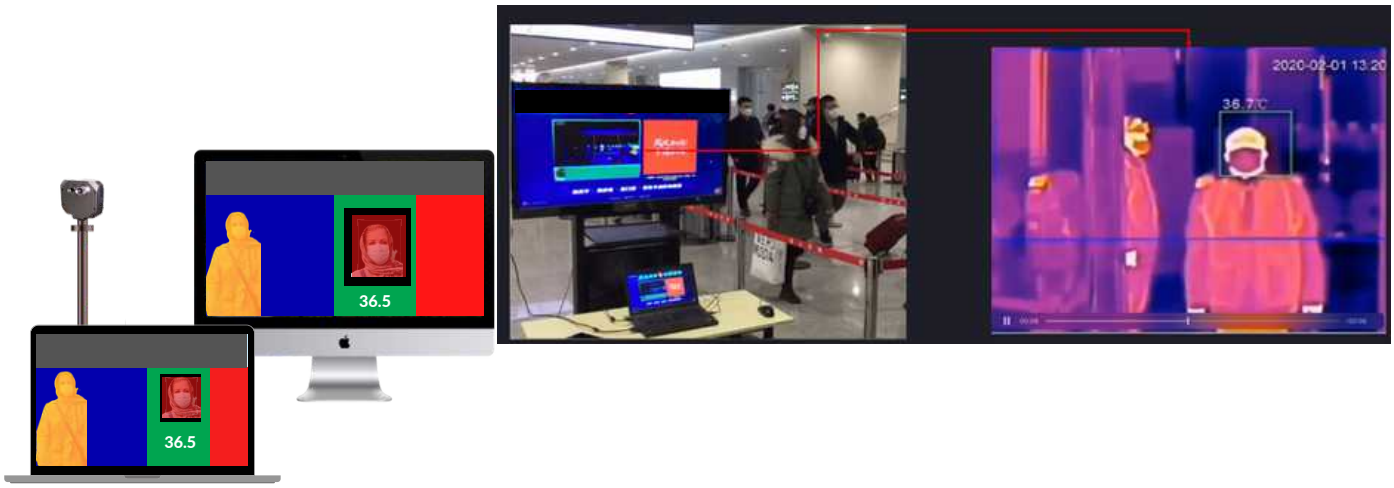
ITDS-200

VENTILUX
Lighting the path to safety together

Historical lessons have taught us that early detection of elevated body temperature is a fundamental first step toward identifying people who may be ill. However traditional front line methods of temperature detection are slow and also increase the risk of close contact monitoring increasing the risk of cross infection.



The ITDS-200:

An unobtrusive remote mass screening intelligent body temperature detection system using the latest sensor technology.

Can easily be deployed at entrances to public buildings and remotely scan forehead temperatures for multi entrants.

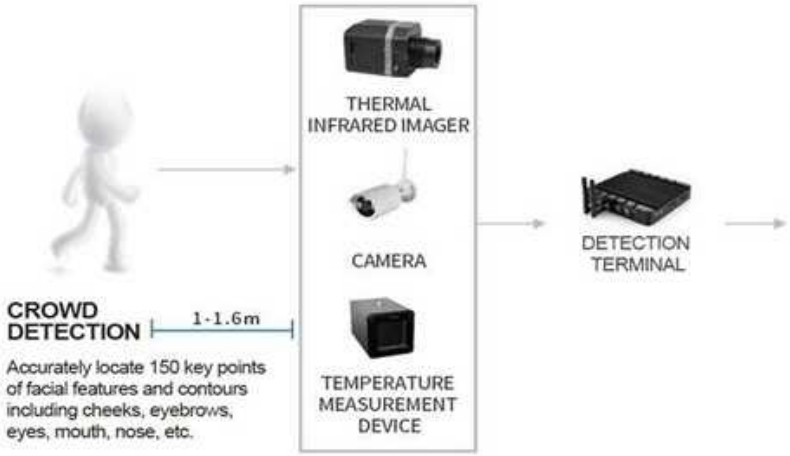
Non-contact and non-invasive the ITDS-200 offers real time intelligent identification and tracing of people with abnormal temperatures.

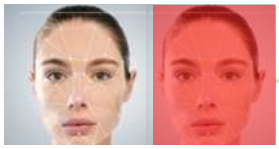
The ITDS-200 can detect and process the forehead temperature for up to 200 individuals within a **temperature accuracy of 0.5C**

VENTILUX
Lighting the path to safety together

ITDS-200

Long range temperature detection has historically been plagued by false negative readings with individuals wearing hats, scarves or masks. The ITDS-200 system overcomes this problem with advanced AI intelligent temperature detection.





