

Shops & Café

IR236 IR FEVER WARNING SYSTEM

Guide Infrared

In the past two decades, based on a large number of practical application cases, we have conducted constant algorithm optimization coupled with software and hardware upgrades, especially in the field of deep learning based on the neural network, to truly achieve fast and accurate temperature detection.









IR236 红外人体表示温度快速展查仪

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PRES

Technical Principle

Detection object

Q: What is infrared radiation?

In the natural world, all objects whose temperature is higher than absolute zero (-273.15 ° C) can radiate infrared energy. The physical nature of infrared radiation is thermal radiation, which is also an electromagnetic wave.

Q: What is an infrared thermal camera? The infrared thermal camera converts infrared thermal radiation into corresponding electrical signals, and then magnifies and video processes to form a video image that can be viewed by the naked eye. Generally speaking, it is to change the invisible infrared radiation into a visible thermal image, and it can reflect the temperature distribution of the target surface.

Q: What are the advantages of a infrared thermal imaging camera?

Infrared thermal imaging camera can realize the fast temperature detection of multiple targets at the same time from several meters away and identify the elevated temperature instantly, avoiding the close contact required by traditional thermometer and reducing the risk of infection.



Processing algorithm Infrared optics



Display thermal image

Technical Principle









Safe

Non-contact long-distance temperature screening, reducing the risk of infection

Reliable

Professional testing and certification from multiple certification agencies at home and abroad, AI algorithm, false alarm and missing alarm rate < 1‰;

Efficient

Non-inductive passage, Monitor the temperature of many people at the same time, save time and effort



Process





2 Alarm when someone shows an "out of norm" temperature



3 Further measurement (by mercurial thermometer or ear temp gun)





IR236 Introduction



From the SARS pandemic in 2003, the H1N1 Influenza pandemic in 2009 and the Ebola epidemic in 2014, to the COVID-19 outbreak in 2020, Guide Infrared has a proven track record of supporting global public health crisis, standing with the world in the prevention of diseases.

GUIDE IR236 IR Fever Warning System can be applied to mass fever screening in crowded public places, which help to detect people with a potential fever and may contain or limit the spread of the Coronavirus through identification of infected individuals showing fever symptoms. GUIDE IR236 combines advanced technology such as thermography human temperature detection algorithm and AI intelligent face tracking to make the equipment accurate and easy to use.

IR236 equipped with various powerful functions. Multi-target tracking can ensure that no targets are missed. Custom warning zones and high-temperature shielding settings can avoid interference from other high-temperature objects. When detect the febrile people, it supports automatic warning, tracking and photo taking for storage. Support video recording. Convenient to query and classify management. GUIDE IR236 is the ideal equipment for epidemic prevention in public places such as airports, stations, factories, schools, commercial centers and more.

Key Parameters



- o IR resolution: 400x300
- o Temperature range: 20°C~50°C
- o Accuracy: $\leq \pm 0.3^{\circ}C$
- o Visible light: 2 million pixels
- o Number of detection: temperature measurement in full screen, no upper limit.
- o Number of people showing temperature : 10 at most
- o Number of alarm: 10 at most
- o Applicable environment: indoors/no wind
- o Measurable distance: 2 m 10 m
- o Measuring width: 3m 5 m
- o Measuring efficiency: up to 500 people/min



✓ With blackbody, higher

accuracy

✓ High resolution, dual light

camera

✓ High efficiency, 500 people/min

- ✓ 8m safe detection distance
- ✓ AI algorithm, alarm failure < 1‰
- ✓ Super intelligent, only detect

face position.

 Fully automatic detection and alarm



- The blackbody is a calibration device, which is a standard temperature source (accuracy ±0.1°C).
- The thermal camera is equipped with blackbody for real-time calibration, for keeping the temperature measurement accuracy at a high level of ±0.3°C.



- GUIDE INFRARED
- The high resolution dual light camera can measure the temperature for multiple people at the same time.
- No need to stop, more than 500 people can be measured per minute.







• Can be used to measure temperature at a distance of up to 10 meters without risk of infection from close contact.





Non-contact temperature measurement, no risk of infection

Temperature measurement at close range, with risk of infection

- Based on the deep learning algorithm of neural and practical application of big data in recent 20 years, it can ensure accurate temperature measurement and misreport < 1‰.
- Artificial intelligence face detection algorithm, even wearing a mask can also recognize the face, not influenced by other hot objects.







