8 Inch Facial Recognition and Body Temperature Detector All in One Machine



Product Features and Application Scenarios:

High-precision infrared temperature detection and perfect combination of face, ID card, etc and intelligent access attendance , etc, which enable rapid non-contact detection human temperature, registration and recording, are widely used in places , such as office areas, hotels, access gates, office buildings, schools, malls, communities, public services and management projects, etc. where the stream of people are controlled.

Main Features:

Non-contact automatic body temperature detection, face scanning while performing high precision infrared body temperature collection, fast and efficient;
Temperature measurement range 30-45 (℃) accuracy ± 0.3 (℃)
Automatic identification of people who are not wearing masks and real-time early warning;
Support long-range temperature measurement, high temperature real-time warning;
Support temperature data S D K and HTTP protocol docking;
Automatic registration, recording of information, avoiding manual operations, improving efficiency and reducing omission of information;
Support binocular live detection
Unique face recognition algorithm to accurately recognize faces, facial recognition time < 0.5 seconds
Support dynamic face tracing exposure under strong backlighting condition, support machine vision optics wide dynamic ≥ 80dB;
The system is running more stable which adopts LINUX OS.
Interface protocols are rich and supporting SDK and HTTP protocols across a wide range of platforms such as Windows/Linux , etc.
8" IPS HD display
IP34 rated dust resistant & waterproof

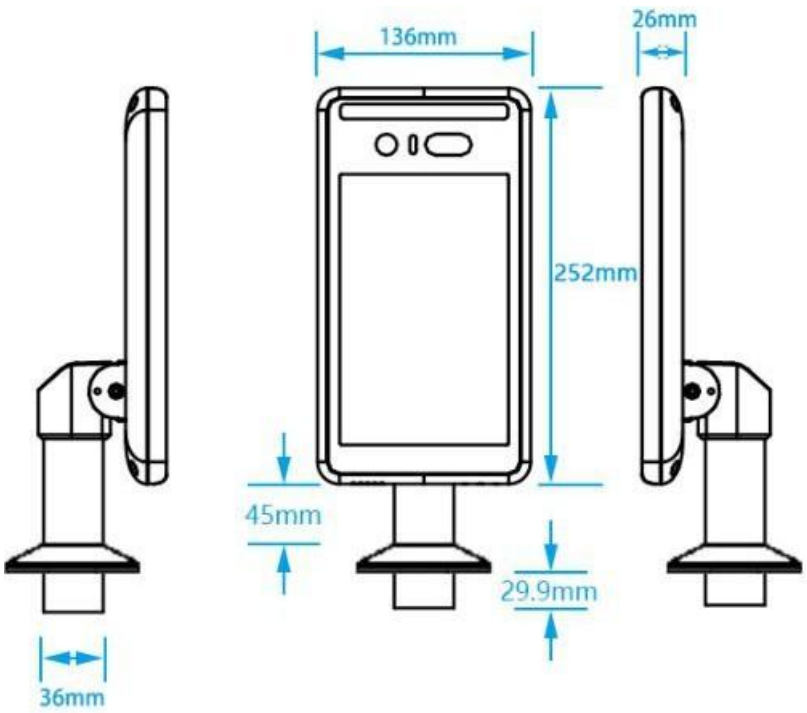
Average trouble-free operation time MTBF > 50000 H
Support 22,400 faces comparison library and 100000 facial recognition records
Support one Wiegand input or Wiegand output
Support through the fog , 3D noise reduction, strong light suppression, digital anti-shake, having various white balance modes, suitable for all scenarios
Support electronic voice broadcasting (normal or ultra high alarm, facial recognition verification results)
Operate steadily for a long time in the environment temperature 0℃ to +50℃

Specification parameters:

