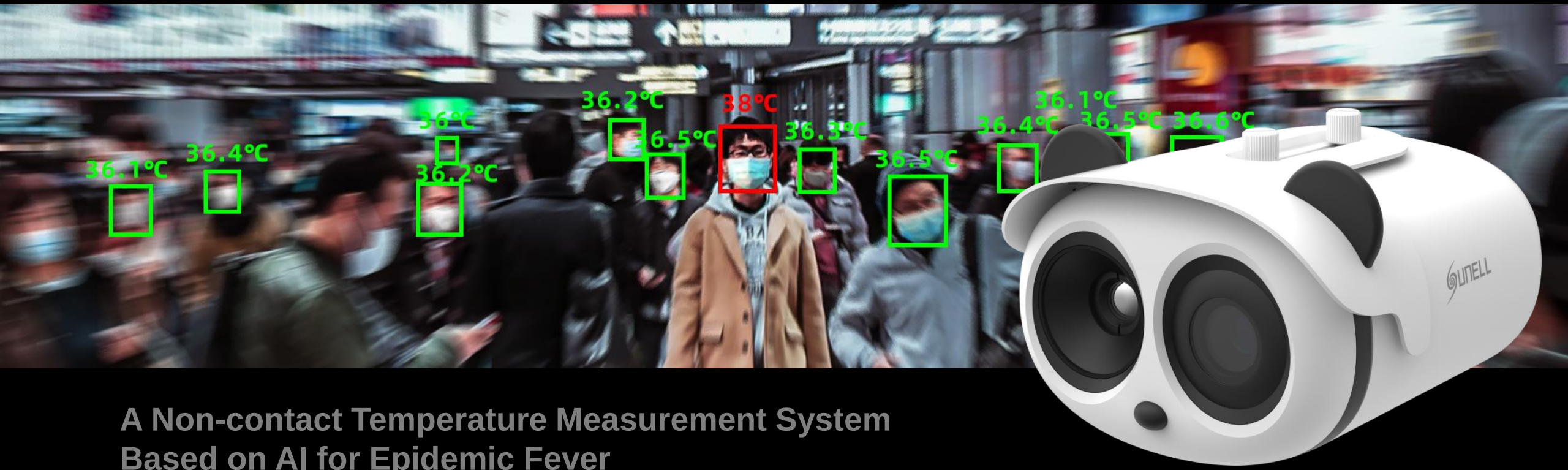
Sunview

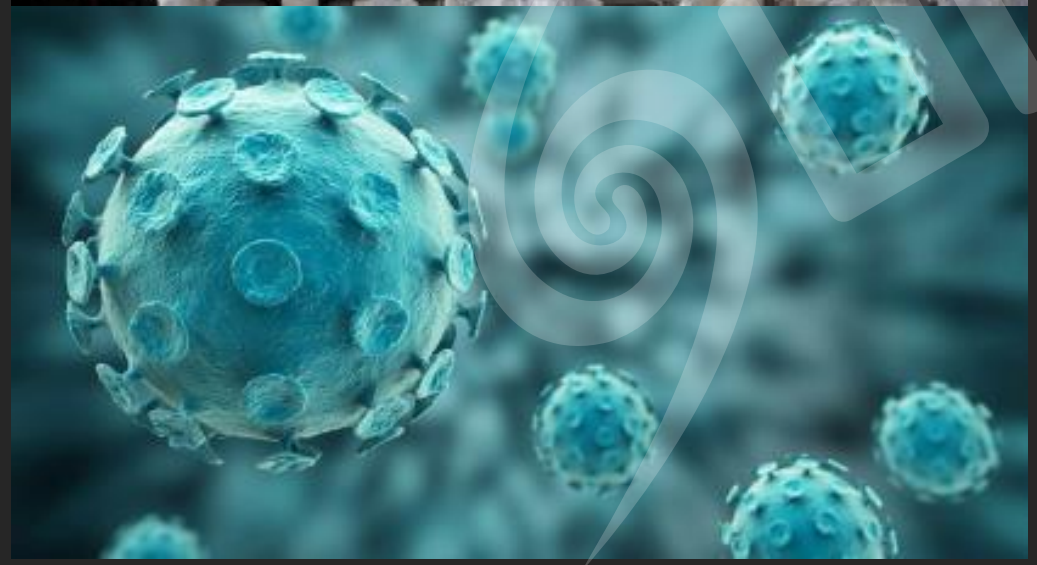
Body Temperature Measurement System



A Non-contact Temperature Measurement System
Based on AI for Epidemic Fever

SUNELL

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

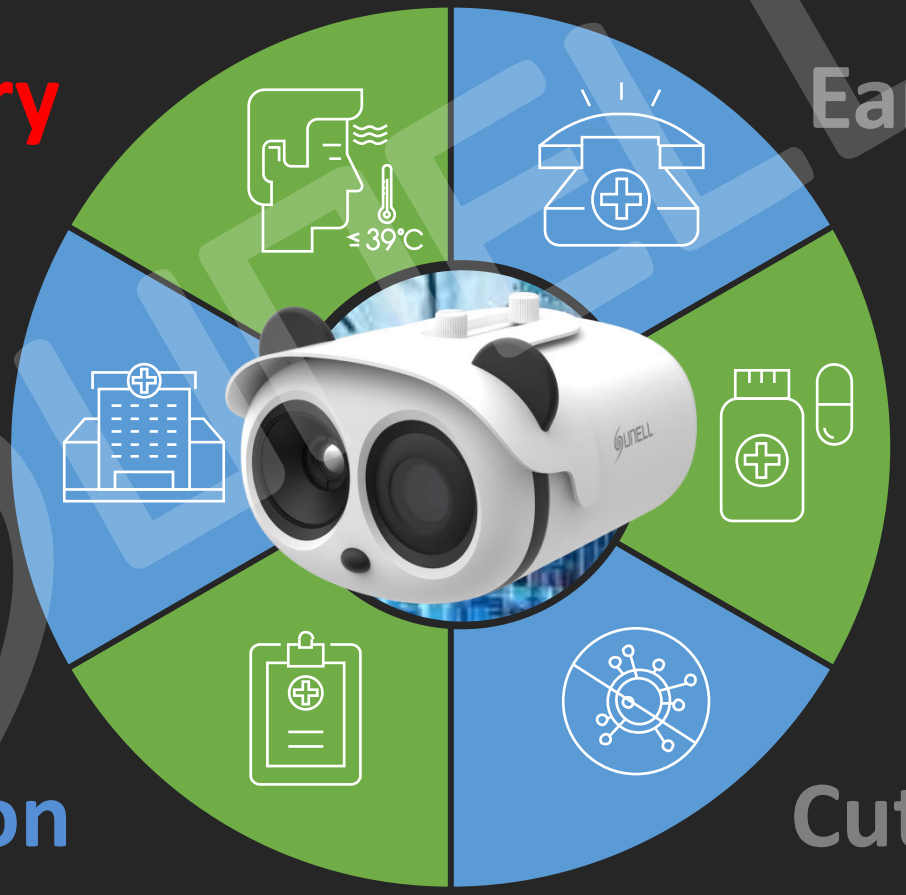
is an important means of epidemic prevention and control

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

Early Discovery

Early Report



Early Isolation

Early Treatment

Prevent Diffusion

Cut off Transmission

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.

China’s Leading 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

≤0.3℃

Temperature accuracy ≤0.3℃

Modified ≤0.3℃ (emissivity, distance, ambient temperature, etc.)

