

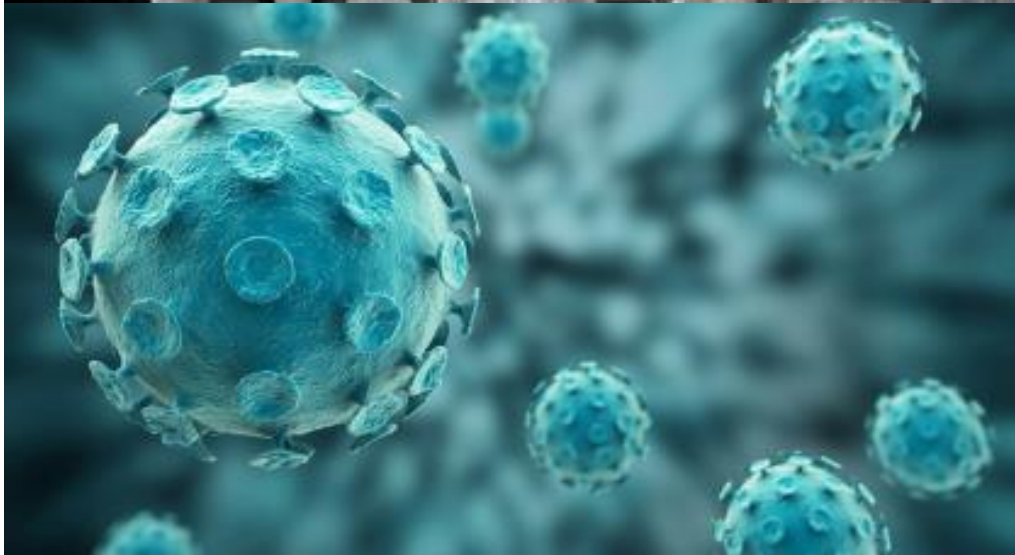
GANZ

Body Temperature Measurement System



Contactless Temperature Measurement System
Based on Artificial Intelligence for Epidemic Fever

A Pneumonia from a New Coronavirus Broke out in Wuhan

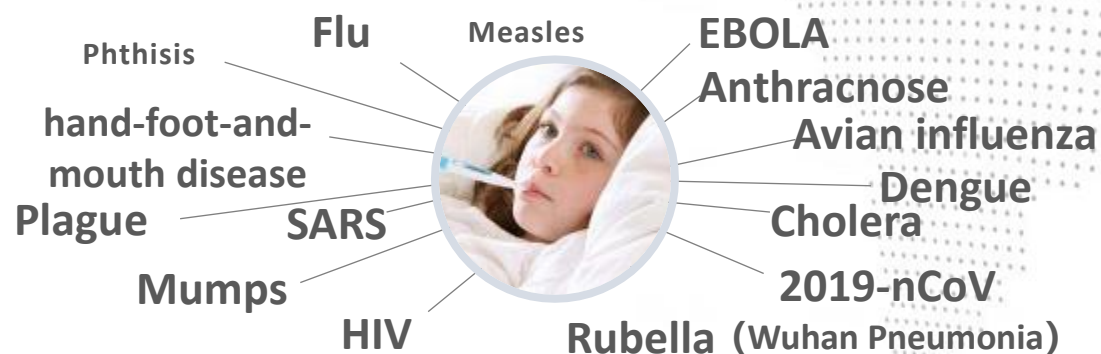


When an epidemic breaks out, a command is issued. It is our responsibility to prevent and control it.

A pneumonia from a new coronavirus broke out in Wuhan in Dec, 2019. Due to human-to-human infection, even in the incubation period, the coronavirus has rapidly spread to all parts of China in a short time. The prevention work has been even more difficult because many medical staff were infected. The government has started first-level response to the prevention and infection control. Comes at a time when more people are returning from their Spring Festival Holiday, various isolation measures have been introduced throughout the country to control the spread of disease.

