

ZK-178K

Handheld Infrared Thermal Imager
with Visible Light Camera



ZK-178K is an infrared thermal imager equipped with a visible light camera that combines surface temperature measurement and real-time thermal image detection.

The traditional infrared thermometers can only measure the temperature of each accessory one by one. When compared with the conventional infrared thermometers, ZK-178K can measure the temperature of multiple accessories at once, and the potential threats will be clearly displayed on the screen.

It also has a wide range of measurement and photography features that can be adapted in a variety of environments. For example, the built-in high brightness lamp can easily find a suspicious object in the dark environment.

This product also adopts a new generation of the sensor module and multiple color plate mode to ensure an excellent infrared resolution and improved performance.

Features

- Real-time Image Transmission
- Visible Light Camera
- UFPA Sensor
- High Image Visibility
- Adjustable Emissivity
- Storage Card
- Predefined Temperature Range
- Thermal Resolution
- High Temperature Alarm
- Type-C USB Port for Charging and Data Transmission
- Flashlight
- PC Software for Image Analysis

Optional

Rack



Specifications

Sensor	Uncooled Focal Plane
Temperature Range	30°C ~ 45°C
Resolution	0.1°C
Accuracy	±0.5°C (@ 25°C ambient temperature)
Optimal Measuring Distance	1m
Temperature Measurement Response Time	≤500ms (95% of reading)
Thermal Resolution	19200 (160 * 120)
Pixel Dimensions	12μm
Palettes	Iron red, rainbow, glowing white, glowing black, glowing red, lava, high-contrast rainbow
Bandwidth of Infrared Spectroscopy	8 ~ 14μm
Field of View (FOV)	56°(H) * 42°(V)
Instantaneous Field of View (IFOV)	6mrad
Thermal Imaging Sensitivity	<50mk
Frame Rate	<9Hz
Temperature Display	Center temperature measurement and high temperature tracking (default)
Image Format	BMP
Image Modes	Thermal camera, visible camera, image blending
Temperature Measuring Point	Besides central point, 3 temperature measuring points can be added
Visual Camera	Support
Resolution of Visible Camera	640 * 480
Display Resolution	320 * 240
Image Blending	0% (total visual camera), 25%, 50%, 75%, 100% (total thermal camera)
PC Analysis Software (PC)	Support
Real-time Image Transmission	PC software image projection
Data Communication	Type-C USB
Auto Power Off	Selectable (5min, 10min, 30min), 30min auto power off (default)
Battery Life	≥6 hours
Charging Time	≤5 hours
Charging Voltage/Current	5V/2A
Image Storage	Micro SD card

GENERAL CHARACTERISTICS	
Power	A single Li-ion 3.7V/5000mAh 26650 battery
Display	2.8" TFT LCD
Product Color	Red and Gray
Dimensions (mm)	236 * 75.5 * 86
Standard Accessories	Manual, Type-C USB cable, 16GB TF card
Standard Carton Gross Weight	2.2kg

* The temperature measurement is for reference only, and cannot be used for any medical purpose.



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