above 0°C (32°F )Measurement ToolsCenter Spot, Hot Spot, Cold SpotLevel and Span ModeAuto/Manual/1-Tap Touch-screenDrage MediaBuilt-In 16 GB flash memory (user available storage space is less than the<br>nominal capacity)Image Storage CapacityApprox. 60,000 ImagesImage File FormatRadiometric JPEGAnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo Storage CapacityApprox. 54 hoursVideo Storage CapacityMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared Video<br>Streaming (Compresse)Over UVCWiFiS02.11 b/g/n (2.4 GHz and 5 GHz)BiuetoothBiuetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C  | F-number                    | F1.1  |  |
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| Focus Mode     Focus Free       Image Display     3264 × 2448 (8 MP)       Visual Camera     3264 × 2448 (8 MP)       Display     640 × 480 Resolution, 3.5" LCD Touch Screen with auto-rotation       Screen Brightness     Manual       Digital Zoom     1.0x to 4.0x continuous       Color Palettes     White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red       Image Modes     Thermal/Visual/Fusion/PIP/Blending       Measurement and Analysis     0       Object Temperature Range     -20°C to 400°C (-4°F to 752°F)       Accuracy     Max (±2°C/3.6°F, ±2°k), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)       Measurement Tools     Center Spot, Hot Spot, Cold Spot       Level and Span Mode     Auto/Manual/1-Tap Touch-screen       Data Storage Media     Built-in 16 GB flash memory (user available storage space is less than the nominal capacity)       Image Storage Capacity     Approx. 60,000 Images       Image File Format     Radiometric JPEG       Annotations     Text note: max. 255 characters       Video Storage Capacity     Approx. 54 hours       Video Storage Capacity     Approx. 54 hours       Video Storage Capacity     Apor   | Spatial Resolution (IFOV)   | 3.43 mrad   |  |
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| Visual Camera3264 × 2448 (8 MP)Display640 × 480 Resolution, 3.5° LCD Touch Screen with auto-rotationScreen BrightnessManualDigital Zoom1.0x to 4.0x continuousColor PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedImage ModesThermal/Visual/Fusion/PIP/BlendingMeasurement and Analysis-00°C to 400°C (-4°F to 752°F )Object Temperature Range-20°C to 400°C (-4°F to 752°F )AccuracyMax (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and<br>object temp. above 0°C (32°F)Measurement ToolsCenter Spot, Hot Spot, Cold SpotLevel and Span ModeAuto/Manual/1-Tap Touch-screenData Storage And CommunicationSullt-in 16 GB flash memory (user available storage space is less than the<br>nominal capacity)Image File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralSullt by/n (2.4 GHz and 5 GHz)BiluetonthBiluetonth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Focus Mode                  | Focus Free  |  |
| Display640 × 480 Resolution, 3.5° LCD Touch Screen with auto-rotationScreen BrightnessManualDigital Zoom1.0x to 4.0x continuousColor PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedImage ModesThermal/Visual/Fusion/PIP/BlendingMeasurement and AnalysisObject Temperature Range-20°C to 400°C (-4°F to 752°F)AccuracyMax (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and<br>object temp. above 0°C (32°F)Measurement ToolsCenter Spot, Hot Spot, Cold SpotLevel and Span ModeAuto/Manual/1-Tap Touch-screenData Storage And CommunicationBuilt-in 16 GB flash memory (user available storage space is less than the<br>nominal capacity)Image Storage CapacityApprox. 60,000 ImagesManotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralS0.11 b/g/n (2.4 GHz and 5 GHz)BiluetonthBiluetonth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Image Display               |   |  |
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| Color PalettesWhite Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue RedImage ModesThermal/Visual/Fusion/PIP/BlendingMeasurement and AnalysisObject Temperature Range20°C to 400°C (-4°F to 752°F)AccuracyMax (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and<br>object temp. above 0°C (32°F)Measurement ToolsCenter Spot, Hot Spot, Cold SpotLevel and Span ModeAuto/Manual/1-Tap Touch-screenData Storage and CommunicationBuilt-in 16 GB flash memory (user available storage space is less than the<br>nominal capacity)Image File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo Storage CapacityApprox. 54 hoursVideo Storage CapacityCert UVCRadiometric Infrared-Video<br>Streaming (Compressed)Mit y video (25 Hz) and Radiometric video (5 Hz)Wit-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C  | Screen Brightness           | Manual  |  |
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| Object Temperature Range-20°C to 400°C (-4°F to 752°F)AccuracyMax (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and<br>object temp. above 0°C (32°F)Measurement ToolsCenter Spot, Hot Spot, Cold SpotLevel and Span ModeAuto/Manual/1-Tap Touch-screenData Storage and CommunicationBuilt-in 16 GB flash memory (user available storage space is less than the<br>nominal capacity)Image Storage CapacityApprox. 60,000 ImagesImage File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCWi-Fi80.2.11 b/g/n (2.4 GHz and 5 GHz)BuletoothBuletooth 4.2, supports wireless headsetsBuletoothSB Type-C  | Image Modes                 | Thermal/Visual/Fusion/PIP/Blending  |  |
