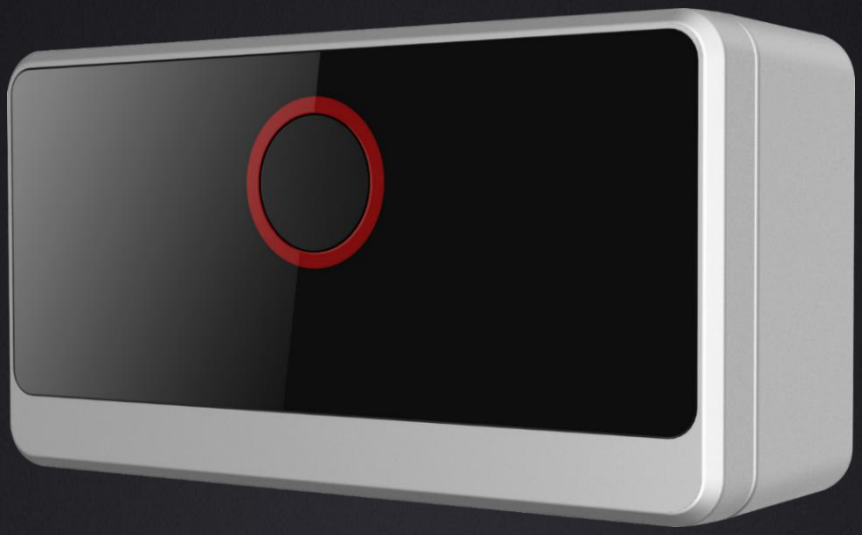
LC160 Infrared human body temperature measurement module

High-cost performance, built for body temperature screening



Introduction

LC160 is developed especially for panel machines integration. The preset installation position at the bottom can be directly connected to the panel machine, making the integration easier and faster. This device utilizes a wafer-level infrared detector independently developed by Guide, not only allowing to measure temperature in the full image but capture the temperature data of every pixel in the scene. The non-contact safety measuring distance is 1.2 meters. The device enables a rapid screening to identify persons with abnormal temperatures, ensuring the crowds pass rapidly and orderly.

Features and Benefits

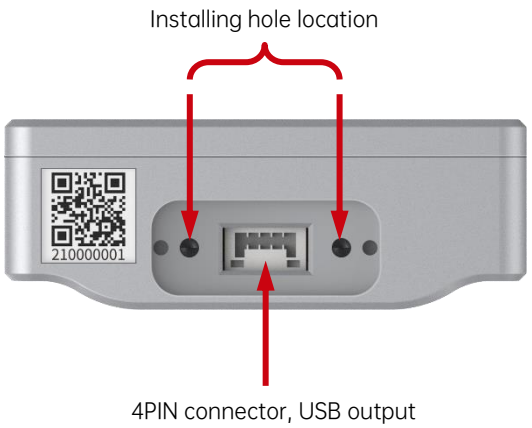
- IR resolution 120×90
  Full-frame radiometric info, output temperature value for all 10800 pixels
- Special for human body temperature measurement, high performance
  ±5℃ temperature measurement accuracy, 0.5M-1.2M temperature measurement distance
- IP54 protection level
  Reinforced design, connected to the panel machine without additional guards
- Versatile interface, easy to integrate
  Adopt 4PIN external connector, USB protocol output
- Provide SDK for full platforms
  Support Android / Linux / Windows platforms, wide applicability

Application

- As an integrated component of the face recognition panel machines, it offers human body temperature screening, applicable to shopping malls, supermarkets, hotels, restaurants, hospitals, banks, communities, office buildings, parks and places with dense traffic.

Specifications

Model	LC160
Imaging and optics	
Detector type	WLP VOx
Infrared resolution	120 × 90
Pixel Pitch	17 μm
Wavelength range	8 to 14 μm
Field angle	50°±1°
NETD	≤60 mK
Infrared frame rate	25 Hz
Focusing mode	Focus-free
Measurement and analysis	
Measurement range	20 ℃ to 50 ℃ (accurate temperature measuring range: 28-40℃)
Measurement accuracy	± 0.5 ℃
Data format and interface	
External interface	4 PIN
Data format	USB 2.0
Power supply and power consumption	
Voltage	USB power supply (voltage range: 4.5 to 5.5V)
Typical power consumption	≤150 mW
Software kit	
SDK	Android/ Linux/ Windows
DEMO software	PC/Android
Environmental parameters	
Working temperature	0℃ to 40℃
Storage temperature	-20℃ to 70℃
Certification	RoHS
Physical parameters	
Weight	≤42 g
Size (L × W × H)	55mm × 29mm × 20mm



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*Technical parameters are subject to change without notice. For the latest information, please visit our website: www.guideir.com