

# VINDICO

BETTER BUSINESS THROUGH BETTER IDEAS

## Fever Screening Station

Supporting a safer return to work

### Proven established technology ready for rapid deployment

Hikvision's advanced Fever Screening Thermographic Cameras\* are designed to detect elevated skin-surface temperatures with accuracy up to  $\pm 0.5^{\circ}\text{C}$ .

This station can be used for rapid and preliminary fever screenings in:



Offices



Factories



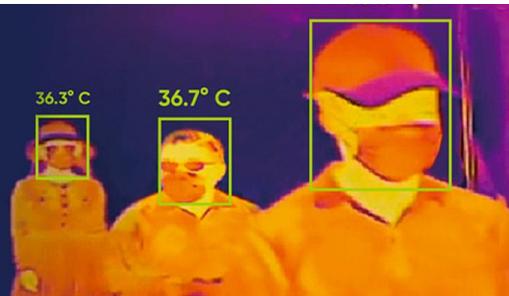
Stations



Airports

It takes just one second to detect the skin-surface temperature of a person and can scan multiple individuals simultaneously and up to 30 people per second.

### Screen for fevers or alert if visitors are not wearing masks in line with your access strategy



### Key benefits of the Vindico Fever Screening Station

- Provide peace of mind to staff, clients and visitors that steps are being taken to minimise the risk of spreading Covid-19
- Standalone system requires no onsite IT Support or connection
- **Optional Mask detection** – in line with your companies policy.
- Full support available for HR and access strategies through our Human Factors Partner K Sharp
- Visual and Audible Alarms
- Minimal operator training required – Intuitive Use
- Vindico Remote Support via built in 4G or supplied wi-fi connection



Powered by: **HIKVISION**

Life Is On

**APC**  
by Schneider Electric

intel  
inside

\*This is not a medical device

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Official Human Factors Partner:



## What Is Elevated Temperature Screening?

### Definition of Screening

Screening is a way of finding out if people are at higher risk of a health problem. In this case at a higher risk of having a fever which is a symptom of the Corona Virus.

### Principle

To keep anyone out of entering the main areas of a building who has a skin temperature over 37.5°C. This is to protect staff and visitors as well as to avoid the costs of having to sanitise a complete building.

### Application

Testing of elevated skin temperature at the point of entry of all commercial, retail, education and public spaces.

### Advantages

**High Efficiency:** Individual screening can be made quickly and requires a low skill level from operators.

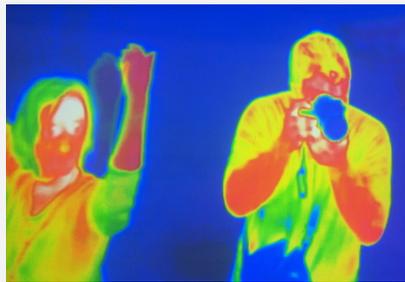
**Safety:** Thermal cameras feature non-contact temperature measurement from about two meters away, avoiding unnecessary physical contact, maintaining social distancing guide lines.

## What Is Thermal?

### Principle

Any object with temperatures above absolute zero emits a detectable amount of radiation.

A thermal camera converts IR radiation into grayscale values and matches grayscale values to temperature values through an algorithm model.



### Application

Thermal cameras with high temperature accuracy can help detect elevated skin surface temperatures which may indicate the presence of a fever. Thermal cameras can be used for the fever screening of travellers, shoppers, and office workers.

### Advantages

**High Efficiency:** It takes only one second for a thermal camera to detect temperature of a person, thus allows screening of large numbers of people at a time.

**Safety:** Thermal cameras feature non-contact temperature measurement from about one meter away, avoiding unnecessary physical contact.

## Advantages of Thermographic Screening Solutions

### AI Human Body Detection

Hikvision Bullet/Turret Fever Screening Thermographic Cameras feature AI human body detection to fix the measurement areas to human bodies, thus reducing false alarms caused by other heat sources.

### Embedded Audio Alarms

With a built-in audio module, Hikvision Bullet/Turret Fever Screening Thermographic Cameras can trigger alarms to notify operators immediately when a person with a fever passes by.

### Unique Self-developed Algorithm

Benefitting from Hikvision's self-developed temperature measurement algorithm and big data obtained by lots of cases, the accuracy of temperature measurement is highly reliable.

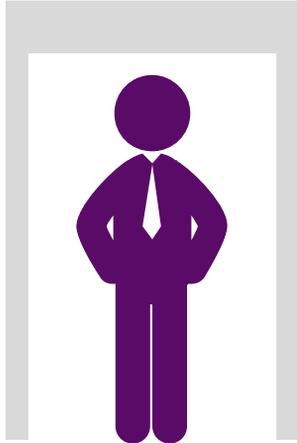
### One-Stop Solution

The Vindico Rapid Deployment Elevated Temperature Screening Station can be up and running in 90 minutes. Minimizing the time onsite by external contractors and without damaging the fabric of the building.

