Infisense FS256 Pro
全 自 动 双 光 筛 查 系 统

Instructions and User Guide
说明书及使用指南

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01 Product Introduction

Infisense FS256 Pro Auto Screening System can be used to collect large quantities of temperatures and visible light images by thermal imaging in crowded places without stopping. With advanced AI face recognition technology and reliable infrared temperature measurement algorithms, FS256 Pro acquires the temperature through a non-contact method within the range of 4 meters. Once over-temperature targets are found, an automatic alarm will be triggered and their photos will be stored.

02 Application Scenarios

This product is suitable for various public places, such as office buildings, shopping malls, schools, airports, stations, and factories.

03 Product Specifications

Infisense FS256 Pro Auto Screening System	
Model	FS256PRO
Infrared Camera	
Resolution	256 × 192
Pixel Size	12μm
NETD	≤50mK
Frame Rate	25Hz
Focal Length	3.2mm
Field Angle	56° × 42°
F#	1.1
Visible Camera	
Resolution	1280 × 720
Field Angle	FOV 80°
Focal Length	4.4mm
Accuracy of Temperature Measurement	
Measuring Range	30℃ ~ 45℃
Accuracy	±0.5℃ (@environment temperature of 10℃ ~ 40℃)
Temperature Measurement Distance	≤4m
Finished Machine Interface	
Finished Machine Interface	HDMI
Power	
Power Input	AC100-240V, 50/60Hz, 0.5A
Power Output	DC 5V 3A
Software Functions	
High-temperature Alarm	High-temperature alarm and image capture
File Export	Support inquiry, screening, and export the history to the local disk
Live Preview	Live preview of visible and infrared image
Face recognition	AI face recognition and tracking
Parameter Settings	Pseudo-color selection, alarm, language, and correction value setting
Environmental Suitability	
Working Temperature	10℃ ~ 50℃ (Accurate measurement @environment temperature of 10-40℃)
Storage Temperature	-20℃ ~ 60℃
Packing Specifications	
Thermal Camera Size	190mm × 110mm × 100mm
Packing Size	394mm × 194mm × 153mm
Weight	Net weight: 1420g; Gross weight: 1784g (The actual shipment weight shall prevail.)
Tripod Size	Folding height: 540mm; Unfolding height: 1560mm

* Technical parameters are for reference only. If there are changes, actual parameters shall prevail, and there won't be further notice.

04 Components List

No.	Type	Component Name	Quantity	Position in the Picture
1	Dual-vision Camera (Dual Thermal / Visible-Light Camera)	Dual-vision Camera	1	①
2	Power Adapter	Power Adapter (5V 3A)	1	②
3	FS256 Pro Box (Centrally-Controlling Machine Set)	FS256 Pro Box	1	③
4		FS256 Pro Box remote control	1	③
5		HDMI cable	1	③
6	Accessories	Tripod screw	1	
7		L-type wrench	1	
8	Tripod (optional)	Tripod	1	

05 Packing sketch

06 Installation method

(1) Please install the Dual-vision Camera to the tripod facing the monitoring channel and being flush with people's height. The angle between the camera and the channel shall be controlled within 45°;

(2) Behind the Camera, there are two USB cables. One shall be connected to "Interface 1" of the FS256 Pro Box, and the other shall be connected to "Interface 2";

(3) Please connect one end of HDMI cable to "Interface A" of the box, and the other to a television/displayer with audio functions;

(4) Insert the power supply cord to the "Interface B" of the box to finish the installation.

FS256 Pro Box and Interface

Dual-vision Camera

07 Software Instructions

(1) Software Initialization

Please connect the FS256 Pro box to the Internet according to the following process:

Click "Homepage ⌂" button and use the direction key to select "Setting". Select and click the Wi-Fi button on the menu and enter the password after choosing your Wi-Fi. Then the FS256 Pro box will get time information automatically after being connected to Wi-Fi.

(2)Software Start

The software will run automatically after FS256 Pro box is powered on, and you can also choose to enter the software through remote control. When the FS256 Pro box is used for the first time or the software is re-installed, the software needs to re-get the permission. And in such conditions, the software cannot be started automatically. Please select the software manually and allow its access permission.

