



**ITSII Series**  
**Intelligent Infrared Body Temperature Screening System**  
**User Manual**  
**V1.0.0**

IRay Technology Co., Ltd.

[www.infiray.com](http://www.infiray.com)

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This manual is used as a guide. The photos, graphics, diagrams and illustrations provided in the manual are only used to explain, which may be different from the specific product. Please refer to the real object. We try our best to make sure the contents in this manual are accurate. We do not provide any representations or warranties in this manual.

If you need the latest version of this manual, please contact us. IRay Photoelectric recommends that you use this manual under the guidance of professionals.

## Version history

Version	Date	Description
V1.0.0	2020-04-13	Initial version

## 1. Product Overview

ITSII 300 intelligent infrared body temperature screening and alarm system has features such as high temperature accuracy , intelligent face recognition, real-time temperature tracing, passing people counting and flexible deployment etc. It is integrated with high precise infrared temperature measurement technology and accurate face recognition technology, and can be used for non-contact rapid body temperature screening in the crowded public places such as station, airport, subway, supermarket, hospital, school, etc, to alarm with the abnormal body temperature and provide powerful support for the epidemic prevention and control.



Figure 1 Product appearance

## 2. Specification

**Table 1 Product parameters**

Product model	ITSII300
<b>Infrared detector index</b>	
Detector type	VOx Uncooled Infrared FPA Detector
Resolution	384×288
Response spectrum	8 ~ 14μm
<b>Lens parameters</b>	
Focal Length	7.8mm
Focusing type	Support electric/manual focusing
FOV (H×V)	47 °×35.6 °
I FOV	2.1mrad
<b>Visible camera index</b>	
Resolution	1920×1080
Focal length	4.7 ~ 141mm
HFOV	60.5 °~ 2.3 °
<b>Temperature measurement</b>	
Measuring range	0 ~ 60°C
Measuring accuracy <sup>(1)</sup> @environment temp. 16°C ~ 32°C (with blackbody)	±0.3°C@target temp. 33°C ~ 42°C
Effective measuring distance	2 ~ 10m
<b>Software functions</b>	
Face detection	Intelligent face detection, up to 50 faces can be detected in one frame image
Temperature measuring mode	Multi-point temperature detection; Automatic face tracking temperature measurement;
High temperature alarm	Support high temperature alarm setting, Support alarm signals with window/sound/GPIO
Preview mode	Visible/Infrared
Data analysis	1TB history data storage space is reserved, support search with the data features of face mask, alarm type, time etc.
Body temperature correction	Intelligent temperature correction
People flux	200 people / min
Remote login	Support WEB remote access, and real-time preview and alarm
Networking	Support 4 channels camera
Personal identity verification (Optional function)	Support local face library comparison
<b>Interface</b>	

<b>Power supply</b>	12VDC
<b>Network interface</b>	1 个 RJ45、10M/100M adaptive Ethernet port
<b>Alarm output</b>	GPIO: 5 channels input, 4 channels relay output NC/NO RS232: 1 channel RS485: 1 channel
<b>Audio input</b>	1 个 LINE-IN 3.5mm audio interface
<b>Audio output</b>	1 个 LINE-OUT 3.5mm audio interface
<b>Video output</b>	HDMI
<b>Environment adaptation</b>	
<b>Operating temperature</b>	-10°C ~ 50°C
<b>Storage temperature</b>	-20°C ~ +65°C
<b>Humidity</b>	5 ~ 95% , no condensation

Note:

- (1) Please refer to GB/T 19665-2005 for environment requirement if there is no blackbody ; The environment temperature should be 16~32°C when blackbody is used(at room, without environment mutation).

### 3. Structure

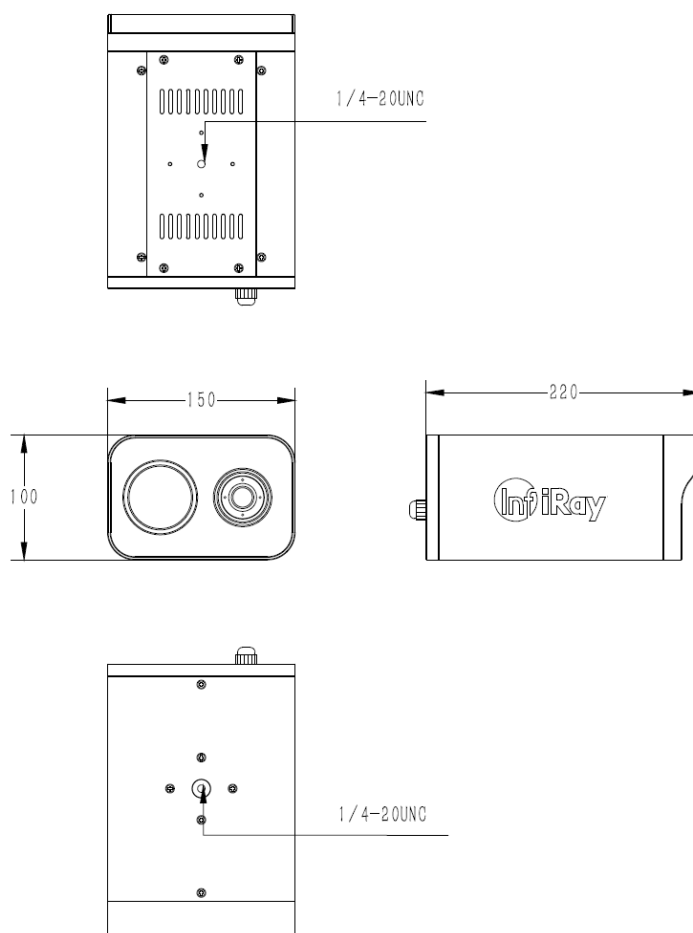


Figure 2 ITII300 camera structure

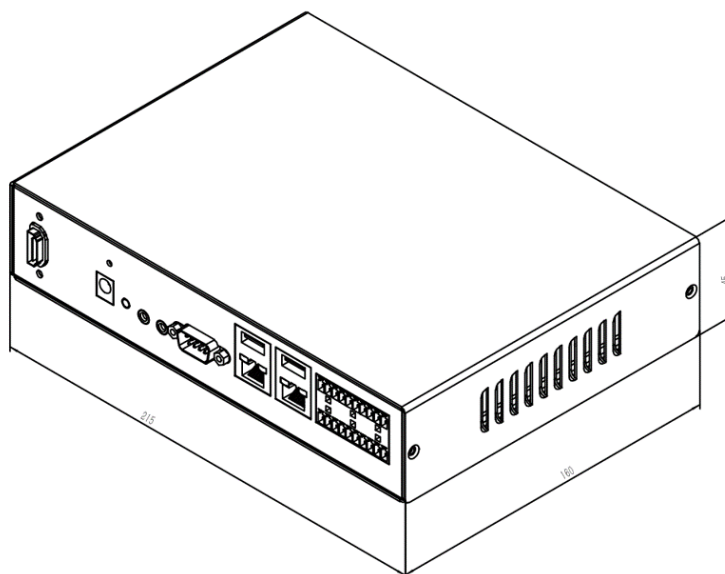


Figure 3 Intelligent infrared body temperature screening system server

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## **4. Technical Support and Service**

### **4.1 Technical Support**

System support can be provided to users' technical personnel and operating personnel .

### **4.2 After Sales Service**

ITSII series intelligent infrared body temperature screening system is developed by IRay. Equipment maintenance and repairment service can be guaranteed. If you have any demands , please contact us.

## **5. Company Information**

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