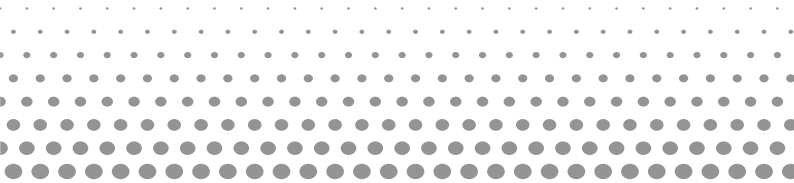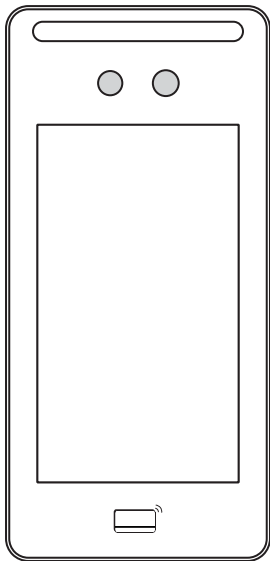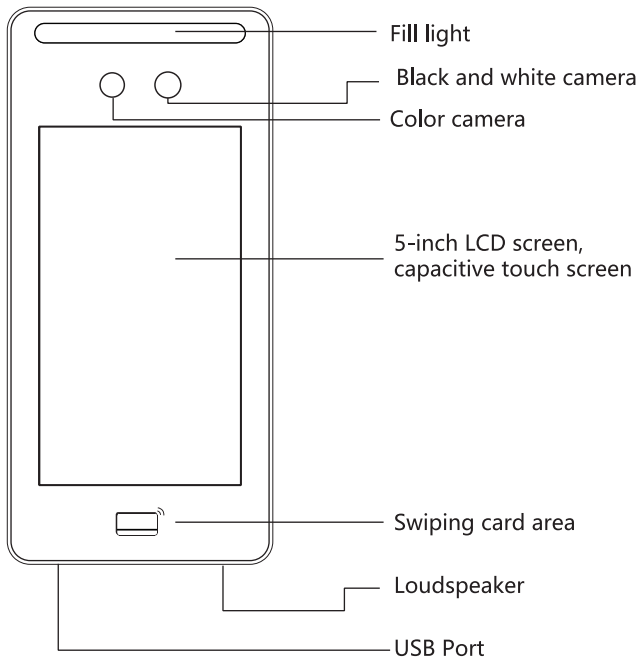# Dynamic Facial Recognition Access Control User Manual

1. Introduction

This series' product is a new generation multi-functional face recognition standalone access control, use new AI processor design, and RTOS intelligent operation system,powerful function,stable and reliable, with read mode, standalone mode etc, apply to many different places, be widely used at office, home,villa,bank, prison etc.

2.Technical Specifications

| OS	RTOS intelligent operation system
Camera	200W pixel HD color camera \200W infrared live camera
Fill Light	LED high light filling lamp (automatic control according to ambient light)
Working Voltage	DC-12V-10%
Power Supply	DC-12V 3-5A
Display Screen	5-inch LCD screen, capacitive touch screen 272*480
Working Temperature	-15℃ ~ +45℃ (Storage Temperature-10℃ ~ +65℃)
Working Humidity	20% ~ 90% (Storage Humidity20% ~ 90±2%)
Capacity	2000 Face/code/card in total
Users Record	100,000pcs
Keypad	Touch screen virtual keypad
Access Mode	Face/Card/Pin, Face+Pin, Pin+Card(EM)
Recognition Distance	pure dynamic face recognition - 0.5-3m ,open liveness 0.5-1.5m
Intelligent Function	Infrared liveness detection
Door Contact signal	One group signal Input
Door Bell Control	One group signal
Relay Output	Door open signal control one group
Output	WG26/34 out put (could be used as a reader and connected with a controller)
Weight	500g
Size	173*83*22mm

3.Product Introduction

Fill light

Black and white camera

Color camera

5-inch LCD screen, capacitive touch screen

Swiping card area

Loudspeaker

USB Port

4.Product Use

4.1 Main Interface

Click interface - Menu Key - Input master code (default:999999)to enter main menu,or scan master face to enter

