Case Study

Japanese Elementary Schools

Advantech's Infection Prevention Suite and Occupancy Counting Solution were deployed in several elementary schools in Japan to facilitate a health check-in process. With the inclusion of self-service functionality, these solutions enabled easy visitor temperature screening and occupancy monitoring even during peak times.

Japanese Chain Hotel

To improve visitor temperature screening, a well-known hotel chain in Japan implemented Advantech's Infection Prevention Suite. Equipped with AI facial recognition technology, the screening solution was also used to augment guest services with the addition of a VIP guest detection function.

Hospital in Taiwan

A Christian hospital in Taiwan adopted the self-service thermal screening system of Advantech's Infection Prevention Suite to eliminate the need for staff to conduct manual temperature screening and identity registration. By digitalizing the visitor admission process, the risk to staff was reduced, which increased both patient and staff satisfaction.

Product Packages

Infection Prevention Suite
Self-Service Thermal Screening

	Advantech Part Number
I. App	Thermal Screening Connect
Thermal Kiosk	USC - 130UIPL - G1E - C
Thermal Screening Sensor	ASK - TMSR - RPOS - 0003
Accessories	USC - A - STAND - 1

Infection Prevention Suite
One-to-Many Thermal Screening

	Advantech Part Number
I. App	Infection Prevention CMS
Thermographic Camera	UCAM - 220TT - U11
Visitor Thermal Screening Manager	UBX - 310UIP - S1E - C

ADVANTECH iCity Services

Advantech iCiity Services
Unleashing the infinite possibilities of smart cities

No.27, Wnde Rd., Guishan Dist., Taoyuan City 33371, Taiwan

886-2792-7818 ext. 2585

rose1.chen@advantech.com.tw

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Infection Prevention Suite

Manage Contagion Risk in Indoor Spaces

Key Features

- Accurate thermal screening (± 0.5°C)
- Comprehensive event record of potential risks
- Contactless screening with self-service functionality
- AI face detection
- Abnormal event warnings

Challenges in Visitor Body Temperature Management

High contact risks

Manual temperature screening expends time and manpower and does not reduce the risk of contact.

High rate of inaccurate reporting

Need to keep eyes on the screens at all times, disrupting the high temperature of normal coffee and lunchbox patterns.

Crowd control difficulties

Measures for large gatherings are prone to blind spots, difficult to track symptomatic visitors.

Solution Highlights

3-steps
Complete setup
within 15 minutes

Plug-and-play
Rapid installation with
User-friendly operating interface

Intranet available
Eliminating complex
Internet enshrinement set-up

Step 1
Thermographic camera set

Set up the camera at the venue

Step 2
Thermographic camera configuration

Set up notifications to capture facial images and thermal screening

Step 3
Thermal screening manager setting

Connect the camera and set up the thermal screening manager

Product Highlights

Contactless Self-Service Thermal Screening

A convenient tool for contactless thermal screening. Moreover, the solution supports both self-service and multi-person temperature screening to facilitate reliable temperature measurements during peak periods.

Accurate Face Detection

Support AI-based face detection to enable identity recognition and contact tracing. The solution can also be configured to support employee, VIP, and blacklist detection for superior visitor access management.

Precise Temperature Measurement and Mask Detection

Support rapid thermal screening and mask detection of up to 30 people simultaneously. To ensure reliable infection control, thermal measurements with 95% accuracy can be taken even while wearing masks.

Visitor Identity Registration

Thermal screening can be combined with visitor identity registration and independent health declaration processes to streamline administrative workflows, ensure regulatory compliance, and enhance visitor safety.

Solution Scenarios

Self-service thermal screening

- Ideal for entrances to enclosed spaces
- Self-service thermal screening kiosk
- Can be combined with visitor identity registration and health declaration processes

One-to-many thermal screening

- Ideal for common reception areas and public spaces
- Supports face detection and thermal screening of up to 30 people simultaneously
- Reliable detection at a distance of 1.5 ~ 2.5 m

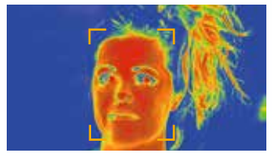
Software Features

Thermal Screening Connect

Individual temperature metric

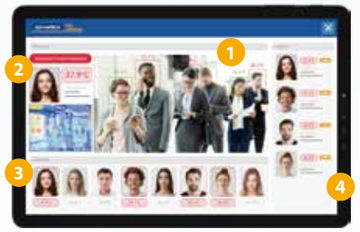
Immediate warning of visitors showing elevated temperatures who are not wearing a mask

Visitors scan a QR code to complete a questionnaire



Thermal screening mode switching

Infection Prevention CMS



1. Supports the simultaneous display of multiple visitors' temperatures
2. Immediate warning of visitors showing elevated temperatures who are not wearing a mask
3. Facial snapshot of the latest visitor including their thermal screen metric
4. Visitor history is available for viewing and visitor identities can be customized (as employees, VIP visitors, new visitors, or blacklisted)

Dashboard function allows checking the event statistic summary and event trend analysis by day/week.

Event investigation function able to search multiple cameras record/playback by event and export the events.