

广州飒特红外股份有限公司  
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# CK380M

## SATIR/人工智能/热成像/体温筛查系统

SATIR AI THERMAL IMAGING FEVER SCREENING SYSTEM



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### Alarm info Detail

Temp: 36.5

Datetime: 05-23 11:00:20

生成报告

Temp: 36.2

Datetime: 05-23 11:00:21

生成报告

Temp: 36.8

Datetime: 05-23 11:00:21

生成报告

Temp: 36.2

Datetime: 05-23 11:00:22

生成报告

Temp: 36.7

Datetime: 05-23 11:00:22

生成报告

	相似度: 95%		姓名: 李兵
	相似度: 89%		姓名: 周伟
	相似度: 90%		姓名: 王铁柱

Connect Auto\_focus Shutter IR CCD Stop Snapshot Record Mute PTZ Settings Exit

# 行业背景概括

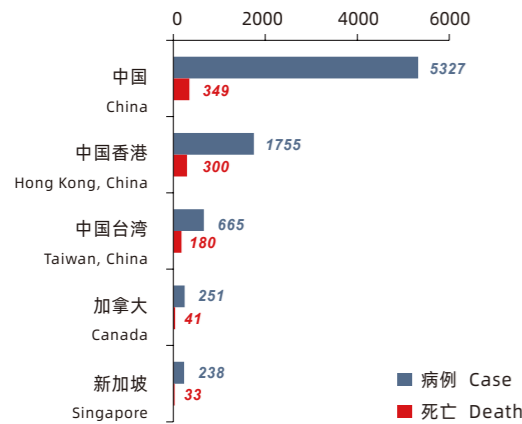
INDUSTRY BACKGROUND SUMMARY

## 传染病的危害

Hazards of infectious diseases

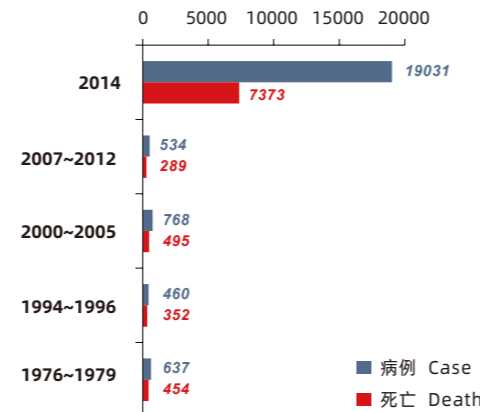
WHO 公布的2003年SARS疫情统计数据 (截至2003年7月11日):

Statistics of SARS epidemic in 2003 released by WHO (as of July 11, 2003):



埃博拉作为当今世界上最致命的病毒性出血热, 历次疫情统计数据:

Ebola, as the deadliest viral hemorrhagic fever in the world today, the statistical data of previous epidemics:



## 传染病与发热的密切关系

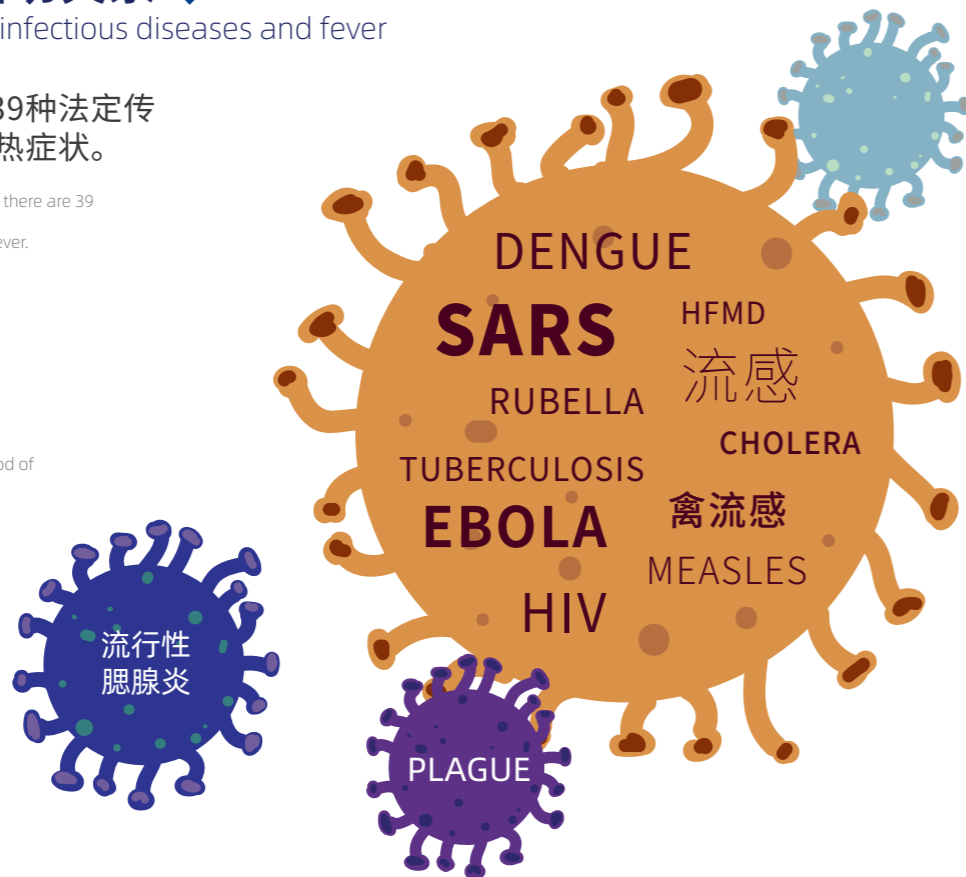
Close relationship between infectious diseases and fever

