PIFss PORTABLE INFRARED FEVER SCREENING SYSTEM

SENSOR SPECIFICATIONS	
Detector Type	Uncooled Microbolometer
Detector Spectral Range	8 - 12 microns
Array Format	320 H x 240 V pixels
Detector Size	45 x 45 microns
Operating Temperature	-15°C to 52°C
NETD	< 0.1°C
Optics Field of View	16° x 12°

SYSTEM SPECIFICATIONS	
Effective Temperature Range	30°C to 38°C
Grey Scale	150
System Resolution	+/- 0.3°C
Operating Temperature	15°C to 30°C (indoors)
Operating Distance	3 - 5M
Power Supply	110v or 240v AC
Weight	10 kg

USER FEATURES

On screen display of facial temperature distribution in colour code

On screen display of camera status

Singapore Technologies Electronics Limited maintains a policy of continuous improvement and reserves the right to make changes to the design and specifications of this product without prior notice.

Fever screening for the masses

Providing a Safer Environment against Avian Flu, Dengue and SARS

About Singapore Technologies Electronics Limited

Singapore Technologies Electronics Limited is a wholly owned subsidiary of Singapore Technologies Engineering Limited, one of the largest public-listed companies on the Singapore Stock Exchange.

ST Electronics is a leading electronics and information communications technology system house in the region. Established in 1969, our core capabilities lie in our innovative design, implementation and integration of advanced electronics system solutions for commercial, industrial, defence and government applications worldwide.

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Singapore Quality Award for business excellence
2002 Winner
Singapore Technologies Engineering

ISO 9000 PSB
Cert No.: 92-1-0004
SS ISO 9001: 2000

Singapore Technologies Electronics
A company of Singapore Technologies Engineering

In our fight against SARS (Severe Acute Respiratory Syndrome), we have harnessed the power of leading-edge thermal imaging electro-optics technology and together with the Defence Science Technology Agency, have developed the world's first non-invasive Infrared Fever Screening System (IFss™) in 2003. The latest evolution, the PIFss is now more compact to enhance portability.

The PIFss provides rapid, real-time mass screening of human traffic to identify those with high fever; one of the primary and initial symptoms of SARS, Avian Flu (Bird Flu) and Dengue.

DISTINCT ADVANTAGE

Real-Time Monitoring

PIFss offers real-time thermograph images of people as they walk by. There is no inconvenience caused.

Accuracy and Reliability

With a system accuracy of less than 0.15°C and a resolution of 0.3°C, the PIFss is able to detect a person with temperature at 37.5°C and above.

To achieve the high accuracy required, each PIFss undergoes a rigorous calibration process.

Personal Safety

With PIFss, screening is conducted at a safe distance and there is no contact with possibly infected people, thereby reducing the risks of exposure to infection. The PIFss is a passive device, i.e. it does not radiate like a laser or x-ray. Thus, making it safe for use on everyone including children and pregnant women.

