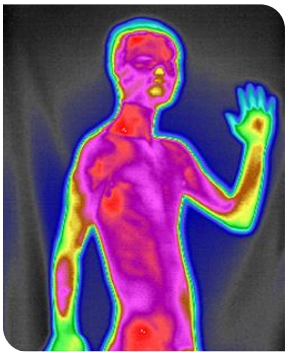
IPM640

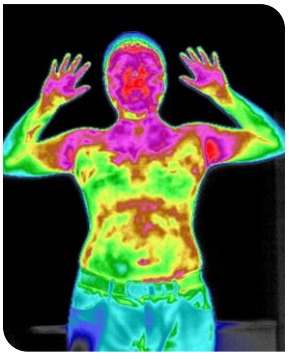
High-Accuracy Online
Thermal Camera Core

Sensing Makes Medical Diagnosis More Accurate

Introduce

Equipped with an uncooled VOx detector developed by Guide, the IPM640 is a high-performance thermal camera core for body temperature measurement. It features a thermal sensitivity of less than or equal to (≤)40 mK for the reliable operation. The widely deployed interfaces and easy-to-use and multifunctional SDK further simplify its integration into new systems.





Features and Benefits

- Self-developed infrared detector for high surface uniformity of infrared images
- Quality guaranteed, Long-term stable operation
- NETD of ≤40 mK extends the details of body temperature difference.
- Small size and standard network interfaces make it ideal for integration.

Application

- Medical auxiliary diagnosis

Specifications

Model	IPM640
Thermographic	
Detector type	VOx
Detector resolution	640 × 480
Pixel size	17μm
Wavelength range	8μm to 14μm
NETD	≤40mK@30°C
Thermographic camera lenses	20mm, 30.8° × 23.3°
Focusing mode	Electric / Automatic
Detail enhancement	Supported
Noise reduction	2D noise reduction
Pseudo colors	26 (White hot, Black hot, etc.)
Temperature measurement	
Measurement range	20°C to 50°C
Measurement accuracy	±0.4°C (Target temperature: 28°C~42°C)
Temperature Measurement Distance	0.3-3m
Target setting	Point, linear and area temperature measuring, and the area shape can be circle, square and irregular polygon
Cold/ hot spot tracking	Supported
Full-screen point temperature measuring	Supported
Query and export of temperature measuring information	Supported
Image	
Code stream	640 × 480@25Hz
Protocol and storage	
Network protocol	IPv4, HTTP, RTSP, RTP, TCP, UDP, DHCP
SDK/ API	Open SDK/ API for software integration
System function	
Language version	Chinese/ English
Hardware interface	
Power interface	DC12V
Network interface	One 100M/ 1, 000M Ethernet port
Alarm interface	1 input and 1 output
Other interfaces	1-channel RS485
Environmental	
Working temperature	0°C~+40°C
Working humidity	≤ 95%, non-condensing
Physical	
Power consumption	≤3W
Size	≤ 103mm × 60mm × 60mm
Net weight	≤ 410g