AI Series-Specification

AI5000 High-flux AI Dual Light Lens Infrared Imaging Body Temperature Measurement System

HUSHIDA

一、Product Overview

The outbreak caused by the new coronavirus at the end of 2019 has brought great challenges to all walks of life. With the advent of resumption of labor and production, the prevention and control of new coronaviruses across the country has entered a critical period. How to safely, quickly, and efficiently implement the temperature detection of employees, residents, passengers, and other personnel has become important for prevention and control. A ring. Combining AI image recognition technology and thermal imaging technology, a non-contact,

high-precision, efficient and safe AI thermal imaging body temperature screening solution was launched.

二、 Functions and Features

2.1 Functions

1. ≤0.3℃ accurate temperature measurement
2. Over-temperature alarm
3. Non-contact detection
4. Intelligent face recognition
5. Mask abnormality detection
6. AI data analysis

2.2 Features

1. Face recognition thermal imaging, mobile thermal imaging and other methods to achieve a non-contact rapid temperature detection and management platform.

2. It can monitor the temperature of high-volume people at the same time, and can measure no less than 20 people at the same time. Real-time analysis of the over-temperature target shows the left traces and sound and light alarm.

3. The crowd in the face database (30,000) is automatically recognized, and the non-face database crowd captures the face in real time, and the specific face database crowd is captured and alarmed.

4. 24 hours uninterrupted work, real-time display of temperature and high temperature alarm times and has the function of classification and statistics.

5. Accuracy of body temperature detection: temperature accuracy within 0.3 degrees; face recognition distance is 2.5 meters or more; face recognition accuracy rate is above 99.8%.

6. Body temperature detection speed: single-channel face recognition speed: no less than 30 faces per second.

7. Powerful cloud SAAS big data platform, real-time remote viewing, early warning, reporting and monitoring of data.

8. Quick deployment, real-time blackbody radiation source correction without being affected by the environment, ensuring temperature measurement accuracy.
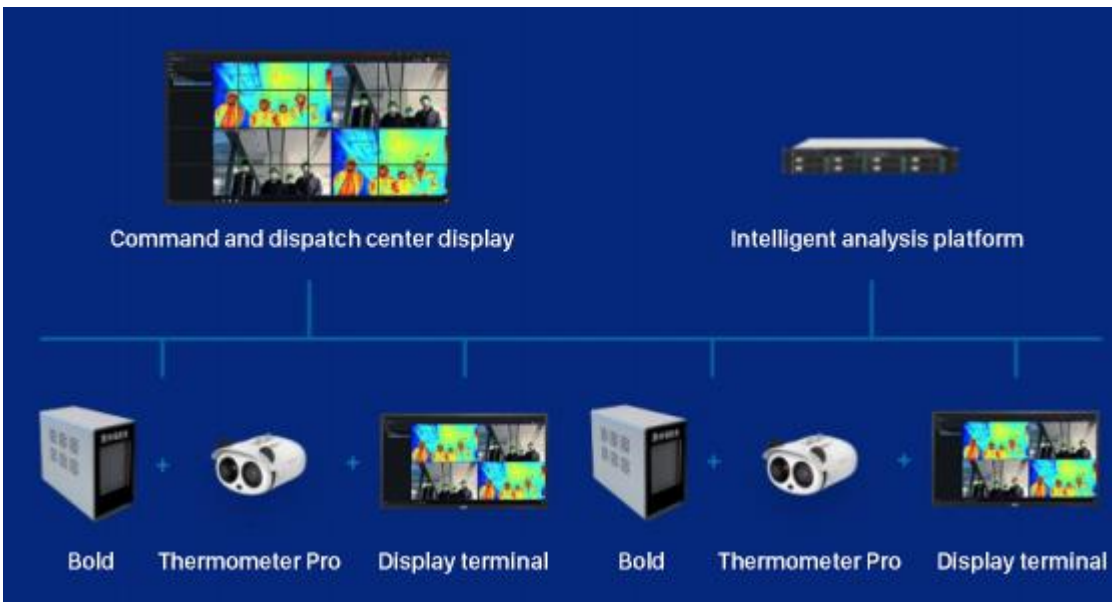
三、 Application scenario

1. Applicable to government law enforcement departments: including public security bureaus, procuratorates, court tribunals, prisons, labor camps, detention centers, detoxification centers and other various venues in where taking security inspections of prohibited metal items.

