

RELEASE

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For Immediate Release

**Sales begin for New Surface Temperature
Detection and Alarm Systems**



TVS-200IS



TVS-500IS

Tokyo, June 11, 2009 - NEC Corporation subsidiary, NEC Avio Infrared Technologies Co., Ltd. (Head Office: Tokyo, Japan, President: Shunichi Suzuki, Hereinafter: NEC Avio) today announced the sale of two infrared thermography products, the TVS-200IS and TVS500-IS, both equipped with body surface temperature detection and alarm features. The TVS-200IS and TVS500-IS measure an object's surface temperature without making contact, and use an object's temperature distribution to produce representative video images (thermal images).

Individuals carrying fever, for example, are detected as they first appear at locations equipped with the cameras, which may include airport and harbor quarantine stations, hospitals, public facilities and reception desks. The cameras are capable of measuring a wide range of surface temperatures (-10 – 60°C), without making direct contact with a subject, and maintaining exceptional measurement accuracy (+/- 1°C). An individual with fever is detected when their body's surface temperature exceeds a set warning point, which triggers an alarm message and a color display of the individual. A person's image is displayed as a composite of their naturally visible image and colors that represent their body surface temperatures, which enables system operators to easily identify individuals with fever.

Furthermore, the system may be easily supplemented with connections to optional alarms that initiate additional warnings such as lamps or buzzers.

NEC Avio's TVS-200IS and TVS-500IS thermography cameras' early detection of individuals with fever provides valuable aid to worldwide preventative measures against the spread of pandemic, and contributes to the safety and peace of mind of a society that is friendly to both people and the environment.



TVS-200IS and TVS-500IS Features

- 1) Contactless surface temperature measurement (anthropometric range: -10 – 60°C)
- 2) Top class thermography equipment accuracy (+/- 1°C at a photograph centered black body 30°C)
- 3) Alarm message delivered when temperature above set warning point is detected
- 4) Isotherm function enables color display of temperatures above a set warning point (color alarm allows persons with fever to be easily recognized)
- 5) External alarm
Easily implement an optional external warning system (lamp, buzzer, etc.)
- 6) Mixing function creates composite images blending naturally visible images with thermal images
Naturally visible images and thermal images are displayed as a composite image where a subject's characteristics are easily viewed
- 7) Video output (NTSC/PAL) enables connection to external monitors
- 8) Compact and lightweight equipment allow for easy transportation



Specific Temperature Detection (38°C)

<Basic Specifications>

Item	Body Surface Temperature Screening System with Alarm	
Model	TVS-200IS	TVS-500IS
Measuring Range	-10 to 60°C (for human body temperature)	
Accuracy	±1.0°C (At center of screen, ambient 20-30°C, when measuring black body at 30°C)	
Detector	320 x 240 UFPA	
Spectral Range	8 to 14µm	
Field of View	30.6° (H) x 23.1° (V) (with 14mm standard lens)	19.4° (H) x 14.6° (V) (with 22mm standard lens)
I.F.O.V.	1.68mrad (with 14mm standard lens)	1.07mrad (with 14mm standard lens)
Focusing Range	30cm to infinity	
Frame Time	60 frames/second	
Alarm Output	Contact signal output	
Video Output	NTSC or PAL	
Isotherm Function	Displays preset isothermal band in color	
Visible Camera	Built-in	
Mixing Image	Display of thermal image over visible with variable transmission	



About NEC Hong Kong Limited

NEC Hong Kong Limited has a long and eventful history in Hong Kong since its establishment in 1984 and has been expanding its activities rapidly to meet the growing customer demand in Hong Kong, Macau and Mainland China. Dedicated to information and communication technologies, NEC provides advanced display & visual products, server & storage and telecommunication devices. NEC also plays a leading role in business solutions for security & border control, unified communication and IT platform, as well as services of IT consulting, networking and outsourcing. With a full range of technical experts and resources, we achieve professional customization in response to the dynamic needs of customers in various industries. With our extensive products and services, we continuously develop beneficial values for customers globally and become the one-stop answer for innovative technological excellence.

For more information, please visit www.nec.com.hk.