(3)Software Interface Introduction
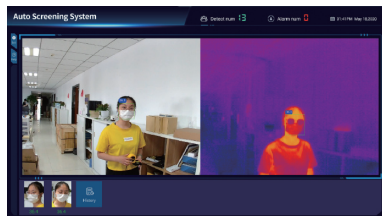
Software Interface

The main software interface has two main parts, namely HD visible light real-time image and infrared real-time image. The total number of people tested, the number of alarms, and time information today are shown on the upper right of the interface. The "Setting" and "Help" buttons are on the left. The face screenshot records are on the bottom. The detailed introductions with pictures are shown as below:

a.HD Visible Light Real-time Image & Infrared Light Real-time Image
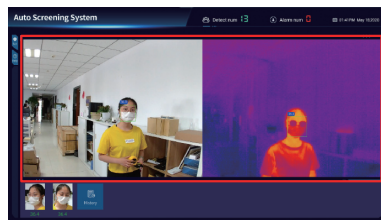
Main Interface of the Software - Visible Light Image area

On the left of the interface, it is the real-time visible-light image. The software will recognize the human face and display real-time body temperature. The software supports 10-face recognition simultaneously at most. The infrared light real-time image is on the right.

b.Information Display of the People Stream Detected
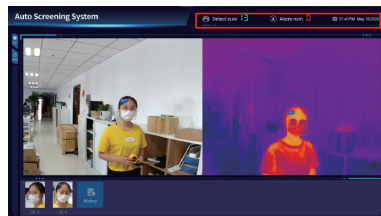
Main Interface of the Software - Information of People Stream Detected

On the upper right of the interface, "Detect num" shows the total number of people detected by the software today. "Alarm num" means the number of people of abnormal temperature. The rightmost shows the current date and time (It can only be acquired in real-time through the Internet.).

c. History
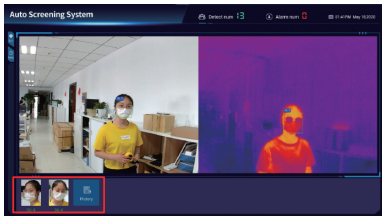
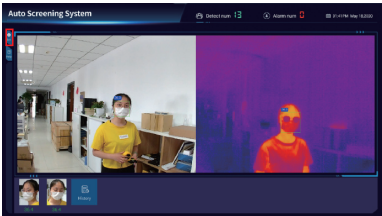Main Interface of the Software - History Area

The detected faces and their temperatures are displayed below the main interface. Click the mouse button on the remote control to enter the "Mouse Mode". Move the mouse to "History" and press "OK" on the remote control to enter the "History Interface", where all the recorded images are displayed. Those boxes in the green background have normal temperatures, while those in red have abnormal temperatures.
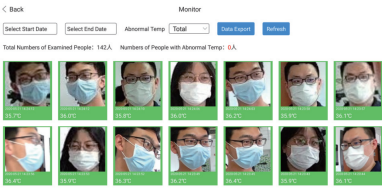

History Interface

Start date and end date for display can be selected through "Select Start Date" and "Select End Date". In the drop-down menu of abnormal temp, three display modes can be selected: total, normal, or abnormal. Click "Data Export" to export all records, and export results are placed in the "FS256_export" file folder.

d.Parameter Setting

Main Interface of the Software - Setting

Click the "Set" button on the left, and then the "Setting Interface" will pop up.
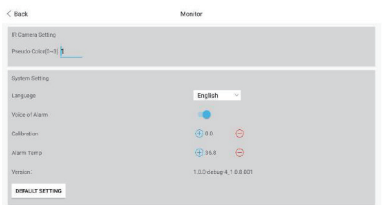
Software Setting Page

The list of detailed functions is as below:

Category	No.	Setting	Description	Min	Max
IR Camera Setting	1	Pseudo Color	Pseudo colors, the default is 1	0	3
System Setting	2	Language	Language setting, Chinese/English	-	-
	3	Voice of Alarm	Open the alarm sound or not	-	-
	4	Calibration	Calibration value of temperature, taking 0.1 as the step length	-5.0°C	5.0°C
	5	Alarm Temp	Alarm threshold	36.0°C	38.0°C

e.Help Interface

Main Interface of the Software - Help Area

Click the "Help" button to pop up the "Help" page.

08 Points for Attention

(1) Please do use the self-contained power adapter for power supply to guarantee personal safety and product life.

(2) Please do not put the product in a humid place or wash it to avoid the leakage of electricity or short circuit.

(3) Please do not remove parts arbitrarily to avoid failure or safety accidents.

(4) When the machine is not used for a long time, please put it away and store it in a dry environment.