• Support multi-point high temperature automatic tracking alarm, automatic detection, alarm and photo retention, support video recording, greatly reduce the workload of the operator



Accessories





Standard

Camera head + stand Black body + stand Switch PC Kit







Specifications



Category	Item	Specification	Category	Item	Specification
IR detector	IR resolution	400×300	Environmental adaptability	Work Temperature	-10 \sim 50 °C (ambient temperature 16 \sim 32 °C)
	Pixel size	17µm			
	NETD	≤40mK		Storage	-20 °C ~ 60 °C
	Focal Length	9.7mm		Temperature	
	FOV	38°*28°		Work Humidity	<90% (non-condensing)
	Frame Rate	25Hz		Shock	30g 11ms, IEC60068-2-27
Visible	Resolution	2 million pixels		Vibration	
Camera	Frame Rate	25Hz		Vibration	10HZ ** 150HZ ** 10HZ 0.15mm, IEC60068-2-6
Temperat_	Range	-10°C~50°C	Black body	Blackbody target	≤0.1 °C
ure	Accuracy	$\leq \pm 0.3 \degree$ (ambient temperature 16 ~ 32 °C)		surface	
Measure ment	Calibration	Built-in shutter and external black body, automatic		uniformity	
		calibration after selecting mode		Temperature	\leq + 0.2 °C (single point)
Software – functions	Parameter settings	Warning switch and warning threshold value,		stability accuracy	
		number of warning targets, warning photos	Camera head interface	Network interface	Two-way, visible light 100M, infrared 1000M
		automatic clearing, shielding fixed high			
		temperature objects			
	Face tracking	Intelligent face tracking, Supported from V1.0.9.0	Camera head	Input voltage	DC 12V
	Real-time preview	Real-time preview of visible and thermal image	power	input power	≤12W
	Real-time spot temperature	Real-time temperature monitoring at any point in	Packaging specifications	Camera head size	173mm×184mm×212mm
	detection	the field of view		Total height (incl. stand)	2200mm
	Automatic tracking	Support automatic tracking for elevated			
		Automatic tracking, warning and photo capturing for storage when people with fevers are identified; Warning while the Black Body is blocked.		Camera head package	510mm× 440mm × 270mm (subject to actual delivery)
	Automatic warning				
				Total weight	≤45kg (subject to actual delivery)
		Support query, classification and deletion of	*Note: The tempera	iture measurement ac	curacy is a typical value under the specified mode and application conditions. The
	Historical records	historical warning screenshots	final interpretation right belongs to our company.		
	Video recording	Support. The software needs to be upgraded to			
		V1.1.0.9, and equipped with NVR (NVR standard 4T			
		hard disk), support GB28181 protocol to access			
		third-party platforms			
	Network communication protocol	HTTP、 RTSP			



Epidemic Prevention Cases



Application Cases

- In 2003, Guide equipment was widely used in hospitals, transportation and other key areas, successfully helped to contain the spread of the SARS.
- In 2016 (12th Feb.), the first case of Zika virus infection at the Chinese port has been detected in Guangzhou Baiyun International Airport, through Guide fever warning system.
- In 2019 (25th Sep.), Beijing Daxing International Airport was officially put into operation, 55 sets of Guide fever warning system has been installed in the entry and exit port.



















Application Cases

Fight against the COVID-19





Beijing Daxing Airport



Railway Station



Bank



CNOOC Group



Leishenshan Hospital



Tencent Group



HUAWEI



Wuhan Airport

Fight against the COVID-19





Hospital



Supermarket



Airport



Railway Station



Airport



Authority



Changjiang Daily



University

Chinese Media Reports





 CCTV



CGTN



Shenzhen New



Shangdong TV



确保体温快声 1月27日9点半,武汉市东湖高新区 黄龙山南路6号,武汉高德红外股份有限 公司。 湖北日报全媒记者驱车来到大门口, 四周一片寂静。接受门卫检测体温,正 常,记者随即进入高德智感楼的5楼,经 过全封闭消毒门几十秒消毒后,才得以进 入生产车间。 车间内,一副副年轻的面孔,全都戴 着口罩在各自工位上忙碌着,头顶悬挂 的红色大字标语分外醒目——"全力以 赴保障测温产品交付""助力疫情防控 勇担社会责任""疫情面前无小事 责任 面前无小我", 新型冠状病毒感染的肺炎疫情爆发 武汉等地急需红外体温快速筛查仪





China Electronics News

Hubei Daily

Hubei TV

Changjiang Daily

Overseas Media Reports











 A picture taken Jan. 21, 2020, shows... more Str/AFP via Getty Images

The U.S. began screening for

ABC



Thermal scanners that detect temperatures of passengers inside the Hankou station in Tuesday

Wuhan is a huge place - the 42nd biggest city in the world, according to UN data - and cannot easily be turned into an isolation ward.

More than 20 major roads come into



BBC

FORBES



Application Scenarios



Transportation Junction



Institution



Hospital



Shopping mall & Supermarket



Bank



Factory park



Office building



School





Wuhan Guide Infrared Co.,Ltd

No.6 of Huanglong Hill South Road, East Lake High-tech Development Zone, Wuhan City, Hubei Province, China E-mail: enquiry@guide-infrared.com Tel: +86 27 8129 8784 Web: www.guideir.com