Trade version – 4MP thermal imaging body temperature screening and early warning system

Thermal imaging body temperature screening and early warning system, supports multi-target $\pm0.3℃$ precision temperature measurement, rapid screening, high temperature alarm, mask recognition, and supports multiple languages. The system is consisted of thermal imaging cameras, area source black body furnaces, platform software and other standard components. It can support optional all-in-one computers, mounting brackets, display bases and other components, forming a complete set of infrared thermal imaging temperature measurement system solutions. It's available for integrated delivery and rapid deployment on site;

I. On-site deployment:

II. Configuration list of a single-set system:

No.	Type	Outside view	Quantity	Function	Remarks
1	Infrared thermal imaging temperature measurement dual-spectrum tube machine		1 set	Screen capture, face recognition, infrared thermal imaging temperature measurement	Standard
2	Platform software		1 pcs	Temperature measurement and screening system platform software	Standard
3	Non-point source blackbody furnace		1 set	Temperature measurement correction, temperature measurement accuracy can reach 0.3℃	Standard
4	All-in-one computer (21.5-inch screen, including keyboard and mouse)		1 set	Platform software installation, real-time screen display, temperature measurement data	Optional

				display	
5	Monitor base		1 个 1 pcs	壁装、安装显示器用， For wall mounting and display installation,	Optional
6	Equipment mounting bracket (115cm-185cm adjustable)		2 sets	Install infrared thermal imaging temperature measurement dual-spectrum tube machine, all-in-one computer, black body	Optional
7	Other auxiliary materials	Switch,network cable	1 set	Power supply, communication	Customized

III, Product introduction

4MP infrared thermal imaging temperature measurement dual-spectrum tube machine STD-8TX843C3-RE01

- The temperature measurement accuracy is ±0.3 ℃ (with black body);

- Use infrared thermal imaging for body temperature detection to achieve remote, non-contact and rapid temperature measurement, reducing risk of infection;

- High-sensitivity detector, thermal imaging resolution 256*192, support contrast adjustment;

- Automatic rapid temperature measurement and rapid screening of multiple targets at the same time, meeting the requirements of high-efficiency temperature measurement and screening in a large area of dense crowds;

- Support pre-valued temperature alarm threshold, automatic alarm for temperature abnormalities, and automatic capture of heating targets, providing a basis for obtaining evidence afterwards;

- Support intelligent face capture and recognition function, therefore realizing well-founded personnel information, reducing misjudgment and making it more accurate;

- Support automatic temperature calibration, reduce manual work and be more efficient;

- Equipped with temperature measurement client software and a visual data platform, the management area data is clear at a glance, enabling record backtracking, data analysis, etc.;

- Optional integrated delivery of thermal imaging camera, bracket, all-in-one desktop computer, supporting software, etc., which can be quickly deployed on site;
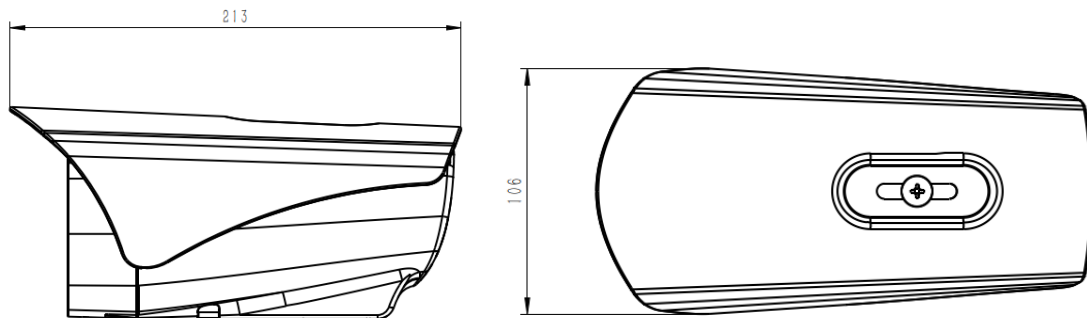
Order model:

