



Non-Contact
Temperature
Screening Imager

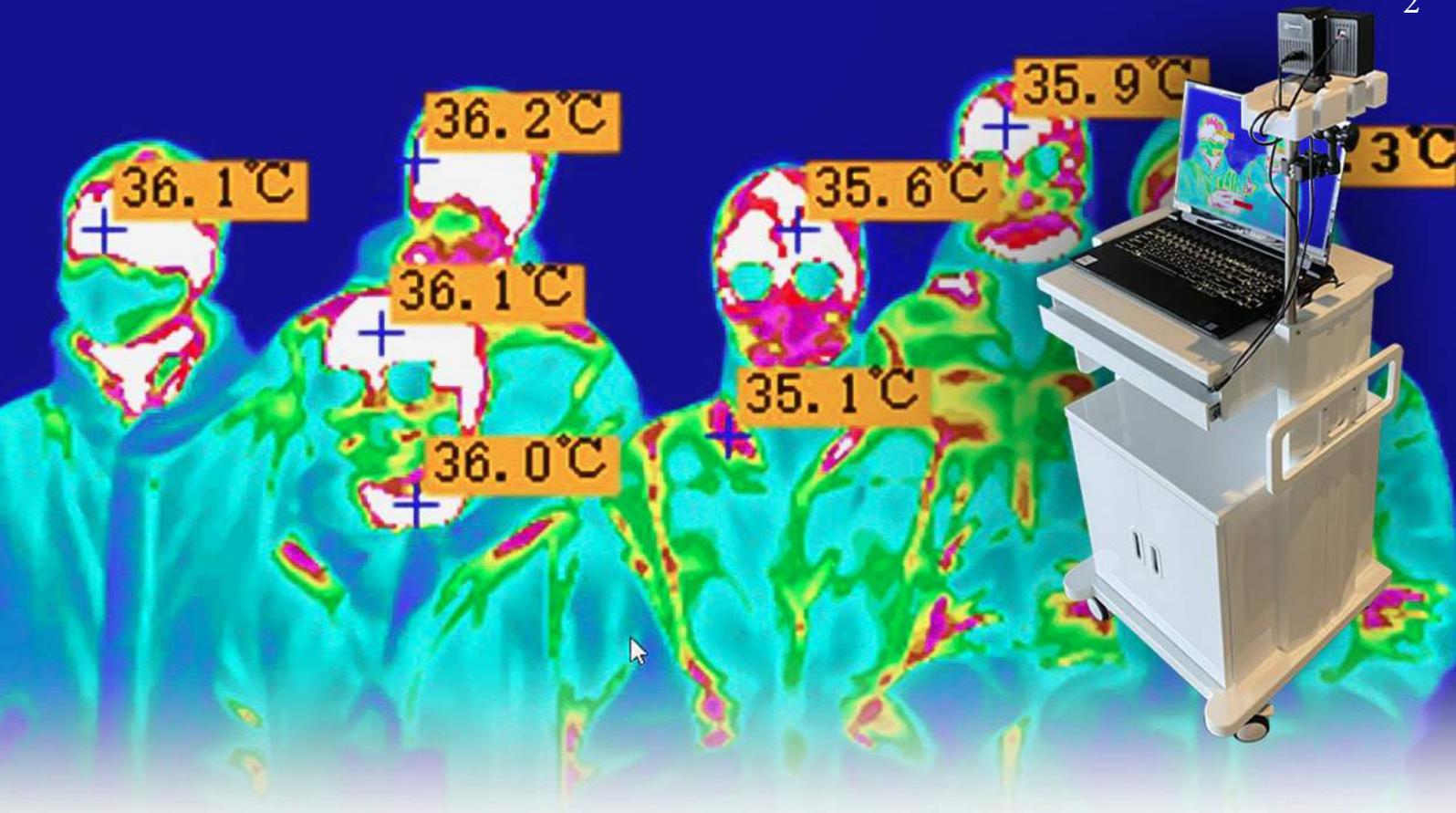
NON-CONTACT HUMAN TEMPERATURE SCREENING TECHNOLOGY



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Product Introduction

Helping to prevent the spread of **Covid-19** is key. Thermal imaging cameras are effective prescreening devices. The non-contact intelligent thermal imaging technology detects elevated body temperature, which could be indicative of a fever, one of the first symptoms of **Covid-19**.

