



INTELLIGENT ARTIFICIAL SDN. BHD

## IAA68-10Q

# 10.1-inch Face Recognition Terminal



### Applicable scene

Entrance of communities, parks, industrial zones, etc.

### Main features

- Support binocular live detection
- Supports movement and face tracking exposure of people in strong backlight environment
- Unique face recognition algorithm, accurate face recognition, face recognition time is less than 0.5s
- Support extended temperature measurement module to measure body temperature at close

range, and high temperature alarm, support temperature data interface protocol docking

- Using LINUX operating system, the system is stable
- H.265 encoding format video stream is directly connected to storage devices such as NVR through ONVIF protocol and GB28181 protocol
- Support TF card local storage, continuous storage of pictures for 1 year, continuous storage of videos for 1 month or longer (related to the optional TF card capacity)
- Mean time between failures MTBF>50000h
- Support 30,000+ face comparison library and 80,000 recognition records
- Rich interface protocols, supporting TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, SMTP, UPNP, MQTT protocols under multiple platforms such as Windows/Linux
- Operating temperature: -30°C-70°C
- Support anti-dismantling alarm
- Support video cloud intercom
- Built-in QR code reader
- Built-in IC card reader
- Support microphone input audio, speaker output audio
- Abundant hardware interfaces (I/O, WG26, WG34, RJ45, door sensor, door opening, RS485)
- 10.1 inch IPS capacitive touch screen, no image smear, no delay
- Automatic gain, automatic white balance, so that the true color of the image can be restored naturally
- Built-in black light sensor for video surveillance, low-light recognition is more accurate
- 3D noise reduction and fog penetration technology make the monitoring picture under low illumination more clear and delicate
- Support partial shielding of video area
- Automatic white balance, manual white balance
- Support maximum exposure time setting
- Support mobile phone monitoring settings

- Support 2D noise reduction, 3D noise reduction
- Support recording plan time period and upload method setting
- Support video brightness, contrast, hue, saturation, gamma adjustment
- Support setting the longest automatic exposure time
- Support smart face exposure and face smart enhancement settings

