

1. Specifications

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| Sensor | UFPA |
| Temperature range | High-gain: -20°C~150°C; low gain: 150°C~550°C |
| Measurement resolution | 0.1°C |
| Accuracy | ±2°C/±2% (whichever is greater) |
| Response time | ≤500ms |
| IR resolution | 49,152 pixels (256 × 192) |
| Pixel size | 12μm |
| Color palette | Iron, Rainbow, White Hot, Red Hot, Black Hot, Lava, Rainbow HC |
| Infrared spectral bandwidth | 8μm~14μm |
| Field of view (FOV) | 56° (H) × 42° (V) |
| Spatial resolution (IFOV) | 3.8mrad |
| Thermal sensitivity | <60mK |
| Frame rate | <25Hz |
| Temperature measurement display | ROI, center point temperature, high temperature tracking (default) |
| Image format | BMP |
| Buttons | 10 buttons: Power, Image trigger, Back, direction buttons (left/right/up/down), SET, Replay, Flashlight |
| Image mode | Thermal, Digital camera (visual light), Fusion, PIP |
| Temperature measuring point | In addition to the center point, 3 points can be added. |
| Visual light camera | Yes |
| Visual light resolution | 640 x 480 pixels |

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| Image blending ratio | 0% (pure visual light image), 25%, 50%, 75%, and 100% (pure infrared image) |
| PC software | Yes |
| Real-time image transmission | Yes (real-time image projection through PC software) |
| Data transmission | Type-C USB interface |
| Product size (L x W x H) | 236mm x 75.5mm x 86mm |
| Display type | 2.8" TFT LCD |
| Display resolution | 320 × 240 pixels |
| Battery | Single 3.6V/5000mAh Li-ion battery 26650 |
| Auto power off | 5min, 10min, 30min, off (default: 30min) |
| Battery life | ≥6 hours |
| Charging time | ≤5 hours |
| Charging voltage/current | 5V/2A |
| Image storage | Micro SD card |
| Transportation/Storage environment | -20°C~60°C (-4°F~140°F), <85% RH (non-condensing) |
| Operating environment | 0°C~50°C (32°F~122°F), 10%~95%RH (non-condensing) |
| IP Rating | IP65 |
| Drop test | 2m |
| Operating altitude | ≤2000m |
| Standard accessories | User manual, Type-C USB cable, 32GB TF card |