

AEG309T/AEG609T

THERMAL CAMERA CORE

The AEG309T/AEG609T camera core is equipped with a 384×288 / 640×512 high-resolution infrared detector. It features a high-performance signal processing circuit and advanced image processing algorithms, delivering exceptional image quality with sharp edges and rich depth details. This ensures **fast frame rates and precise temperature measurements**.

With its compact size, low power consumption, and high performance, it also offers strong customization capabilities.

This camera core is widely used for the development and integration of various infrared thermal imaging devices and systems, providing reliable solutions for applications such as industrial process quality control, security surveillance, smart inspection, IoT, UAVs, and industrial automation.



High Sensitivity

Produces stable and clear images



High Frame Rate

Accurately detects fast-moving targets



Wide Temperature Adaptability

Easily handles various temperature conditions



High Degree of Integration

Convenient for secondary development



Full Domestic Production

Enhance supply chain security and self-controllability



Compact & Lightweight

Small size, lightweight, low power consumption



Product Specifications

Specification	AEG309T	AEG609T
Detector Performance		
Detector Type	VOx Uncooled Microbolometer	
Resolution	384×288	640×512
Pixel Pitch	12um	
NETD	≤40mK (@25°C, F#1.0)	
Frame Rate	50Hz	30Hz
Wavelength Range	8~14um	
Measurement Functions		
Temperature Range	-20 °C~150 °C和100 °C~550 °C	
Measurement Accuracy	±2°C or ±2% of reading (whichever is greater)	
Image Adjustment		
Brightness & Contrast Adjustment	Supported	
Polarity	White Hot, Black Hot	
Pseudo Color	Supports Fusion 1, Rainbow 1, Rainbow 2, Iron Red 1, Iron Red 2, and 13 other modes	
Digital Zoom	1x, 2x, 4x	
Image Processing	Non-uniformity correction, digital filtering noise reduction, digital detail enhancement	
Image Orientation	Left/Right Mirror Flip	
Lens Options		
Focal Length	9.7mm	9.1mm
Field of View (FOV)	9.7mm 26.46°×19.81°	9.1mm 48.3°×38.6°
Interfaces		
Video Output	USB 2.0, 4-pin / 1.25mm, supports standard UVC protocol	
Power Supply		
Voltage Range	5V~18V	
Typical Power Consumption	0.6W	0.7W
Environmental Parameters		
Operating Temperature	-20°C~50°C	-20°C~60°C
Storage Temperature	-30°C~70°C	-45°C~75°C
Humidity	5~95% (non-condensing)	
Other Specifications		
Product Dimensions	21.8mm×21.8mm×36.1mm	
Product Weight	24g	