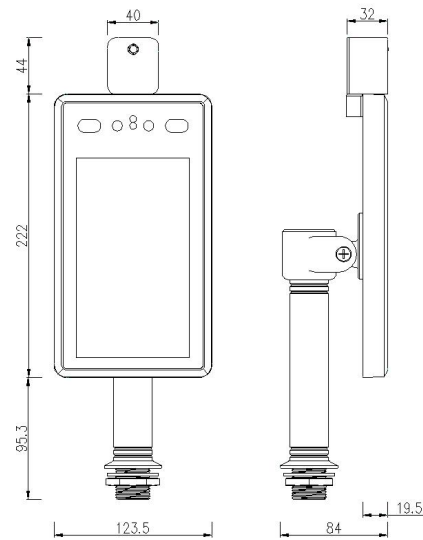


LS-FR101-T

## Face recognition & temperature measurement system



### Features:

- Non-contact automatic body temperature detection, brush human face and perform high-precision infrared human temperature acquisition at the same time, fast and high effect
- Temperature measurement range 30-45 (°C) Accuracy  $\pm 0.3$  (°C)
- Automatically identify unmasked personnel and provide real-time warning
- Support temperature data SDK and HTTP protocol docking
- Automatically register and record information, avoid manual operation, improve efficiency and reduce missing information
- Support binocular live detection
- Unique face recognition algorithm to accurately recognize faces, face recognition time <500ms

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- Support human motion tracking exposure in strong backlight environment, support machine vision optical wide dynamic  $\geq 80\text{dB}$
- Adopt Linux operating system for better system stability
- Rich interface protocols, support SDK and HTTP protocols under multiple platforms such as Windows / Linux
- 7-inch IPS HD display
- IP34 rated dust and water resistant
- MTBF > 50000 H
- Support 50000 face comparison library and 100,000 face recognition records
- Support one Wiegand input or Wiegand output
- Supports fog through, 3D noise reduction, strong light suppression, electronic image stabilization, and has multiple white balance modes, suitable for various fields

#### Scene demand

- Support electronic voice broadcast (normal human body temperature or super high alarm, face recognition verification results)
- $-15\text{ }^{\circ}\text{C}$  to  $+60\text{ }^{\circ}\text{C}$  environment long-term stable work

### Specification:

Model	LS-FR101-T
<b>Hardware</b>	
Chipset	Hi3516DV300
System	Linux operation system
RAM	8G EMMC
Image sensor	1/2.7" CMOS
Lens	4.5mm
<b>Camera Parameters</b>	
Camera	Binocular camera supports live detection
Effective pixel	2Mega pixel, 1920*1080
Min. lux	Color 0.01Lux @F1.2(ICR);B/W 0.001Lux @F1.2
SNR	$\geq 50\text{db}$ (AGC OFF)

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WDR	≥80db
<b>Face Recognition</b>	
Height	1.2-2.2 M, angle adjustable
Distance	0.5-2 Meters
View angle	Vertical ±30 degree
Reco. Time	<500ms
Function	Support 50000 faces database and 100000 records
<b>Temperature</b>	
Range	30-45 (°C)
Accuracy	±0.3 (°C)
Distance	≤0.5M
Response time	<300ms
<b>Interface</b>	
Internet interface	RJ45 10M/100M Ethernet
Weigand port	Support input/output 26 and 34
Alarm output	1channel relay output
USB port	1USB port (Can be connected to ID identifier)
<b>General</b>	
Power input	DC 12V/3A
Power consumption	20W(MAX)
Working temperature	-15°C ~ +60°C
Humidity	5~90%, no condense
Dimension	154(W) * 89(H) *355.4(L)mm
Weight	2.1 kg
Column Aperture	27mm

### Precautions:

- The temperature measuring device should be used in a room with a room temperature between 10 °C -40 °C. Do not install the temperature measuring device under the vent, and ensure that there is no heating source within 3 meters;

- Personnel entering the room from a cold outdoor environment will affect the temperature measurement accuracy. The forehead temperature test should be performed after the forehead is unobstructed for three minutes and the temperature is stable;
- The temperature read by the temperature measuring device is the temperature in the forehead area. When there is water, sweat, oil or thick makeup on the forehead or the elderly have more wrinkles, the read temperature will be lower than the actual temperature. Make sure there is no hair or clothing covering this area.

### Interface specification:

