

Ai10EFV

Dynamic Face + Palm Vein + Fingerprint Recognition Access

Product Introduction:

The Ai10EFV is a multimodal recognition terminal for face- fingerprint access control and attendance. It is equipped with an AI- accelerated CPU, runs on the Linux operating system and adopts deep- learning algorithms to deliver fast recognition and high accuracy. It supports 1:1 and 1:N modes for face comparison and fingerprint recognition, with built- in card- swipe recognition. Featuring cost- effectiveness, low power consumption and high stability.



Application Scenarios:

The Ai10EFV serves as access control and attendance equipment suitable for government agencies, intelligent buildings, office buildings, high- end residential communities, colleges and universities, enterprises, institutions, industrial and mining

Product Features:

- Equipped with 2MP binocular recognition camera with WDR wide dynamic function, delivering clear images under strong- light, low- light and back- light conditions, with recognition accuracy up to 99.7%. Supports liveness detection and dynamic binocular anti- spoofing to block fake faces and photos.
- 10.1- inch IPS high- definition touch screen, resolution: 800*1280
- Fast face recognition within 0.2s. Supports on- site snapshot and storage of portrait photos upon successful recognition.
- Supports ID / IC dual- frequency card reading.
- Multiple combined authentication modes: face, palm vein, fingerprint, card, password, and card + face combined verification. Flexible configuration for different scenarios.
- TTS intelligent voice broadcast: announces user names in Chinese or English after successful recognition, also supports non- standard English names (Indonesian, Indian names).
- Supports display and voice for 20 languages including Chinese and English, covering Chinese, English, Korean and Persian.

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- Freely switch between 26- key and 9- key input keyboards.
- Local face enrollment available; photo enrollment via USB flash drive import or background software import.
- Dual- mode report output: export access records via USB flash drive; generate statistical reports through desktop software and cloud platform.
- Professional access control functions: time- period unlock, group combined unlock, user validity period setting for professional- scenario deployment.

Technical Parameters:

Hardware Specifications		
Item	Specification	
Model	AI10EFV	
Manufacturing Process	Precision machining	
Housing Material	Aluminum alloy	
CPU	1.2 GHz dual-core ARM Cortex-A7	
NPU	0.8 TOPS computing power	
RAM	256 MB DDR	
ROM	4 GB eMMC	
Camera and Fill Lights	2 MP color camera + 2 MP infrared HD camera; dual high-power infrared fill lights	
Display	10.1-inch IPS touch screen; 800 × 1280 resolution	
Communication	TCP/IP, USB Type-A port (USB flash drive function), optional Wi-Fi	
False Rejection Rate	≤ 0.1%	
False Acceptance Rate	≤ 0.001%	
Power Supply	DC 12 V, 2 A	
Operating Temperature	-15°C to +60°C	
Dimensions	299 × 164 × 21 mm	
Firmware and Recognition Specifications		
Item	Specification	
Operating System	Linux	
Languages / Voice	Supports voice prompts in Chinese, English and up to 20 languages	
User Capacity	30,000 standard; 240,000 optional	
Face Capacity	10,000 standard; 80,000 optional	
Palm Vein Capacity	20,000 standard; 160,000 optional	
Fingerprint Capacity	20,000 standard; 160,000 optional	
Card Capacity	30,000 standard with dual-frequency ID / IC card reading; 240,000 optional	
Password Capacity	30,000 standard; 240,000 optional	
Transaction Records	500,000	
Verification Methods	Dynamic face recognition, palm vein, fingerprint, card and password; supports combined verification such as face + fingerprint	
Recognition Modes	1:1 and 1:N	
Recognition Display	Name and employee ID	
Face Recognition Time	Less than 0.2 seconds	
Liveness Detection	Dynamic dual-camera anti-spoofing technology to prevent fraudulent attempts using photos, videos and face models on different media	
Recognition Distance	Dynamic face recognition: 0.5–2.5 m; with liveness detection enabled: 0.5–1.5 m	