Leading a new era of AI+thermal technology

Advantages Compared to Traditional System

Sunell Body Temperature Measurement System	Traditional Thermometer Temperature Measurement
16 people temperature measurement within 30 ms	Complete 16 people temperature measurement in 16s
Max. 16 people can be measured simultaneously in real-time	Only can simultaneously complete the 1 person temperature measurement
Dynamic real-time continuous detection	Need arrange and irregular measurement
Intelligent automatic temperature detection	Manual temperature measurement

VS

Key Features

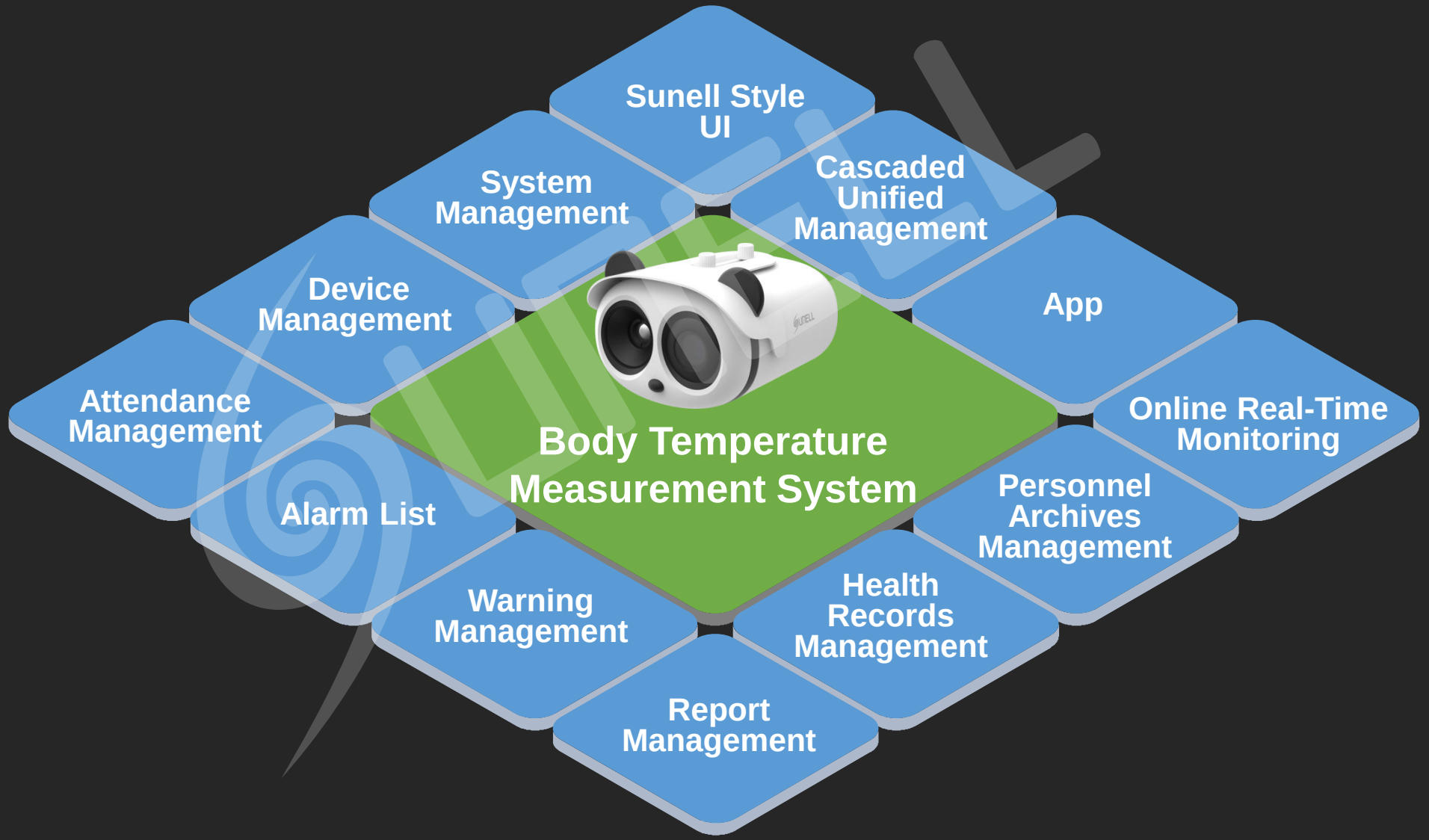
Intelligent Face Recognition Temperature Measure

Over-temperature Real-time Warning

Support Mobile APP

Data can be Checked and Analyzed

Sunell Body Temperature Measurement System



Single Point Applications

Smart NVR

Thermal Camera

Smart NVR

NVR Interface

Sunview

Thermal Camera

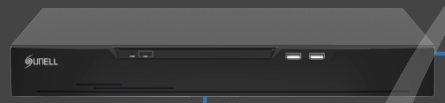
Software Client

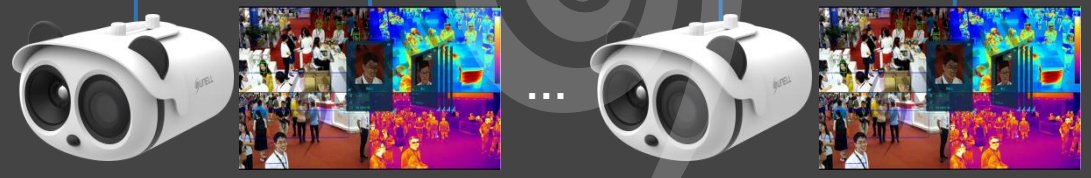
Mini & Medium Scale Applications

Smart NVR

NVR interface

Smart NVR





Thermal Camera

Thermal Camera

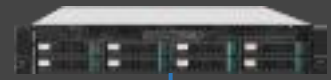
Screen Monitor

Screen Monitor

Sunview

Software Client

Temperature Warning Platform



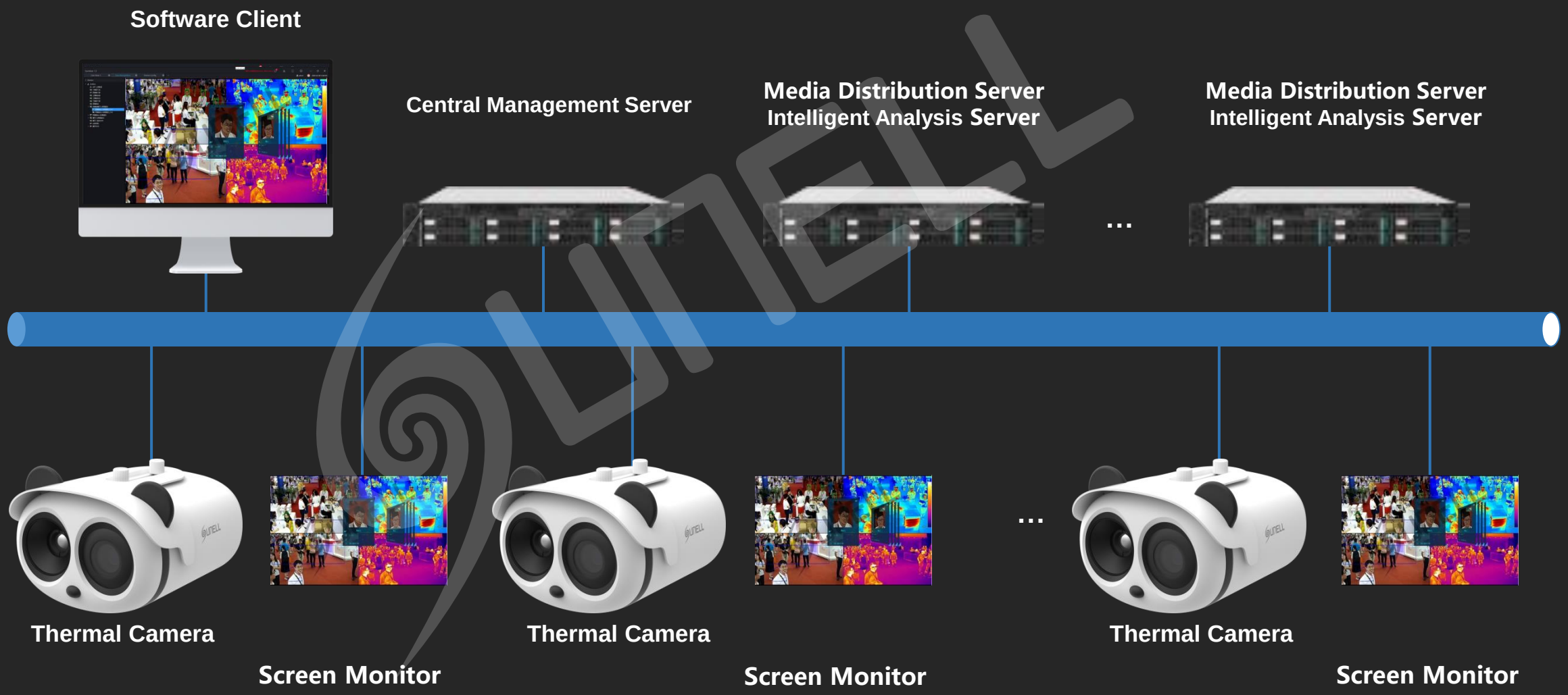
Thermal Camera

Thermal Camera

Screen Monitor

Screen Monitor

Medium & Large Scale Applications