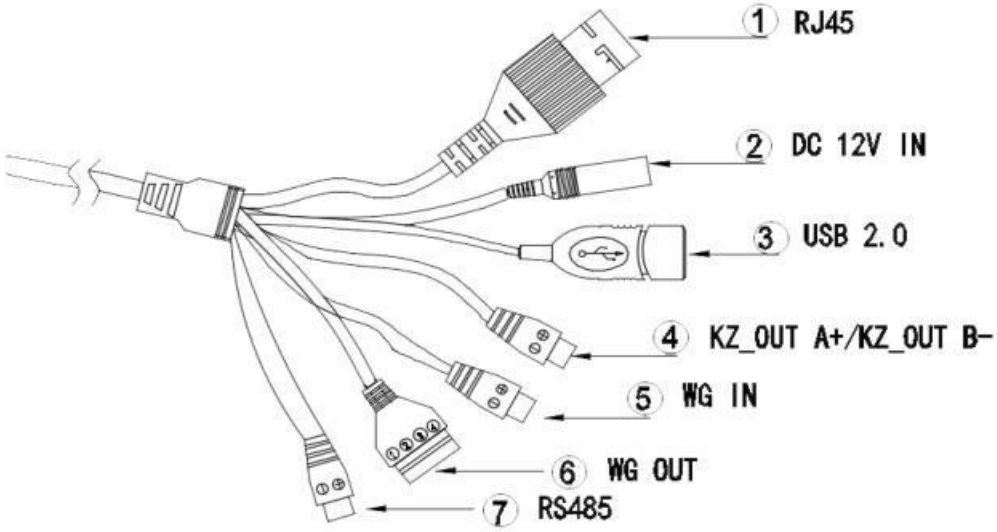
Specification model	D721
Hardware	
Processor	Hi3516DV300
Operating system	Linux OS
Storage	16G EMMC
Imaging devices	1/2.7" CMOS
Lens	4mm
Camera Parameters	
Camera	Binocular camera, support live detection
Valid pixels	2 million valid pixels, 1920*1080
Lowest illuminance	color 0.01lux @F1 .2 (ICR); black and white 0.001lux @F1 .2
Signal to noise ratio	⩾ 50db (AGC OFF)
Wide dynamic range	⩾ 80db
Face performance	
Facial Recognition Height	1.2-2.2 m, adjustable angle
Facial recognition distance	0.5-3 m
Visual angle	30 degrees up and down
Recognition time	< 500ms
Functions	Support 22,400 faces comparison library and 100,000 facial recognition records
Temperature Performance	
Temperature range	30-45 (℃)
Temperature measurement accuracy	± 0.3 (℃)

Temperature measuring distance	≤ 0.5 m
Response time	< 300ms
Interface	
Web interface	RJ45 10M/100m Adaptive Ethernet Ports
Wiegand interface	Support Wiegand input or Wiegand output, support Wiegand 26 and 34
Alarm Output	1 I/O Output
USB interface	1 USB interface (external ID card reader)
Optional	
ID Card Reader	Option, external device connection
QR Code Reader	Option, external device connection
General Parameters	
Power supply	DC 12V/3A
Consumption	20W (MAX)
Operating temperature	-0℃- +50℃
Working humidity	5— 90% relative humidity, no condensation
Device Dimensions	154 (width) * 89 (thickness) *325 (height) mm
Device Weight	2.1 kg
Column aperture	33mm

Product Dimensions



Interface Definition



Sequence	Names	Quantity	Remarks
1	Network port	1	RJ45
2	Power	1	DC12V IN
3	USB	1	USB 2.0
4	I/O output	1	Switch output interface A+/B-
5	Wiegand protocol input interface	1	① D0 ② D1
6	Wiegand protocol output interface	1	① vcc12V ② GND ③ D0 ④ D1
7	RS485	1	① 485- ② 485+

Considerations

1 Temperature measuring device should be applicable in rooms that are not ventilated at room temperature between 16℃ - 40℃;

2 People coming from cold outdoor into indoor environment can affect measurement accuracy;

3 Test starts after starting up 10 minutes while the sensor and ambient temperature are balanced;

4 It needs to be guaranteed that there is no heating source or air conditioning vents within 3 meters of the device;

5 The forehead must be kept indoors no obstruction for three minutes and the temperature is stable before the forehead temperature having been measured;

6 Being exposed to certain factors can change forehead temperature, such as showers, hair dryers, spray, etc.

7 When the forehead has oil, makeup, oxygen mask, or the elderly have wrinkles, the temperature measured will be lower than the actual temperature;

8 The temperature of the projection was measured, making sure that the projection area is not covered by hair or clothes.

Multiple installation mode



wall mounted



Desktop



Gate type



Column type