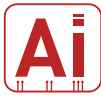


ITS II 300



Thermal Imaging Temperature Screening System



Software



Blackbody with tripod



AC adapter



AI computing server



Tripod



Network cable



Overview

The ITS II 300 system is a non-contact, highly sensitive and flexible deployable AI Thermal Imaging Temperature Screening System developed for the epidemic situation. The system combines high-precision thermal temperature measurement and accurate face recognition technology, which can quickly detect pedestrians of abnormal body temperature and alarm in large crowds area (such as stations, airports, subways, supermarkets, schools, etc.). Provide accurate data and strong support for the rapid development and implementation of epidemic prevention work.

Key Specification

384x288 Thermal resolution	2 Megapixel Visual resolution	$\leq \pm 0.3^{\circ}\text{C}$ (With blackbody) Accuracy
5~10m Measurement distance	0~60°C Measurement range	<0.5s Responsive time

Features

High precision real-time measurement

Un-contact high precise patented intelligent temperature measurement algorithm, upto 320 thousand data.

Free feeling of dense people flow

Meet the requirements of dense flow area control, imperceptible quick passing, to avoid crowds gathering.

High integration application

Simple deployment, easy operation, with auto temperature correction and high temperature alarm presetting.

Network and cloud access

Real-time data storage and analysis of people traffic and alarm, system could connect to network and Cloud.

Application

Airport/Railway station/Bus station/Customs/Wharf

ITS II 300 Specification

Model	ITS II 300
Thermal specification	
Detector	VOx uncooled thermal FPA
Resolution	384×288
Pixel size	17μm
NETD	≤40mK@25°C, F#1.0
Spectrum range	8~14μm
Frame rate	50Hz
Thermal lens	
Focal length	7.8mm
FOV	47°× 35.6°
Visual specification	
Resolution	1920×1080
Focal length	4.7~141mm
FOV (horizontal)	60.5°~2.3°
Temperature measurement	
Measurement range	0°C~60°C
Accuracy	±0.5°C@target temperature of 33°C~42°C (±0.3°C with blackbody)
Correction	Auto/manual
Software functions	
High temperature alarm	Pop-out window alarm / audible alarm
Human face recognition	Intelligent human face recognition
Flux	200 people/minute
Measuring tools	Multi-spots, auto human face tracking
Preview mode	RGB/Thermal image
Data analysis	History data storage, intelligent data searching
Body temperature correction	Intelligent body temperature correction
Connectors	
Power supply	12V DC
Data transmiss	1 channel RJ45 of 10M / 100M / 1000M auto adaption ethernet
Environment adaption	
Working temperature	-10°C~50°C
Storage temperature	-20°C~65°C

Company Information

IRay Technology Co., Ltd. is a wholly-owned subsidiary of Raytron Technology Co., Ltd. (SSE: 688002). As a high-tech enterprise, IRay Technology develops and manufactures infrared FPA detectors, thermal imaging modules, and other products, with completely independent intellectual property rights. We are committed to providing global customers with professional thermal imaging products and solutions. The main products include IRFPA detectors, thermal imaging cores, and terminal products for application.

With R&D personnel accounts for 51% of all employees, IRay Technology owns 311 patented technologies in multiple fields, such as the development of integrated circuit, the design and manufacture of MEMS sensor, and Matrix III image processing algorithms.

IRay products have been applied in various fields, such as aerospace, disease control and prevention, industrial temperature measurement, intelligent surveillance, outdoor observation, ADAS, AIoT, AI, and machine vision.

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