



iHA Series Thermal Modules (For Temperature Screening)

Solution for Epidemic Prevention
& Health Diagnosis



Description

iHA series thermal module is mainly composed of 384×288/17μm infrared detector, optical lens and SDK for temperature measurement with accuracy up to ±0.5°C. The captured temperature data and heat distribution of target can be used to achieve radiation-free, non-invasive early disease diagnosis and long-distance, large-scale body temperature screening. Customers can quickly develop and integrate various temperature measuring systems like medical diagnosis and epidemic prevention.

Non-contact Temperature Measurement

- ±0.5°C high precision temperature measurement without external black body
- Detect distance: 0.5m (for medical diagnosis); 5m (for epidemic prevention and animal thermography)

Fast Integration into System

- An all-in-one standard Type-C interface with power supply, data transmission and control
- Support Windows/Android/Linux SDK; Achieve video stream analysis and conversion from gray to temperature

Compact & Light Structure

- Small size: 25.4mm×25.4mm×30.3mm (with lens)
- Light weight as low as 32.2g

Model	iHA417W	iHA417
IR Detector Performance		
Resolution	384×288	
Pixel Size	17μm	
Spectral Range	8μm ~14μm	
Typical NETD	<40mK	<30mK
Image Processing		
Frame Rate	25Hz	
Start-up Time	5s	10s
Digital Video	RAW/YUV	
Image Display	Black Hot/White Hot/Pseudo Color	
Image Algorithm	NUC/3DNR/DNS/DRC/EE/SFFC	NUC/AGC/IDE
Electrical Specification		
Standard External Interface	TYPE-C	
Communication Mode	USB	
Supply Voltage	5±0.5V	
Typical Power Consumption	0.85W	1.5W
Temperature Measurement		
Operating Temperature Range	-10°C ~ +50°C	
Temperature Measurement Range	+15°C ~ +50°C	+20°C ~ +50°C
Temperature Measurement Accuracy	≤±0.5°C (No wind indoor, target temperature range +32°C~+42°C)	
Measuring Distance	Two Modes: 0.5m or 5m	
SDK	Support Windows/Android/Linux SDK, Realize Video Stream Analysis, Module Control, Comprehensive Array Temperature Measurement, Temperature Imaging, Temperature Window Setting, Multiple Integration	
Physical Characteristics		
Size (mm)	≤25.4×25.4×30.3 (With 9.1mm Lens)	44.5×42.5×58.9 (with 7mm lens) 44.5×42.5×60.4 (with 9.7mm lens)
Weight	32.2±3g (With 9.1mm Lens)	123g (with 7mm lens) 125g (with 9.7mm lens)
Environmental Adaptability		
Operating Temperature	-40°C ~ +70°C	
Storage Temperature	-45°C~+85°C	
Humidity	5%~95%, non-condensing	
Vibration	Random Vibration 5.35grms, 3-axis	
Shock	Half-sine Wave, 40g/11ms, 3-axis 6-direction	
Optics		
Optional Lens	Fixed Focus Athermal: 9.1mm	Fixed Focus Athermal: 7mm/9.7mm
Certificate		
Standard	ROHS/REACH	

Specifications are subject to change without prior notice.

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