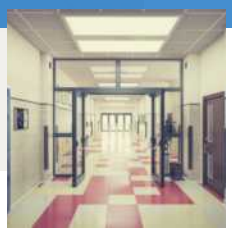
FACE DETECTION
By integrating technology of AI detection (face detection/body trace) & infrared thermal imaging, to build rapid temperature measurement solution.

INFRARED IMAGING IN LARGE SCREEN
It will alarm automatically when abnormal temperature is detected, then inspectors can conduct a further inspection with such abnormal case, to improve inspection efficiency.

TEMPERATURE MEASURAMENT AND ALARM	Temperature range	28-45°C
	Temperature accuracy of measurement	0.5°C (body temp. 33-40°C) 1°C (body temp. out range of 33-40°C)
	The distance of measurement accurate temperature	1-2m
	Area of measurement	Support full screen or 6 areas for temp. measurement, independent alarm setting
	Temperature measurament shield	Support shielding the temp. for a certain area
	Abnormal temperature alarm	Support abnormal-temp.alarm and detect time-range setting.
INFRARED THERMAL IMAGING PARAMETERS	Sensor type	Uncooled vanadium oxide (VOX) detector
	Maximum image size	160x120
	Pixel size	12 µm
	Response wave band	8-14 µm
	NETD	<50 mK (0.050°C)
	Field angle	57°x44.3°
	Focus	fixed-focus
	Color palette	Allite red, rainbow, white heat, black hot etc, total 18 colors
	Size (LxWxHmm)	95mmx88mmx40mm







VENTILUX
Lighting the path to safety together

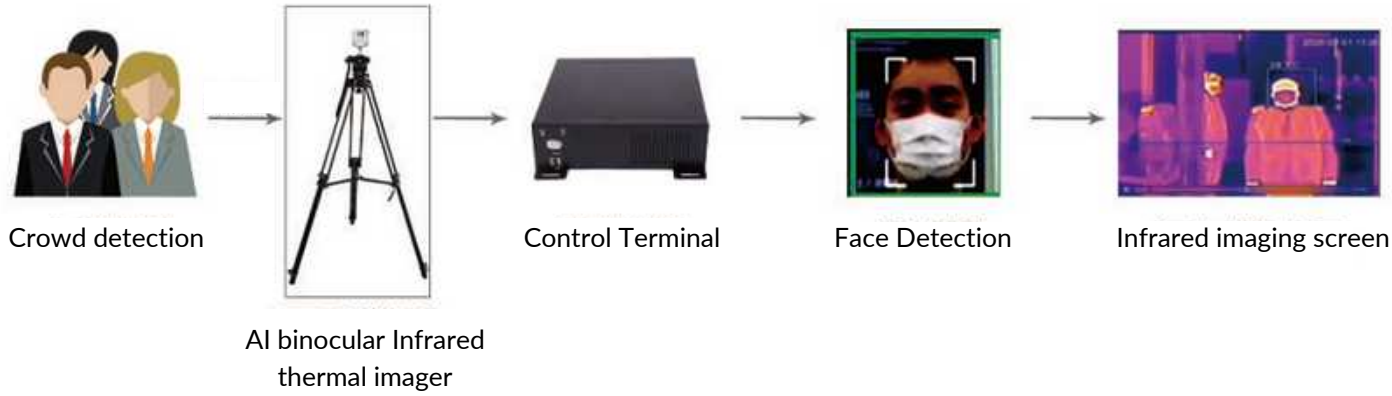
ITDS-200

This means the system takes **multiple temperature readings** and detection is determined by these key point measurements using an infrared temperature lattice analysis algorithm of the image. The system is able to detect the person's forehead temperature in a certain area, even if wearing a hat, scarf or mask.

