

SOLUTIONS FOR A SAFER ENVIRONMENT

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2020 was a challenging year with the outbreak of Coronavirus disease 2019 (COVID-19) globally forcing people to adapt to new realities.

While the vaccine campaign has already started, 2021 is a year of hope and the time to persevere. Therefore precautions against Covid-19 will remain in place.

Dahua Technology and KD Electronics have been contributors in the epidemic prevention and control, joining the global efforts in combating the virus to minimize the impact on mankind. Body Temperature Monitoring Solution has been deployed in thousands of sites including transportation hubs, commercial complexes, banks, and other places.

In order to combat the spread of Covid-19 and to protect employees and customers, safety protocols are being put in place.

To address the challenge of social distancing, many public places are implementing restrictions on people flow.

You'll find in this booklet all the solutions that we, at KD Electronics, can offer to prevent the spread of Covid-19.

OUR SOLUTIONS

- 1. Body Temperature Monitoring
- 2. Temperature Monitoring Access Control
- 3. Flow control & People Counting
- 4. TiOC (Face mask detection & audio messaging)



Scenario example



Airports



Stations



Offices



Education



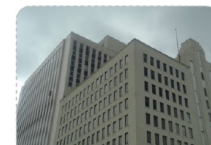
Supermarket



Retail



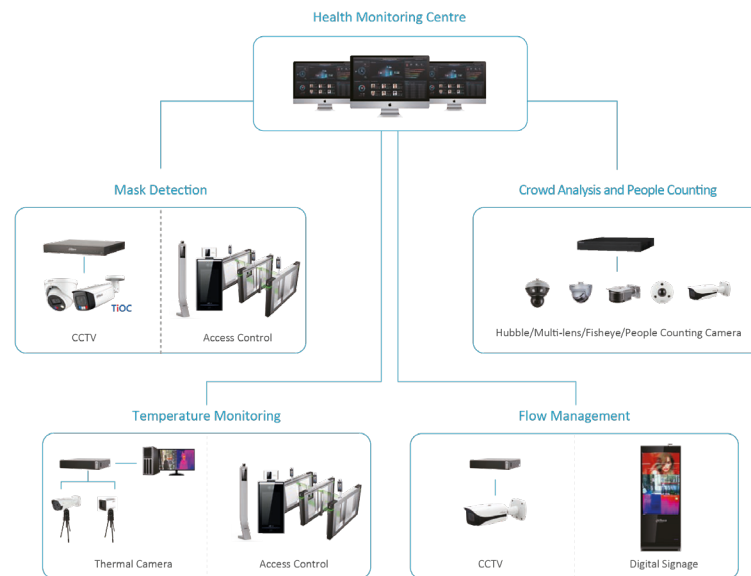
Pharmacy



Public Buildings



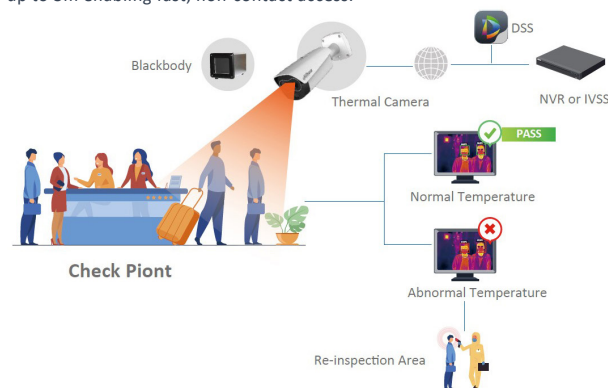
Solution Topology



BODY TEMPERATURE MEASUREMENT

Dahua launches the latest highly accurate body temperature monitoring solution. It is accurate to within $\pm 0.3^{\circ}\text{C}$ using blackbody technology. It also features a built in AI algorithm for multi-person measurements up to 3m enabling fast, non-contact access.

There is an international standard for the accuracy tolerance in the measurement of skin temperature in humans, and it is $\pm 0.3^{\circ}\text{deg}$.



- Accurate temperature measurement, safe and effective
- Non-contact screening, fast pass
- Multi-person measurement, efficient access
- Visual abnormal alert to facilitate back-tracking
- Non-mask detection for the intelligent control

Product kit

3 Series



DHI-TPC-BF3221P-T
THERMAL HYBRID BULLET CAMERA - 11419

Resolution : 256x192 VOx
NETD : $50\text{mK}@f/1.1$
Smart linkage with strobe light & audio
Temperature Accuracy $\pm 0.3^{\circ}\text{C}$ with blackbody
Temperature Range: 30°C to 45°C

NVR5-I Series



DHI-NVR5216-16P-I
IP 16 CH. PoE 4K PRO AI NVR - 10419

8MP
TPC alarm event linkage
Statistical report and export
4 Channels Mask detection
4 Channels Face recognition



JQ-D70Z
BLACKBODY BOX - 11422

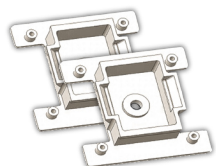
A blackbody / black-box **MUST** be used to meet accuracy standard of $\pm 0.3^{\circ}\text{deg}$