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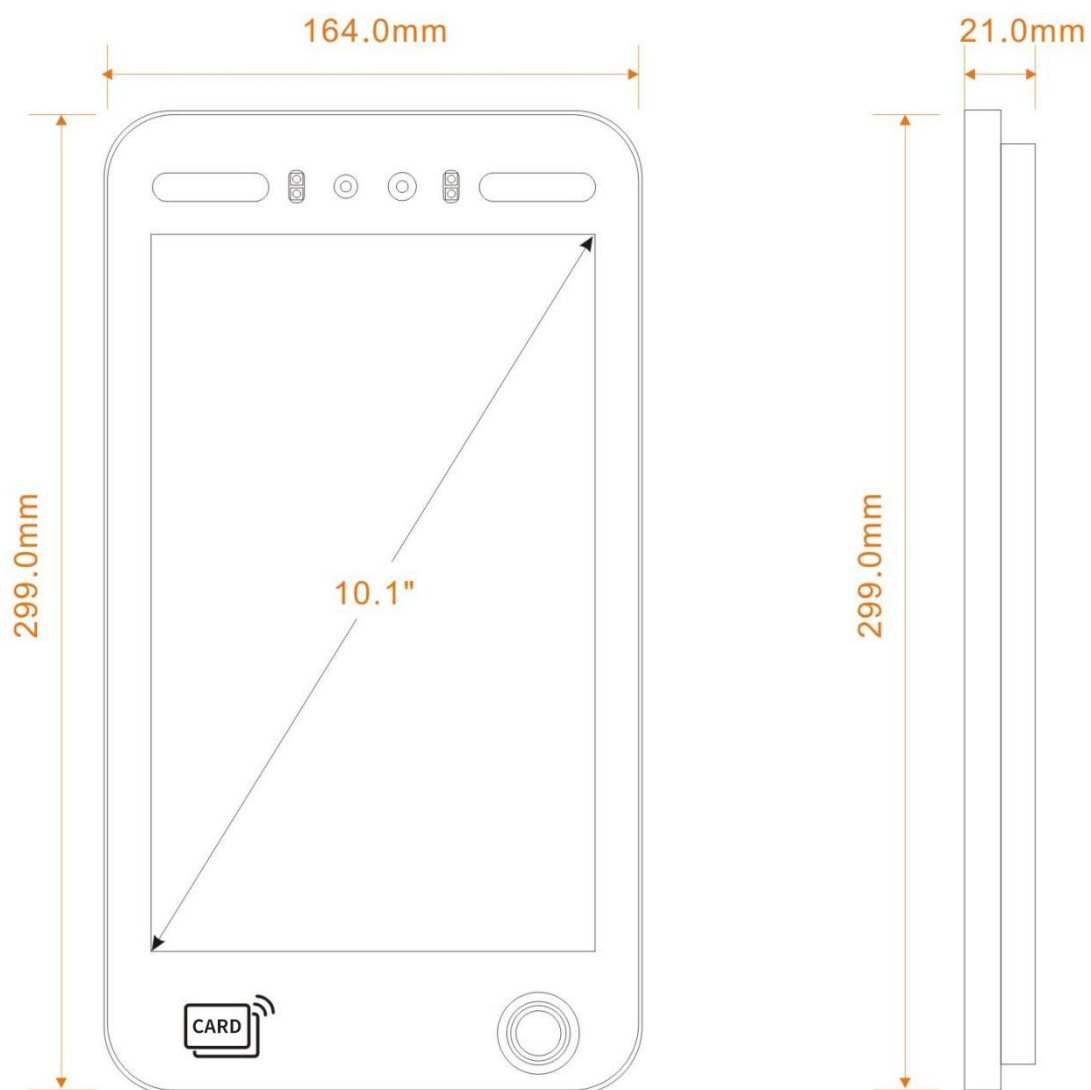
Interface Specifications