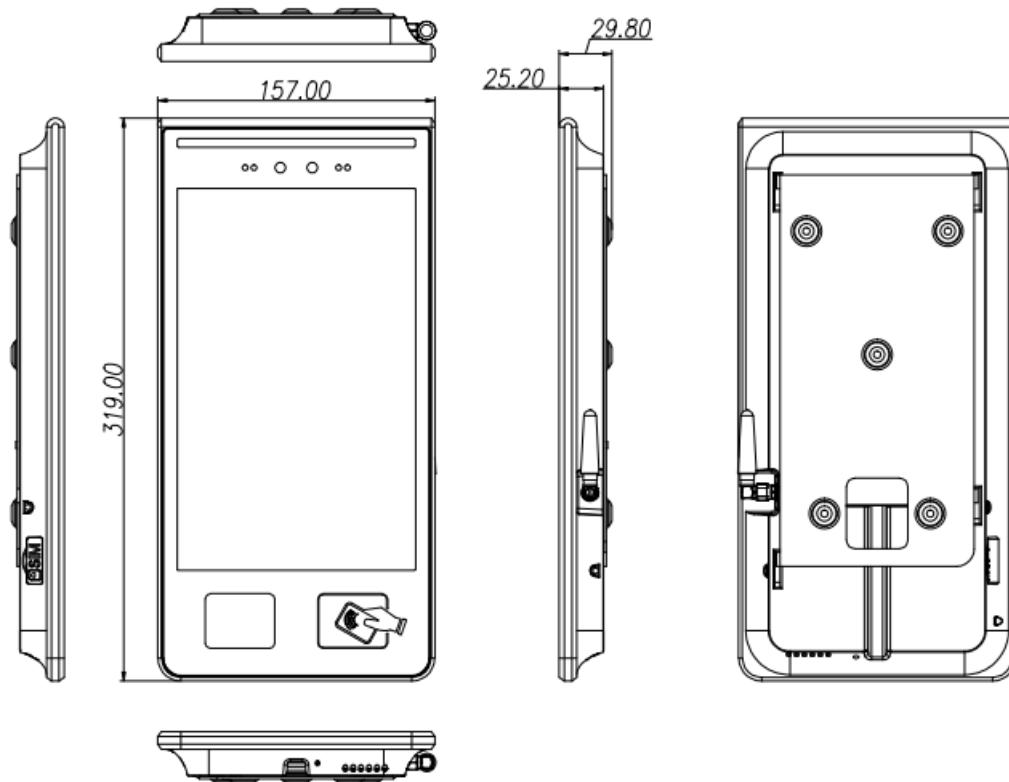
## Specifications

hardware	<b>IAA68-10Q</b>
processor	Dual-core processor + 1G RAM + 8G EMMC
operating system	Linux
storage	Support TF card storage (optional)
Camera	Binocular, 2.1 million effective pixels, 1920*1080
Imaging device	1/2.8" Progressive Scan CMOS
Lens	4.5mm focal length
Swipe module	mi fare one (M1), S50, S70, NTAG2xx, etc. 13.56MHz frequency band cards, TK, EM series and other 125KHz frequency band cards (both IC/ID are supported)
QR code reading module	Support QR Code, PDF417, ECC200, EAN13, Code128 and other two-dimensional codes and one-dimensional codes
Touch screen module	Capacitive multi-touch screen
speaker	Voice playback content can be customized
performance	
Recognition height	1.2~2.3 meters, adjustable angle
Recognition distance	0.5~2.5 meters
Face angle	30 degrees left and right, 30 degrees up and down
Recognition time	Less than 0.5 seconds
storage	80,000 snapshot records
Face capacity	30000

interface		
power input	DC12V/3A	
Network Interface	1 RJ45 10M / 100M adaptive Ethernet port, Gigabit Ethernet port can be customized	
Wiegand interface	1 Wiegand interface output, 1 Wiegand interface input	
Door sensor interface	1 channel door sensor interface input	
Door opening interface	1 door open interface input	
GPIO接口	GPIO interface	
Door lock interface	1 way door lock interface output	
Communication Interface	1 RS485 communication interface	
Function		
Web configuration	Support	
Remote upgrade of equipment	Support	
Deployment method	Support public network and local area network use	
Camera parameters		
Video camera	Binocular camera, full glass lens, visible light and near infrared, support live detection	
Effective Pixels	2.1 million effective pixels, 1920*1080	
Minimum illumination	Color 0.01Lux @F1.2 (ICR); black and white 0.001Lux @F1.2 (ICR)	
Signal-to-noise ratio	≥50db (AGC OFF)	
Wide dynamic	120db, partial exposure of ISP algorithm face	
Video encoding	H.265 Main Profile encoding/H.264 BP/MP/HP encoding/MJPEG encoding	
Dual stream resolution	Main stream	50Hz: 25fps (1920×1080, 1280×720)
	Secondary stream	60Hz: 30fps (1920×1080, 1280×720)
		720*576, 1-25(30) frames/sec/640*480, 1-25(30) frames/sec 320*240, 1-25(30) frames/sec

General parameters	
Operating temperature	-30°C - 70°C
Working humidity	0~90% relative humidity, non-condensing
equipment power	20W (MAX)
Salt spray grade	Rp6 level or above
Antistatic	Contact $\pm 6KV$ , air $\pm 8KV$
powered by	DC12V/2A
Protection level	IP66
Screen specifications	10.1-inch HD IPS screen
Equipment size	319*157*25.2mm

### Product Size



## Interface definition

No	Name	Quantity	Remark
①	Ground	1	Black and white: GND
②	Wiegand input and output	1	Orange: WGI_D0, orange and white: WGI_D1 Brown: WGO_D0, brown and 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 sensor	1	Light green: DS
⑧	Open the door	1	Green: OPEN
⑨	Door lock	1	Blue and white: NC, green and white: COM Ash: NO
⑩	RS485	1	Red: 485+, Black: 485-



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