09 Contact Us

Wuxi Infisense Technology Co., Ltd. was established in 2016 as a wholly-owned subsidiary of Yantai Raytron Technology Co., Ltd. (SH: 688002). We are the leading supplier for consumption-level infrared thermal imaging products in China. We are devoted to bringing thermal imaging products to everyone, every family and organization, and creating a world of "visible temperature".

Our infrared products are competitive and stable, concentrating on the field of thermal imaging temperature measurement in various industries, such as wearable devices, IoT, smart home, and automotive electronics. Through cooperation with the software platforms, we create new added value for our customers. In Infisense, we focus on customers' demand and keep innovating. To concentrate on the technical breakthroughs in the professional field, large amounts of funds are invested, and numerous R&D personnel is employed.

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01 产品简介

Infisense FS256 Pro 全自动双光筛查系统可在人流密集场所进行批量无停留的红外温度采集和可见光图像捕获。FS256 Pro 采用先进的 AI 人脸识别技术及可靠的红外测温算法，可在四米以内范围进行非接触式温度获取，发现超温目标后，自动报警并存储照片。

02 应用领域

本产品适用于机场、车站、工厂等公共场所和人群密集处。

03 产品规格

Infisense FS256 Pro全自动双光人体测温仪	
产品型号	FS256PRO
红外部分	
分辨率	256×192
像元尺寸	12μm
NETD	≤50mK
帧频	25Hz
焦距	3.2mm
视场角	56°×42°
F#	1.1
可见光部分	
分辨率	1280×720
视场角	FOV 80°
焦距	4.4mm
测温准确性	
测温范围	30℃～45℃
测温精度	±0.5℃（环温10℃～40℃）
测温距离范围	≤4m
整机接口	
整机接口	HDMI
电源	
电源输入	AC100-240V, 50/60Hz, 0.5A
电源输出	DC 5V 3A
软件功能	
高温报警	高温报警及图像抓拍
文件导出	支持历史记录查询、筛选、导出到本地
实时预览	可见光、红外图像实时预览
人脸识别	智能人脸识别及跟踪
参数设置	伪彩选择、语言设置、报警及校正值设置等
环境适应性	
工作温度	10℃～50℃（环温10℃～40℃精准测温）
存储温度	-20℃～60℃
包装规格	
机头尺寸	190mm×110mm×100mm
包装尺寸	394mm×194mm×153mm
重量	净重：1420g，毛重1784g (以实际发货为准)
三脚架尺寸	折叠尺寸：540mm，展开高度：1560mm

*技术参数仅供参考，如有变更以实际参数为准，恕不另行通知。

04 组件清单

编号	类别	配件名	数量	图示位置
1	双光筒机	双光筒机	1	①
2	电源适配器	电源适配器(5V 3A)	1	②
3	中控机套组	中控机	1	③
4		中控机遥控器	1	③
5		HDMI线	1	③
6	装配件	三脚架螺丝	1	
7		L型扳手	1	
8	三脚架(选配)	三脚架	1	

05 包装示意

06 安装方法

1)将筒机安装在三脚架上,筒机正对监测通道,与人身高平齐,筒机与通道夹角控制在45°以内;

2)将筒机后端伸出的两根USB线分别插入安卓盒子接口1、接口2;

3)将 HDMI 线一端接入安卓盒子接口A,另一端接入带有音频功能的显示设备;

4)将电源插入安卓盒子接口B,完成安装。

中控机主体及接口示意

双光筒机及接口示意

07 软件使用指南

(1) 软件初始化

将中控机接入Wi-Fi,流程如下:

点击"主页⌂"按钮,使用方向键选择"设置Setting",
在菜单中点击Wi-Fi按钮;

选择您的Wi-Fi并输入密码,连接至无线网络后中控机
将自动获取时间信息。

(2)软件启动

本软件在安卓盒子上电后会自动运行,也可通过使用
遥控器选择FS256 Pro软件图标进入。安卓盒子在首
次使用或是重装软件时,需要获取权限,该情况下无
法自动进入软件,请手动选择FS256 Pro软件图标并
同意获得权限。

