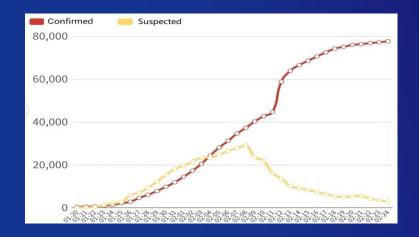


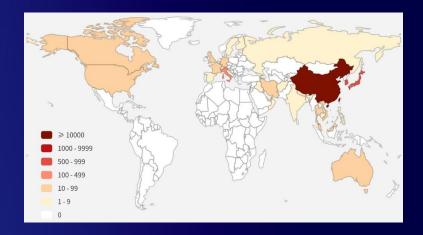
Thermal Body Temperature Measurement Solution

Background



At the end of 2019, a new coronavirus outbreak broke out in Wuhan, China, which is characterized by human-to-human transmission, medical staff infection and community transmission. The disease has spread to China and around the world.





Status Analysis



Human Temperature Measurement





Key Function >

Preliminary Screening

Temperature Record

- Current Status >
- Low efficiency of thermometer and infrared detection gun
- Manual temperature measurement workload, high risk

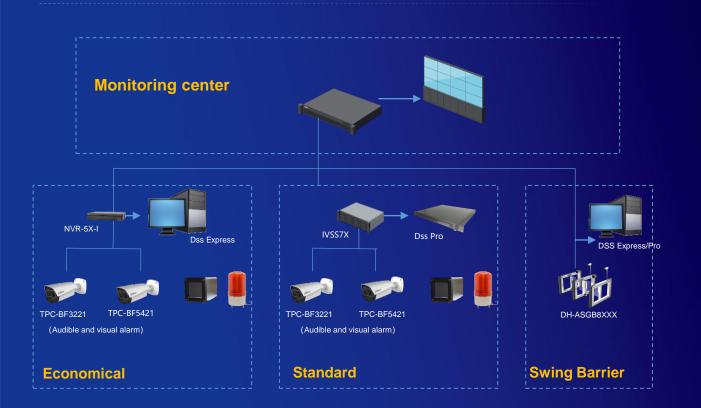
- Manual recording is inefficient
- Personnel information collection is difficult

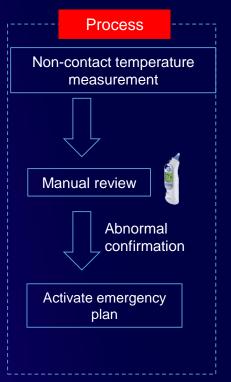
- Requirement >
- Non-contact automatic temperature measurement
- Accurate, fast and multi-person detection

- Record abnormal temperature information automatically
- Collect abnormal personnel portrait automatically

Solution Topology

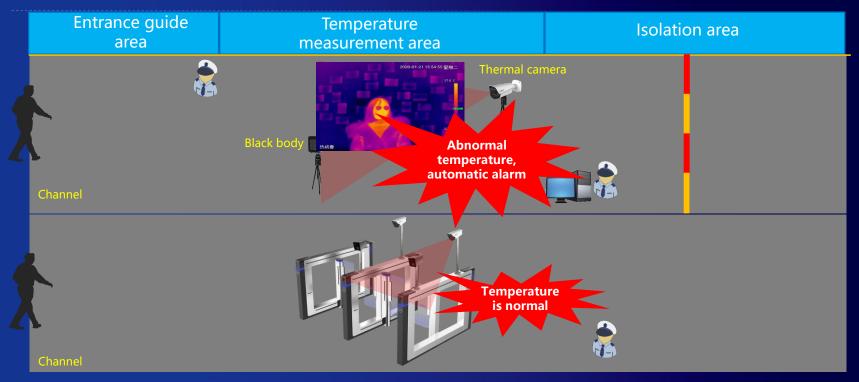






Solution Process





Solution High precision non-contact



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Highly reliable

Adopt the most stable, high value detector, and use blackbody for correction to meet the use of different scenarios

Dual lens intelligence

Visible + thermal algorithm with human body and face detection technology, reduce the false alarm rate

Long distance

Focal length 7.5mm、13mm optional,

Optimum temperature measurement
distance 3m



The video was shot at a project site on February 11, 2020.

