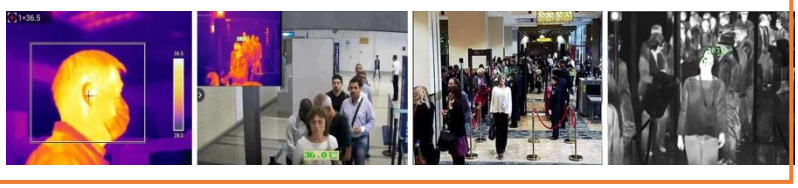
# TI160-P11B

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

TI160-P11B 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 ≤ ±0.3℃;
- 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

ULIRVISION

## Technical Specifications

| Item | TI160-P11B |
|---|---|
| **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℃～+45℃ |
| Measurement accuracy | ±0.3℃（with blackbody） |
| Highest temperature tracking | Real time display of the highest temperature on the face of all people in the current field of view |
| 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 ℃ / ℉ , language |
| Intelligent information overlay | The interface shows the temp of normal people and temp alarm image of suspected fever personnel |
| Linkage alarm | Sound alarm (support custom alarm sound) |
| **Data storage** | |
| Normal screenshot | JPEG format 1920x1080 resolution picture stored on PC, TXT with information |
| Alarm screenshot | JPEG format 1920x1080 resolution picture stored on PC, TXT with information |
| History file | PC software supports historical data file search |
| **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℃～+50℃(Ambient temperature 15℃ -35℃ 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 | ≤4Kg |
| **Packing** | |
| Standard | Infrared camera, integrated cable, warranty card, certificate, tripod |
| **Quality assurance** | |
| ISO9001 | Yes |
| Third-party detection | Type Approval Certificate of Measuring Instruments issued by Zhejiang Quality and Technical Supervision Bureau |