Product model	Remarks
STD-8TX843C3-RE01	4MP infrared thermal imaging temperature measurement dual-spectrum tube machine The accuracy of temperature measurement with black body is up to ±0.3℃, Thermal imaging resolution: 256*192, visible light resolution: 4 million

Application scenarios:

Rapid body temperature screening can be carried out in crowded public places. If a target with an excessive body temperature is detected, the system will automatically alarm and take pictures for retention. It can detect feverish people in a large area, thus improving the efficiency of epidemic prevention and control, and greatly reducing the risk of infection. The system can help control and reduce the spread of fever epidemics such as Ebola, SARS, Zika, New Crown, etc., by detecting body temperature in airports, ports, stations and other public transportation places.

Product Size:

Product parameters:

Product name	Name	4 million infrared thermal imaging temperature measurement dual-spectrum tube machine
	Model	STD-8TX843C3-RE01
Thermal imaging parameters	Sensor type	Vanadium oxide uncooled infrared focal plane detector
	Thermal imaging resolution	256*192
	Pixel size	12μm
	Band	8～14 μm
	Thermal sensitivity	＜50mK @25℃，F#1.0，25Hz
	Focal length	3.2mm F1.1、FOV 56°* 42°
	Frame rate	≤25Hz
Temperature measuring parameters	Measuring range	35℃~45℃
	Measuring accuracy	± 0.3℃（with black body)
	Measuring distance	1M～3M
	Multi-target temperature measurement	Support
Visible light parameters	Sensor type	1/1.8" CMOS low illumination
	Max. resolution	400W(2560×1440)
	Video coding standard	H.264B、H.264M、H.264H、H.265、MJPEG、SVC

	Lens interface	M12
	Focal length	9mm fixed focus lens
Professional intelligence	Smart function	Face detection, face tracking, face optimization, face attributes, face recognition, face exposure, face enhancement
	Face capture performance	At the same time, it can detect up to 30 faces; the minimum and maximum pixels of the detection face can be set, and the detection area can be set
		Face cutout, half body cutout, full body cutout; capture rate not less than 98%, repeat capture rate less than 5%
	Face capture mode	Optimal mode, automatic mode, monitoring mode; number of snapshots and time can be set
	Face attribute analysis	Age, gender, masks, glasses, expressions, etc.
	Face recognition efficiency	Recognition accuracy rate ≥99.50%, recognition speed ≤0.2S
	Face database management	Management of up to 3 face libraries, maximum 30,000 face libraries, storage of 100,000 comparison records
	Face recognition efficiency	Recognition accuracy rate ≥99.50%, recognition speed ≤0.2S
Software function	Parameter settings	Video adjustment, alarm sensitivity setting, area of interest, etc.
	Abnormal temperature alarm	High temperature alarm in face area, automatic alarm snapshot
	Historical data query	Query historical alarm data, process historical alarm data
	Temperature correction	Supports automatic temperature correction of body surface
Hardware interface	Communication Interface	1 10/100M adaptive Ethernet port
	Other interfaces	Alarm: 1 in 1 out; audio: 1 in 1 out; 1 485 interfaces
	Local storage	Micro SD/SDHC/SDXC card (maximum 256G), support interrupted network transfer
	Signal interface	1 way RS485 interface
General specification	Power input	DC12V±20% power supply, power consumption ≤10W
	Environment adaptability	Working temperature: 10~50℃ ＜90% (non-condensing)
	Size(mm)	227（L）*106(W)*100(H) (Not included antenna)
	Protection level	Indoor use

Non-point source blackbody furnace HK-50

Product	Technical parameters
	1. Temperature range: ambient temperature +5℃-50℃ 2. Control method: PID automatic control 3. Temperature resolution: 0.1℃ 4. Radiation surface: 78mm*78mm 5. Blackbody emissivity: 0.97±0.02 6. Temperature stability: ±(0.1~0.2)℃/30min 7. Temperature uniformity: ±0.2℃ (within 2/3 of the central area) 8. Power supply: 220V AC 50HZ 9. Host volume (length × width × height): 240mmX110Xmm150mm 10. Working environment temperature: 0℃~black body setting temperature -5℃, humidity: ≤80%RH