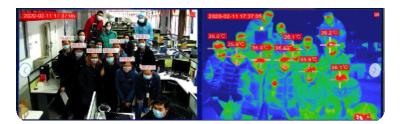# SensorTec

ST-U8FB-AI

AI FEVER WARNING SYSTEMS

Features

- Adopts 400x300 infrared uncooled Vox detector
- AI deep learning algorithm based on neural network, more accurate temperature measurement and lower false warning rate
- Accurate single-point and multi-point high temperature tracking and warning
- Equipped with black body, real-time temperature calibration, higher accuracy
- Face recognition detection function, more intelligent
- Stand-type, easy to move, standard PC with powerful analysis software

- ST-U8FB-AI Fever Warning Systems are applied to mass fever screening in crowded public places, which help to detect people with a potential fever and may contain or limit the spread of the Coronavirus through identification of infected individuals showing fever symptoms. ST-U8FB-AI combines advanced technology such as thermography human temperature measurement algorithm and AI intelligent face recognition to make the equipment accurate and easy to use.
- ST-U8FB-AI equipped with various powerful functions. Multi-target tracking can ensure that no targets are missed. Custom warning zones and high-temperature shielding settings can avoid interference from other high-temperature objects. When detect the febrile people, it supports automatic warning, tracking and photo taking for storage. Support video recording. Convenient to query and classify management. ST-U8FB-AI is the idealequipment for epidemic prevention in public places such as airports, stations, factories, schools, commercial centers and more.

Higher efficiency on temperature detection

Temperature screening for multiple people at the same time, no need to stop.

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More safe, temperature screening from 2~8 meters away

Thermal imaging for long-range temperature detection up to 8 meters away, no risk of infection caused by close contact (the picture below shows the comparison of the IR thermometer gun and GUIDE infrared fever screening system)

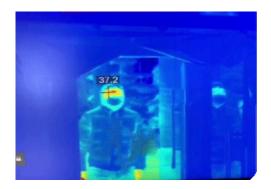## AI algorithm, no false warning

Thanks to deep learning algorithm based on neural network, and a large number of practical application cases in the past 20 years, ensure fast and accurate temperature detection without false and missing warning

Intelligent, automatically detect faces

AI face detection algorithm, which can recognize even when wearing a mask, can accurately measure forehead temperature without interference from other high temperature objects

Automatic warning, photo capturing and storage while detecting the fever people

Automatic warning, photo capturing and storage while detecting the fever people, greatly reducing the workload of the operator. And historical data can be checked repeatedly for easy recording and tracking

TECHNICAL SPECIFICATION	
IR detector	
IR resolution	400×300
Pixel size	17μm
NETD	≤40mK
Focal Length	9.7mm
FOV	38°*28°
Frame Rate	25Hz
Visible Camera	
Resolution	2 million pixels
Frame Rate	25Hz
Temperature	
Range	-10□~50□
Accuracy	≤ ± 0.3°C (ambient temperature 16 ~ 32 °C)
Calibration	Built-in shutter and external black body, automatic calibration after selecting mode
Software functions	
Parameter settings	Warning switch and warning threshold value, number of warning targets, warning photos automatic clearing, shielding fixed high temperature objects
Face recognition	Intelligent face recognition, Supported from V1.0.9.0
Real-time preview	Real-time preview of visible and thermal image
Real-time spot temperature detection	Real-time temperature monitoring at any point in the field of view
Automatic tracking	Support automatic tracking for elevated human temperatures
Automatic warning	Tracking, warning and photo capturing for the fever people; Warning while the Black Body is blocked.
Historical records	Support query, classification and deletion of historical warning screenshots
Video recording	Support. The software needs to be upgraded to V1.1.0.9, and equipped with NVR (NVR standard 4T hard disk), support GB28181 protocol to access third-party platforms
Network communication protocol	HTTP,RTSP
Black body	
Blackbody target surface uniformity	≤0.1 °C
Temperature stability accuracy	≤ ± 0.2 °C (single point)

SensorTec

Camera head interface	
Network interface	Two-way, visible light 100M, infrared 1000M
Camera head power	
Input voltage	DC 12V
input power	≤12W
General	
Work Temperature	-10 ~ 65 °C
Storage Temperature	-20°C ~ 60 °C
Work Humidity	<90% (non-condensing)
Shock	30g 11ms, IEC60068-2-27
Vibration	10HZ ~ 150Hz ~ 10Hz 0.15mm, IEC60068-2-6
Total weight	≤45kg (subject to actual delivery)

Application

- Large-scale temperature screening of airports, railway stations and more.
- Control and reduce the spread of virus with fever symptom, such as Ebola, SARS and Zika, Novel Coronavirus...

Option A

- Camera head + stand
Black body + stand Switch
PC Set

Option B

- Thermal camera set Black body + stand