

Lightweight face recognition touch screen access control

Product type

P103-BG

Applicable scenarios

Widely used in office buildings, conference rooms, communities, factory parks, construction sites, hospitals, underground stations and many other areas

Key features

- Supports binocular in vivo detection
- Supports face tracking exposure of people in motion in strong backlight environment
- Unique face recognition algorithm, accurate face recognition, face recognition time less than 0.5s
- Built-in domestic CPU
- Uses LINUX operating system, system stability
- Support TF card local storage, continuous storage of pictures for 1 year, continuous storage of videos for 1 month or longer (related to the capacity of the optional TF card)
- Mean Time Between Failure MTBF>50000h
- Maximum support for 1000+ face matching libraries and 60,000 recognition records
- Rich interface protocols, supporting TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, SMTP, UPNP, MQTT protocols under various platforms such as Windows/Linux
- Operating temperature: -30° C to 60° C
- Indoor IP54 level waterproof and dustproof
- Support anti-tamper alarm
- Support microphone input audio, speaker output audio

V1.1.0



-Rich hardware interfaces (I/O, WG26, WG34, RJ45, door magnet, doorbell, door opener, alarm, RS485)

-4.3" IPS full-view HD display, no image drag and no delay

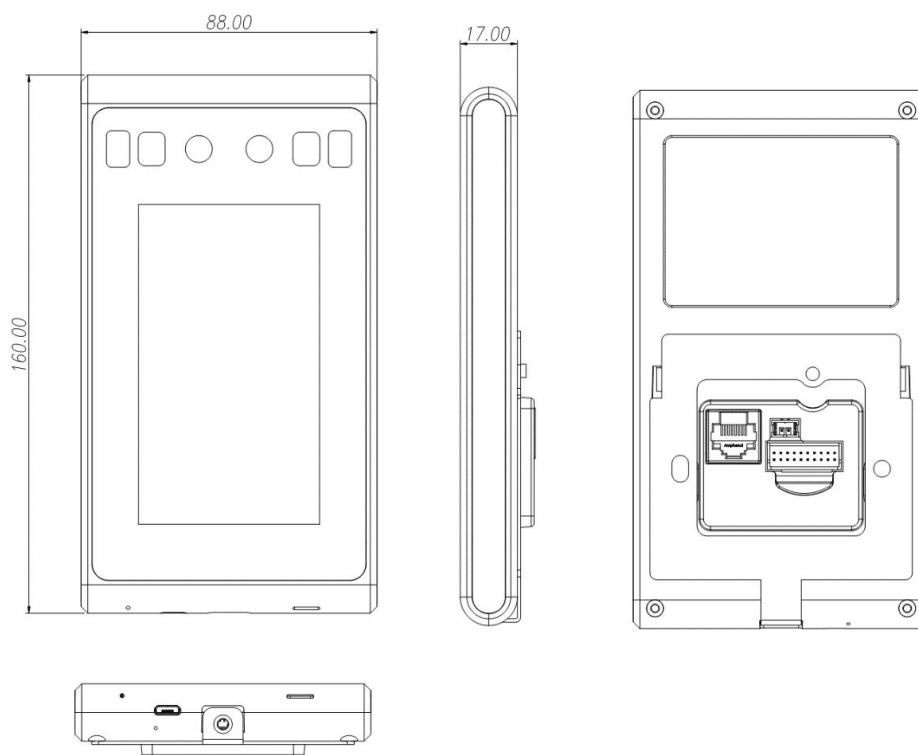
Specifications

Specification	P103-BG		
Hardware			
Processor	Dual-core ARM Cortex-A7, @1.0GHz		
Operating systems	Linux operating systems		
Storage	Supports TF card storage (optional)		
Camera	Binocular, 2.1 million effective pixels, 1920*1080		
Imaging devices	1/2.8" Progressive Scan CMOS		
Footage	4.5mm		
Swipe module	Optional		
Wifi modules	Optional		
Speakers	Standard, voice playback content can be customised		
Performance			
Recognition height	1.2~2.3m, angle adjustable		
Identification distance	0.3~1m		
Face Angle	30 degrees left and right, 30 degrees up and down		
Identification time	Less than 0.5 seconds		
Storage capacity	60,000 records		
Face capacity	10000 sheets		
Interface			
Power input	DC12V/2A		
Network Interface	1 RJ45 10M / 100M adaptive Ethernet port, customisable Gigabit port		

Wegen interface	1 Weygand interface output, 1 Weygand interface input
Alarm interface	1 fire alarm input, 1 alarm output
Door magnetic interface	1 x door magnetic interface input
Door opening interface	1 door opening interface input
Doorbell interface	1 doorbell interface output
Door lock interface	1 door lock interface output
Communication interface	1 x RS485 communication interface
Camera parameters	
Cameras	Binocular camera with all-glass lens, visible and NIR, supports live detection
Effective pixels	2.1 effective megapixels, 1920*1080
Minimum Illumination	Colour 0.01Lux @F1.2 (ICR); B&W 0.001Lux @F1.2 (ICR)
Signal-to-noise ratio	$\geq 50\text{db}$ (AGC OFF)
Screen resolution	480*272
General parameters	
Operating temperature	-20℃ - +50℃
Working humidity	0 to 90% relative humidity, non-condensing
Equipment power	10W (MAX)
Salt spray grade	Rp6 or above
Anti-static	Contact $\pm 6\text{KV}$, Air $\pm 8\text{KV}$
Electricity supply	DC12V/2A
Protection class	IP42
Screen specification	4.3" HD IPS screen

ns	
Equipment size	160 (length) * 88 (width) * 17 (thickness) mm

Equipment size



Interface definitions

Serial number	Name	Number	Remarks
①	Ground	1	Black and white:GND
②	Wegan input and output	1	Orange:WGI_D0, Orange White:WGI_D1 Brown:WGO_D0, Brown White:WGO_D1
③	Fire alarm input	1	Yellow:FIRE_ALM
④	Alarm output	1	Purple:NO, Blue:COM, White:NC
⑤	Doorbell	1	Light Blue:BELL

⑥	Power supply	1	Red:WG_12V, Black:GND
⑦	Door magnets	1	Light green:DS
⑧	Open the door	1	Green:OPEN
⑨	Door locks	1	Blue and white:NC, Green and white:COM Grey:NO
⑩	RS485	1	Red:485+, Black:485-