Ai03F

Dynamic Face Recognition Terminal

Product Introduction:

Ai03F is a high- performance, high- reliability face recognition access control and attendance device. Powered by deep- learning algorithms, it features fast recognition speed and high accuracy. It supports 1:1 and 1:N modes for face comparison and fingerprint recognition. Built- in card- swipe recognition, it is a cost- effective, low- power and highly- stable multimodal recognition terminal integrating face, fingerprint access control and attendance functions.

Application Scenarios:

Ai03F is widely applied in government agencies, intelligent buildings, office complexes, high - grade residential communities, colleges and universities, enterprises, institutions, industrial and mining sites, and other premises as an attendance and access control device.

Product Features:

- CPU: 1.2G dual- core ARM Cortex- A7; NPU with 0.8T computing power; capacitive fingerprint sensor adopted for AI CPU
- Genuine 2- MP binocular wide- dynamic camera, enables recognition under strong light and low- light conditions
- Supports simultaneous recognition of up to 5 people, with face tracking and face snapshot functions
- Fast face recognition speed: less than 0.2 seconds per face
- Supports liveness detection and dynamic binocular anti- spoofing, preventing deception via photos, videos and other carriers
- Supports multi- verification modes: face, fingerprint, card, password, optional palm vein,

as well as combined verification such as face + fingerprint

- 5- inch IPS high- definition touch screen with on- screen virtual touch keyboard
- TTS voice broadcast of names, supporting Chinese and English
- Supports display and voice for 20 languages including Chinese and English
- Freely switchable input between 26- key and 9- key keyboards
- Supports offline shift scheduling editing; report download via USB flash drive
- Access control functions: time- period unlock, group combined unlock, user validity period setting
- Compatible with desktop software and cloud platform
- Supports night- time LED fill- light and infrared fill- light

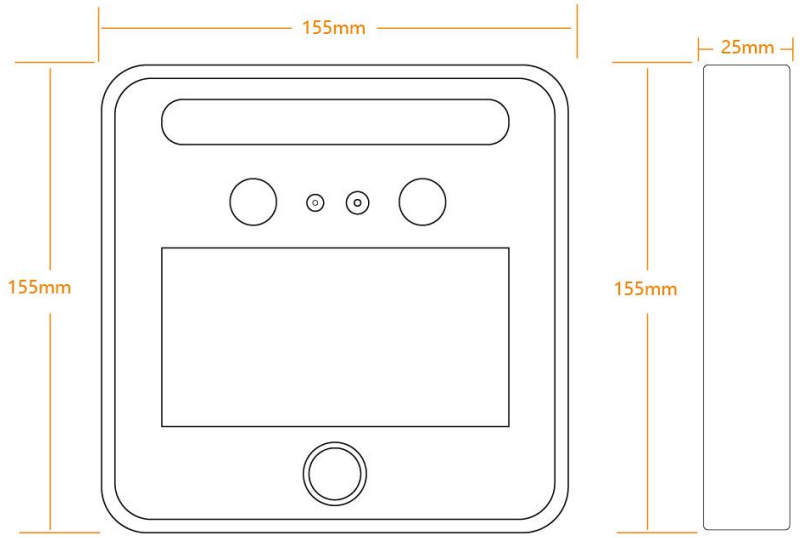
Technical Parameters:

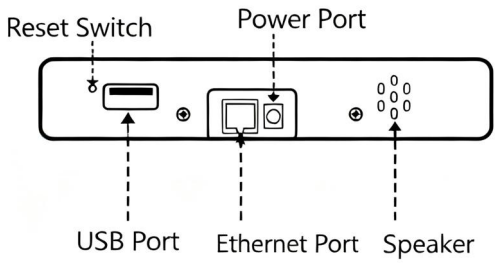
Hardware Parameters	
CPU	1.2G Dual-Core ARM Cortex-A7
NPU	0.8T Computing Power
RAM	256M DDR3L
ROM	4G EMMC
Camera	1/2.9″ Sensor, FOV 75° , 2MP HD Color Camera, WDR Wide Dynamic Range
	1/5″ Sensor, FOV 75° , 2MP IR Camera
Fill Light	LED High-Brightness Fill Light
	Dual IR High-Power Fill Light
Display	5″ IPS HD Touch Screen
Keyboard	On-Screen Touch Virtual Keyboard
Communication Interface	TCP/IP, USB Type-A (USB Drive Function) Standard; Wireless Wi-Fi (Optional)