据临床表现统计, 在我国39种法定传染病中, 28种先期都有发热症状。

According to the statistics of clinical performance, there are 39 legal transmissions in our country. In the disease, 28 kinds of early symptoms have fever.

体温筛查是疫情预测、控制的重要手段。

Body temperature screening is a significant method of epidemic prediction and control.



## 传染病防控指导原则

Guiding principles for the prevention and control of infectious diseases

- 早发现 Early Discovery
- 早报告 Early Report
- 早治疗 Early Treatment
- 早隔离 Early Isolation
- 切断传播途径 Cut off the infection path
- 防止扩散 Prevent spreading



## 系统介绍

SYSTEM INTRODUCTION

## SATIR/人工智能/热成像/体温筛查系统

SATIR AI Thermal Imaging Fever Screening System



### 智能人脸识别

多目标人脸识别, 快速锁定超温人员

Intelligent Facial Recognition  
· Conduct multi-object facial recognition and rapid identification of a person with fever.



### 红外热成像测温

· 远距离非接触式测温  
· 实时、准确、安全、高效  
· 可同时对多个目标进行快速测温

Infrared Imaging Temperature Measurement

· Non-contact temperature measurement from a distance  
· Real-time, accurate, safe, efficient  
· Conduct rapid temperature measurement to multiple objective simultaneously.



### 数据追踪

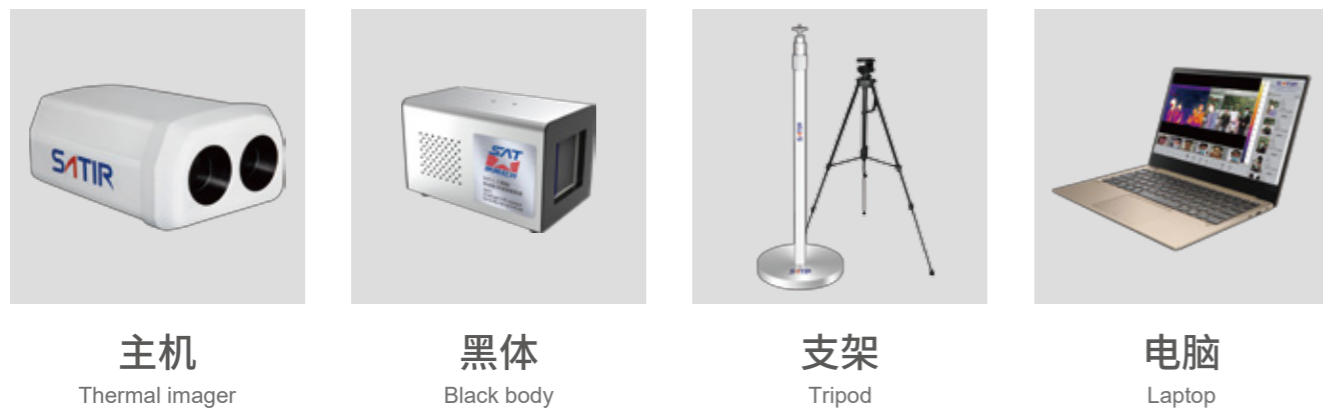
· 超温报警抓拍, 不遗漏任何超温目标

Data Tracking  
· Over-temperature alarm snapshot to omit no any over-temperature objectives.

