

TI160-P11

Infrared Body Surface Temperature Rapid Screening Camera (Thermal Imaging Camera)

TI160-P11 is a non-contact human temperature measurement system specially designed for human body inspection and quarantine places. The system uses infrared thermal imaging and high-definition visible light overlay technology, with functions such as online temperature measurement, temperature alarm, face recognition and so on, it can be widely used in airports, stations, subways, hospitals, schools, shopping malls, enterprises and institutions and other densely populated places, it can quickly screen fever patients in large-scale mobile populations, help security personnel and medical staff to improve the efficiency of epidemic detection, and build the first line of defense for epidemic prevention and control.

Features

Accurate: high-precision non-contact temperature measurement, temperature error $\leq \pm 0.3^{\circ}\text{C}$;

Intelligent dual light: visible light + thermal imaging dual light algorithm, face detection, accurate positioning of temperature measurement parts, reducing false alarm rate;

Intelligent alarm: support temperature threshold setting and auto screening early warning mechanism, abnormal temperature alarm immediately;

Backtracking: combined with the platform, it can realize the backtracking, analysis and mining of historical data;

Scalable: it can be linked with the emergency command system to achieve rapid response and real-time processing.

Applications

Airport

Station

Hospital

School

Enterprises and institutions



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Technical Specifications

Item	TI160-P11
Thermal Imaging	
IR resolution	320×240
Spectral range	8~14μm
NETD/Sensitivity	50mK
Lens	10mm
Focus	Athermal lens
Color palettes	10 types (including iron red, rainbow, black heat and white heat, etc.)
Visible light	
Sensor type	1/2.8 inch CMOS
Resolution	1920×1080
Focal distance	10mm
Minimum illumination	0.005Lux @(F1.5, AGC ON),
Temperature measurement	
Temperature range	+30°C~+45°C
Measurement accuracy	±0.3°C (with blackbody)
Highest temperature tracking	Real-time display of high temperature point position and temperature value
Emissivity correction	Adjustable emissivity from 0.01 to 1.0, or correct emissivity through a predefined material emissivity meter
Atmospheric transmissivity correction	Auto (based on input reflected ambient temperature, distance, relative humidity, ambient temperature)
Function settings	Date / time, temperature unit °C / °F / K, language
Intelligent information overlay	Supports superimposed thermal imaging information in visible light channel images (only supports temperature measurement rules, temperature measurement values)
Linkage alarm	Support sound and light linkage alarm
Data storage	
Image format	Memory storage JPG format, PC-side BMP, JPG
Video format	AVI format, H.264 compression
SD card	Built-in 128G
Interface	
Network interface	100M/1000M Ethernet, RJ45 interface, temperature data transmission
Network protocol	Support HTTP; TCP; RTSP; RTP; UDP; RTCP; Support ONVIF 28181 protocol;
Alarm I/O	Scalable
Communication serial port	RS422/RS485/RS232 Scalable
Power System	
Working voltage	DC: 12V
Power consumption	≤6w
Environment Parameters	

Operating temperature range	-20°C~+50°C(Ambient temperature 15°C -35°C accurate temperature measurement)
Humidity	≤95%(non-condensing)
Vibration	2G(IEC60068-2-6)
Shock	25G(IEC60068-2-29)
Physical data	
Size	335mm(L)×195mm(W)×116mm(H)
Weight	≤2Kg
Packing	
Standard	Infrared camera, integrated cable, warranty card, certificate, carrying case
Quality assurance	
ISO9001	Yes
Third-party detection	Type Approval Certificate of Measuring Instruments issued by Zhejiang Quality and Technical Supervision Bureau