

ZN-T10

Dual Light Thermal Camera integrated with Black Body



Brief Introduction

ZN-T10 is a visible light thermal camera with high sensitivity, suitable for long-distance human body temperature detection (1.5-5m). It adopts camera + embedded motherboard + black body integrated structure, which can be directly connected to the display without computer to do automatic correction, no fear of the impact of environmental temperature changes on thermal imaging.

Based on artificial intelligence algorithm and infrared thermal imaging temperature measurement technology. It can quickly check and warn people with fever symptoms in the crowd, and accurately display the highest temperature value. The equipment is widely used in large public places such as airports, stations, schools, hospitals, factories and shopping malls.

With automatic face recognition and capture function, The equipment can quickly detect the thermal temperature of the forehead in milliseconds, with an accuracy of 0.3°C. At the same time, ZN-T10 has an automatic temperature measurement algorithm based on artificial intelligence technology, which can accurately identify and count the number of passers-by without on-site manual intervention, and quickly analyze and display the temperature of individual personnel.



Key features

- Dual lens temperature detection Camera
- Contact-less detection range: 1.5-5m
- Creative integral structure: built-in black body and PC
- Non-PC based configuration: all set-ups are available at monitor
- High accuracy algorithm: .0.3 deviation with over-temperature filter
- Big data analysis in Cloud server



Specifications

Visible Lens

Resolution	2.0Mp
Fixed lens	6mm
Sensor	CMOS
Minimum Illuminance	0.01Lux(color)-0.001Lux (Black &White)
S/N	> 56dB
Voltage	5VInput

Thermal Lens

Detector Type	Uncoiled Infrared Array Sensor
Resolution	160X120(384*288)
Pixel Pitch	8~14 um
NETD	≤60mK (F/1,300K, 50Hz)
Frame Rate	15 Hz
Temperature Measurement Data Output	Full Range Temperature Output
Temperature detection range	20°C to 50°C
FoV	40° × 30°
People detected per min	Up to 200

Black Body

Effective radiation area	20mm*30mm
Effective emissivity	0.96 ±0.02
Temperature range	(Ambient temperature+5°C) ~ (50°C)
Temperature resolution	0.01°C
Temperature stability	> ±0.1°C/60mins
Heating time	<2 minute

Motherboard parameters

SOC	Broadcom BCM2711
CPU	64 bit 1.5GHz 4 core (28nm)
GPU	Broadcom VideoCore VI@500Hz
Bluetooth	5.0
USB Port	USB 2.0*2/USB 3.0*2
HDMI	Micro HDMI*2 support 4K60
Powered by	Hype C(5V 3A)
Network	Wi-Fi 802.11AC, Gigabit
Multimedia	H.265(4Kp60 decode); H.264(1080p60 decode,1080p30 encode); OpenGL es,3.0 graphics)

Other Parameters

Smart IR, BLC, HLC, Auto white balance

Working Temperature	0°C to 40°C
Ports	RJ45; USB
Installation Environment	Indoor or Outdoor
Castellations Method	Wall Mounting, Hoisting
Dimensions	230mm*142.6mm*88.5mm
Package size (L*W*H)	265mm*270mm*150mm
Net weight	1.5kg
Gross weight	1.8kg