The Typical Pneumonic Symptom of 2019-nCoV Infection Is Fever

According to the statistics of clinical manifestations, 28 statutory infectious diseases out of 39 have fever symptoms in the early stage.



BODY TEMPERATURE MEASUREMENT

is an important means of epidemic prevention and control



Academician Zhong Nanshan said in today's interview that fever is still the typical symptom of 2019-nCoV infection." Firstly, fever is the main thing, and then fatigue." Zhong Nanshan said, some patients only have symptom once back home, but no symptom while staying in Wuhan. So in the airport, port and railway, to take body temperature measurement is typical and requisite.

Guiding Principles for Prevention and Control of Infectious Diseases



The Pain Points of Traditional Temperature Measurements for Preventing Infectious Virus



Waste Time and Energy

- In stations, airports, docks and other places with large traffic flow, a large number of passengers wait in queue



Contact Temperature Measurement

- Easy to cause cross infection
- Cause psychological burden to the detected personnel



Not for Long-term Use

- There is no mechanism to measure body temperature in public places during the non-epidemic period and the early outbreak period, Easy to cause a large area of virus infection



No Formed Data Accumulation

- Generally, temperature information has not formed as data, so it is difficult to analyze and evaluate the health and epidemic prevention, and difficult to improve the epidemic prevention and control.

GANZ Thermometer Technology



Accurate face tracking Present results in real time

Face recognition algorithm is used to accurately locate the temperature to the target



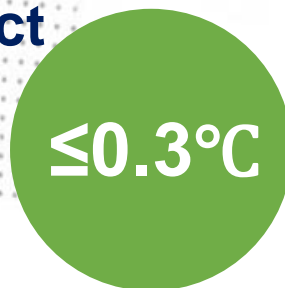
Bi-spectrum, dual channel All-weather real-time monitoring

Visible light can capture human face and thermal imaging can monitor body temperature



Multi-objective fast non-contact temperature measurement

Complete 16 target temperature measurements within 30 milliseconds at a distance of 3-5 meters



Temperature accuracy $\leq 0.3^{\circ}\text{C}$

Modified $\leq 0.3^{\circ}\text{C}$ (emissivity, distance, ambient temperature, etc.)

Advantages Compared to Traditional System

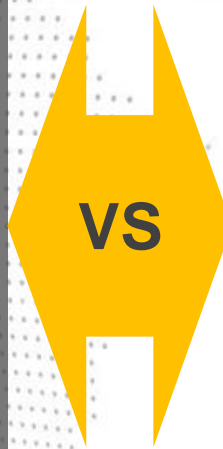
GANZ Body Temperature Measurement System

