Al dynamic facial terminal

Please read this manual carefully before installation and keep it safe for future reference

V1.0

1. Appearance introduction (pictures for reference only)



Card swiping area

Bottom surface



7. User management

Click on the bottom of the machine screen [Settings]>[User Management]

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[Face collection]: If the distance is too close, it will prompt the validation failure or the distance is too close [Card registration]: In this interface directly put the card in the card reading area, you can quickly add the card, if you need to input the card number, you need to click and enter

[Fingerprint registration]: Input 4 fingerprints, input fingerprints, fingerprint window and finger should be kept clean, and check whether there is foreign body on the finger. Input fingerprints from as many angles as possible

[Department]: Filling in will affect whether the attendance software should be scheduled according to the department

[Password]: The combination verification formula of employee number + password will be added after filling in. Note that the password and card number are purely numeric.

[Card number]: For the ID or IC card number, add [card number] and swipe the corresponding card to verify it. The card number is a combination of letters and numbers.

[Personnel Permissions] By default, they are ordinary personnel and can be set as administrators, blacklists, visitors. After switching to administrator, you need to verify administrator permissions when entering the management settings interface.

[Advanced Settings]

- 【 Schedule 】: 【 Attendance management 】→ Edit schedule
- 【Time period】: [Access control management]→ Time period setting
- 【User Group】: [Access control]→ Unlocking combination setting
- [Personal verification mode]: You can choose a variety of ver ification such as face plus password, card plus password, etc.

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[Department] : [User Management] → Department management

2. Wall mounted installation

- 1) Choose the most suitable installation height of 130cm based on the actual situation of check-in personnel.
- 2) Remove the installed hanging board and stick it on the wall. Select the correct installation position and make a mark.
- 3) Drill holes according to the marked positions.
- 4) Fix the rear hanging plate to the wall.

5) Install the device on the back panel and secure it, then plug in the power.





3. Warm Prompt

1) Do not operate with electricity.

2) When connecting the power lock, it is recommended to use a 12V/2A power supply (for facial recognition devices, independent power supply is recommended).

3) Do not install the device in direct sunlight or damp places. 4) Please read the access control wiring diagram and strictly follow the rules for wiring. 5) When static electricity is severe, please first connect the grounding wire before connecting other wires to prevent static electricity from damaging the machine.

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Set content	Instructions	
User list	Find, modify, and delete personal information	
Department management	Edit Department	
Download User information	Insert a USB flash drive to download user information in batches	
Upload User information	Insert U disk, you can edit the good staff data into the machine.	
Management card registration	Card registration free: After clicking this feature, the card can be registered as a user card as long as it is placed in the card reading position Swipe the card to register the face: swipe the management card once, you can register the user's face, fingerprint, card Registrar master card: Register the card as a master card, you can set 5 master cards, change the card can be registered user face, fingerprint, card	

USB flash drive format requirements: (1) USB flash drive must be fat32 (2)U disk 32G memory less



Set content	Instructions
IP Address	After the device is connected to the Internet, it automatically obtains the IP address and connects to the PC software.
Wiegand setup	[Wiegand mode] Input/Output Optional. [Wiegand format] Wiegand 26/34 Optional. [Content of Wigan] : Output card number and employee number are optional.
WIFI Settings	Turn on the button (do not repeat the operation, patiently wait for the device to search for nearby WIFI signal) Only 2.4G 5G WIFI is not supported
Tuya Settings	Connect the phone to wifi and open the doodle APP for network distribution (doodle version only). See the link:

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4. Basic parameters

Product Name	Dynamic facial recognition terminal
Operating system	LINUX Intelligent Operating System
Display screen	5-inch IPS 480 * 854
CPU	ARM Cortex-A7 800M
User capacity	5000
Facial database	5000
Card capacity	5000 cards (default ID card)
Fingerprint capacity	200, 880, 1760 optional (Fingerprint version only)
Code capacity	5000
User records	100000
Camera	Binocular 2 million pixels
Recognition distance	0.5-2 meters
Rejection rate	<= 0.1%
Misidentification rate	<= 0.001%
Power supply	DC 12V/2A
Communication methods	TCP、USB、WIFI、4G(Optional)
Language display	Simplified Chinese, English, and Japanese
Access control interface	One set of switch signals, one set of wiegand
Verification method	Face, card, password, temporary password, visitor QR code, fingerprint (optional), card+Facial and other combinations for verification
Working temperature	-20°C~60°C



Tuya Configuration

Click on the menu [Settings] → [Communication Management] → [Tuya Settings] (This function is optional and requires both Bluetooth and WiFi to be enabled) Mobile end: 1. Scan and download the Tuya Smart APP on your phone or search for the Tuya Smart Download APP on your phone

- 2. Open the app to add a device, click the "+" button in the upper right corner to add a device 3. Enter the WIFI password, click OK, and then click Next.
- 4. Wait for successful connection, add successfully, click complete
- Device side: Click on the menu [Settings] → [Communication Management] → [Tuya Settings] click on "Network Configuration" to successfully configure and click OK



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9. System Settings

Click [Settings] > [System Settings] at the bottom of the machine screen.

1. Time and date

5	System settings	
G	Time and date	>
	advanced setting	>
8	Local Settings	>
Ô.	Reset	>
٢	Device restart	>

. Advanced Settings				
🕤 advanced setting				
Total number of amountrators	-			
Verification reade. Face.N	- and the second se			
Privacy friding				
L'Université de la contenti	044			
Carrying a mask				
Mademonial	100			
100	Assessory-			
UPGHADE				
villetateringen				
Registing the summation				





Mask mode		
Mask threshold		
Fill-in light		
Firmware upgrad		

	Login authe
	Change scre
	Magazine lo

3. Local Settings

Set content

lumber of administrators

Verification mode

Privacy hiding

N Matches the threshold Se

anguage

D Local set

numbers

- Click on the password in the lower left corner of the machine screen, as shown in the figure: Password verification: 2024-9-28 THU. 18:31 2024-9-28 THU. 18:31
- Administrator login password: Default is 123456
- Change administrator login password: 【Settings】 → 【Access Control $\mathsf{Management} \rightarrow \mathsf{[Access Control Parameters]} \rightarrow \mathsf{[Administrator]}$ Change Password]
- Turn off [Administrator Login Password]: [Settings]→[System
- Settings】→【Advanced Settings】→【Login Verification】
- Offline QR code scanning to open the door: This function is generated by the cloud platform, and the QR code is aimed at the camera to scan and open the door
- [Personal password to open the door]: Enter the [employee ID] of the registered personnel
- [Password] Then click [Confirm], note that all accounts are pure
- [Temporary password to open the door]: Enter the temporary password generated by the mini program to open the door [Device password to open door]: Default is 888888
- Change device door password: [Settings]→[Access Management] →
- [Access Parameters] → [Door Password Change]
- ALT is used to switch input methods For security reasons, please change your password promptly after purchase

6. About Input Method Explanation

- Press "Alt" to switch between pinyin, uppercase/ lowercase letters, and numbers. After completing the input, press' confirm 'to save the settings and then press' return' to exit
- Symbol input: When the input status is Pinyin, pressing" 🛏 " can only input spaces. When the input status is a letter, pressing " 🖵 "
- consecutively will result in exclamation marks, etc

in spaces, dots, commas,		-	Delete	
		OK		
		•	Alt	
4				
Instruct	ions			
Set the total number of device administrators				
Set the identification verification mode of the machine, which can be verified individually or in combination.				
It is turned off by default and hides the turned on	middle o	digit of t	he name	when
Set the matching accuracy of face reco	gnition			
Turn on the switch, the identification w	ill prom	pt "Plea	se wear a	mask"
Set the matching accuracy when carrying face mask recognition				