### Accuracy

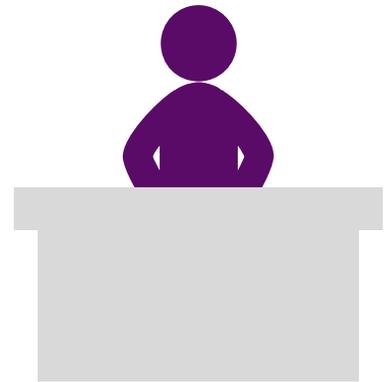
This solution is accurate to  $\pm 0.5^{\circ}$  C

## Manned Station (Workflow Example)



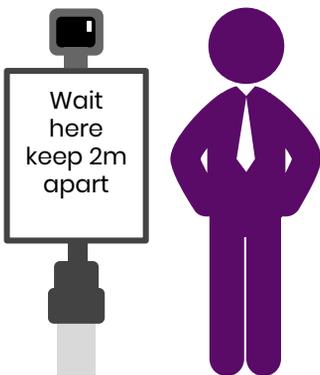
### Security Gate

Staff or Visitors enter via designated entrance.



### Security Desk

Security desk located to the side of the Temperature reading station to deal with those whose temperature reads too hot



### Temperature reading station

Temperature reading station placed far enough away from security gate to allow those who are too hot to leave the queue without disrupting the flow through the gates.

## Unmanned station (Workflow example)



### Control Building Entry Point

1 Second Screening of Forehead Skin Temperature placed at building entry



### Outcome A

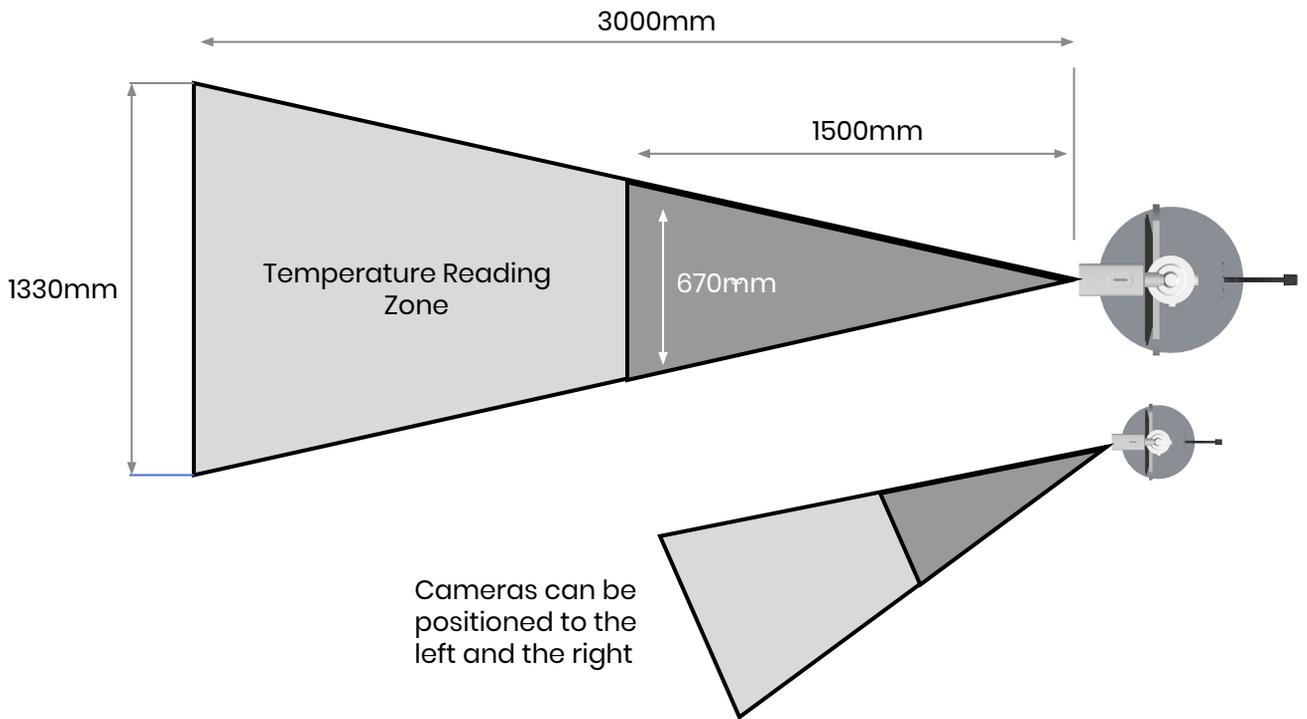
If reading is below 37.5 you will be able to enter the building