12:05

9th June,2022
Thursday
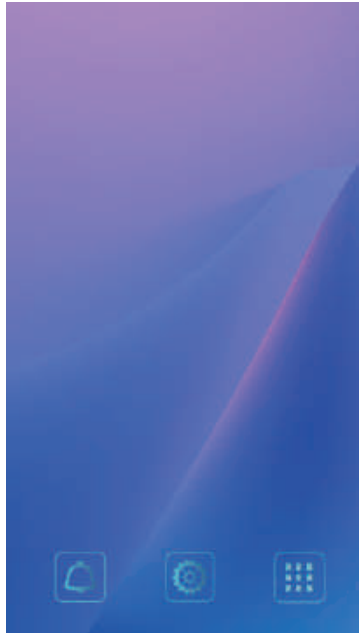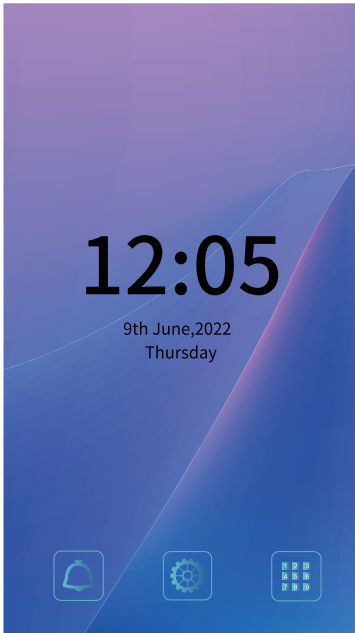
Administrator Password

Password: [_____]

Confirm

Face login

Open the door password

Passowrd: [_____]

Confirm

USER

ACCESS

RECORD

ALGORITHM

About device

SYSTEM

4.2 User Management

4.2.1 Add user

Add user: Click menu user management → creat user → register number,name,-card,password,log face,select permission (administrator or user)
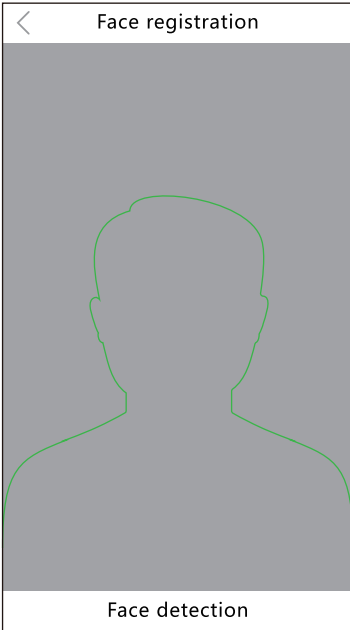
User management	
👥 Creat user	⟩
👤 User list	⟩
👥 Batch import of users	⟩

Creat user

Number	[ ]
Name	[ ]
Card	[ ]
Password	[ ]
Log face	Log ⟩
Permission	User ⟩

Confirm

Face registration

Face detection

Creat user

Number

Name

Card

Permission

User ✓

Administrator

Confirm   Cancel
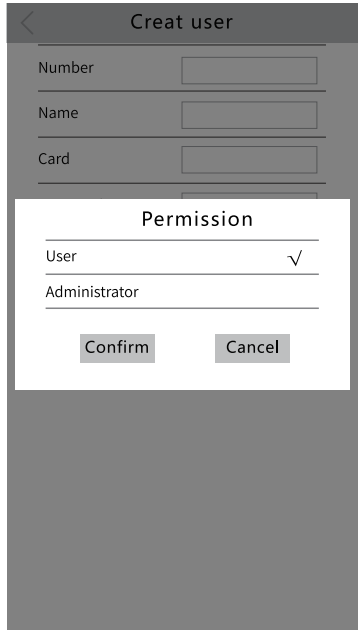
4.2.2 User list
Search user: Click Menu User management → user list

Users list	🔍 Query
14	Steven ✎
1	Lucy ✎
10	Aaron ✎
14	Vivian ✎
1	Jimmy ✎
10	Colin ✎
14	Lee ✎
1	Lily ✎
10	Paul ✎
14	Niki ✎
1	Grace ✎

1/12 |◁ ◁ ▷ ▷| ⮐ Export

Find users
Please enter power consumption or name to find

Number [   ]

Name [   ]

Query   Cancel

4.2.3 Batch import of users

Step1:Prepare batch recognition excel file according to the instructions

Step2:