

AI Thermodetector

Model: SRX-AL-TD01

For prevention of COVID-19, Sorax New AI Thermodetector SRX-AL-TD01, adopts the new AI chipset, large thermal sensor array, and latest algorithm, providing the cutting-edge face recognition and body temperature detection, with ability to detect wearing the mask.

High Accuracy

± 0.2-0.3 ° C forehead temperature detection
99.9% Face recognition: the best solution for access control

Fast Detection

50ms temperature + 200ms face recognition measurement

Long detection Range

0.3 m ~ 1.2 m forehead body temperature detection

Wear mask recognition

Support face recognition with face mask, recognition rate > 95%
Detection range: up to 2 meters
Supports 1: 1 or 1: N face comparison

Attribute recognition

Supports detection of race, hard hat, skin color, etc.

Super backlight suppression

Support face exposure, automatic adjustment according to strong light
Support nighttime 3D noise reduction, provide best quality in darkness

Variety of door access control

Support face recognition or door access control

Customizable multi-language

English, Spanish, French, Italian, Russian, Japanese, Korean UI



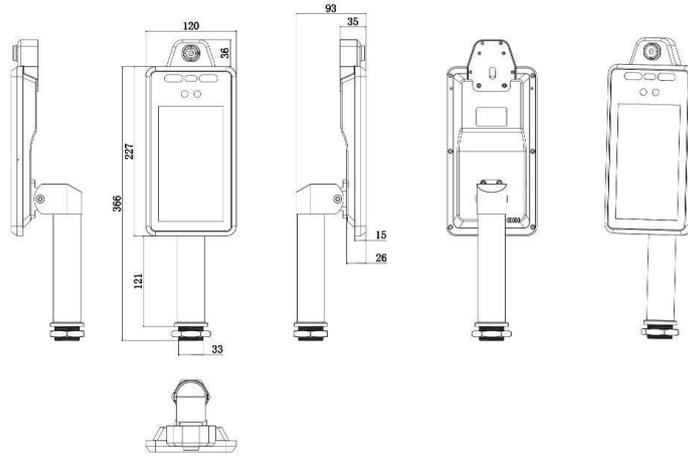
Hardware Specifications

Model	SRX-AL-TD01
Item	Specification
Sensor Type	Uncooled infrared focal plane array
Infrared Thermography camera	120*90
Thermal measurement range	0.3m-1.2m
Thermal measurement accuracy	±0.2°C
Hardware	
Processor	AI chipset ARM Cortex-A7 quad-core, 4 x high performance CEVA DSP
OS	Linux
Storage	8GB EMMC+1GB DDR4
LCD	7 inch , 1024*600 resolution
Camera	
Sensor	Dual 2Mp, low lux sensor
WDR	≥120dB
FoV (Diagonal/horizontal/ vertical)	73degree /65 degree /40 degree
Iris	F2.0
Focus length	4.3mm
Performance	
Biopsy	Anti-electronic screen, video, mask hacker attack
Recognize height	1.2~2.2 meter, angel adjustable
Detection range	0.5m~2m, lens adjustable
Face library	30,000 (default)
Attendance Record	30,000
Face angle	horizontal 30 degree, vertical 30 degree
Interface	
Alarm input	2 pcs
Alarm output	1 pcs
Access control	Push out
Power supply	DC12V , 2A (9 -16V DC)
Power consumption	Less than 24W
Ethernet	1 pcs RJ45 10M / 100M Ethernet
Wifi	2.4G Wi-Fi (Optional)
Mo	4G Module (optional)
USB	1 pcs USB 2.0
General	
Working Temperature	-40 °C~ + 60 °C.
Dimensions	120mm*226.5mm*33.5mm

Algorithm Parameters

Application	Items	Description
Face recognition	Face recognition	Local recognition: 30,000 (default)
	Algorithm accuracy	99.9%@0.01% (The accuracy rate is 99% under the 10,000th false alarm rate) 95%@0.0001% (The accuracy rate is 95% under the one-millionth false alarm rate)
	Angle requirements	Yaw $\pm 30^\circ$, roll $\pm 30^\circ$, pitch $\pm 15^\circ$
	Face minimum pixels	Face size above 80 * 80 pixels
Face biopsy detection	Angle requirements	Yaw $\pm 30^\circ$, roll $\pm 30^\circ$, pitch $\pm 15^\circ$
	Face pixel requirements	Interpapillary distance 50 pixels and above
	Algorithm accuracy	98%@0.01% (Real pass rate@Dummy pass rate)
	Non-biopsy category	Pictures, videos, coated paper, fake face models, etc.
Face detection and tracking	Number of people captured	More than 30 people / frame
	Snap frame rate	25fps
	Minimum face size	30*30
	Adaptation angle	Yaw $\pm 45^\circ$, roll $\pm 45^\circ$, pitch $\pm 30^\circ$
Face attribute	Item	Gender, age, glasses, facial expression (angry, calm, happy, sad, surprised), mask, ethnicity, beard, ethnicity, hat detection, helmet detection
	Algorithm accuracy	Age accuracy (± 5 years old): more than 85%; Gender accuracy: more than 96%; Skin color accuracy: more than 97%; Beard accuracy: more than 97%; Glasses accuracy: more than 98%; Mask accuracy: more than 98%; Hat accuracy: more than 97%; Expression accuracy: more than 88%

Dimensions *Unit: mm*



Installation:

1) Pedestal-mount SRX-BK-PM



2) Wall-mount SRX-BK-WM



3) Desktop SRX-BK-DT

