



Plug417S Infrared Module

Specially Developed for IR Fever Sensing System



PLUG417S

PLUG417S infrared module is specially developed for IR fever sensing system. It consists of $400 \times 300 @ 17 \mu\text{m}$ infrared module, 9.7mm infrared optical lens and a specialized SDK for human body temperature measurement. The data captured by Plug417S can be transferred to the back-end platform integration via a 50-pin or via USB3.0 interface. The dedicated SDK supports integrators to achieve temperature conversion, IR image display and many other functions. With such a well-functional IR module, the integrators could develop their own IR fever sensing system quickly and efficiently.



“Designed for non - contact body temperature measurement”



- $\pm 0.5^{\circ}\text{C}$ High precision without external black body.
- Wide field of view: $37.2^{\circ} \times 28.3^{\circ}$.
- Safe efficient measurement distance, 5m optimal.

“Rapid integration of Rapid integration of EST (Elevated Skin Temperature)”



- Type-C interface for power+transmission+control.
- ARM/Windows/Linux SDK.



Model	PLUG417S
IR Detector Performance	
Resolution	400×300
Pixel Pitch	17μm
Spectral Range	8~14μm
NETD	< 30mK
Image Processing	
Frame Rate	25Hz
Start-up Time	<10S
Extension Component	USB video
Dimming	Linear/Histogram/Mixed three modes
Image Display	Black hot/White hot/Pseudo color
Image Direction	Horizontally/Vertically/Diagonally Flip
Image Algorithm	Non-uniformity Correction (NUC);Auto Gain Control (AGC);Intelligent Detail Enhancement (IDE) ;Digital noise reduction (DNR)
Electrical Specification	
Standard External Interface	TYPE-C
Communication Mode	USB
Supply Voltage	4.5V-5.5V
Typical Power Consumption	<1.5W
Temperature Measurement	
Operating Temperature Range	16°C ~ 32°C
Temperature Range	20°C ~ 50°C
Temperature Accuracy	≤±0.5°C (No wind indoors, 32°C~42°C Target)
SDK	ARM/Windows SDK, full screen thermography
Physical Characteristic	
Dimension(mm)	44.5X42.5X60.4(PLUG417S+9.7mm lens) 44.5X42.5X58.9(PLUG417S+7mm lens)
Weight	PLUG417S+9.7mm lens≤140g PLUG417S+7mm lens≤135g
Environmental	
Operation Temperature	-10°C ~ +50°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: 7mm/9.7mm
Certification	
Certification standards	ROHS/REACH

Specifications are subject to change without notice.

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