16 people temperature measurement within 30 ms

Max. 16 people can be measured simultaneously in real-time

Dynamic real-time continuous detection

Intelligent automatic temperature detection



Traditional Thermometer Temperature Measurement

Complete 16 people temperature measurement in 16s

Only can simultaneously complete the 1 person temperature measurement

Need arrange and irregular measurement

Manual temperature measurement

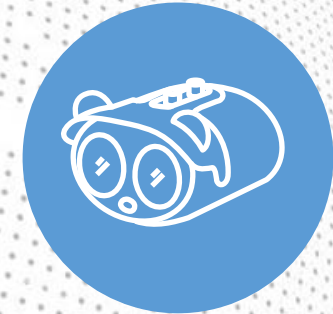
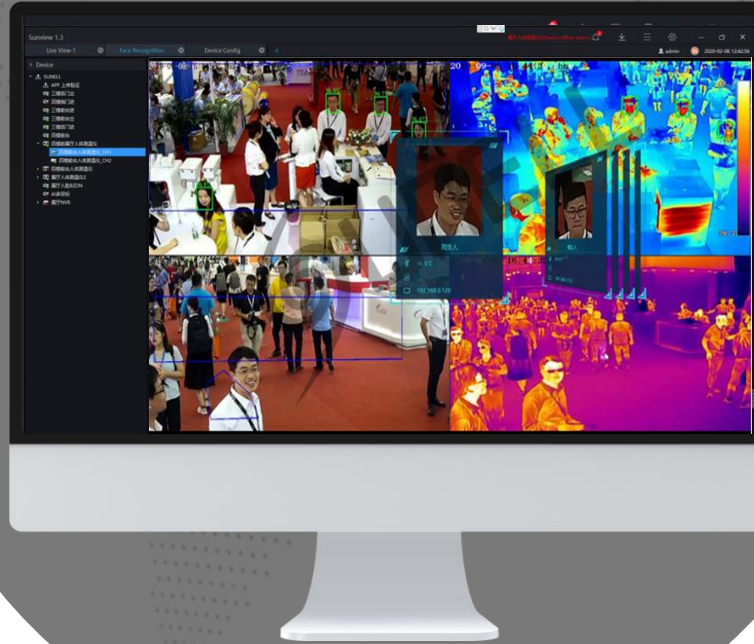
Key Features