2. Applicable to social public places: including stadiums, entertainment venues (disco halls, dance halls, etc.), airports, railway stations, bus stations, ports, customs, banks, exhibition halls, museums, banks, oil depots, power stations and other public places in where taking safety inspection at the entrance of the premises.

3.Applicable to manufacturing-type enterprise: including electronics (such as: chips, memory, circuit boards, hard disks, mobile phones, MP3, translators, voice recorders, electronic devices, etc.), wires and cables, electrical appliances, gold and silver jewelry, cigarettes, medicines, ink cartridges, Safety inspection of related industries or various important enterprises in industrial and mining, hardware products, electroplating, die casting, plumbing equipment, precious metals (copper, aluminum, etc.) and their processing.

4.Applicable to the security inspection of entrances of large traffic groups in schools / hospitals / communities.

四、System Structure

Configuration	Screen sizes	Pictures
Single point / emergency deployment plan	21.5 inch 55 inch 65 inch 75 inch 86 inch 100 inch	 AI human connected temperature monitoring terminal + Thermal imaging dual light lens + Bold radiation source
Medium and large distributed deployment		 Command and dispatch center display	Intelligent analysis platform Bold	Thermometer Pro	Display terminal	Bold	Thermometer Pro	Display terminal

五、Device Parameters

5.1 AI THERMAL IMAGING BODY THERMOMETER

Name	AI THERMAL IMAGING BODY THERMOMETER	
Parameter of Camera	model	HSD-RYS-4321-3025
	size	1739mm*1180mm*3650mm
	Supported resolution and frame rate (MJPEG default)	1920*1080 ： 30frame
	Output image format	MJPEG／YUV2（YUYV）
	Interface Type	USB2.0
	Automatic Exposure Control AEC	Support
	Automatic white balance AEB	Support
	Automatic gain control AGC	Support
	storage temperature	-30°C to 70°C
	Operating temperature	0°C to 40°C
	Working humidity	15%-85%
Temperature sensing module parameters	Pixel pitch	480*360
	Lens	90°
	I/O	USB
	Ambient operating temperature	0°C～40°C
Motherboard parameters	chip	RK3399 Dual Cortex-A72big core+Four Cortex-A53smaller core)
	system version	Android 7.1
	CPU architecture	RK3399
	CPU working frequency	Up to 2G
	CPU core number	Six
	GPU	**Mali-T860MP4**

Internal cache capacity (RAM)		4G DDR4
Internal storage capacity (ROM)		8GB
interface	HDMI	1xHDMIoutput；
	SD	1 xSDslot
	USB	1xUSB3.0 OTG，1xUSB3.0 Host +1xUSB2.0+5xHUB
	RJ45	1*Network port terminal input
	ADC	1* ADC
Network support		3G, Ethernet, support WiFi / Bluetooth 4.0, wireless peripheral expansion
WIFI、BT		Built-in WIFI, BT4.0 (optional)
3G		Built-in PCI-E 3G / 4G module interface, support multiple PCI-E 3G / 4G modules such as Huawei, ZTE, Longshang, etc., support Internet and call (optional)
Ethernet		1, 10M / 1000M adaptive Ethernet

5.2Black body radiant heat source

product name	Black body radiant heat source	

Features
1. More portable and lighter. Higher accuracy.
2. Light weight: the host weighs only 2 kg.
3. Temperature setting, simple operation. Rapid temperature rise and temperature control.
technical parameter

Model Name	HSD-HTX1
temperature range	35℃-45℃
way to control	PID automatic control
Temperature resolution	0.1℃
Radiation surface	78mm*78mm
Cavity emissivity	0.97 ± 0.02
Temperature stability	+(0.1~0.2)℃/30min
Temperature uniformity	± 0.2 ℃ (within 2/3 central area)
power supply	220V AC 50HZ
Host volume (length × width × height)	240mmX110Xmm150m
weight	≤2Kg

