

SenseThunder-E
Thermal Camera

Product Specifications



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Introduction

1.1 Description

SenseThunder-E is a high precision non-refrigerated infrared thermal camera. This product not only meets the requirement of high-precision infrared human body temperature measurement, but also associates the temperature with user's information automatically, thereby dispense with tedious manual registration. In the outbreak of the new coronary pneumonia, there is an urgent demand for long-distance temperature measurement, irregular temperature alert and blocking of traffic. The solution's combination with popular facial recognition devices in this situation, effectively meets the gobal demands and standards. There is no need to keep an eye on the screen, the device will trigger automatically. After the epidemic period, SenseThunder can be used in indoor entrance in campuses oroffice buildings, togetherwith facial recognition products, to effectively screen people with abnormal body temperature for humane care.

1.2 Product Features

◆ Temperature Measurement Distance: 0.5m~2m

• Accuracy: ± 0.3 °C (no black body required)

• Operating Environment: Indoor windless place

1.3 Functions

- 1. Communication and power supply with SensePass Pro via USB interface- easy to deploy.
- 2. After the temperature measurement function is turned on in SensePass Pro, it will recognize face(s) when the user walks to the speed gate, and the thermal camera will measure the user's forehead temperature at the same time. Only authorized users with normal temperature can pass the gate.
- 3. If the user's body temperature is higher than threshold (for example, the threshold is set to 37.3 °C), the user cannot pass the gate and the device will give a warning of irregular body temperature with three buzzer alerts.
 - 4. Also, you can enable mask recognition function to regulate wearing behavior-

masker users pass regularly while block the passage without wearing masks. Thereby effectively stop tissue virus spreading by droplets.

Note: There is a specific software version for SensePass Pro, please consult technician forAPK&ROM.

Hardware

2.1 Appearance



2.2 Specifications

Name	SenseThunder-EThermalCameraV1.0			
Model	STE11AR01			
Performance	Detector	Vanadiumoxideuncooledinfraredfocalplane detector		
	BrightnessAdjustment& ContrastAdjustment	Manual0(default)/Auto1		
	Polarity	Blackheat/Whiteheat		
	Pseudo-color	18kinds		
	Electroniczoom	1.0~8.0×continuouszoom(stepsize0.1)		
	ImageFlip	Left/Right/Up/Down/Diagonal		
Image	ROI	Support18kindsofpseudo-colors		
	Range	30°C~45°C		
	Accuracy	±0.3°C(noblackbodyrequired)		
		Ofixedpointscanbeset.		
		Thehighest/lowesttemperaturecaptureinscreen.		
		Centerpointtemperaturemeasurement.		
Tomporatura		12line/areaanalysistools.		
Temperature measurement	Tool	1isothermalanalysistool.		

÷	Temperature Correction	Manual and automatic calibration	
	USB	DC4~6V	
Interface/Power	Power Protection	Use extended components for over-voltage, under voltage, reverse connection protection	
	Power consumption	1.4W@25°C	
	Expansion Component	USB3.0	
Dimensions		44.5mm × 43mm× 49mm (W x D x H)	
Weight		180g	
Operating tempe	rature	15°C~25°C (for indoor human body temperature measurement)	
Storage Temperature Operating Humidity		-40°C~+80°C	
		5~90%, Non-condensing	
)	Recognition TAR/FAR	Threshold 0.90 TAR 99% / FAR 1/10,000	
	Liveness TAR/FAR	Threshold 0.98 TAR 98%/ FAR 1/10,000	
SensePass Pro	Recognition time	<500ms	
Parameters	Facial Image in device	50,000	
	Recognition Distance	0.5m-2m	
	Mask Recognition	Support	

2.3 Applicable Site



Speed Gate (connect with SensePass Pro)



Standing (connect with SensePass Pro)

PRODUCTFUNCTIONS



Facial Recognition

Automatically capture facial images, extract facial attributes, and recognize faces fast and accurately.



Liveness Detection

Effectively measure against 3D printing, electronic screens, videos, pictures, masks, hoods, and other spoofing attacks by the binocular infrared liveness detection.



Identity Verification

- * Supports 1: N face image comparison in the database to verify identity accurately.
- * Supports IC card, ID card reader to achieve cross comparison between faces and IDs.



Access Management

Supports customized access for employees and visitors by time and location



Guest Greeting

Presents welcoming message and photo wall to provide a distinguished welcoming experience.



Single/Multi-face Mode

Supports customized access modes. Single-face mode is suitable for door and gantry control; Multi-face mode is suitable for reception and attendance management.

APPLICATION PARAMETERS

Model	SPS020-PRO
Recognition Accuracy	>99%
AvatarCapacity	50,000
Weight	700g
Dimension	235mm*132.8mm*19mm
CaseMaterial	Aluminumalloy/Silver
Camera	RGBCamera: 2 million pixels IRCamera: 1.3 million pixels 3 x 9 4 0 nm, infrared supplemental lighting
Screen	8 inches multi-touch capacitive touch screen
Communication	Ethernet: 10/100/1000Mbps
Communication	WIFI:IEEE802.11b/g/n(2.4G)
Interface	USB2.0,RelayCOM/NO/NC,RJ45,RS485,Wiegand,GPIO,HDMI
os	Android7.1
ServiceEnvironment	Indoor
WorkingTemperature	-20°C~60°C
WorkingHumidity	5%~93%Condensation-free
Installation	Wall-mounted, Junctionbox (86x86mm), standing, rack-mounted (for speedgate)
Power	Adapter:DC12V-2A POE:PSEClass4(IEEE802.3at)

Bracket Accessories

Model	SPS020-Bracket01		SPS020-Bracket02
Parameters	Rendering	4	
	Installation	Attachedtoagantry	Free-Standing
	Dimension	227.00*67.30*70.47(mm)	1350*300*70.47(mm)
	Material	Aluminumalloy	<u> </u>
	Color	Silver	

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