### Outcome B

If reading is above 37.5 a visual & Audio alert will be generated and you will continue with the agreed company specific process

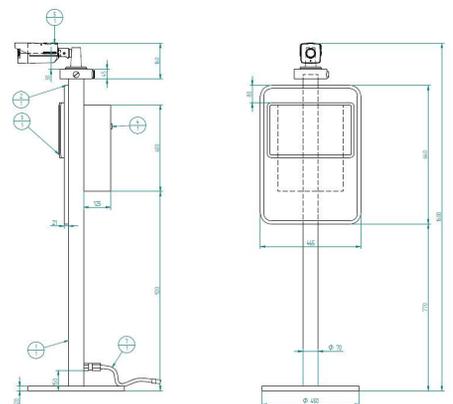
**Screening Area Layout**



Temperature readings are only available within the green zone. Zone dimensions are Length 1500mm x 670mm x 1330mm.

Readings can be taken 1.5m from the camera lens.

**Not to Scale.**  
**Proportionally correct**  
**Dimensions in Millimetres**



## Getting the process and policies right

Vindico have partnered with Human Factors experts K Sharp to ensure the perfect delivery of our Fever Screening platform in to your access strategy.

K Sharp is a Human Science Research and Human Factors Consultancy. They are one of only 45 consultancies in the UK assessed and registered with the Chartered Institute of Ergonomics and Human Factors.

**Putting people first** when considering how we tackle COVID-19 and bringing your staff and visitors along with you on your journey.

Individual monitoring, if not engaged with in a thoughtful way, could be seen embarrassing and demonising, therefore we will advise on how to engage with your staff so they see this as a tool that is as much for them as much as it is for the business. That way, the business retains a healthy and confident workforce, whilst being able to give early indications to those who may be in early stages of COVID-19 and help them isolate and get tested where practicable.



## Best practice guidance

We will provide guidance and support to ensure that the deployment of our product is an embedded part of your **COVID-19 solution**, and not just seen as a bolt on. We will advise not only on technical aspects, but also advise on cultural and behavioural aspects that need to be taken into consideration.

We will map your staff and visitor flow through the entrances that you deploy the product and give an initial proposal on how you can get maximum engagement, including recommended signage and walkways.

Specific Concerns we would want to assure your staff and visitors of:

- No personal data is retained about any individual
- No photographs are taken or retained
- **GDPR** is fully respected and adhered to
- That their health and wellbeing is first and foremost, because their health ensures we have an ongoing and successful business/capability

We can provide specific guidance sheets or videos for:

- **Reception/Security** staff who will need to engage with those utilising the equipment
- **Staff** – A guidance flyer that can be used to communicate how the system works and what to expect when they return to work.

## FAQ

### Q: Does it connect to the IT Networks?

A: No the system is a standalone requiring no support for the IT department so no network connection is required

Yes if you want it connected to the network we can do this with your IT department.

### Q: how much training is required?

A: We have designed the system to be a hands-off solution. The system automatically monitors the temperature and generates alarm. An operator is only required to guide people through the system and manage events if alarm is generated.

### Q: does this record images?

A: As this is a screening solution, we have designed the system not to record images.

### Q: Will this stop people with Covid 19 coming on to the Site?

A: No. A high temperature is a possible symptom of Covid 19 and we are providing a solution to screen for a raised temperature only this is not a medical device.

### Q: Why do you need this?

A: To provide peace of mind to all visitors and staff that you are doing everything possible to minimise the spread of Covid-19 and provide a safe working environment..

### Q: Can the fever screening thermographic camera be installed outdoors?

A: Outdoor wind and sun can easily affect the surface temperatures of human bodies and the working status of the camera, which results in a deviation between the measured skin surface temperature and the actual body temperature.

To ensure the accuracy, we strongly recommend applying the solutions indoors.

### Q: Can the camera detect multiple faces for temperature measurement

A: Cameras supports up to 30 persons at a time. But still we recommend to carry out temperature measurement person by person in line with current government distancing policies..

### Q: Will other heat sources (such as tea cups, kettles, etc.) cause false alarms?

A: The cameras are able to use face detection technology, so other heat sources will not cause false alarms.

### Q: When can I use the fever screening function after a camera is turned on?

A: The cameras need to be warmed up before using. Turn them on and wait for 30 minutes (bullet / turret camera). To ensure continue operation we have designed the system to run 24/7 with additional backup batteries in case of temporary power loss.

*“Brief your employees, contractors and customers that if COVID-19 starts spreading in your community anyone with even a mild cough or low-grade fever (37.3 C or more) needs to stay at home. They should also stay home (or work from home) if they have had to take simple medications, such as paracetamol/acetaminophen, ibuprofen or aspirin, which may mask symptoms of infection.”*

**SOURCE: World Health Organisation (WHO)**



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Contact us on:

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