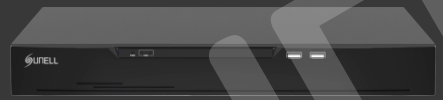


Body Temperature Measurement System- Products

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

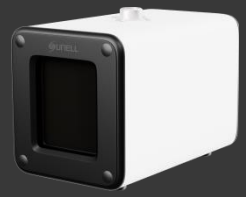


1. Integrated with face recognition
2. Suitable for single-point emergency deployment and small or medium-sized project selection

Thermal Camera

1. Temperature measurement accuracy ≤ 0.3℃
2. Supports up to 16 targets at the same time
3. Temperature measurement response time ≤ 30ms
4. Best distance for measurement: 3-4m

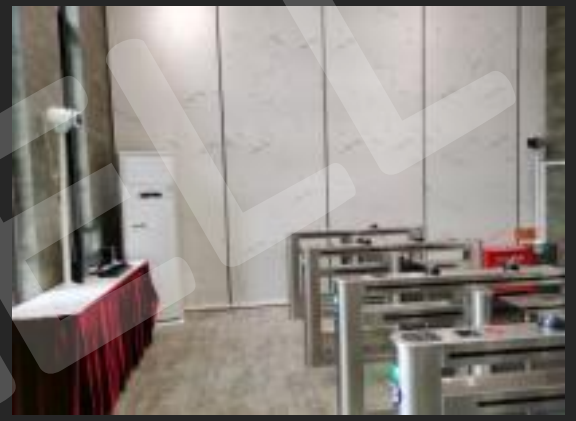
Blackbody



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





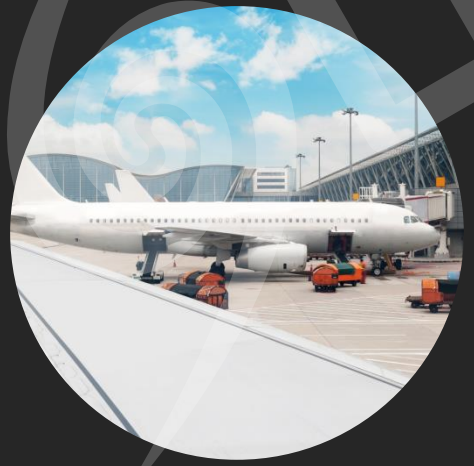



Typical Application

School

Customs

Hospital



Airport

Station