The Intelligent Thermal Imager (**ITI**) is mainly used in areas such as **railways stations, subway stations, airports, hospitals, factories, shopping malls, supermarkets, long-term care facilities, hotels, schools, universities, stadiums, Pharmacies** and other public places with sizable floating populations or essential personnel.

Having the capability to efficiently identify elevated body temperature quickly and in compliance with physical distancing regulations, will greatly reduce opportunities for the virus to spread, thereby protecting workers, public health and safety.

The device resembles a video camera and can automatically detect the body temperature of the person in its path. The software is configured to trigger an automated audible alarm to any temperature over a preset threshold. This information is transmitted to the central control system.



Human Temperature Screening Application



Supermarkets



Subway Stations



Airports



Hospitals



Factories



Hotels



Railway Stations



Shopping Malls



Schools



Stadiums



Non-Human Contact Temperature Screening Technology

- **400+ people/minute**
Capture rate of **400** people per minute vs traditional handheld thermometer devices
- **0.5 seconds - Auto Alarm**
Quick recognition when abnormal body temperature is detected by the system. An automatic alarm will alert within **0.5** seconds
- **16.4ft Temperature measuring distance**
Protects employees/clients by detecting a temperature reading from a safe distance. The DUO400 has effective range between **3ft - 16.4ft.**
- **> 99% Accurate**
The forehead temperature can be measured accurately using artificial intelligence (**AI**) face-detection algorithm, which has the capability to recognize personnel even if they're wearing a mask or hat.
- **High precision technology**
No Blackbody is required with the DUO400



DUO400 Technical Parameters

Dual-Vision Temperature Screening Technology

THERMAL DETECTOR

Detector:	Uncooled
Resolution:	400*300
NETD:	<40mk
Spectrum Range:	8-14um
Pixel Size:	17um
Frequency:	50Hz

LENS

Focal Length:	0.385 Inches
FOV:	37.1° x 28.1°

VISIBLE LIGHT

Resolution:	1920*1080
Lence:	0.181 Inches
FOV:	90°

PERFORMNCE

Measurement Range:	32F to 140F
Measurement Accuracy:	±32.54F
Measurement Distance:	1.54ft to16.4ft (Typical 7.2ft)
High Temperature Alarm:	Pop-up alarm, audio alarm
Preview Mode:	RGB/Thermal
Historical Data:	Yes
Facial Recognition:	(AI) Smart human face recognition & tracking system
Capacity:	>400 people/minute
Power Supply:	USB x 2 (5V DC)
Date Output:	UVC (USB Video Class)
Control Connector:	USB

ENVIRONMENTAL

Working Temp:	14F to122F
Storage Temp:	-4F to 149F



Precautions

- It is recommended to use the equipment in an environment of **60.8F to 89.6F**.
- The IR thermal radiation cannot penetrate through glass.
- Before the screening begins, the power supply of the equipment should be turned on at least **30** minutes in advance for preheating prior to screening.
- In order to offset the changes in body surface temperature caused by changes in ambient temperature, the equipment must be calibrated. Calibration after preheating consists of testing the temperature of 2-4 asymptomatic persons and, setting the temperature to **96.8F**.
- During the temperature screening, the test subject should face the camera directly and not cover his/her face. Otherwise, temperature detection will be inaccurate.
- Individuals who are easily prone to sweating or who have come from an environment with a substantial temperature differential than that of the testing environment, should wait until they have acclimated before test initiation.
- When testing the symptomatic subject, the device will alarm. it is recommended to use a thermometer or other precision temperature measuring instrument to confirm the temperature.



24/01/20
15:35:18
(60)
40.0
22.4
[°C]

24/01/20
15:35:18
(60)
40.0
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ID : 758426592
37.2 °C

ID : 2548
36.9

IC IDENTIFICATION : ON

BODY TEMPERATUR 37.5

24/01/20
15:35:01
(60)
40.0
22.4
[°C]



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