Item	Specification
USB Output	1 port (USB flash drive function)
Relay Output	1 output
Alarm Output	1 output
Exit Button	1 input
Wiegand Output	1 set of WG26/34 output
Wiegand Input	1 set of WG26/34 input
Door Contact	Supported
Reset Function	Supported

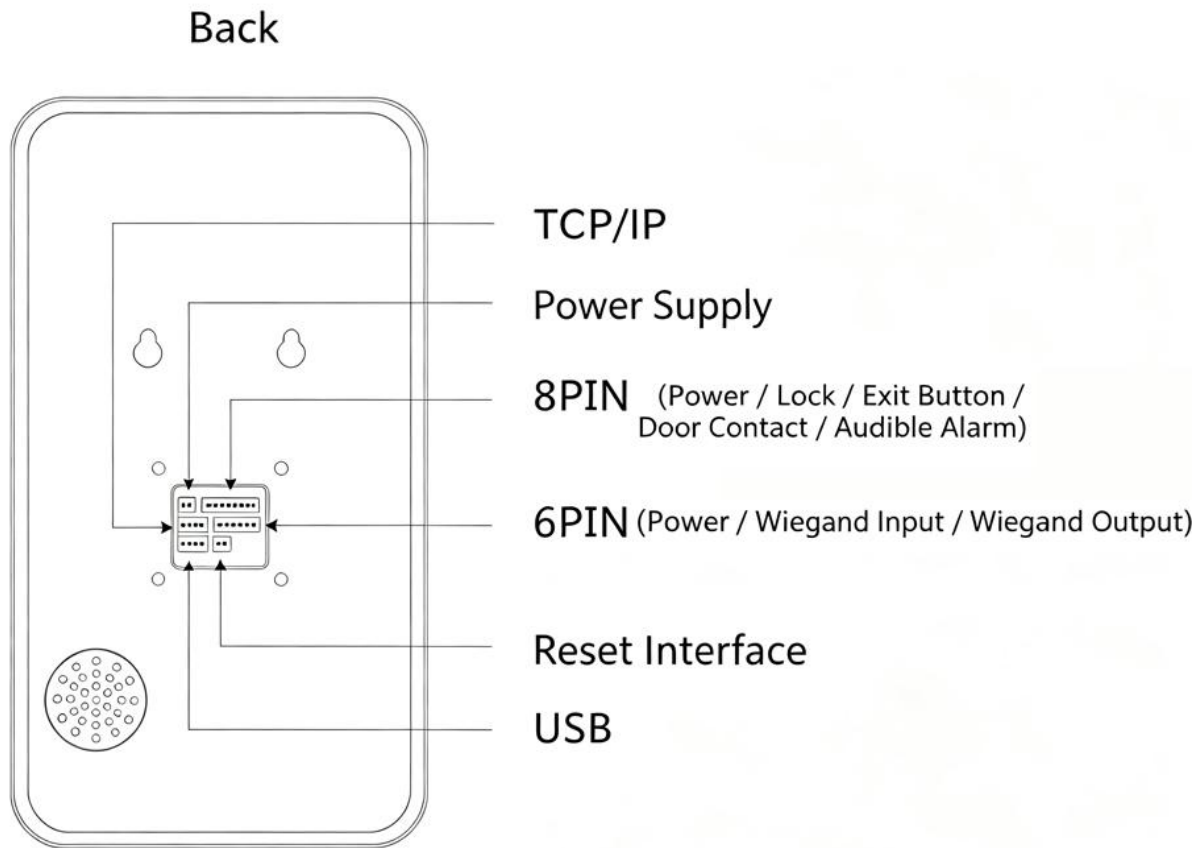
Software

Desktop Software	Free	The desktop software integrates personnel management, time attendance and access control. It supports Access and MS SQL databases, provides a user-friendly interface, allows personnel photos to be added and uploaded to the terminal, supports access-control time zones and personnel groups, captures photos during recognition for real-time upload, and provides time-attendance functions suitable for small and medium-sized enterprises.
Public Cloud Platform	Free	The public cloud platform integrates personnel management, time attendance, access control and visitor management. Registration information and attendance data are synchronized to the cloud server in real time. It supports multi-site device interconnection with centralized head-office management, employee and administrator attendance viewing through an app, mobile app door opening, and visitor QR-code access.