(3)软件界面介绍
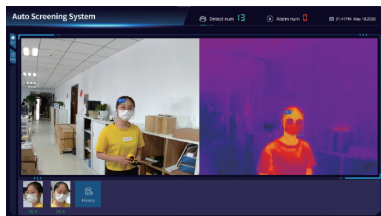
软件主界面

软件主界面分为可见光高清画面及红外实时画面两
个主要部分,画面右上方显示今日检测的总人次、报
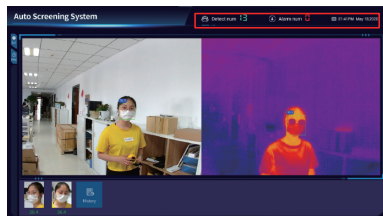警人次以及时间信息,左侧为设置和帮助按钮,底部
为人脸截图记录。

详细图文介绍如下:

a.可见光高清图像&红外实时影像

软件主界面-可见光影像区
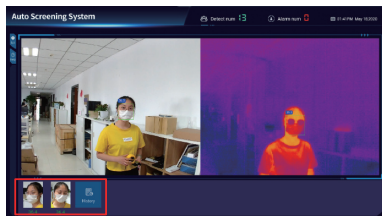
界面主要区域左侧为可见光实时影像,自动识别人脸
并显示实时体温,支持最多10人同时识别;右侧为实
时红外影像。

b.人流检测信息展示

软件主界面-人流检测信息区

右上方"Detect num"显示今天检测到的总人流量,
"Alarm num"显示检测到的异常体温个数,最右
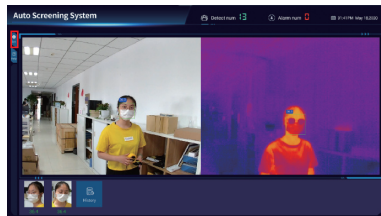侧显示当前时间,联网自动更新。

c.历史记录

软件主界面-历史记录区

主界面下方展示识别到的人脸及温度,点击遥控器上的"鼠标"按钮,进入鼠标模式,移动光标至"History"并点击遥控器上的"OK"键即可进入历史界面,显示全部记录的人像,绿框为正常,红框为异常。

软件历史记录界面
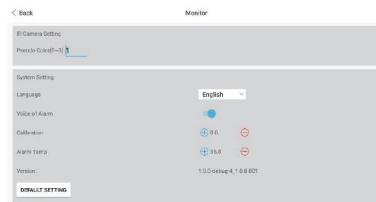
通过"Select Start Date"和"Select End Date"选择框可以选择显示的起始日期和结束日期。"Abnormal temp"下拉菜单中可以选择所有记录(Total)、正常测温记录(Normal)或异常记录(Abnormal)。点击"Data Export"按钮导出所有记录,输出的结果放在"FS256_export"文件夹内。
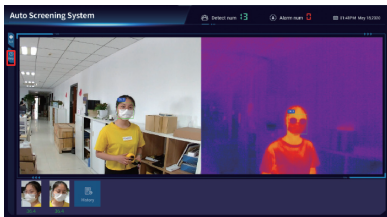
d.参数设置

软件主界面-设置按钮

点击左侧"Set"按钮,弹出"设置界面"。

软件设定页面

详细功能列表如下:

Category	No.	Setting	Description	Min	Max
IR Camera Setting	1	Pseudo Color	伪彩,默认为1	0	3
System Setting	2	Language	语言设置,可选中/英文	-	-
	3	Voice of Alarm	报警声音使能	-	-
	4	Calibration	温度校准值,步长0.1	-5.0°C	5.0°C
	5	Alarm Temp	报警阈值	36.0°C	38.0°C

e.帮助页面

软件主界面-帮助按钮

点击帮助按钮将显示帮助页面。

08 注意事项

请务必使用自带电源适配器进行供电,以保证人身安全和产品寿命。

严禁把产品放在潮湿的地方或用水冲洗,以避免造成漏电或电路短路。

严禁私自拆除零件,以免引起设备故障或安全事故。

长期不使用本机时,请将设备收好,保存在干燥环境中。

09 联系我们

无锡英菲感知技术有限公司成立于2016年,为烟台睿创微纳(股票代码:SH688002)全资子公司,是国内领先的消费级红外热成像产品供应商。我们致力于将热成像产品带给每个人,每个家庭和组织,创造一个"看得见温度"的世界。

我们的红外产品具有竞争力及稳定性,致力于穿戴设备、物联网、智能家居及汽车电子等行业的热成像测温领域,通过与软件平台的协同运作,我们为客户创造新的附加价值。在英菲感知,我们着眼于客户需求,持续创新,投入大量研发人员和资金,专注于专业领域的技术突破。

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