KBACK Name

abc def

ghi jkl mno

pqrs tuv wxyz

Spell it

light	Default auto-fill light, can be set to normal open, normal close
upgrade	Insert USB flash drive to upgrade firmware
entication	Authentication is required when login is opened
een saver	Insert the USB flash drive to replace the screensaver
ock screen	Default shutdown; If this function is turned on, the screen saver will rotate when the screen is turned off

tings	Set content	Instructions	
Denne	Language	Default: Chinese, English, Japanese	
	Volume	Set the volume of the speaker	
	Speech pattern	You can choose to broadcast a name or play a greeting	
Salutation		Optional: Please pass, welcome, time greeting, punch the card successfully	
Recognition interval		Face can be repeated punching interval	
Screen setup		Set automatic screen and screensaver time	
	Recognition distance	The default value is 50~150CM	
Livenese detection		Verify that the user is acting as a real living person	
Repeat recognition		Repeatable verification is possible	
	Face wake up	It lights up when it detects a live face	

- 4. [Restore factory Settings]: All data will be cleared after restoring factory Settings. 5. [Device restart]: Restart the device.
- 6. [System maintenance]: The device restart time can be set periodically



10. Data management

Click on the bottom of the machine screen [Settings]>[Data Management]

		【 Clear Data 】 Clear all data
🛬 data management		[Menu initialization] Restore the device parameters to the factory state
Clear data	>	without affecting the personnel information and punch record
Menu initialization	>	[Cancel Administrative permissions] Clear all administrator
Cancel management permissions	>	permissions on the device
Export new entry and exit records	>	[Export new access record] You can download the new access record
Export all entry and exit records	>	saved in the machine to the U disk. And form an Excel file.
		[Export all access records] All records saved in the machine can be
Clear all employee information		downloaded to the U disk. And form an Excel file.
Clear all entry and exit records	>	[Delete all employee information] Delete all personnel's registration
		information (face, fingerprint, card, password)

[Clear all access records] Delete all personnel's access records

11. Access control management

1. Access control parameters

14. System Information

[Help] Scan the QR code to obtain the product manual

colour

White and black

Pink

Light green

Yellow

White brown

Brown

Blue and white

Greenish white

Yellow black

White and blue

Blue

15. Access control cable diagram

information

other information

(1) Wires Definition

1. Type A equipment(AI519)

Feature

POL

BUT

ALARM

NC

COM

NO

D0

D1

GND

BELL+

BELL-

Click [Settings] > [Access Control] > [Access Control Parameters] at the bottom of the machine screen

Set content	Instructions	
Opening delay	Sets the interval at which the lock control relay will return to its normal state after it is activated	
Stranger unlocking	Strangers can open the lock directly after opening it	
Door opening password change	Change the door opening password	
Changing the administrator Password	Change the administrator password	
Fire alarm	Can be set to normally open/normally closed/closed	
Simultaneous recognition number	Need N people to verify before opening the door (N stands for the number set here)	
False press alarm	Set the number of false press alarms	
No access records are kept	When this feature is turned on, no entry or exit record is saved	
Prohibited Access Mode	After opening, traffic is prohibited at other times except the normally open time	
Stranger verification	Can be set as No/Yes/Alarm	
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[Data Capacity Information] You can view the total capacity information and usage capacity

[Device Information] You can view device serial number, manufacturer, firmware version and

- Functional line

Wiegand input/output

-TCP/IP network interface

Function description

Forced upgrade input

Door opening button

Alarm negative

Control lock signal normally closed end

Lock signal public end

The lock signal usually starts

WG output line D0

WG output line D1

Negative power supply

Doorbell interface "+"

Doorbell interface "-"

Power interface (can be cut directly if needed)