### 系统软件组成 ◆◆ System software composition



### 系统硬件组成 ◆◆ System hardware composition



主机  
Thermal imager

黑体  
Black body

支架  
Tripod

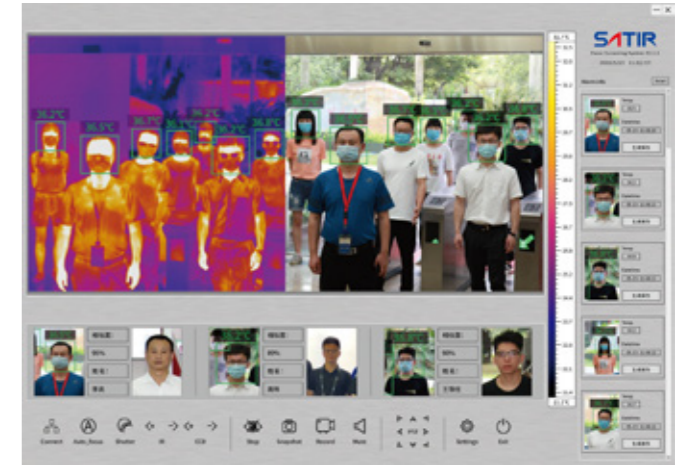
电脑  
Laptop

## 系统功能介绍 SYSTEM FUNCTION INTRODUCTION

### 在线监测快速测温 ◆◆ Online monitoring for rapid temperature measurement

可同步侦测多达20个目标，响应时间在30毫秒以内，实现被检测人流经过检测区域的动态检测，解决了接触式测温费时费力效率低的问题。

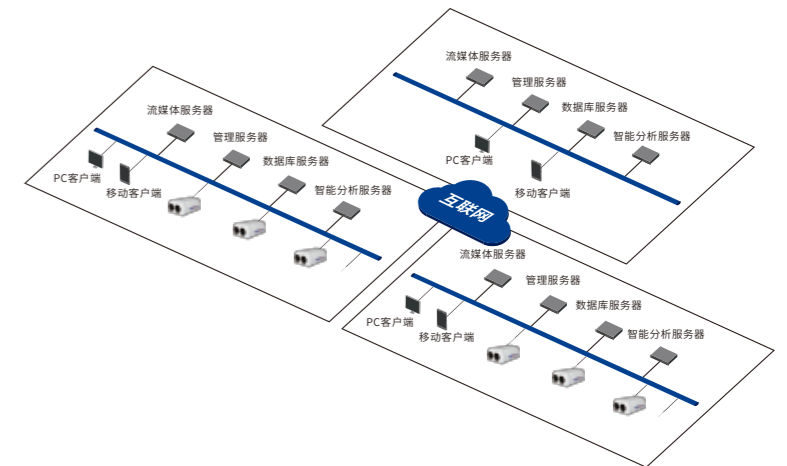
Simultaneous detection of up to 20 targets with a response time of less than 30 milliseconds enables dynamic detection of detected people passing through the detection area, solving the problem of time-consuming, labor-intensive and inefficient contact temperature measurement.



### 多级分布式架构 ◆◆ Multilevel Distribution Architecture

系统支持多级组织架构和分布式部署。按照使用场所、卡口数量、测温目标数量的不同，可采取不同部署模式。

The system supports multi-level organizational structure and distributed deployment. According to the different places of use, the number of bayonet, the number of temperature measurement targets, different deployment modes can be adopted.



### App应用 ◆◆ Application

通过App实时获取测温检测动态，无需安保人员24小时站岗；支持数据回传，便于后台监控。

Obtain real-time temperature measurement dynamic information through APP and need no security personnel to be on duty 24/7; Support data transmission for backstage monitoring.



