AEP160/AEP256

MOBILE PLUG-IN THERMAL IMAGING CAMERA

AEP160/AEP256 is a lightweight and portable mobile plug-in thermal imaging camera. By connecting to a **smartphone app**, users can quickly access real-time temperature measurement, night vision, photography, video recording, and other functions. The app interface is intuitive and easy to use, providing clear images that expand your vision without limits.
The AEP series mobile plug-in thermal imaging cameras are designed to meet the needs of both household and professional applications. They are suitable for power equipment monitoring, pipeline inspection, building insulation detection, circuit board testing, outdoor night observation, and many other scenarios.

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

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

Real-time Temperature Alarming
Customizable high and low-temperature alarm thresholds with marker indication and dual alert (visual & audio)

15 Color Palettes
Selectable based on different scenes and requirements

Multi-point Intelligent Measurement
Supports flexible positioning of 3 points, 3 lines, and 3D temperature distribution display

Multiple Image Modes Available
Provides options for thermal imaging/picture-in-picture display modes

Product Specifications

Model	AEP160	AEP256
Temperature Range	-20°C~550°C	-20°C~550°C
Infrared Resolution	160×120	256×192
Measurement Accuracy	±2°C or ±2% of reading	
Measurement Distance	0.3~3m adjustable	
Detector Type	Oxide Vanadium Thermal Imaging Sensor	
Measurement Modes	Point, Line, Area 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	≤40mK	
Focusing Method	Fixed Focus	
Field of View (FOV)	50.0°(H)×37.2°(V), 63.6°(D)	
Temperature Unit	°C/°F	
Temperature Display	Center Point, Max Temp, Min Temp (Custom 3 points, 3 lines, 3 areas)	
Level Adjustment	Manual	
High/Low Temperature Tracking	√	
High/Low Temperature Alarm	On-screen marker alarm, Audio alarm	
Color Palettes	15 (White Hot, Black Hot, Fusion, Red Hot 1, Red Hot 2, Iron Red 1, Iron Red 2, Deep Blue, Color 1, Color 2, Water Blue, Rain, Gradient, Green, Deep Blue)	
Image Modes	Thermal Imaging, Picture-in-Picture	
Photo/Video Recording	√	
Image/Video Format	Image: JPEG / Video: MP4	
Product Interface	Type-C USB	
Supported Languages	Simplified Chinese, Traditional Chinese, English	
Supported Mobile Systems	Android	
Operating Temperature	-10°C~50°C	
Operating Humidity	10%~90%RH (Non-condensing)	
Storage Temperature	-20°C~60°C	
Power Consumption	≤0.41W	≤0.38W
Certifications	FCC, RoHS, CE	
Other Specification		
Product Dimensions	35.3mm×26mm×19.8mm	35.3mm×26mm×19.2mm
Product Weight	17g	15.6g
Standard Accessories	Color Box, Storage Bag, Dust-free Cleaning Cloth, User Manual	