Solution Multi-person detection





Temperature measurement speed comparison

5000 person

- Traditional forehead thermometer
 - 3 s/person, total 4.2 hours
- Thermal
 - 3 person/s, total 30 minutes



Solution | Face recognition + mask recognition

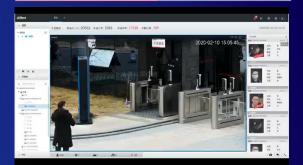




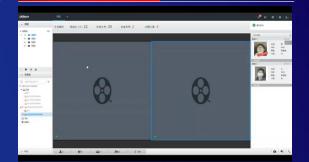
IVSS

Support mask recognition, face temperature measurement, data statistics/report export and other functions

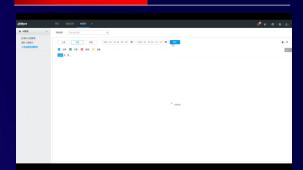
Mask recognition



Face recognition



Data statistics



Report export



Configuration



Temp measurement part

Accessories part

Storage & analysis part

Display part



Blackbody



TPC-BF3221



TPC-BF5421



War W.

Connector





Optional

Products





Thermal Network Value Hybrid Bullet Camera DH-TPC-BF3221

Vox uncooled focal plane detector

Resolution: 256*192

Spectral Range: 8µm~14µm

Thermal lens: 7mm NETD: <50 mK

Visible: 1/2.8 "CMOS, 1080P

Visible lens: 8mm

Alarm: Built-in white light warning light, horn Temperature measurement range: 30°C ~ 45°C, Temperature measurement accuracy: ±0.3°C,

with blackbody

±1°C, without blackbody



Thermal Network Hybrid Bullet Camera DH-TPC-BF5421

Vox uncooled focal plane detector

Resolution: 400*300

Spectral Range: 8µm~14µm

Thermal lens: 13mm

NETD: <40 mK

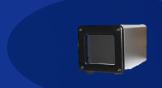
Visible: 1/2.8 "CMOS, 1080P

Visible lens: 8mm

Alarm: Built-in white light warning light, horn Temperature measurement range: 30°C ~ 45°C, Temperature measurement accuracy: ±0.3°C,

with blackbody

Products



Blackbody JQ-D70Z

Working temperature : 40.0°C (environment

temperature +5.0°C~ 50.0°C)
Temperature resolution: 0.1°C

Temperature measurement accuracy: ±0.2℃

(Single point)

Temperature stability : $\pm (0.1 \sim 0.2)$ °C/30min

Effective emissivity: 0.97±0.02

Power: 220VAC 50Hz

Ambient temperature and humidity: 0~40°C/

≤80%RH



Temperature measurement turnstiles DH-ASGB8XXX

Human temperature measurement module:

Temperature measurement range: 30°C∼45°C,

Temperature measurement accuracy:

 \pm 0.3°C, with blackbody

±1°C, without blackbody

Features: face detection, face temperature measurement,

sound and light warning

Turnstiles module:

Pedestal material: 304 stainless steel, thickness 2.0mm

Motor type: Servo motor IR Light Detectors: 30 pairs Lane width: 600mm~1000mm Barrier material: Acrylic glass

Features: face recognition, IC card, qr code, fingerprint and

other optional

Power: AC 100-240V/50~60HZ

Values



High Accuracy

±0.3°C (with blackbody)

High Efficiency

Non - contact temperature detection, quick screening Long distance, wide coverage and multi – person detection

Low Cost

Automatic early warning mechanism, saving a lot of manpower and reduce the risk of cross-infection

Strong Adaptability

Applied to small scenes such as entrances and exits

Large scenes such as airports and railway stations with dense personnel

Dating Back

Realize the historical data backtracking, data analysis and so on combined with the platform

Scenarios



Epidemic Period









General Period







Success Case





Hangzhou metro line 1 adopts Dahua thermal human temperature measurement solution at Hangzhou east railway station, one of the largest transportation hubs in Asia, realizing remote non-contact temperature measurement with high temperature measurement accuracy ($\pm 0.3^{\circ}$).

Success Case





Shanghai railway station

Dahua thermal human temperature measurement solution helps Shanghai railway station, one of the busiest railway station in the world, to realize rapid human body temperature measurement with dense crowds and find people with abnormal body temperature timely.