DHL22-L200
21.5" FULL HD & VGA LCD MONITOR - 12100



VCT-999
TRIPOD STANDS x2 - 11420



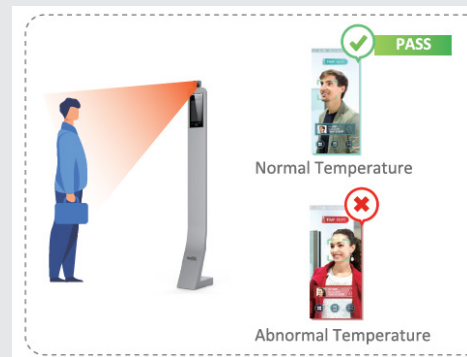
RAW021-00
BRACKET TO TRIPOD - 11421



WD10PURZ
1TB CCTV HARD DRIVE - 4352

TEMPERATURE MONITORING ACCESS CONTROL

FACE MASK DETECTION NOW INCLUDED



THE SOLUTION

- Facial recognition is fully integrated with body temperature monitoring. This means no additional staff is required.
- The solution is contactless, reducing the risk of cross infection.
- Extensive storage of facial images and temperature information enabling easy historical access.
- Fast facial recognition and temperature monitoring reducing access congestion.
- Integration with third party products such as turnstiles and VMS.

Recommended products



DHI-ASI7213X-T
THERMAL FACE RECOGNITION READER - 13176

Wall Mounted
Temperature Accuracy: $\pm 0.3^{\circ}\text{C}$
Temperature Monitoring Distance: 0.3m~0.8m
Sound Prompt : Abnormal temperature alarm



ASF172X-TI
FLOOR STAND BRACKET - 13177



ASF072X-TI
DESK MOUNT STAND - 13179

CUSTOMER FLOW CONTROL

A cost effective solution to control the amount of customers or people in a premises or area.

The solution detects how many people are present in the targeted area and display the figure in real-time. The display will inform the person entering the building if the buildings maximum occupancy has been reached.

Key Points :

- Real-time display at entrance(s)
- Single or multiple entrances
- No extra employees are needed to count customers manually.

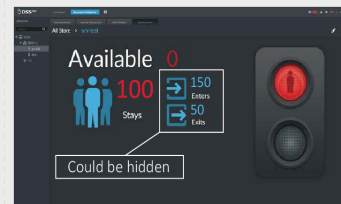


When the number of people inside the store is within the threshold set by the user



Allowed to enter

When the number of people inside the store exceeds the threshold set by the user.



Please wait for a moment, Thanks !

Product kits

Option 1 :



IPC-HDW8341XP-3D
3MP IP AI PEOPLE COUNTING CAMERA - 10166

Multiple network monitoring: Web-viewer, CMS & DMSS
2.8mm dual lens
Max. IR LEDs length 10m
People Counting: Supports line crossing people counting, region people counting
Mounting Accessories (Included): Quick mounting board



LDH22-SAI200
22" WALL-MOUNTED DIGITAL SIGNAGE - 12111



DEA TRAFFIC LIGHT RED/ GREEN LIGHTS 230V - 30005

Option 2 :



IPC-HFW5541EP-ZE
IP AI 5MP V/F BULLET 2.7-13.5mm - 10350

H.265 & H.264 triple-stream encoding
20 fps@2592 x 1944, 50/60 fps@1080 (1920 x 1080)
WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
Multiple network monitoring: Web viewer, CMS & DMSS
2/1 Alarm in/out, 1/1 audio in/out
Max. IR LEDs Length 50 m

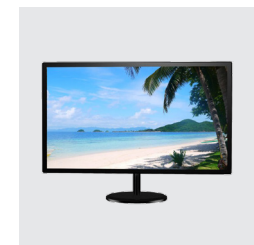


NVR5208-8P-4KS2
IP 8 CH. PRO POE 4K NVR - 10426

Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
Max 320Mbps Incoming Bandwidth
Up to 12MP Resolution for Preview and Playback
HDMI/VGA simultaneous video output



DEA TRAFFIC LIGHT RED/ GREEN LIGHTS 230V - 30005



DHL22-L200
21.5" FULL HD & VGA LCD MONITOR - 12100

FACE MASK DETECTION with TiOC

This solution enables real-time mask and face recognition in public areas, indoor spaces, as well as entrances and exits. At the same time, it also offers real-time voice reminders for people who are not wearing masks, uploads alarms to the platform and shows the result within the dashboard.



Product recommendation



IPC-HDW3549H-AS-PV 2.8MM



IPC-HFW3549T1P-AS-PV 2.8MM



IPC-HDW3549H-AS-PV 3.6MM

OUR CODE:

- 11432 (3.6mm)
- 11431 (2.8mm)



IPC-HFW3549T1P-AS-PV

OUR CODE:

- 11434 (3.6mm)
- 11433 (2.8mm)

notes



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Thermal Technology Solutions

Solutions to prevent the spread of Covid-19