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| Advice ControlObject temp. above 0°C (32°F)Measurement ToolsCenter Spot, Hot Spot, Cold SpotLevel and Span ModeAuto/Manual/1-Tap Touch-screenData Storage and CommunicatBuilt-in 16 GB flash memory (user available storage space is less than the<br>nominal capacity)Image MediaApprox. 60,000 ImagesImage File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralS02.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C  |                             | Max ( $\pm 2^{\circ}$ C/3.6°F, $\pm 2^{\circ}$ ), for the ambient temp. 15°C to 35°C (59°F to 95°F) and |  |
| Level and Span ModeAuto/Manual/1-Tap Touch-screenData Storage and CommunicationStorage MediaBuilt-in 16 GB flash memory (user available storage space is less than the<br>nominal capacity)Image Storage CapacityApprox. 60,000 ImagesImage File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralS02.11 b/g/n (2.4 GHz and 5 GHz)Wi-FiBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Accuracy                    | object temp. above 0°C (32°F)   |  |
| Data Storage and CommunicationStorage MediaBuilt-in 16 GB flash memory (user available storage space is less than the<br>nominal capacity)Image Storage CapacityApprox. 60,000 ImagesImage File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneral802.11 b/g/n (2.4 GHz and 5 GHz)Wi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Measurement Tools           | Center Spot, Hot Spot, Cold Spot  |  |
| Storage MediaBuilt-in 16 GB flash memory (user available storage space is less than the<br>nominal capacity)Image Storage CapacityApprox. 60,000 ImagesImage File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralVideo Til b/g/n (2.4 GHz and 5 GHz)Wi-FiBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Level and Span Mode         | Auto/Manual/1-Tap Touch-screen  |  |
| Storage Medianominal capacity)Image Storage CapacityApprox. 60,000 ImagesImage File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralWi-FiWi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothUSB Type-C  | Data Storage and Communicat | ion   |  |
| Inominal capacitynominal capacityImage Storage CapacityApprox. 60,000 ImagesImage File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralVideo file SolutionWi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Storage Media               | Built-in 16 GB flash memory (user available storage space is less than the                              |  |
| Image File FormatRadiometric JPEGAnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralWi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C  |                             | nominal capacity)   |  |
| AnnotationsText note: max. 255 charactersVideo Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralWi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Image Storage Capacity      | Approx. 60,000 Images   |  |
| Video Storage CapacityApprox. 54 hoursVideo File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralVideo Streaming (Camper Streaming)Wi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C  | Image File Format           | Radiometric JPEG  |  |
| Video File FormatMP4 video (25 Hz) and Radiometric video (5 Hz)Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneralVideo (2.4 GHz and 5 GHz)Wi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Annotations                 | Text note: max. 255 characters  |  |
| Radiometric Infrared-Video<br>Streaming (Compressed)Over UVCGeneral802.11 b/g/n (2.4 GHz and 5 GHz)Wi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Video Storage Capacity      | Approx. 54 hours  |  |
| Streaming (Compressed)Over UVCGeneralVi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | Video File Format           | MP4 video (25 Hz) and Radiometric video (5 Hz)  |  |
| Streaming (Compressed)   General   Wi-Fi 802.11 b/g/n (2.4 GHz and 5 GHz)   Bluetooth Bluetooth 4.2, supports wireless headsets   USB Interface USB Type-C  | Radiometric Infrared-Video  | Over LIVC   |  |
| Wi-Fi802.11 b/g/n (2.4 GHz and 5 GHz)BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C  | Streaming (Compressed)      |   |  |
| BluetoothBluetooth 4.2, supports wireless headsetsUSB InterfaceUSB Type-C   | General                     |   |  |
| USB Interface USB Type-C  | Wi-Fi                       | 802.11 b/g/n (2.4 GHz and 5 GHz)  |  |
|   | Bluetooth                   | Bluetooth 4.2, supports wireless headsets   |  |
| LED Light Yes   | USB Interface               | USB Type-C  |  |
|   | LED Light                   | Yes   |  |

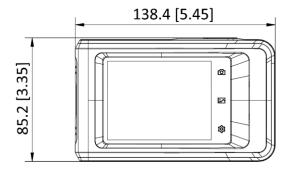
| Power Supply              | USB-C (5V/2A)                                  |
|---------------------------|--|
| Power Saving Mode         | Auto Power-off and manual sleep                |
| Battery Type              | Rechargeable Li-ion battery                    |
| Battery Operating Time    | Approx. 4 hours                                |
| Battery Charging Time     | Approx. 2.5 hours fully charged                |
| Protection Level          | IP54   |
| Drop Test Height          | 2 m (6.56 ft)                                  |
| Working Temperature Range | -10°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. 218 g (0.481 lb)                       |
| Dimension                 | 138.5 × 85.2 × 23.6 mm (5.45 × 3.35 × 0.93 in) |
| Tripod Mounting           | UNC ¼"-20                                      |

# Available Model

Pocket2

## Dimension







Unit: mm [inch]

### Optional Accessories



HM-P201- MACRO

Thermography Camera Macro Lens



HM-AHBR02

Pocket/Mini Series Desktop Stand Bracket

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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