

# ZK-178S

Handheld Infrared Thermal Imager  
with Audio Alarm



ZK-178S is an infrared thermal imager equipped with an audio alarm.

It 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-178S 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/Low Temperature Alarm with Audio and Flash
- Display Resolution is 80 \* 60
- UFPA Sensor
- High Image Visibility
- Adjustable Emissivity
- Storage Card
- Predefined Temperature Range
- Thermal Resolution
- 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 @1m
Optimal Measuring Distance	1m
Temperature Measurement Response Time	≤500ms (95% of reading)
Thermal Resolution	80 * 60
Pixel Dimensions	17μm
Palettes	Black White, Red White, Blue White, Iron Red, Rainbow
Bandwidth of Infrared Spectroscopy	8 ~ 14μm
Field of View (FOV)	51°(H) * 38°(V)
Instantaneous Field of View (IFOV)	11mrad
Thermal Imaging Sensitivity	<150mk
Frame Rate	<9Hz
Temperature Display	Center temperature measurement and high temperature tracking (default)
Image Format	BMP
Image Modes	Thermal
Temperature Measuring Point	Central Point
Display Resolution	320 * 240
PC Analysis Software (PC)	Support
Data Communication	Type-C USB
Auto Power Off	Selectable (5min, 10min, 30min), 30min auto power off (default)
Battery Life	≥6 hours
Charging Time	4 hours
Charging Voltage/Current	5V/2A
Image Storage Location	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.
- \* Once you turn on the device or change an application environment, please leave it for 10 ~ 15 minutes to calibrate the accuracy.

