



Facial Recognition & Wrist Temperature Measurement System

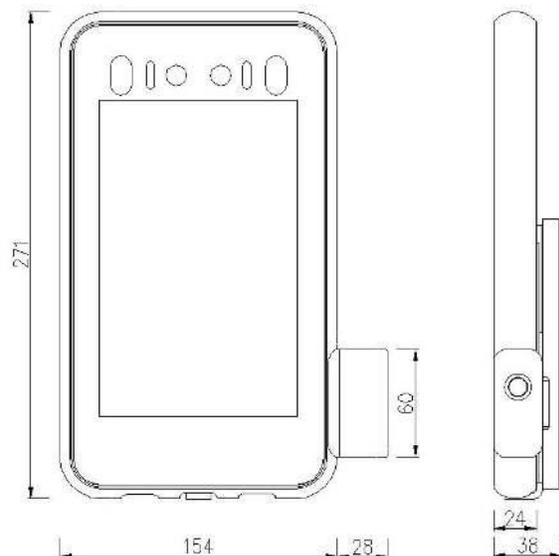
This 8" wall mount facial recognition & wrist temperature measurement system integrates industry leading visible + NIR binocular camera, deep learning facial recognition technology, and highly accurate infrared temperature measurement technology. This system incorporates non-contact facial recognition for identity access authentication, temperature measurement, rapid screening, and mask detection. It then incorporates the use of an automatic alarm system to warn the employee if any item above does not meet the company's preset standards. With the average speed of 80 ms and $\pm 0.2^{\circ}\text{C}$ accuracy, using the fixed-point temperature of the wrist, this system eliminates the complicated operation of the touch thermometer as well as its low accuracy. It does this much faster and more accurately by using an IR temperature correction algorithm combined with a body temperature compensation algorithm, and then adopts a medical grade temperature measurement.



Features:

- Facial Recognition
By using binocular live body detection technology it can prevent the use of photos, videos, and models. It has a 99.5% recognition rate and a speed of <math><500\text{ ms}</math>. It includes 2 facial libraries and up to 22400 faces.
- Temperature Measurement
The system uses a highly accurate, medical grade temperature measurement module. It is accurate to within $\pm 0.2^{\circ}\text{C}$ at a rated distance of 1-5 cm. There is also an audible alarm that sounds when the temperature threshold is outside the customer set parameters.
- Facial Recognition & Mask Detection
The facial recognition while wearing a mask is done at a rate of 85% positive results.- Audio Broadcast Facial recognition, facial recognition with mask detection, and temperature measurement are all announced if results are outside the customer set parameters.
- Storage
The system can save or export up to 100000 records.

Dimensions:



Applications:

Widely used in high traffic crowd entrances, community buildings, hospitals, train stations, businesses, scenic areas, airports, schools, shopping malls, hotels, and warehouses, etc...

Technical Specifications:

Smart Function	Facial Recognition	Live Body Detection	Visible light +NIR binocular camera. Live body detection and accurate recognition under various conditions.
		Facial Comparison	Built-in database, supports facial capture and real time comparison with stored data and creates a comparison log.
		Recognition Accuracy	≥ 99.5 %
		Recognition Type	1 : N
		Recognition Speed	< 500 ms
		Recognition Distance	0.5 – 2 M
		Recognition Height	1.2 – 2.2 M, adjustable angle
		Vertical Angle	60°
		Horizontal Angle	40°
		Multiple Recognition Mode	Facial recognition, facial recognition + temperature measurement, temperature measurement
		Facial Library	Built-in 16GB storage supports a maximum of 22400 faces
		Comparison records	Maximum of 100000 records and available export feature
	Temperature Measurement	Accuracy	± 0.2° C
		Range	23 – 46° C
Mode		Non-touch wrist temperature measurement	
Distance		1 – 5 cm	
Alarm		Abnormal temperature alarm (customer adjustable)	
Facial & Mask Detection	Accuracy	≥ 85%	
	Mask Wearing Alert	Voice alert	
Voice Alert	Multiple Mode	Facial recognition authentication, temperature abnormal or normal, and mask detection voice alert	

Hardware	Processor	DSP	Hi3516DV300
	Image Sensor	Sensor Type	1-2.8" Progressive Scan CMOS
		Effective Resolution	2.0 mega pixels (1920 x 1080)
		Minimum Lux	Color 0.01 Lux @ F1.2 (ICR) & B/W 0.001 Lux @ F1.2
		SNR	≥ 50db (AGC off)
		WDR	≥ 80db
		Lens	Binocular Camera: visible light lens + NIR lens
	Screen	Size	8"
		Resolution	800 x 1280
		Display Scale	16:9
	Temp. Sensor	Infrared	
	Audio	Speaker	2* (8Ω 1W)
	Interface Ports	Network	RJ45 10M/100M self-adaptive Ethernet port
		Wiegand Port	1/1 I/O (26/34)
		Alarm Port	1x
		USB Port	1x (for connection of the ID identifier)
	Miscellaneous	Power Supply	DC 12V
		Power Consumption	20W (max)
		Protective Grade	IP34
		Working Temperature	0° C – 50° C
Working Humidity		5 – 90% no condensation	
Dimensions		271 x 182 x 24 (H/W/D) in mm	
Net Weight		1.8 kg	
Stand Diameter		33 mm	
Remarks		Default DC 12V power adapter	



Interface Ports:

NO.	Name	Mark	Function
J1	Wiegand Output	WG Out	Recognize the output result or connect another WG input device
J2	Wiegand Input	WG In	Unavailable
J3	Alarm Output	Alarm Out	Switching alarm signal output
J4	USB		Connects the ID identifier or other USB devices
J5	DC 12V Power Supply	DC 12V	DC 12V power supply
J6	RJ45		10/100 Mbps Ethernet port

Important Notes:

1. This temperature measurement device should only be operated indoors with the temperature between 10° - 40° C. Do not install near HVAC vents, heat sources, or next to a window.
2. Anyone coming in from a very hot or cold environment will affect the temperature measurement accuracy, they should wait a few minutes for their temperature to stabilize.
3. This device measures temperature on the wrist, please be sure the area to be measured is not wet or covered with any clothing as this will lower the temperature reading.



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