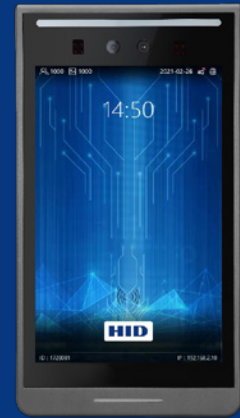


FRN8100NHW

FRN8100NHW is a high-performance, high-reliability face recognition product, relying on deep learning algorithms, with fast recognition speed and high accuracy. Support face recognition 1:1 and 1:N mode. Dynamic dual-camera anti-counterfeiting, support live detection. It is suitable for airports, subways, commercial buildings, industrial parks, financial industries, and can also be applied to enterprises, campuses, hospitals, government units, hotels and other scenarios.

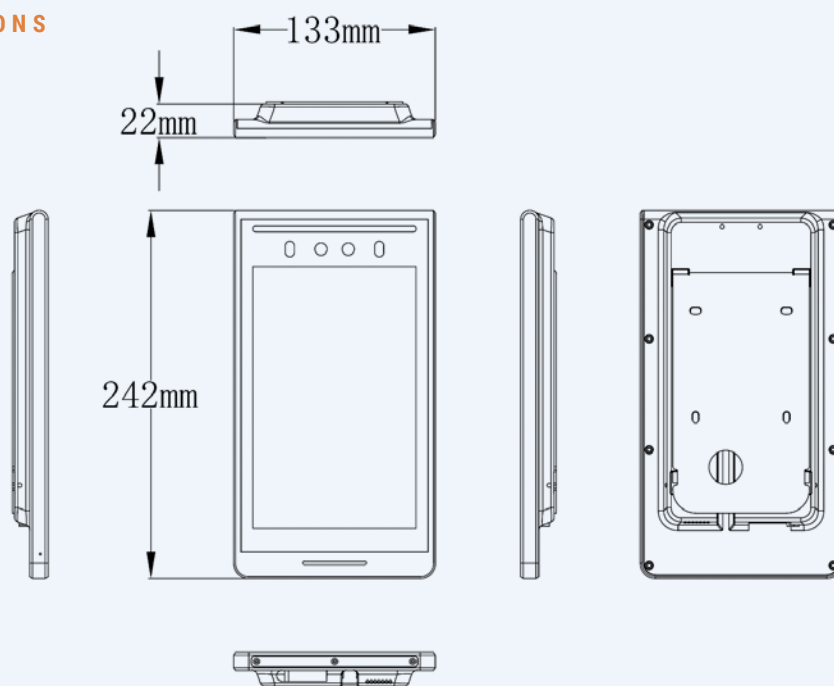
Hardware	FRN8100NHW
Processor	Dual Core ARM Cortex-A7
Operating system	Linux Operating system
Memory	1G+8G
Camera	Dual camera, 2MP, 1920*1080
Sensor	1/2.8" Progressive Scan CMOS
Lens	4.5mm
WiFi module	2.4GHz frequency band, IEEE802 b/g/n protocol; 5GHz frequency band, IEEE802 a/n/ac protocol
Card swiping module	13.56MHz, support Mifare1(S50, S70 card)
Touch screen module	Single-touch capacitive screen
Speaker	voice playback content can be customized Thru firmware updating
PERFORMANCE	
Recognition height	1.2~2.3 meters, angle adjustable
Recognition distance	0.3~1.5 meters
Recognition angle	Vertical viewing angle: 30°; Horizontal viewing angle: 30°
Recognition time	Less than 0.3 seconds
Storage capacity	69,000 capture records
Face capacity	24,000pcs
INTERFACE	
Power out	DC12V/2A
Network interface	1 RJ45 10M / 100M adaptive Ethernet port
Wiegand interface	1Wiegand input/output
Alarm interface	1 alarm
Door sensor interface	1 door sensor
Open interface	1 open door
Doorbell interface	1 door bell
Lock interface	1 lock
Communication interface	1 RS485
CAMERA	
Camera	Dual cameras, G+P lens, visible light and near infrared, support liveness detection
Effective pixels	2MP, 1920*1080
Min Illumination	Color 0.01Lux @F1.2(ICR);B/W 0.001Lux @F1.2 (ICR)
SNR	≥50db(AGC OFF)
WDR	120db, ISP algorithm face partial exposure
REGULAR	
Operating temperature	-20 - +60
Working humidity	0 90% relative humidity, no condensation
Salt spray	level Rp6 or above
Antistatic	contact ±4KV, air ±8KV
Power	DC12V/2A
Waterproof	IP42
Power	20W(MAX)
Screen size	8 inches IPS HD screen, Resolution: 1280*800
Equipment size	242 (L) * 133 (W) * 22 (T) mm



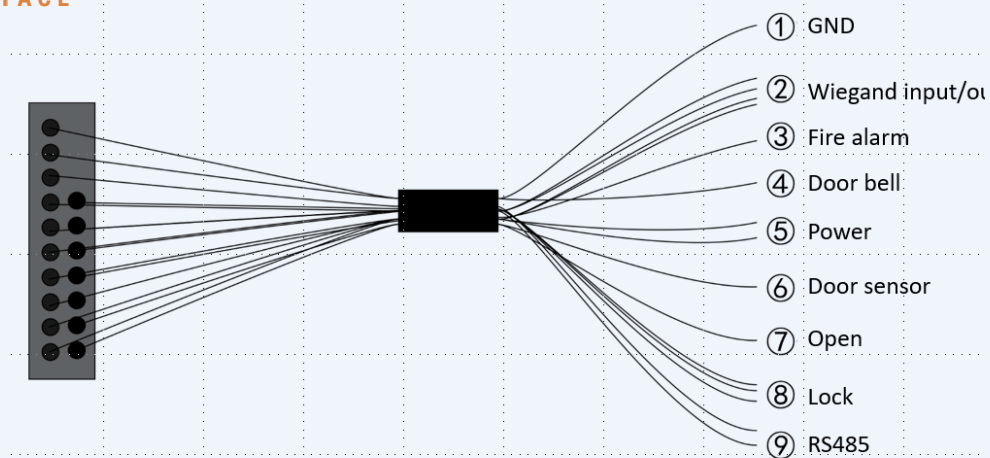
KEY FEATURES:

- Support real time liveness detection
- Support tracking of personnel movements under strong backlight conditions
- Unique live face recognition algorithm to accurately recognize faces, face recognition time is less than 0.3s
- Using Linux operating system, better system stability
- Mean time between failures MTBF>50000 H
- Support 24,000+ face matching library and 69,000 face recognition records.
- Rich interface protocol, support TCP/IP, UDP, RTP, HTTP, DNS, DDNS, DHCP, SMTP, UPNP, MQTT protocol, Windows/Linux
- From -20° to + 60° environment for long-term stable operation
- Support tamper alarm
- Support visual talkback
- Support personnel registration, device configuration, information query via front touch screen
- Support microphone input audio, speaker output audio
- Rich hardware interface(I/O, WG26, WG34, RJ45, Door sensor, Doorbell, Open door, Alarm, RS485)
- 8-inch IPS HD screen, no streaking and delay

DIMENSIONS



INTERFACE



Number	Name	Quantity	Remark
1	Ground	1	Black and White: GND
2	Wiegand input/output	1	Orange: WGI_D0 Orange and white: WGI_D1 Brown: WGO_D0 Brown and white: WGO_D1
3	Fire in	1	Yellow: FIRE_ALM
4	Doorbell	1	Light blue: BELL
5	Power	1	Red: WG_12V, Black: GND
6	Door sensor	1	Light green: DS
7	Open	1	Green: OPEN
8	Lock	1	Red: 485+
9	RS485	1	Black: 485-



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