**Face Recognition
Temperature Measure**



**Support Mobile
APP**

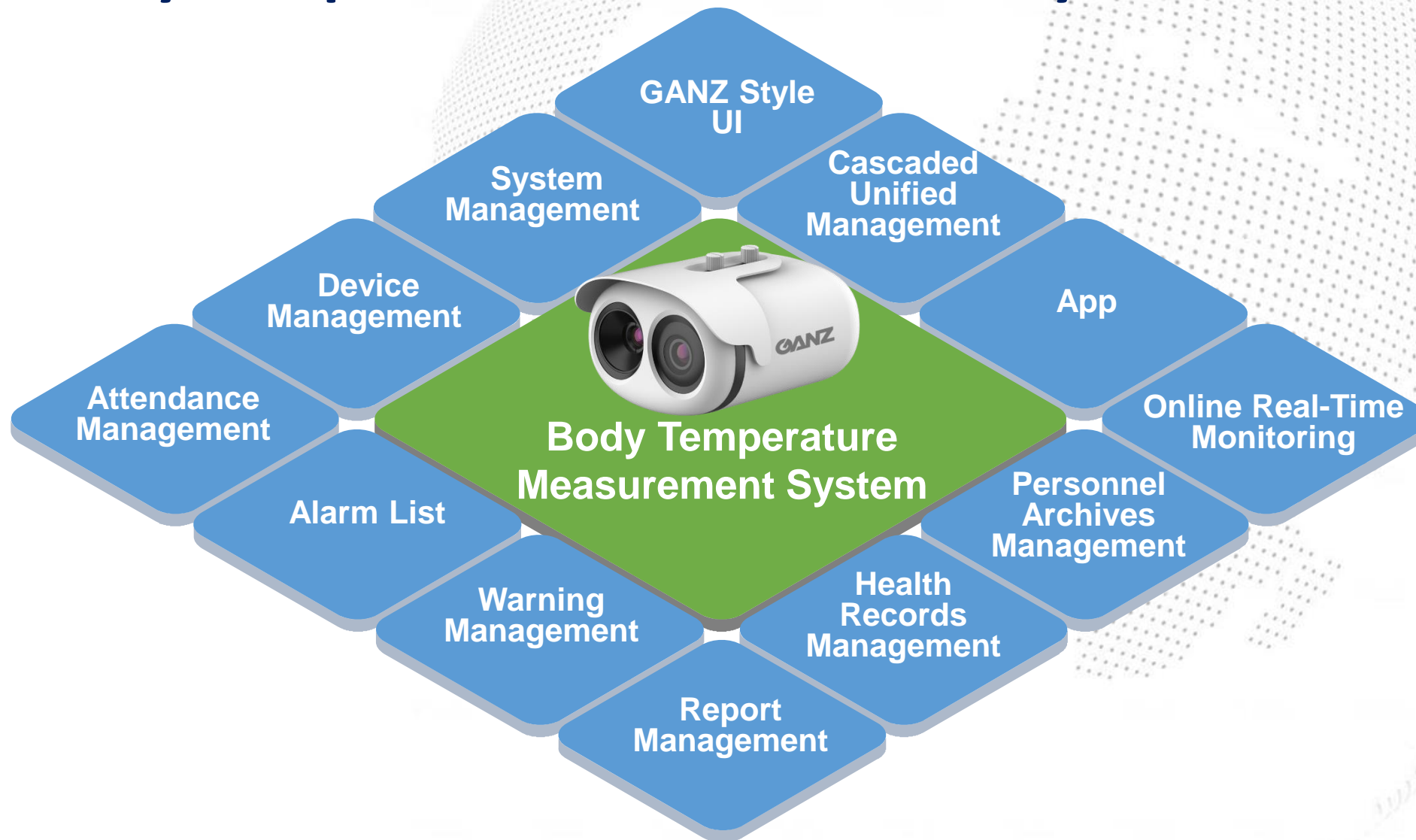


**Over-temperature
Real-time Warning**



**Data can be Checked and
Analyzed**

GANZ Body Temperature Measurement System



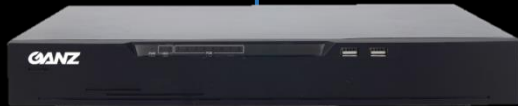
Single Point Applications

Smart NVR

Thermal Camera



NVR Interface



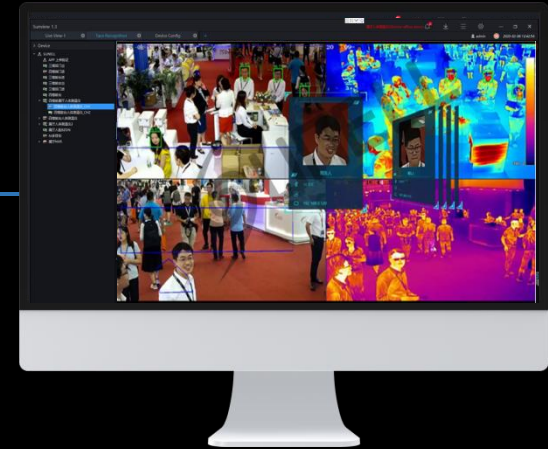
Smart NVR

GenSTAR VMS

Software Client



Thermal Camera

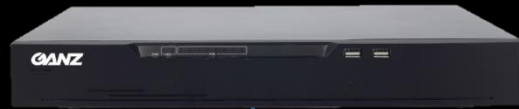


Mini & Medium Scale Applications

Smart NVR

NVR interface

Smart NVR



Thermal Camera



Thermal Camera

Screen Monitor

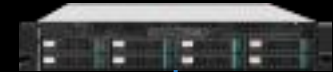
Screen Monitor

GenSTAR VMS

Software Client



Temperature Warning Platform



Thermal Camera

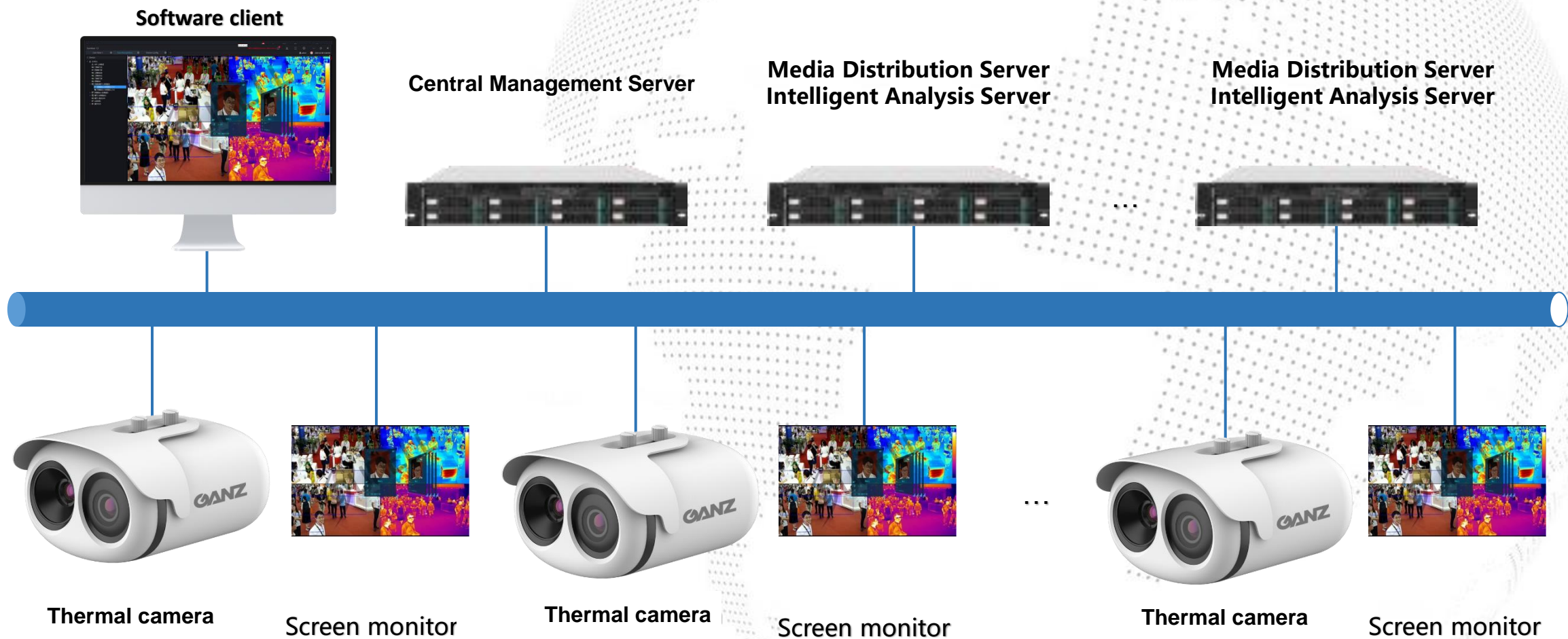


Thermal Camera

Screen Monitor

Screen Monitor

Medium & Large Scale Applications



Body Temperature Measurement System- Products

Media Distribution Server
