Cylindrical 7-inch binocular face recognition machine

Applicable scene

Personnel barriers, smart gates, identification verification by the Ministry of Public Security, 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

• Built-in domestic CPU

• 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 (depending on the optional TF card capacity)

• Mean time between failures MTBF＞50000h

- Support 10,000+ face comparison libraries 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

- Working temperature: -20℃-60℃

- IP65 waterproof and dustproof

- Support built-in IC card reader

- Rich hardware interface (I/O, WG26, WG34, RJ45, USB, RS485)

- 7-inch IPS full viewing angle high-definition display, 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 code stream and I frame interval setting

- Support partial shielding of video area・支持ROI编码

- 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

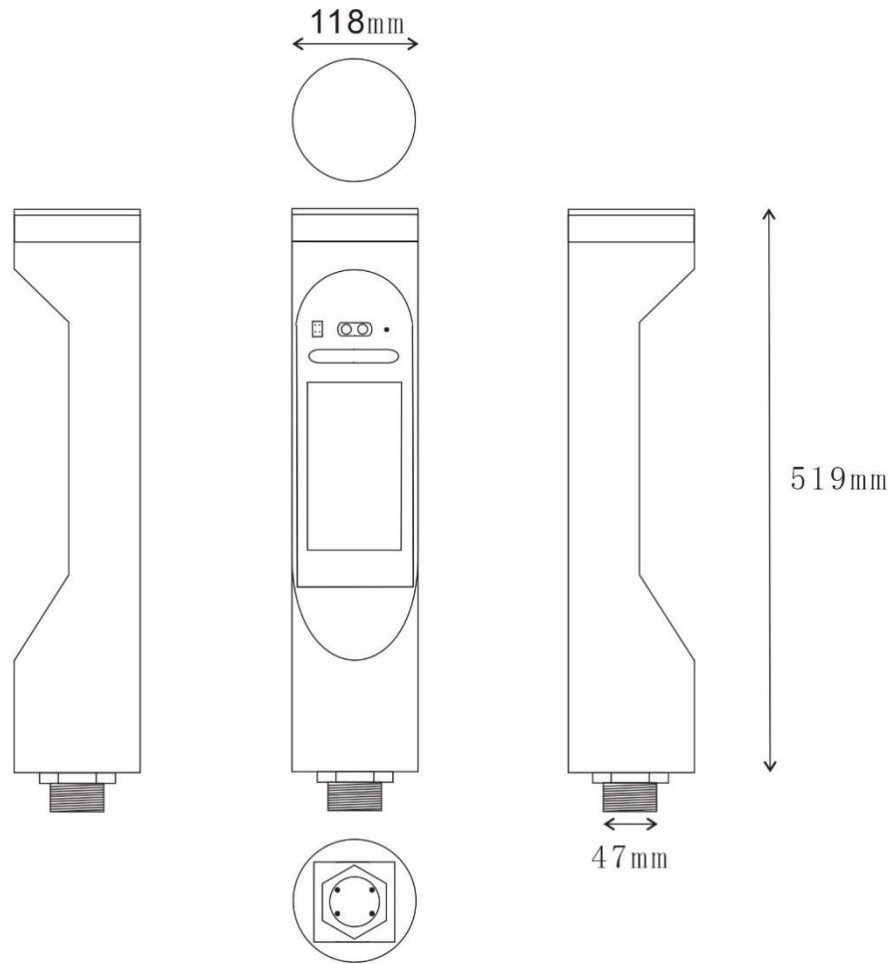- Support smart face exposure and face smart enhancement settings

Specifications

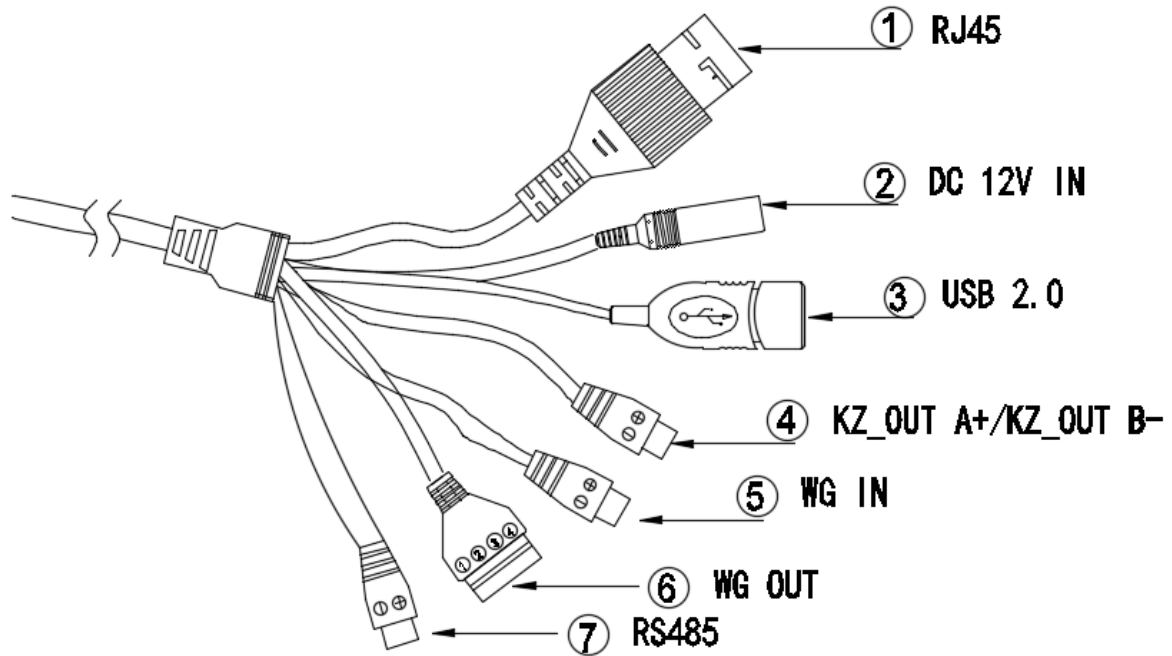| hardware	
processor	Dual-core processor + 512M memory + 8G flash memory

operating system	Linux
storage	Support TF card storage
camera	Binocular, 2.1 million effective pixels, 1920*1080
Imaging device	1/2.8″ Progressive Scan CMOS
Lens	6mm
speaker	Standard configuration, voice playback content can be customized
Swipe module	13. 56MHz, support Mifare S50, S70 card, ultralinght card, NTAG card, DESFire D21, D41, D81, non-contact CPU card
performance	
Recognition height	1.2~2.2 meters, adjustable angle
Recognition distance	0.5~1.5m, variable depending on the lens
Face angle	30 degrees left and right, 30 degrees up and down
Recognition time	Less than 0.5 seconds
storage	80,000 snapshots
Face capacity	10000
interface	
Communication Interface	RJ45 adaptive Ethernet port (support custom WiFi)
Control interface	Switch output
Wiegand interface	1 Wiegand interface input, 1 Wiegand interface output
USB interface	1 USB interface as a device
Communication Interface	1 RS485 communication interface
Camera parameters	
Video camera	Binocular camera, 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, isp algorithm partial face exposure	
Video encoding	H.265 Main Profile encoding/H.264 BP/MP/HP encoding/MJPEG encoding	
Image Resolution	Main stream	50Hz: 25fps (1920×1080,1280×720)
		60Hz: 30fps (1920×1080,1280×720)
	Secondary stream	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	-20℃ - +60℃	
Working humidity	0～90% relative humidity, no condensation	
equipment power	20W(MAX)	
Salt spray grade	Rp6 level or above	
Antistatic	Contact ±6KV, air ±8KV	
powered by	DC12V/2A	
Screw hole diameter	47mm	
Riot level	IK06	
Protection level	IP65	
Screen specifications	7-inch high-definition IPS screen	
Equipment size	519 (length) * 118 (width) *118 (thickness) mm	

Equipment size

118mm

519mm

47mm

Interface definition

① RJ45

② DC 12V IN

③ USB 2.0

④ KZ_OUT A+/KZ_OUT B-

⑤ WG IN

⑥ WG OUT

⑦ RS485

Serial number	name	quantity	Remark

1	Network port	1	RJ45
2	power supply	1	DC12V IN
3	USB	1	USB 2.0
4	Switch output	1	Switch output interface A+/B-
5	Wiegand protocol input interface	1	① D0 ② D1
6	Wiegand protocol output interface	1	① vcc12V ② GND ③ D0 ④ D1
7	RS485	1	① 485- ② 485+