Product dimensions (unit: mm)

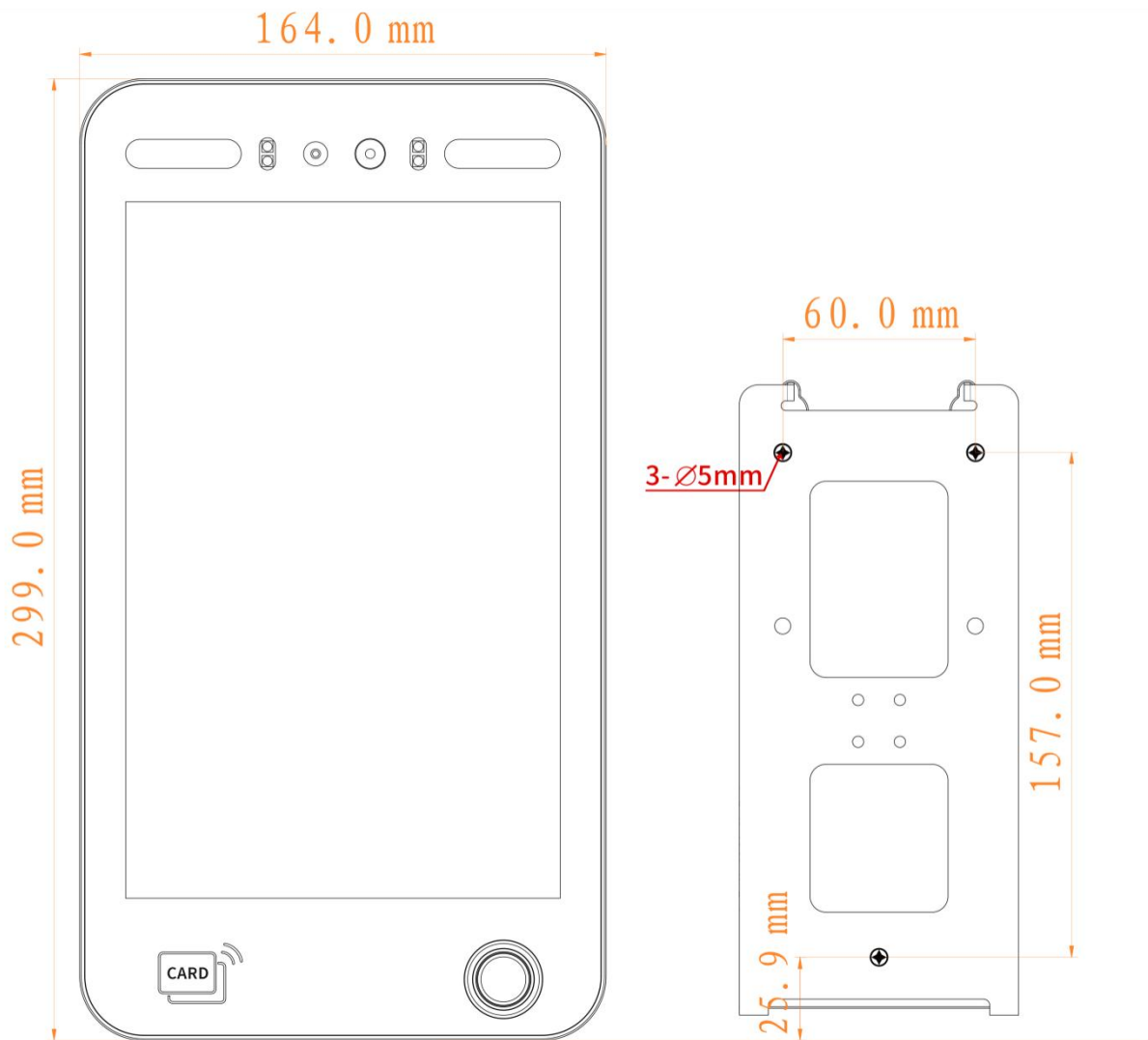


Interface diagram



Wall-mounting diagram and installation examples:

Recommended installation height: 1.5m from the lens center to the ground (adjust the height according to actual conditions)



Installation Rendering:



Turnstile Installation Rendering:



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		

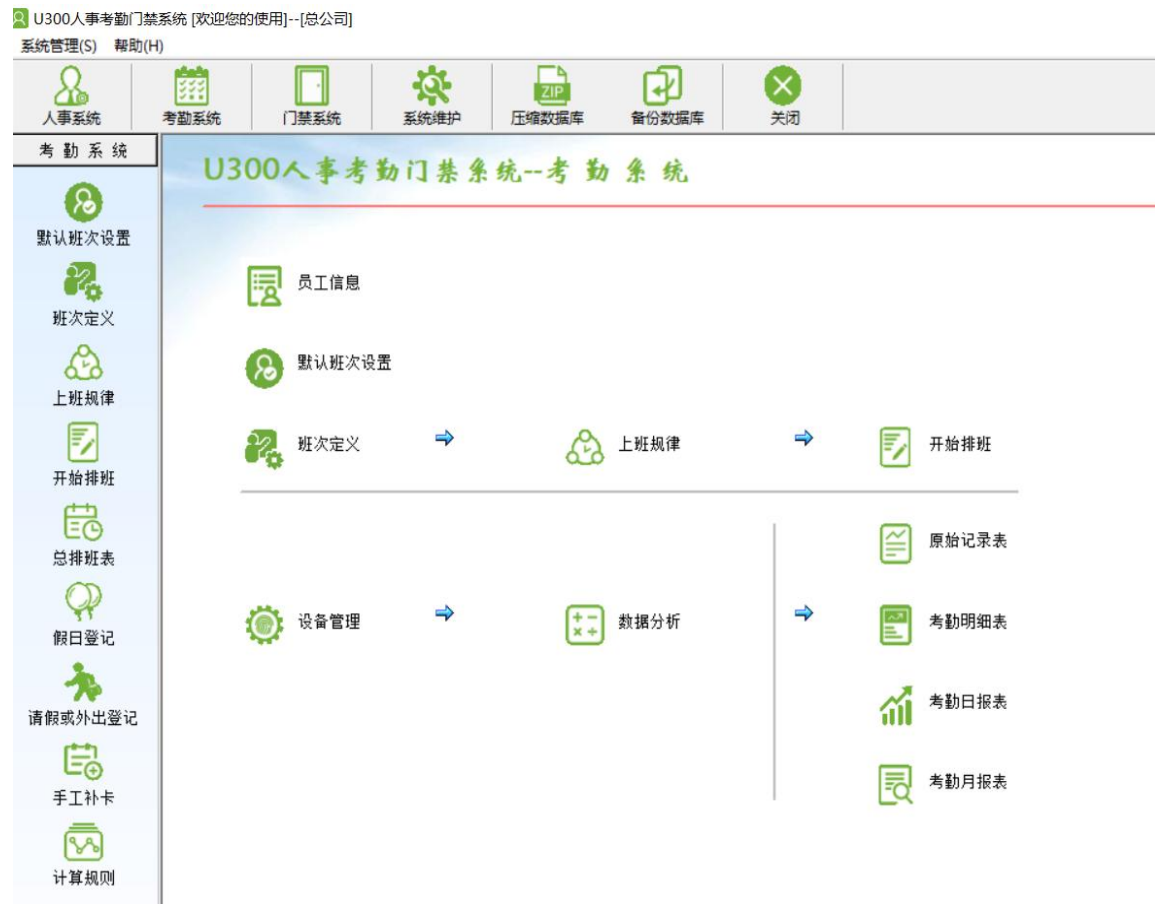
考勤汇总表

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

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Desktop Management Software:



Cloud Platform Management Software:

