

armstrong optical

IR236 Swine Fever/SARS/Avian Flu (H5N1) Sensing System



Features:

- **UFPA detector**
With a newly introduced advanced uncooled focal plane array detector the IR235B is able to obtain thermal images with a temperature sensitivity of 0.08°C and 24/7 operation.
- **Excellent image quality**
The 384x288 pixel array enables the camera to take crisp images and make accurate temperature measurement on objects as far away as 50-100 meters. Image quality won't be affected by sunlight, temperature or other high temperature objects whether indoors or out, and with a false colour display the image is easy to interpret.
- **IR-visible imaging**
Thermal images and visible images are shown on the same screen simultaneously, making it easier to track suspects during or following the initial inspection.
- **High imaging speed**
The IR236 is NOT a modified industrial thermography camera but a system specifically designed for medical applications. It does not suffer from the temperature drift associated with industrial cameras ($\pm 2^{\circ}\text{C}$) due to a built-in black-body that provides an accuracy of 0.3°C.
- **Automatic search and alarm**
A twinkling cursor indicates and tracks the object with the highest temperature in the field of view. The system will alarm automatically when the object temperature goes beyond a predefined value.
- **Facial recognition software**
Newly introduced facial recognition software matches temperature to face thereby avoiding false alarms due to hot objects (coffee/tea) in the field of view. The operator can be sited well away from the inspection area or even be placed in a sealed environment, ensuring the safety of the operator.
- **Non-intrusive monitoring**
Passengers need not stop or stand still to be inspected - the system will take images without giving any pre-alert, avoiding panic or stress.
- **Wide range of application**
With a high efficiency for inspection of fever-symptom caused by **Swine Fever**, **SARS** or **Avian Flu** the camera is ideal for train stations, airports, supermarkets, ports, hotels and other places with flowing crowds. The quality of the system is supported by the hundreds in the field.

Technical Specification

Performance	Detector:	384x288 Uncooled Array
	Spectral range:	8-14 μ m
	NETD:	0.08 °C @30 °C
	Temperature Range:	0 °C - +50 °C
	Frame Frequency:	50/60 Hz
	Field of View:	13.7° x 10.3°
	Focusing Range:	50cm - ∞
	Spatial Resolution:	1.0mrad
	Ambient Compensation:	Auto/Manual
Interface	Communication:	RS485 serial communication
	Video Output:	PAL/NTSC
Environmental	Operating Temperature:	-25 °C - +60 °C (-40 °C option)
	Storage Temperature:	-20 °C - +60 °C
Electrical	Power Supply:	AC adapter
	Power Requirements:	16V
Physical Characteristics	Camera Dimensions:	430mmX240mmX40mm
	Weight:	2kg (excluding PC)
Software	Main Functions:	Image Process (filter, rotate and etc) Measurement (multi points, delta-two, max and etc.) Temperature Analysis in line of area Zoom (area zoom, half, two, full screen and etc.) Report Generating (three formats & word format) Digital image real-time record Temperature Analysis in line or area

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