

# MT256/MT384

## Mobile Thermal Camera Module



Introducing the MT256/MT384 Series, a groundbreaking miniature thermal camera module designed to bring advanced thermal imaging capabilities directly to your Android device.

Exceptionally compact and lightweight (just 46g/48g), this uncooled infrared detector offers high-resolution thermal imaging (256x192 or 384x288) with remarkable sensitivity.

It provides a versatile temperature measurement range of -20°C to 550°C, enabling precise point, line, and area analysis for a wide array of applications, putting professional-grade thermal imaging in the palm of your hand.

## Key Features

- **Smartphone Compatibility:** Plugs directly into Android devices via a Type-C port.
- **High Resolution:** Features 256x192 or 384x288 thermal resolution.
- **Wide Temperature Range:** Measures from -20°C to 550°C.
- **Accurate Measurement:** Delivers high accuracy of  $\pm 2^\circ\text{C}$  or 2%.
- **Versatile Analysis:** Supports point, line, and area temperature measurement.
- **Ultra-Compact & Lightweight:** Designed for easy portability and integration.
- **Low Power Consumption:** Minimizes drain on your phone's battery.



# Specifications

| Model                              | MT256                                         | MT384         |
|------------------------------------|-----------------------------------------------|---------------|
| Infrared Performance               |                                               |               |
| Sensor Type                        | Vanadium Oxide Uncooled Detector              |               |
| Resolution                         | 256x192                                       | 384x288       |
| Pixel Pitch                        | 12μm                                          |               |
| Response Band                      | 7.5-14μm                                      |               |
| NETD                               | ≤50mK (@25°C)                                 | ≤40mK (@25°C) |
| Field of View                      | 18.1°x 13.6°                                  | 26.4°x 19.8°  |
| Spatial Resolution                 | 1.2mrad                                       | 1.2mrad       |
| Image Frame Rate                   | 50Hz * Inside the EU, outside 9 Hz            |               |
| Image Display                      |                                               |               |
| Palettes                           | Including iron red, white hot, and black hot  |               |
| Image Enhancement                  | Yes                                           |               |
| Temperature Measurement Parameters |                                               |               |
| Measurement Tools                  | Supports 5 points, 5 lines, and 5 areas       |               |
| Temperature Range                  | -20°C to 550°C                                |               |
| Temperature Accuracy               | ±2°C or ±2% of reading (whichever is greater) |               |
| System Parameters                  |                                               |               |
| Operating Temperature              | -40 to 60°C                                   |               |
| Weight                             | 46g                                           | 48g           |
| Dimensions                         | 50x41x33.3mm                                  |               |
| Power Consumption                  | ≤0.5W                                         | ≤0.55W        |
| Power and Data Port                | TYPE-C                                        |               |
| Power Input                        | DC5V                                          |               |
| Supported Operating Systems        | Android 9.0 and above                         |               |

Please be aware specifications can vary from time to time