Intelligent Analysis Server
Central Management Server



1. Can be used for centralized management
2. Distributed deployment
3. Suitable for selection of medium and large projects

Smart NVR



1. Integrated with face recognition
2. Suitable for single-point emergency deployment and small or medium-sized project selection

Thermal Camera



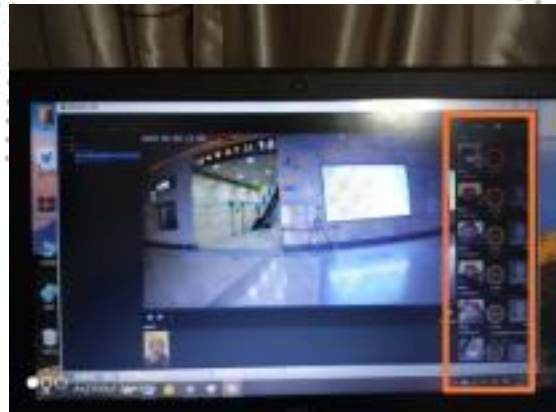
1. Temperature measurement accuracy $\leq 0.3^{\circ}\text{C}$
2. Supports up to 16 targets at the same time
3. Temperature measurement response time $\leq 30\text{ms}$
4. Best distance for measurement: 3-4m

Blackbody



1. Blackbody is a standard temperature source used for temperature calibration
2. When taking temperature measurement, it is greatly affected by environmental factors and it needs to be calibrated in real time through the blackbody

Application Cases for Epidemic Prevention and Control



Typical Application



School



Customs



Hospital



Airport



Station