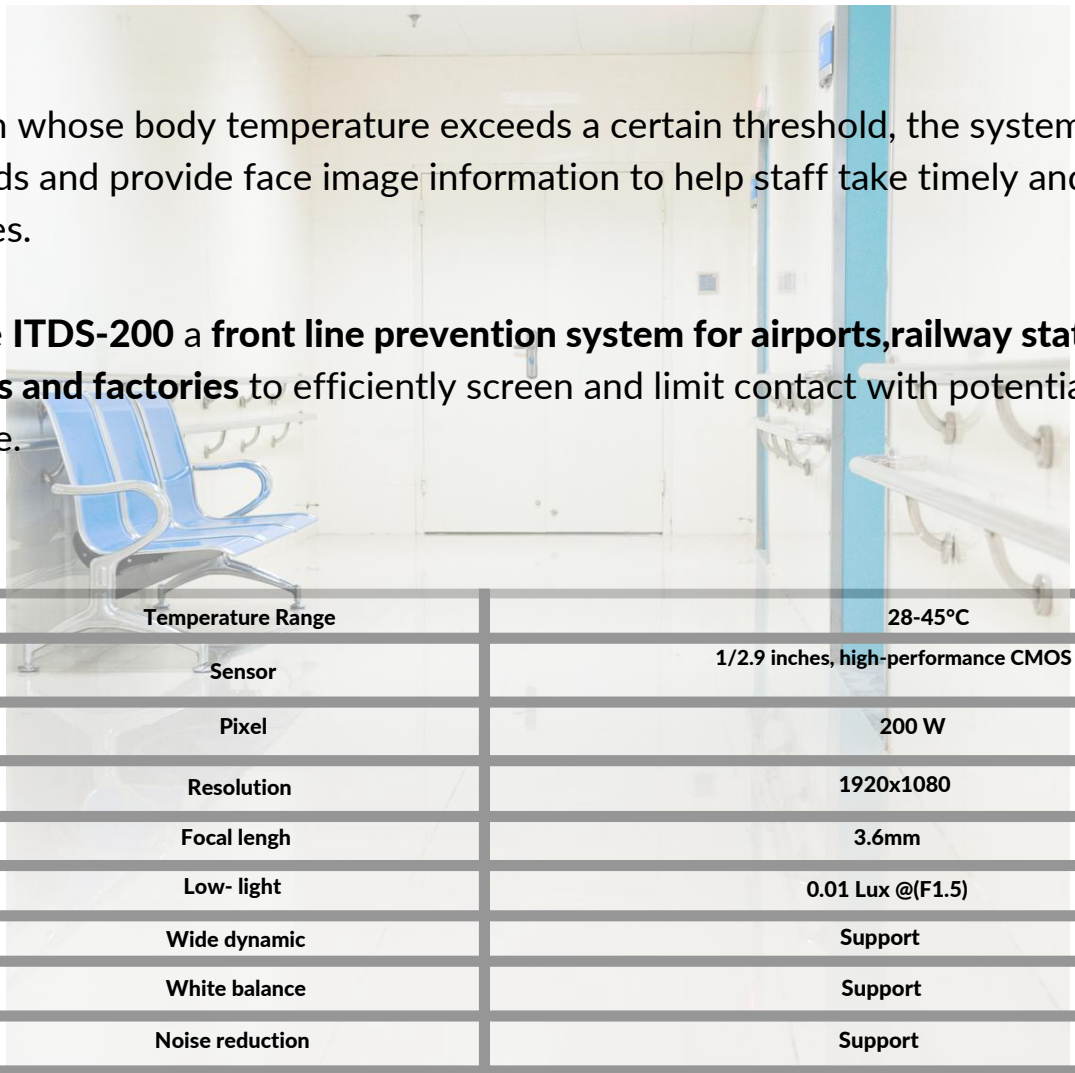
Long range temperature detection has historically been plagued by false negative readings with individuals wearing hats, scarves or masks. The ITDS-200 system overcomes this problem with advanced AI intelligent temperature detection.

AI infrared binocular thermal imaging system supports remote connection browsing and centralised management software through a PC or Laptop. The collected temperature data information is transmitted to the back-end monitoring management for storage for further analysis and traceability through a non/wired network.

System framework of AI infrared binocular thermal imaging system



ITDS-200



When a person whose body temperature exceeds a certain threshold, the system will issue alerts in seconds and provide face image information to help staff take timely and effective safety measures.

This makes the **ITDS-200** a **front line prevention system for airports,railway stations, schools, offices and factories** to efficiently screen and limit contact with potentially infected people.

Temperature Alarm	Temperature Range	28-45°C
VISIBLE LIGHT PARAMETERS	Sensor	1/2.9 inches, high-performance CMOS
	Pixel	200 W
	Resolution	1920x1080
	Focal lengh	3.6mm
	Low- light	0.01 Lux @(F1.5)
	Wide dynamic	Support
	White balance	Support
	Noise reduction	Support
	Zoom (optical/digital)	Fixed-focus
	Focus	Support
	Fill-in light	Support
IMAGE	Max. image size	1920x1080 (visible light) 160x120 (thermal imaging)
	Video output	Support PAL/NTSC
	Main stream image (resolution/frame rate)	Visible light: 1080P/720P settable Infrared: 640*480
	Second stream image (resolution/frame rate)	Visible light: D1/CIF Infrared: VGA640*480/QVGA320*240
GENERAL SPECIFICATIONS	Communication interface	RJ45 10M/100M adaptive
	Working temperature	10-45°C (optimum working temperature 16-32°C)
	Working humidity	EC 60068-2-30/24h 85% relative humidity
	Power supply	DC12V (9-14V)
	Size (LxWxHmm)	95mmx88mmx40mm

VENTILUX
Lighting the path to safety together

IDA Business Park
Southern Cross Road,
Bray, Co.Wicklow, A98 T276

+353 (0)1 214 8800
orders@ventilux.ie
WWW.VENTILUX.COM