Relay output

-Doorbell wire

Common end

2. Time Attendance Settings

2.1 Days

According to the user's access rule and system, the daily traffic time is set to the corresponding time period. A total of 8 day periods can be set, and a day period can support a maximum of 5 time periods for weekly selection. For example, a setting that can open the door from 6 a.m. to 8 p.m., and open the door from 17 p.m. to 19 p.m., as shown in the following figure [day period 1], if you need to set the all-weather door, as shown in the following figure [day period 2] :

For example: [Day Period 1] is set to			Fo	For example: [Day Period 2] is set to			
	1	06 : 00	08:00		1	00 : 00	23 : 59
	2	17 : 00	19 : 00		2	00 : 00	00 : 00
	3	00 : 00	00 : 00		3	00 : 00	00 : 00
	4	00 : 00	00 : 00		4	00 : 00	00 : 00
	5	00 : 00	00 : 00		5	00 : 00	00:00

2.2 Week Period

According to the user's access rules and regulations, the traffic time of each week is set to the corresponding day period. For example: Monday to Sunday

5 Apply the above day time period 1 rule, Saturday and Sunday can be open all day. As shown in Figure 1, the setting of weekly session 1:

Week	Week period		The door is usually open		
Monday	1		Monday	1	
Tuesday	1		Tuesday	1	
Wednesday	1		Wednesday	1	
Thursday	1		Thursday	1	
Friday	1		Friday	1	
Saturday	2		Saturday	1	
Sunday	2		Sunday	1	
(Figure 1)			(Figu	ire 2)	

Note: [Weekly period 0] is open all day by default. All other hours are closed throughout the day. If the definition of the day period is not changed, other times are also open all day by default.

3. Visitor entry and exit time slots

Set visitor entry and exit time periods according to needs

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(2) Wiring Diagram with Special Access Control Power Supply



(3) Wiring Diagram with Wiegand Controller



If sharing power with other devices, it is recommended that the power supply current of the power supply be greater than the total operating current

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4. Door normally open time period

According to the demand, set the corresponding daily time slots for each week, within which the door remains open, as shown in Figure 2. Setting the day slot 1 every day means that the door lock remains open from 06:00 to 08:00 and from 17:00 to 19:00 every day

5. Unlock combination setting

5 sets of unlocking combinations can be set. For example, if the unlocking combination is set to 1, only personnel from group 1 can open the door. User groups can be set in User Management -> New Users ->Advanced Settings ->User Groups.

12. Attendance management 1. Attendance rules

Click on the bottom of the machine screen [Settings] Pop-up menu, click [Attendance Management]>[Attendance rules]

Set content	Instructions					
Duplicate confirmation time	If the interval between two records is less than this time, only the previous record is stored					
Download Attendance report	Insert U disk to export the scheduling table, you can edit the scheduling table on the computer, as shown below:					
Upload schedule	After editing the schedule, edit the content that needs to be set, save it and import it into U disk					
Attendance record warning	When the number of records left to store is less than this value, the machine will alarm					
Save photo	After the save photo function is enabled, the machine can capture the photo when the user is identified and save it					
Stranger snap	After the function is turned on, the machine can capture the photo of the stranger user identification and save it					
Verification failure prompt	You can choose prompt or alarm if the verification fails					
Default shift	Set default shifts to apply to unscheduled users					
visa-free	Can be set to sign only morning and evening work or only sign early work, etc					
Excel password	Set the password for the attendance report					
Allowable late time	More than how long late is counted as late					
Early leave time allowed	The amount of time over which you leave early is counted as early leave					
Double check no door open	After this function is enabled, repeated verification does not open the door					
Upload questionnaire	Custom					

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2. Type B equipment(AI520)

(1) Definition of Equipment Cable Interface

Function	Colour	Function Description			
GND	Black	Common terminal			
BUT	Brown	Force upgrade input			
ALARM	Grey	Fire Alarm			
DOOR	Blue	Exit Switch Button			
DOOR BELL	Pink	Doorbell+			
D1	Orange	WG output line D1			
D0	Purple	WG output line D0			
NO	Green	Relay Normally open			
COM	White	Relay Common (public) end			
NC	Yellow	Relay Normally Closed			

