

## B01 Handheld Thermal Camera



HIKMICRO B01 is designed for temperature measurement to find invisible faults. It's equipped with a  $256 \times 192$  high-resolution thermal detector, giving you enhanced details for your inspection. The thermography ranges from  $-20^{\circ}\text{C}$  to  $550^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $1022^{\circ}\text{F}$ ), which meets the most situation. It helps the staff to quickly find the fault according to accurate temperature measurements of high-temperature targets in the environment. Meanwhile, it provides assistance decisions and ensures safety. The device is mainly applied to various industries, such as Building, HVAC, auto industry, etc.

### Key Feature

- Thermal resolution:  $256 \times 192$  (49,152 pixels)
- NETD :  $< 40 \text{ mK}$  (@  $25^{\circ}\text{C}$ ,  $F\#=1.0$ )
- Temperature measurement range :  $-20^{\circ}\text{C}$  to  $550^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $1022^{\circ}\text{F}$ )
- Accuracy: Max ( $\pm 2^{\circ}\text{C}/3.6^{\circ}\text{F}$ ,  $\pm 2\%$ ), for ambient temperature  $15^{\circ}\text{C}$  to  $35^{\circ}\text{C}$  ( $59^{\circ}\text{F}$  to  $95^{\circ}\text{F}$ ) and object temperature above  $0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ )
- Measurement presets: Center spot, Hot spot, Cold spot, User Preset Point
- 25 Hz image frequency
- 3.2" LCD screen display
- Up to 6 hours continuous running

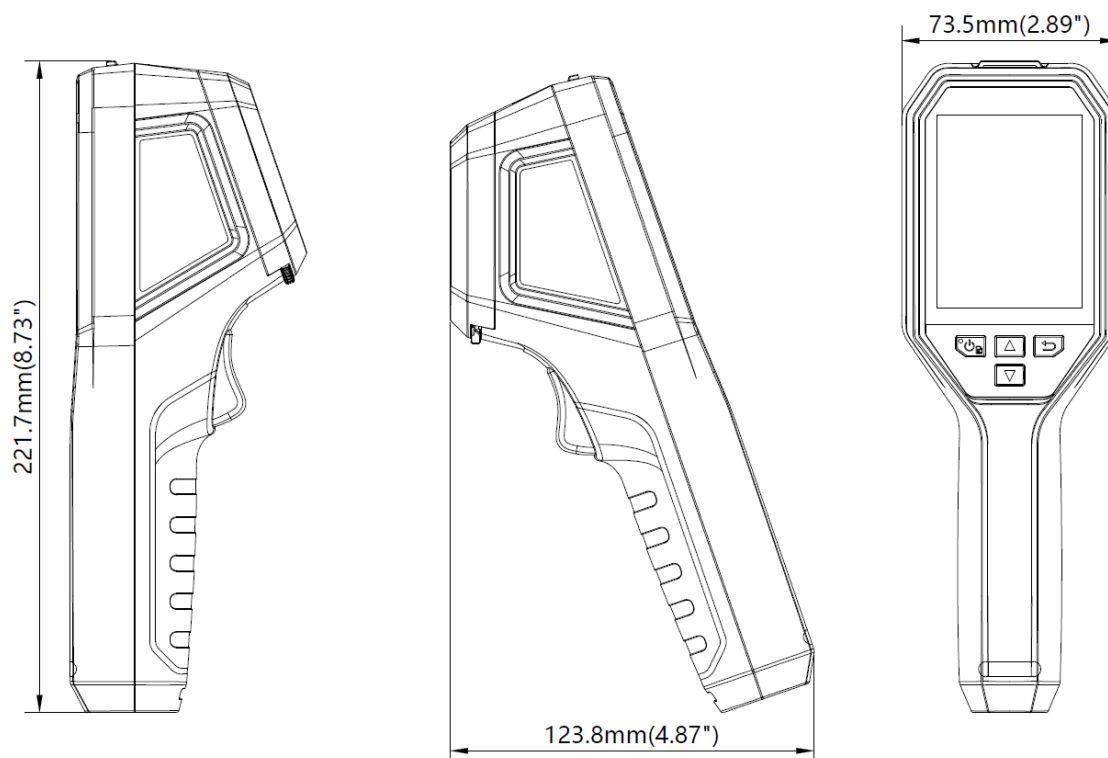
## • Specification

| Infrared Image                 |                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| IR Resolution                  | 256 × 192 (49,152 pixels)                                                                                             |
| SuperIR                        | Yes, on captured thermal images                                                                                       |
| NETD                           | < 40 mK (@ 25°C, F#=1.0)                                                                                              |
| Image Frequency                | 25 Hz                                                                                                                 |
| Detector Pitch                 | 12 μm                                                                                                                 |
| Spectral Range                 | 7.5 to 14 μm                                                                                                          |
| Focal Length                   | 3.6 mm                                                                                                                |
| F-number                       | F1.0                                                                                                                  |
| Field of View (FOV)            | 37.2° × 50.0°                                                                                                         |
| Spatial Resolution (IFOV)      | 3.3 mrad                                                                                                              |
| Min. Focus Distance            | 0.3 m (0.98 ft)                                                                                                       |
| Focus Mode                     | Focus Free                                                                                                            |
| Image Display                  |                                                                                                                       |
| Display                        | 240 × 320 Resolution, 3.2"LCD Screen                                                                                  |
| Color Palettes                 | White Hot, Black Hot, Rainbow, Ironbow                                                                                |
| Image Modes                    | Thermal                                                                                                               |
| Measurement and Analysis       |                                                                                                                       |
| Object Temperature Range       | -20°C to 550°C (-4°F to 1022°F)                                                                                       |
| Accuracy                       | Max. (± 2°C/3.6°F, ± 2%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F) |
| Measurement Tools              | Center Spot, Hot Spot, Cold Spot<br>User-definable: 3 spots                                                           |
| Level and Span Mode            | Auto/Manual                                                                                                           |
| Data Storage and Communication |                                                                                                                       |
| Storage Media                  | Built-in 16 GB flash memory                                                                                           |
| Image Storage Capacity         | Approx. 90,000 Images                                                                                                 |
| General                        |                                                                                                                       |
| Wi-Fi                          | 802.11 b/g/n (2.4 GHz)                                                                                                |
| USB Interface                  | USB Type-C                                                                                                            |
| Battery Type                   | Rechargeable Li-ion battery                                                                                           |
| Battery Operating Time         | Approx. 6 hours                                                                                                       |
| Battery Charging Time          | Approx. 3 hours fully charged                                                                                         |
| Protection Level               | IP54                                                                                                                  |
| Drop Test Height               | 2 m (6.56 ft)                                                                                                         |
| 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. 380 g (0.84 lb)                                                                                               |
| Dimension                      | 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87")                                                                 |
| Tripod Mounting                | UNC ¼"-20                                                                                                             |

## ▪Available Model

B01

## ▪Dimension



## ▪Optional Accessories



HM-2925ZJ-TM01-BR  
ACKET

HM-B201-MACRO

HM-B01-POUCH

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