MF 1008A

Face recognition based Attendance/Access Control Terminal with Temperature measurement and Face Mask detection

With contactless Face reading becoming defecto standard for attendance, it is also required to measure the Human body Temperature with the Face Mask, to control the Virus attack within the Company.

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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 ± 0.5(C)
- Automatically identify unmasked personnel and provide real-time warning
- Support mid-range temperature measurement and real-time warning of high temperature
- 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
- Support human motion tracking exposure in strong backlight environment, support machine vision optical wide dynamic ≥80dB
- 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 22400 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)

Hardware	
CPU	Hi3516DV300
System	Linux operation system
ROM	16G EMMC
Image sensor	1/2.7" CMOS
Lens	4.5mm
Monitor	7inch TFT
Monitor resolution	600*1024
Display	16:9
Temperature Meas.	Infrared meas.,array testing module
Audio output	Speaker,8Ω/2W
Camera Parameters	
Camera	Binocular camera supports live detection
Effective pixel	2Mega pixel, 1920*1980
Min. Lux	Color 0.01Lux @F1.2(ICR);B/W 0.001Lux @F1.2
SNR	≥50db(AGC OFF)
WDR	≥80db
Face Recognition	
Height	1.2-2.2 M, angle adjustable
Distance	0.5-2 Meters
View angle	Vertical ±40 degree
Reco. Time	<500ms
Function	Support 22400 faces & 100000 records
Temperature	
Range	30-45 C
Accuracy	±0.5 C
Distance	0.4M
Response time	<500ms
Interface	
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)
General	
Power input	DC 12V/3A
Power consumption	20W(MAX)
Working temperature	-15C to +60C
Humidity	5-90%, no condense
Dimension	123.5(W) * 45.5(H) *266(L)mm
Weight	1.9 kg

Interface definition:

J1	WG Output : Orange D0,White D1,Green GND
	WG Input : Brown&White D0,Yellow D01,Grey GND
	Alarm Out : Brown Alarm+ ,Purple Alarm-(I/O Signal)
	RS485 : Yellow&White 485+, Blue&White 485-
J2	RJ45 Network interface(100M)
J3	Power Supply (10-15V/3A)

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.

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