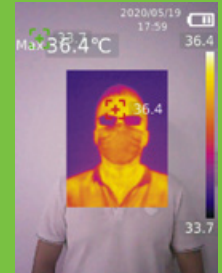


ZK-178K Plus

Handheld Infrared Thermal Imager with High Thermal Resolution



Picture in Picture

ZK-178K Plus is an infrared thermal imager equipped with a visible light camera that combines surface temperature measurement and real-time thermal image detection. It has a special image mode called Picture in Picture. In this mode, user is able to show infrared image on the visible light image.

The traditional infrared thermometers can only measure the temperature of each accessory one by one. When compared with the conventional infrared thermometers, ZK-178K Plus 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

- High Thermal Resolution
- Picture in Picture
- Real-time Image Transmission
- Visible Light Camera
- UFP Sensor
- 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	49152 pixels (256 * 192)
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)	3.8mrad
Thermal Imaging Sensitivity	<60mk
Frame Rate	<25Hz
Temperature Display	Center temperature measurement and high temperature tracking (default)
Image Format	BMP
Image Modes	Thermal camera, visible camera, image blending, picture in picture
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.

