



BeMotionTM.INC



NON-CONTACT HUMAN
TEMPERATURE SCREENING SYSTEM



Background

The **COVID-19** emerged in December 2019 and rapidly spread throughout China and around the world. To date, there are over **2.3 million** cases. Although the global economy has come to a stand-still, businesses deemed “essential services” remain open.

While government, in consultation with health care practitioners and scientists call for global citizens to employ best practices to help flatten the curve, the number of cases and deaths continue to mount.

Although there are still many unknowns, it has generally been accepted that symptoms of Corona virus (**Covid-19**), are a cough, high temperature and shortness of breath. Early detection is key. The Intelligent Thermal Image (**ITT**) helps improve the screening efficiency of human temperature. Non-contact temperature measurement complies with physical distancing regulations thus, greatly reducing the risk of transmission, community spread and effectively controlling febrile personnel in public places/essential-service environments.



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 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 Locations:



Supermarkets



Subway Stations



Airports



Hospitals



Factories



Hotels



Railway Stations



Shopping Malls



Schools

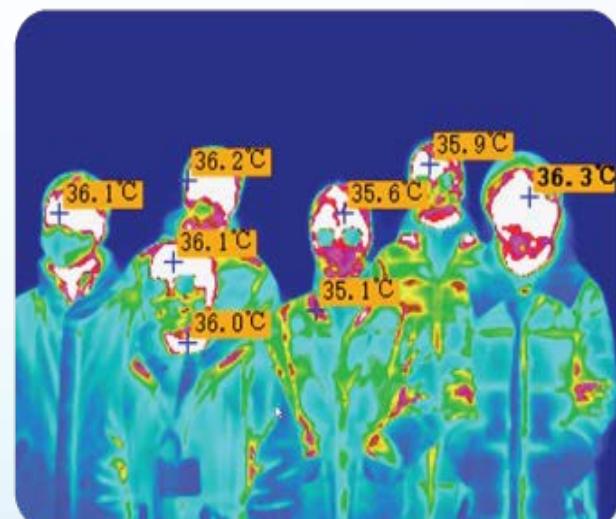


Stadiums



STS384

Intelligent Thermal temperature screening system





Non-contact Human Temperature Screening System

- **300+ / Monitor human flow every minute**

Compared with an ordinary handheld thermometer, the detection efficiency is high, which can detect at least **300** people / min.

- **0.5s / Auto Alarm**

When someone with an abnormal body temperature passes by, the device will automatically alarm in **0.5s**.

- **5M / Temperature measuring distance**

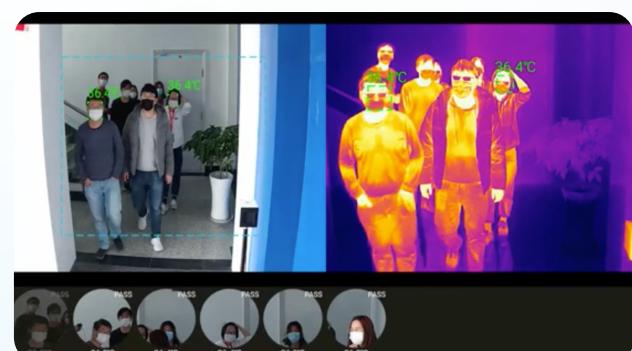
The temperature measurement distance is between **1m~5m**, which can effectively reduce the contact with the tested personnel and avoid transmission.

- **> 99.9% / Data accuracy**

The forehead temperature can be measured accurately using artificial intelligence (**Ai**) face-detection algorithm, which has the capacity to recognize personnel even if they're wearing a mask or hat

- **High precision real-time alarm:**

Real-time monitoring of body temperature is based upon **face recognition**. Wearing a hat or glasses does not affect accurate identification. The false alarm rate of high temperature was lower for those wearing masks.





SDT384 Technical Parameters

Dual-Vision Temperature Screening System

THERMAL DETECTOR

| | |
|-----------------|----------|
| Detector: | Uncooled |
| Resolution: | 384*288 |
| NETD: | <40mk |
| Spectrum Range: | 8-14um |
| Pixel Size: | 17um |
| Frequency: | 50Hz |

LENS

| | |
|---------------|---------------|
| Focal Length: | 9.8mm |
| FOV: | 37.1° x 28.1° |

VISIBLE LIGHT

| | |
|-------------|-----------|
| Resolution: | 1920*1080 |
| Lens: | 4.6mm |
| FOV: | 90° |

PERFORMNCE

| | |
|-------------------------|--|
| Measurement Range: | 0°C~60°C |
| Measurement Accuracy: | ±0.5°C (Without Blackbody) ±0.3°C (Without Blackbody) |
| Measurement Distance: | 0.5m-5m (Typical 5.0m) |
| High Temperature Alarm: | Pop-up alarm, audio alarm |
| Preview Mode: | RGB/Thermal |
| Historical Data: | Yes |
| Facial Recognition: | (AI Technology) Smart human face recognition and tracking system |

| | |
|---------------|--------------------|
| Capacity: | >300 people/minute |
| Power Supply: | USB x 2 (5V DC) |

| | |
|--------------|-----------------------|
| Date Output: | UVC (USB Video Class) |
|--------------|-----------------------|

| | |
|--------------------|-----|
| Control Connector: | USB |
|--------------------|-----|

ENVIRONMENTAL

| | |
|---------------|----------------|
| Working Temp: | -10°C ~ + 50°C |
| Storage Temp: | -20°C ~ + 65°C |



Precaution

- It is recommended to use the equipment in an environment of **16°C~32°C**
- 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 36 C. It is recommended to adjust every 2 hours.
- 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 for **5-10** minutes before test initiation.
- When testing the symptomatic subject, the device will alarm. It is recommended to use a mercury thermometer or other precision temperature measuring instrument to confirm the temperature.



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