# 应用领域

APPLICATIONS



学校  
School



机场  
Airport



车站  
Station



政府机构  
Government agency



商业区  
Business district

## 使用案例

Application Case



## 解决方案

Supporting plan



# 系统拓扑图

SYSTEM TOPOLOGY

◆  
黑体提升温度  
检测精准度

Blackbody raises temperature  
detection accuracy

◆  
通过标准网线  
传输电脑

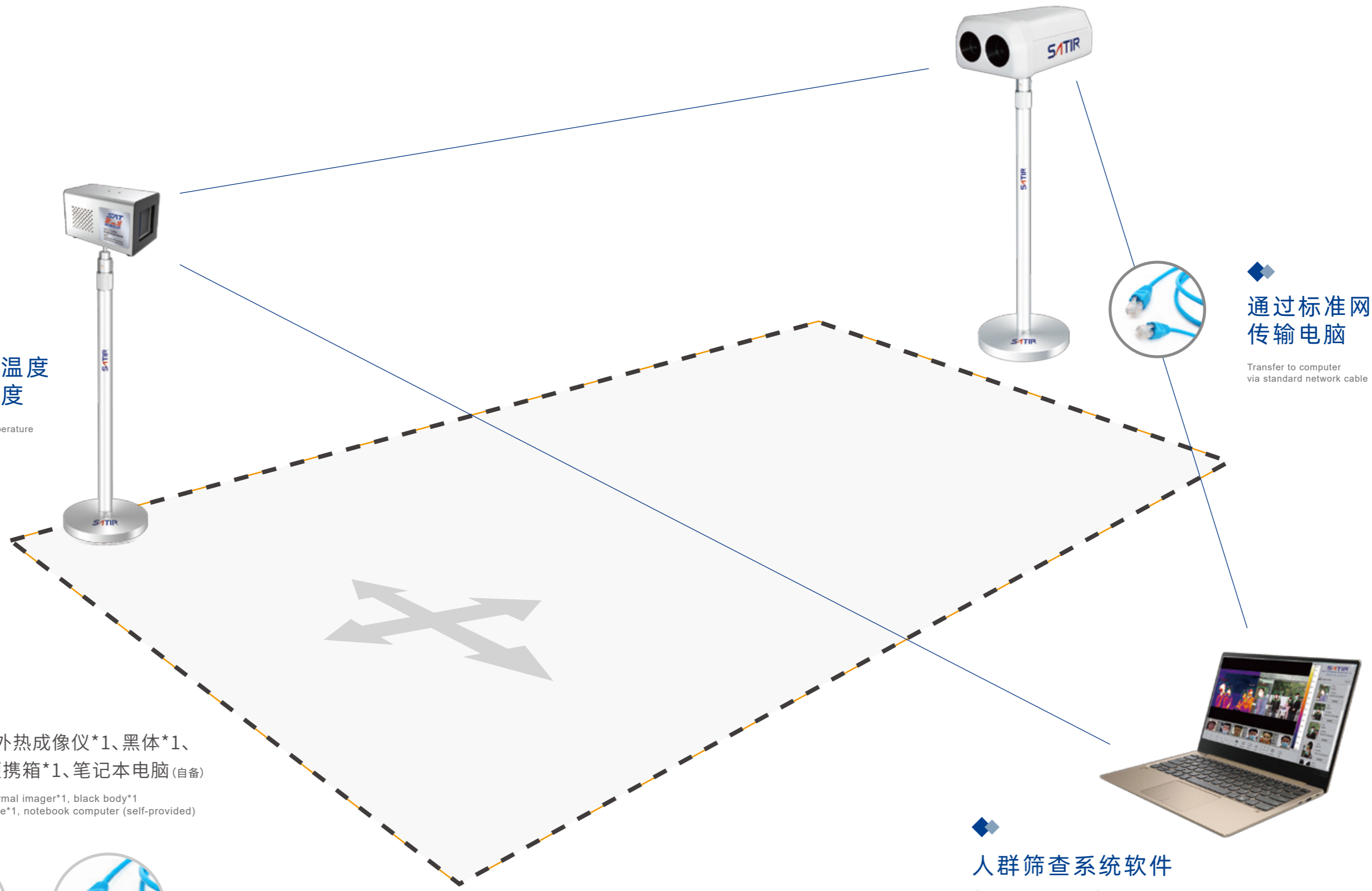
Transfer to computer  
via standard network cable

CK380M 红外热成像仪\*1、黑体\*1、  
支撑架\*2、便携箱\*1、笔记本电脑 (自备)

CK380M infrared thermal imager\*1, black body\*1  
tripod\*2, carrying case\*1, notebook computer (self-provided)

◆  
人群筛查系统软件

Fever screening system software



# 系统技术参数

## SYSTEM TECHNICAL PARAMETERS

红外特性	
探测器类型	非制冷焦平面
探测器分辨率	384 x 288
视场角	52° x 39°
镜头焦距	7mm
NETD	≤0.05°C@30°C
空间分辨率	2.4mrad
工作波段	8-14um
焦距调焦方式	定焦

### Infrared characteristics:

Detector type: uncooled focal plane; Detector resolution: 384 x 288; Viewing angle: 52° x 39°; Lens focal length: 7mm; NETD: ≤0.05°C@30°C; Spatial resolution: 2.4mrad; Working band: 8-14um; Focal length adjustment method: fixed focus