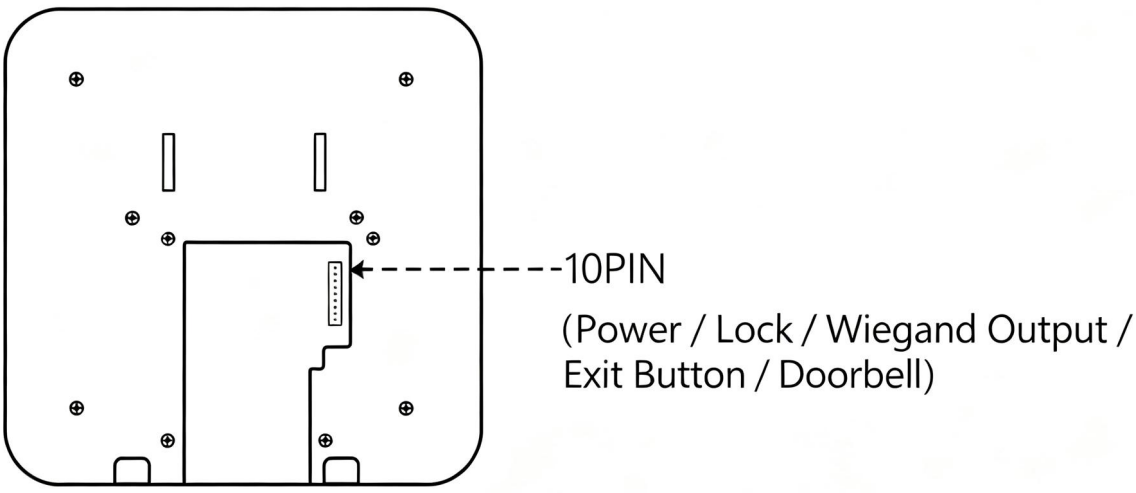
False Rejection Rate (FRR)	<= 0.1%	
False Acceptance Rate (FAR)	<= 0.001%	
Dimensions	155mm*155mm*25mm	
Power Supply	DC 12V, 2A	
Operating Temperature	-15° C to 60° C	
Firmware Parameters		
Operating System	Linux	
Language/Voice	Chinese, English and 20 Other Languages, Voice	
User Capacity (persons)	30,000 Standard; 240,000 (Optional)	
Face Capacity (faces)	10,000 Standard; 80,000 (Optional)	
Fingerprint Capacity (templates)	20,000 Standard; 160,000 (Optional)	
Card Capacity (cards)	30,000 Standard; 240,000 (Optional); ID Card Standard (IC Card Optional)	
Password Capacity (passwords)	30,000 Standard; 240,000 (Optional)	
User Records (entries)	500,000	
Verification Methods	Dynamic Face Recognition, Fingerprint Recognition, Card Verification, Password Verification, Palm Vein Verification (Optional) Face + Fingerprint and Other Combined Verification	
Recognition Mode	1:1, 1:N	
Recognition Display	Name, Employee ID	
Face Recognition Time	< 0.2s	
Liveness Detection	Dynamic Dual-Camera Anti-Spoofing, Prevents Deception by Black & White, Color Photos and Videos on Various Carriers	
Recognition Distance	Pure Dynamic Face Recognition	0.5-2.5m
	With Liveness	0.5-1.5m

	Detection Enabled	
Interface Parameters		
USB Drive Output	1 Channel (USB Drive Function)	
Relay Output	1 Channel	
Exit Button	1 Channel	
Wiegand Signal Output	1 Set WG26/34 Output	
Doorbell Function	Supported	
Ring Function	Supported	
Software		
Desktop Software	Free	Desktop Software is a professional software integrating HR, Attendance and Access Control. 1. Supports Access Database and MS SQL Database; 2. User-friendly interface, easy to operate; 3. Personnel photos can be added to the software and uploaded to the device; 4. Comprehensive access control functions (access time periods, personnel grouping); 5. During personnel recognition, photos can be captured and uploaded to the system in real time; 6. Comprehensive attendance functions, suitable for attendance needs of small and medium-sized enterprises
Public Cloud Platform	Free	Public Cloud Platform is a professional cloud platform integrating HR, Attendance, Access Control and Visitor Management. 1. Alibaba Cloud servers provide fast processing speed and high security; 2. Registration information and attendance data are synced to cloud servers in real time, no manual operation required; 3. Multi-location device interconnection, unified management at headquarters; 4. Employees can view their own attendance via APP, administrators can view employee attendance; 5. Supports APP-based door unlocking; 6. Visitor function: generate QR codes via APP, allowing visitors to unlock doors via QR code

Product Dimensions (Unit: mm)


155mm
155mm
25mm
155mm


Reset Switch
Power Port
USB Port
Ethernet Port
Speaker


10PIN
(Power / Lock / Wiegand Output /
Exit Button / Doorbell)

Wall- mount Installation:

Desktop Placement:

Self- service report export via USB flash drive:

原始记录表

日期:2022-9-1~2022-9-30

工号:345 姓名:测试试 部门: 班次:shift1															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
08:25 12:00 13:30 18:00 18:28 21:00															
17	18	19	20	21	22	23	24	25	26	27	28	29	30		

考勤明细表

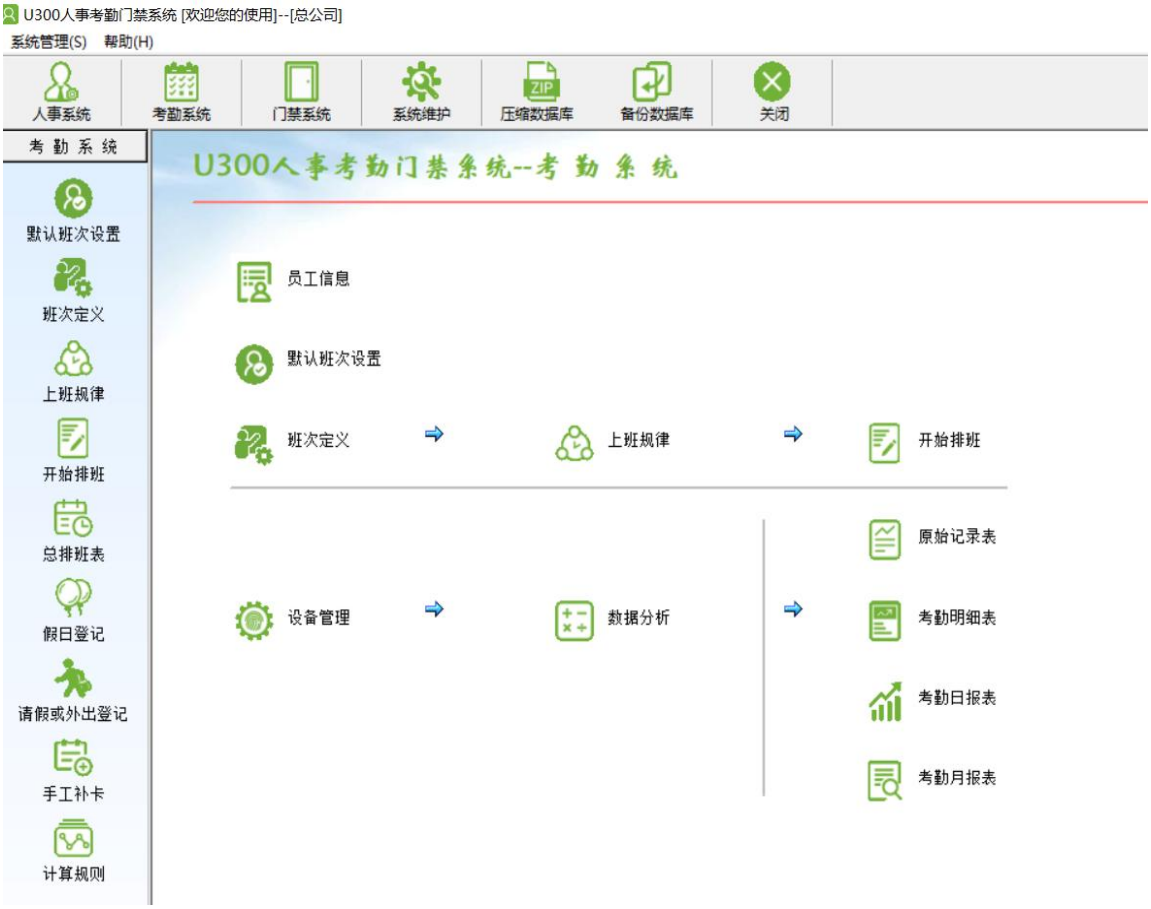
工号:345		姓名:测试试										
部门:		班次:shift1						日期:2022-9-1~2022-9-30				
日期	周	班段1		班段2		班段3		出勤时数		加班时数	迟到分钟	早退分钟
		上班	下班	上班	下班	上班	下班	标准	实际			
09-01	周四	08:25	12:00	13:30	18:00	18:28	21:00	8.0	8.0	2.5	0	0
09-02	周五							8.0	0.0	0.0	0	0
...	...							8.0	0.0	0.0	0	0
09-29	周四							8.0	0.0	0.0	0	0
09-30	周五							8.0	0.0	0.0	0	0
总计:								240.0	8.0	2.5		

考勤汇总表

日期:2022-9-1~2022-9-30

工号	姓名	部门	出勤时数		迟到分钟		早退分钟		加班时数		工作日数	旷工
			标准	实际	次	分	次	分	标准	实际		
345	测试试		240.0	8.0					75.0	2.5	30.0/1.0	29.0

Desktop Management Software:



Cloud Platform Management Software: