

AEI160/AEI256

HANDHELD INFRARED THERMAL IMAGING CAMERA

The AEI160&AEI256 is a handheld infrared thermal imaging camera (hereinafter referred to as a thermal imager) that integrates temperature measurement and imaging into a multifunctional device. Free PC software is provided, supporting image/video analysis and processing through the PC software and generating reports.. This makes it an ideal choice for electrical engineers and maintenance personnel to quickly locate fault areas.



-20 to 550°C Temperature Measurement Range
Three selectable temperature ranges



High-Resolution Imaging
160×120 / 256×192 infrared resolution options are available



Three Switchable Temperature Units
°C/°F/K units can be switched



Manual Flashlight Function
Auxiliary lighting, fearless in dark environments



Four Selectable Image Modes
Infrared/Visible Light/Fusion/Picture-in-Picture



16GB Built-in Storage
One-click storage and export of data files for high work efficiency



Rechargeable Battery
Fast charging meets users' long-duration measurement needs.



Product Specifications

Model	AEI160	AEI256
Temperature Range	-20°C~550°C	
Infrared Resolution	160×120	256×192
Measurement Accuracy	±2°C or ±2% of reading (whichever is greater)	
Detector Type	VOx Uncooled Infrared Detector	
Measurement Mode	Industrial Temperature Measurement	
Emissivity	0.01~1.00 (default 0.95)	
Infrared Wavelength Range	8~14μm	
Pixel Size	17μm	12μm
Spatial Resolution	5.31mrad	3.43mrad
Focal Length	3.2mm	3.5mm
Frame Rate	25Hz	
Thermal Sensitivity	≤40 mK (@25 °C,F#1.0)	
Focusing Method	Fixed Focus	
Field of View (FOV)	50° x 37.2°	
Temperature Units	°C/°F/K	
Temperature Display	Displays 3 groups: point temperature, line/surface average temperature, max temperature, min temperature	
Temperature Analysis	Points/Lines/Areas (Recommended to operate in PC software)	
Level Adjustment	Manual	
Center Point Temperature	√	
High/Low Temperature Tracking	√	
High/Low Temperature Alarm	On-screen marker alarm	
Color Palettes	White Hot, Black Hot, Rainbow, Iron Red, Red Heat, Fusion	
Image Modes	Infrared, Visible Light, Fusion, Picture-in-Picture	
Photo/Video Recording	√	
Image/Video Format	Image: JPEG / Video: MP4	
Data Interface	Type-C	
Supported Languages	Simplified Chinese, Traditional Chinese, English	
Mobile App Support	Android 6.0 / iOS 12.0 and above	
Storage	16G	
Battery	Non-removable 18650 battery, 3200mAh	
Charging Time	≤4h	
Operating Time	≥6h	
Operating Temperature	-10°C~50°C	
Operating Humidity	10%~90%RH (non-condensing)	
Storage Temperature	-20°C~60°C	
Power Consumption	<1.6W	
IP Rating	IP54	
Drop Resistance	2m	
Certifications	CE, FCC, ROHS	
Other Specification		
Display	2.8-inch	
Product Dimensions	231mm×79.2mm×84.9mm	231mm×79.2mm×84.9mm
Product Weight	392g	392g
Standard Accessories	Color box, user manual, Type-C data cable (1m)	
Optional Accessories	Close-up Lens (Model: AEI256-WJ)	