working environment	temperature	0℃-30℃
	humidity	≤60%RH

5.3 AI intelligent screening analysis platform

Product Name	AI intelligent screening analysis platform	

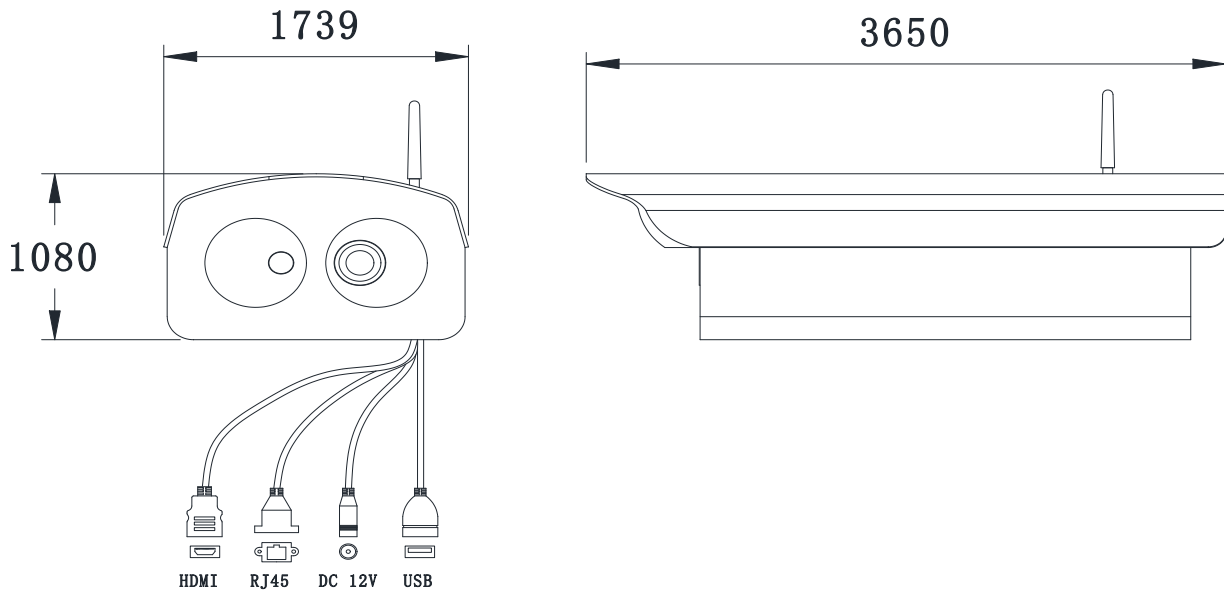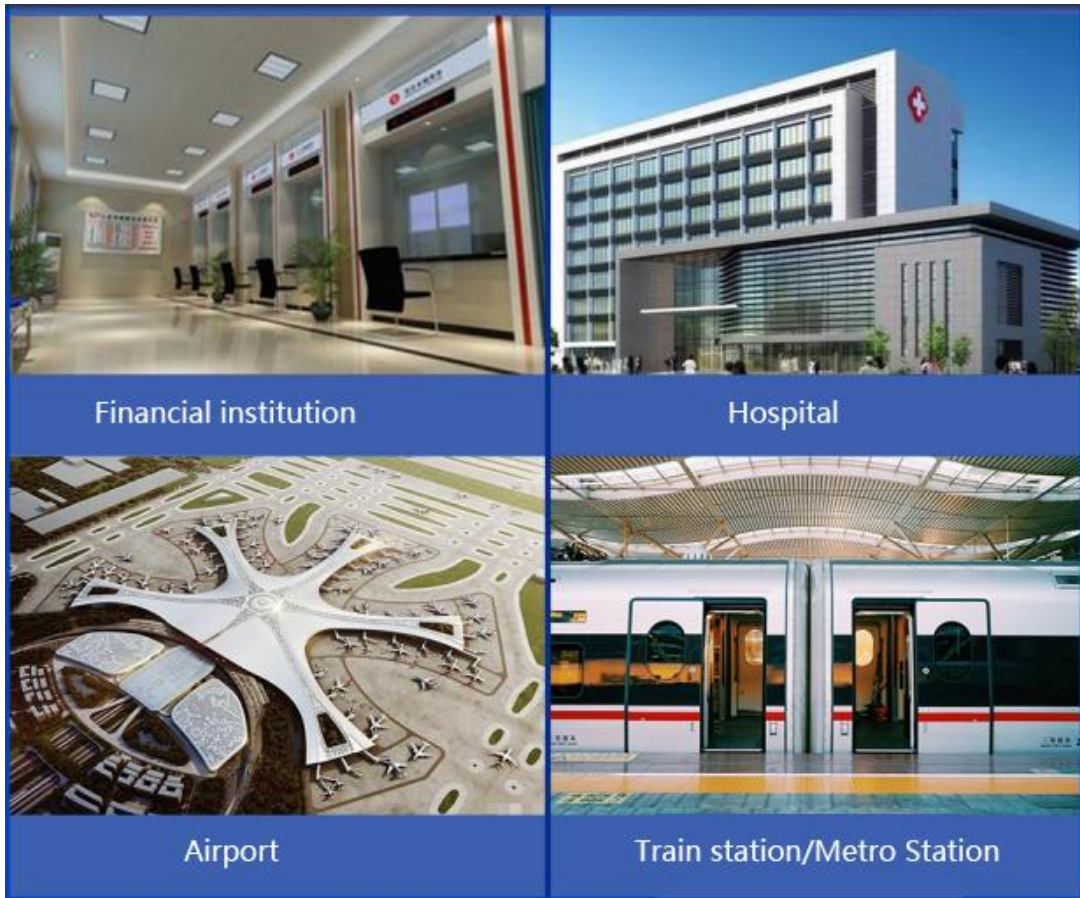| Features |
|---|
| 1.Powerful analysis and processing capabilities; |
| 2.Centralized control of multiple terminal devices, visualized data presentation; |
| 3.Support system docking of attendance, access control, visitors; |
| 4. AI face recognition algorithm module embedding; |
| 5. Detection archive storage management; |