可见光特性	
类型	1/1.8"SONY Progressive Scan CMOS
有效像素	200W, 1920x1080
焦距调节方式	电动变焦
镜头焦距	3.6-10mm
最低照度	IR ON 0Lux, 140dB TWDR
人脸侦测	内嵌人脸抓拍算法
人脸检测	最多32个
视频压缩标准	H.264/H.265/MJPEG
音频压缩格式	G.711A/G.711U/G.726
视频屏蔽	4个区域
图像设置	色彩饱和度、亮度、对比度、色调、锐度、Gamma、数字宽动态

### Visible light characteristics:

Type: 1/1.8"SONY Progressive Scan CMOS; Effective pixels: 200W, 1920x1080; Focal length adjustment method: electric zoom; Lens focal length: 3.6-10mm; Minimum illumination: IR ON 0Lux, 140dB TWDR; Face detection: Embedded face capture algorithm; Face detection number: up to 32; Video compression standard: H.264/H.265/MJPEG; Audio compression format: G.711A/G.711U/G.726; Video shielding: 4 areas; Image settings: color saturation, brightness, contrast, hue, sharpness, gamma, digital wide dynamic

测温特性	
测温范围	0°C ~ +60°C
测温精度	±0.2°C (配黑体) / ±0.3°C
测温报警	超温报警
多测温目标检测	同时支持对20个目标进行测温检测
人脸测温	有
报警抓拍	有
报警记录	有

### Temperature measurement characteristics:

Temperature measurement range: 0°C ~ +60°C; Temperature measurement accuracy: ±0.2°C (with black body)/±0.3°C; Temperature alarm: over temperature alarm; Multi-temperature target detection: simultaneously supports temperature detection for 20 targets; Face temperature measurement: Yes; Alarm snapshot: Yes; Alarm record: yes

网络特性	
网络协议	TCP/IP、UDP、RTP、RTSP、RTCP、HTTP、DNS、DDNS、DHCP、FTP、NTP、PPPOE、SMTP、UPNP
ONVIF 协议	支持PROFILE S

### Network characteristics:

Network protocols: TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP; ONVIF agreement: support PROFILE S

接口特性	
网络接口	RJ-45, 10/100Base-T
电源接口	DC12V
音频接口	1路音频输入, 1路音频输出, 支持双向语音
报警接口	2路报警输入, 2路报警输出
模拟视频输出接口	BNC, 75 ohm
云台控制接口	RS485

### Interface characteristics:

Network interface: RJ-45, 10/100Base-T; Power interface: DC12V; Audio interface: 1 audio input, 1 audio output, supports two-way voice; Alarm interface: 2 alarm inputs, 2 alarm outputs; Analog video output interface: BNC, 75 ohm; PTZ control interface: RS485

环境参数	
工作环境温度	0°C ~ +30°C
存储环境温度	-40°C ~ +70°C
湿度	≤95% 非冷凝

### Environmental parameters:

Working environment temperature: 0°C ~ +30°C; Storage temperature: -40°C ~ +70°C; Humidity: ≤95% non-condensing

系统软件	
标配软件	FeverScreeningSystem

### System software:

Standard software: FeverScreeningSystem

物理特性	
重量	2.07KG
尺寸(长x宽x高)	265mm X 176mm X 109mm

### Physical characteristics:

Weight: 2.07KG; Dimensions (LxWxH): 265mm X 176mm X 109mm



## 广州飒特红外股份有限公司

是国内最早从事红外热成像产品研发与生产的企业，是国家标准持有单位。

SATIR is the earliest domestic enterprise engaged in the research and development and production of infrared thermal imaging products, and is the national standard holding unit.



公司产品以“飒特红外”为品牌，曾参与抗击“非典”、“埃博拉”等疫情并做出重大贡献，是国际著名的热像仪产品品牌。

The company's products are branded with SATIR. As an internationally renowned brand of thermal imaging cameras, SATIR has participated in the fight against SARS, Ebola and other epidemics and made significant contributions.



公司所研发的“SATIR/人工智能/热成像/体温筛查系统”，可以安全准确地对密集人群进行检测并快速从中筛查出高热人员，对防止疫情扩散提供强有力的支持。

The SATIR AI Thermal Imaging Fever Screening System developed by the company can safely and accurately detect dense populations and quickly screen out high fever personnel, providing strong support for preventing the spread of the epidemic.



该系统最大的优点是：施测人可在两米以外杜绝“飞沫传染”的环境下安全工作。

The biggest advantage of this system is that the tester can work safely two meters away to prevent droplet infection.