iSmart Video

AI Dual-Cam Body Temperature Measurement Thermal System

FTMC-AH31308

• System Introduction

FTMC-AH31308 Intelligent dual camera body temperature measurement thermal imaging system consists of the following equipment: An intelligent dual-cam human body temperature measuring camera, a human temperature measurement blackbody.

The camera incorporates an integrated high-definition 8mm visible light camera and a 384x288 resolution 13mm thermal camera with temperature detection & measurement capability, together with built-in intelligent temperature compensation algorithm to ensure temperature measurement accuracy, the camera can achieve temperature abnormal alarm, face detection, face recognition, people counting, and other intelligent functions.

The human temperature measurement blackbody is used to periodically correct the temperature measurement accuracy of the thermal camera to ensure the temperature measurement accuracy.

The temperature measurement accuracy of this system can reach ±0.3℃ (with the human temperature measurement blackbody). The usage of thermal imaging technology to achieve non-sensory body temperature detection and screening could reduce the risk of cross-infection and save labor cost and manpower. This technology is widely used in various public places, such as enterprises, shopping malls, supermarkets, schools, hospitals, subways, airports, etc.

• Features & Technical Data

Features

- Uncooled thermal imaging camera;
- Detector resolution 384 x 288;
- Sensor size 17μm;
- Spectral range 8-14μm;
- Sensitivity < 50mk@300K,f1.0;
- 13mm thermal imaging lens ;
- Daylight imaging: 1/2.5” SONY Exmor CMOS;
- 8mm daylight imaging camera;
- H.265/H.264 video compression;
- Face detection, face recognition, AI tracking capability;
- People Counting;
- Support multi-point high temperature triggers automatic tracking alarm;
- Temperature measurement range: 26℃-46℃;

- Temperature measurement accuracy: ±0.3℃（with the human temperature measurement blackbody）.

Camera

Model	FTMC-AH31308
Daylight Imaging	
Video Sensor	SONY 1/2.5” CMOS
Focal Length	8mm
View Angle	44° X 25° Tilt Range Wide（42.8°） Pan Range Tele (6.55°) Tilt Range Tele（3.66°）
Min Illumination	1Lux
DNR	2D/3D
Shutter Speed	1/1~1/10,000S
SN Ratio	>50dB
White Balance	Auto, Manual, One Push
Exposure	Auto, Manual, Shutter Priority
AGC	Auto, Manual
Thermal Imaging	
Detector	Uncooled thermal imaging sensor
Resolutions	384*288
Sensor Size	17μm
Spectral range	8-14μm
Sensitivity	<50mk@300K,f1.0
Focal Length	13mm
Temperature measurement range	26℃-46℃
Temperature measurement accuracy	±0.3℃（with the human temperature measurement blackbody）
Video Display	Black Hot / White Hot /brown hot/red hot/Iron oxide red hot/Color Palettes
Temperature measurement distance	5m
Network	
Resolution	1920*1080
Image Compression	H.265/H.264
Protocols	HTTP/TCP/UDP/RTSP/RTMP/ONVIF
Dual Stream	Yes
General	
Output Interface	RJ45 X1，DC12V X1
Power Consumption	<7W
Working environment	Working temperature 0 ~ 40°C，working humidity 10% ~ 90 %，indoor/no wind
Dimensions (L× W× H)	110mm×70mm×107mm
Weight	1KG

Human Temperature Measurement Blackbody

Model	
Temperature Range	35℃-45℃
Radiation Surface	78mm*78mm

PC (Optional, Requirements)

Model	
Processor	> i3 6th+ generation
Memory	> 6G

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