

5 Inch Facial Recognition Access Control Entry System All in One Machine

Product Model

D501

Application scenarios

Family entrance, meeting room, office, elevator gate, etc.

Main Features

Support binocular live identification

Support dynamic face tracing exposure under strong backlighting condition

Unique facial recognition algorithm to accurately recognize faces, facial recognition time < 0.5 seconds

Built-in domestic CPU

The system is running stable which adopts LINUX OS.

H.265 encoding format video streaming directly connects NVR etc storage devices by ONVIF and GB28181 protocol

Support TF card local storage, image contiguous blocks of storage for 1 year, video contiguous blocks of storage for 1 month or more (related to optional TF card capacity)

Average faultless runtime MTBF>50000H

10000+ face comparison library and 60,000 identification records

Interface protocols are rich and support TCP/IP, UDP, RTP, RTP, RTP, RTCP, HTTP, DNS, DDNS, DHCP, SMTP, UPNP, MQTT protocols under various platforms such as Windows/Linux



Working temperature : -30°C -60°C

Indoor IP54 grade waterproof, dustproof

Support tamper alarm

Supports MIC audio input, speaker output audio

5-inch IPS full-view HD display, no image slurs, no latency

Automatic gain, automatic white balance, so that the real color of the image returned to the original condition

Built-in black light sensor for video surveillance application, low illumination recognition is more accurate

3D noise reduction and through the fog technology make the monitoring image under low illumination more clear and delicate

Support code stream and I frame interval setting

Support partial shielding of video region

Support ROI coding

Automatic white balance, manual white balance

Support maximum exposure time setting

Support smart phone monitoring settings

Support 2D noise reduction, 3D noise reduction

Support video planning time periods and upload settings

Support video brightness, contrast, tone, saturation, gamma adjustment

Support the maximum autoexposure time

Support intelligent face exposure, face smart enhancement settings

Specification Parameters

Specification Model	D501
Hardware	
Processor	Domestic Dual-Core Processor +1G Memory +8G Flash Memory
Operating system	Linux OS
Storage	Support for TF card storage (optional)
Camera	Binocular, 2.1 million valid pixels, 1920*1080
Imaging Device	1/2.8" Progressive scan CMOS
Lens	6mm
Speakers	Standard, voice playback content can be customized
Functional Options	
ID Card Reader	Option, external device
QR Code Reader	Option, external device
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	60,000 snapshot records

Face capacity	10000 faces	
Interface		
Power Input	DC12V/2A	
Network Interface	1 RJ45 10M/100M Adaptive Ethernet port with customized Gigabit port	
Wiegand Interface	1 Wiegand Interface Output, 1 Wiegand Interface Input	
Alarm Interface	1 Fire Alert Input, 1 Alarm Output	
Door sensor interface	1 door sensor interface input	
Door opening interface	1 door open interface input	
Doorbell interface	1 doorbell interface output	
Door lock interface	1 door lock interface output	
Communication Interface	1 RS485 communication interface	
Camera Parameters		
Camera	Binocular camera, all-glass lens, visible and near-infrared, support for live detection	
Valid Pixels	2.1 million valid pixels, 1920*1080	
Minimum Lighting	color 0.01lux @F1 .2 (ICR); black-and-white 0.001lux @F1 .2 (ICR)	
Signal to noise	≥ 50 db (AGC OFF)	
Wide Dynamic	120db, ISP algorithm face partial exposure	
Video encoding	H.265 Main Profile Code/H.264 BP/MP/HPCode/MJPEGCODE	
Dual code stream	Master Code Stream	50Hz: 25fps (1920 × 1080,1280 × 720)
		60Hz: 30fps (1920 × 1080,1280 × 720)

resolution	Subcode Stream	720*576, 1-25 (30) frames/640*480, 1-25 (30) frames/sec 320*240, 1-25 (30) frames/sec
General Parameters		
Operating temperature	-30℃ - +60℃ -30℃ - +60℃	
Working humidity	0 ~ 90% relative humidity, no condensation	
Consumption	10W(MAX)	
Salt spray grade	Rp6 or above	
Antistatic	Contact ± 6KV, air ± 8KV	
Power supply	DC12V/2A	
Protection rank	IP54	
Screen specs	5" HD IPS Screen	
Device Dimensions	205 (length) * 95 (width) *20 (thickness) mm	

Interface Definition

Sequence	Names	Quantity	Remarks
①	Ground	1	black-and-white: GND
②	Weigand input-output	1	Orange: WGI_D0, Orange White: WGI_D Brown: WGO_D0, Brown White: WGO_D1
③	Fire Alert Input	1	Yellow: FIR_ALM
④	Alarm Output	1	Purple: NO, Blue:COM, White
⑤	Doorbell	1	Light Blue: BELL
⑥	Power	1	Red: WG_12V, Black:GND

⑦	Door magnetic	1	Pale green:DS
⑧	Opening 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-