Function	Colour	Function Description				
GND Black		Power supply-				
+12V Red		Power supply+				

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Function	Colour
RX-	
RX+	Network cable
TX+	Network cable
TX-	

	Shift										
Note	Note: A, shift name up to 48 words. B. Section type: 0: normal attendence: 1: overtime: C- out off time: if the punch before the -out off time; it will adout te as the previous day.										
	Name	Sect		Sec2		Sec1					
NU.		IN	001	Sec. 1 Spc	IN	oui	Sec. typ w	IN	oui	Sec. 1 ypu	Cutoff time:
1	Day Shift	08:50	32:00	U	15:50	18:00	U	18:50	21:00	1	00:00
z	night shift	22:00	06:00	U							07:00

the original file. Attention automatically change to 10:30:00.





[Export schedule] Sample chart:

Ask for editing shifts as prompted at the table head. Up to 8 shifts can be set up. After finishing the editing, press [Save] directly to copy the modified file to the USB flash drive and directly replace

(1) For data security. You must copy the file to the computer, then edit it, and then copy it back to the USB flash drive after editing. Do not edit directly on USB flash drive. Otherwise, an error message will be displayed during the import.

(2) The format of attendance time must be time, and the type of attendance must be number. Therefore, pay attention to whether the input method status is English

Text half corner status. Check method: If you enter 10:30, double-click the cell, the software will

(3) If the cross-day time is set, the punch before the cross-day time is counted as the previous day's record. And scheduling should start after the day shift. For example:

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(2) Wiring diagram with access control power supply



(3) Wiring Diagram with Wiegand Controller



Recommended power supply: 12V -6A

If sharing power with other devices, it is recommended that the power supply current of the power supply be greater than the total operating current

2. Attendance export

Insert U disk, export attendance can automatically generate a table

3. Record viewing

Check the verification record, click [start query time] to set the date to be queried, [end query time] Enter the end time of the query and click the search icon

Editing shift

This machine supports eight shifts, you can edit the shift name, time, support cross-day time Settings 5. Ring the bell

5.1 Ringing Time: You can set 24 ringing times per week

- 5.2 Number of Ringing Times: Set the number of continuous ringing times (1 ~ 99)
- 5.3 Doorbell Output:

5.4 Doorbell setting: You can choose the local doorbell ringing and external doorbell ringing

6. Record upload switch

On or off, whether to upload records to the software platform

13. Automatic testing

Click the pop-up menu of [Settings] at the bottom of the machine screen, click [Automatic test] > [All test] This function can automatically test the machine

• ; automatic testing		•_> Factory test
All tests	>	ICD text Secondary Text
Screen testing	>	Camera test WIFI test
Voice testing	>	RTC test Ethernet test
Fingerprint testing	>	Infrared light Light sensor test
E Facial testing	>	Light test Touch test
Cal time clock test	>	Alarm test USB test
		IC card/QR code Aging test
		Auto test Reset test

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Warranty Notice:

In order to protect your usage rights and relieve your worries! Our company provides you with a one-year high-quality warranty service!

During the warranty period of the product, if there is an electronic malfunction, the warranty can be processed with a warranty card or invoice;

2. If the repair or replacement of the product is caused by a malfunction (provided that there is no damage to the appearance of the product), the company will send out the product within 15 days after receiving it;

3. The following situations are not within the scope of warranty for repair:

a. Users alter, disassemble, or replace the product number and machine number without authorization:

b. Damage caused by the use environment not meeting the product's usage conditions; c. Product damage caused by poor transportation;

4. For the following situations, the material cost will be charged separately, whether within or outside the warranty period or service contract: damage caused by uncontrollable natural forces such as earthquakes, fires, floods, etc; Malfunctions caused by improper use (such as power supply).