

TIMO256 Series Uncooled Thermal Modules

Thermal Imaging Application
in Consumer Electronics Market



Description

TIMO256 series is equipped with 256×192 wafer-level-packaging infrared detector, wafer-level optical lens, micro solenoid valve shutter and supports 25°/50° field of view. With industry-standard interfaces, it is easier to be integrated into various consumer electronic products. On the basis of TIMO thermal module, TIMO256AF series is upgraded to realize near-far focal adjustment and auto focus temperature measurement functions.

Top Level Configuration

- Equipped with high-precision PM motor and the thinnest solenoid valve shutter

Fast to Focus

- Realize the function of near-far focal adjustment and auto focus temperature measurement

Temperature Measurement

- High accuracy, customizable temperature measurement range

ITA SDK

- Special software development kit, support cross-platform and rich features

Specifications

Model	TIMO256	TIMO256AF
Performance		
Sensitive Material	Vanadium Oxide	
Resolution	256×192	
Pixel Size	12μm	
Spectral Range	8 ~ 14μm	
FOV	56°±1°	25°±1°/56°±1°
NETD	≤50mK	
Frame Rate	25Hz (Customizable 1~30Hz)	25Hz
Focusing Mode	Free	Electric
Measurement & Analysis		
Temperature Measurement Range	① Industrial Thermography: -20°C ~ 150°C, 100°C ~ 550°C (Auto Shift) ② Body Temperature Screening: 20°C ~ 50°C (Accurate Range: 28 ~ 40°C)	
Temperature Measurement Accuracy	① Industrial Thermography: Greater of ±2°C or ±2% ② Body Temperature Screening: ±0.5°C	
External Interface	40PIN	50PIN
Typical Power Consumption	≤85mW	
SDK	Android/ Linux/ Windows	
Environmental Specifications		
Storage Temperature	-40°C~+85°C	-20°C~+70°C
Certificate	RoHS	
Physical Characteristics		
Weight	≤2.2g	≤7g
Size (mm)	15×13×6.95	20×15.5×15 (FOV: 25°) 20×15.5×9.7 (FOV: 56°)

Specifications are subject to change without prior notice.

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