5.4 Monitoring terminal

公司	设备编号	姓名（体温）	通行时间	通行位置	认证头像:热成像图像
互视░░泳科技	YB00░░24(░░前台)	访客 (36.3℃)	2020-03-24 20:26:43	北░░前台	
互视░░░	YB000░4(北京░前台)	吴░░ (36.3℃)	2020-03-24 20:22:48	北░░前台	
互视░░标科技	YB002░(北京░░░░)	段░森 (36.5℃)	2020-03-24 20:22:35	北░░台	
互视░░技	YB000░(北░░░台)	访客 (36.2℃)	2020-03-24 20:20:47	北░░前台	

70	░░堂	2020-03-20	2020-03-20 08:59:37 体温：36.3℃	2020-03-20 18:24:45 体温：35.9℃
70	░░	2020-03-19	2020-03-19 08:57:31 体温：35.9℃	2020-03-19 20:23:47 体温：35.9℃
70	░░	2020-03-18	2020-03-18 09:09:37 体温：36.3℃ 迟到：10分钟	2020-03-18 18:07:19 体温：36.2℃
70	░░	2020-03-17	2020-03-17 09:08:09 体温：36.3℃ 迟到：9分钟	2020-03-17 18:26:33 体温：36.1℃
70	░░	2020-03-16	2020-03-16 09:26:48 体温：35.9℃ 迟到：27分钟	2020-03-16 18:08:41 体温：36.3℃

➢ It can monitor temperature of up to 30 people at the same time, completes temperature measurement without stopping, the temperature deviation is ± 0.3 ℃.

➢ With black-body calibration temperature measurement reference, reducing the interference of ambient temperature on temperature measurement and improve the accuracy of temperature measurement.

➢ Automatically screen out persons with abnormal body temperature, and alert with abnormal alarm.

➢ Intelligent statistics of passing data, statistics of the total number of people, normal body temperature, abnormal body temperature. Analyze the flow of people in each time period.

➢ Original integrated 4K touch all-in-one machine in excellent quality

➢ Wide range product series, flexible matching, free choice

➢ With world's leading display technology, professional image quality performance

➢ Industrial-strength design, support 7 * 24 hours continuous running

➢ Nationwide service outlets provide 24 hours door-to-door service

六、Dimensions of Camera（mm）

1739

1080

HDMI RJ45 DC 12V USB

3650

六、Application Scenarios:

Financial institution

Hospital

Airport

Train station/Metro Station

School

Government office area

Community/Residential quarters

Enterprise Park/Office building

八、Application Project Cases

Lobby of Office Building

Lobby of a bank headquarter

九. Contact us

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