User-Friendliness

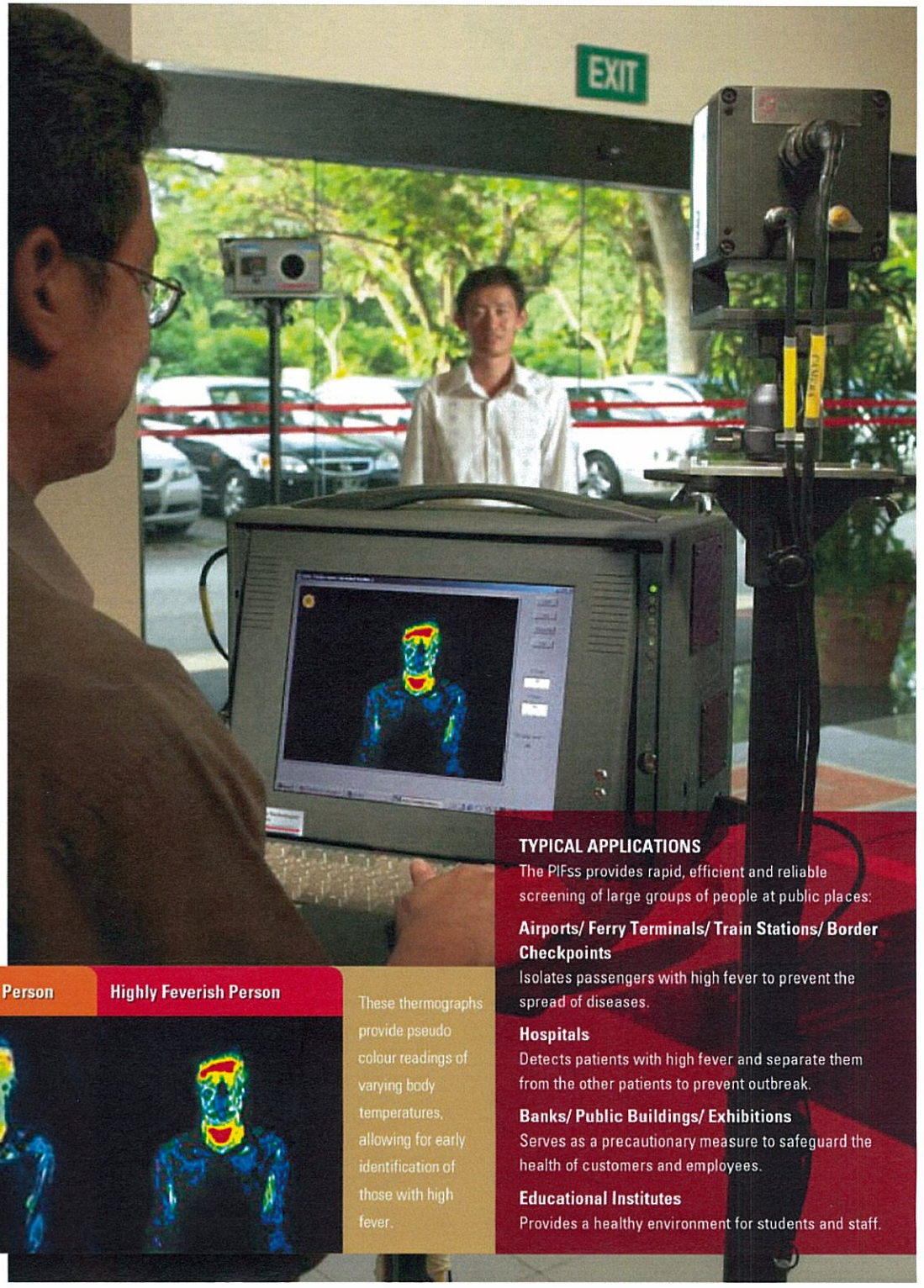
Operating the PIFss is easy with no complicated procedures to follow. The operator simply views the real-time images to identify those with elevated temperatures. The simple user interface allows anyone to quickly become proficient with the operation of the system.

Cost Effectiveness

The PIFss is highly efficient and reduces the number of medical staff required to perform mass screening.

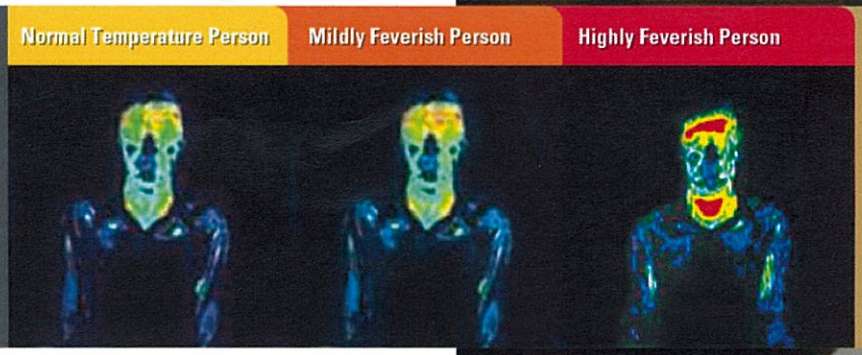
Compact and Portable Package

The portability allow operators to transport the system from one location to another with greater convenience.



HOW DOES PIFSS OPERATE?

The PIFss uses advanced passive infrared thermal imaging technology to detect minute changes in human temperatures, accurate to ±0.3°C. The varying temperatures of the human's face are reflected as thermographs (see diagram). Preset temperature alarm alerts the operator if the thermograph of a specific person goes beyond a threshold. The thermograph is presented, on-screen in real time and in an non-invasive nor intrusive way.



These thermographs provide pseudo colour readings of varying body temperatures, allowing for early identification of those with high fever.

TYPICAL APPLICATIONS

The PIFss provides rapid, efficient and reliable screening of large groups of people at public places:

Airports/ Ferry Terminals/ Train Stations/ Border Checkpoints
Isolates passengers with high fever to prevent the spread of diseases.

Hospitals
Detects patients with high fever and separate them from the other patients to prevent outbreak.

Banks/ Public Buildings/ Exhibitions
Serves as a precautionary measure to safeguard the health of customers and employees.

Educational Institutes
Provides a healthy environment for students and staff.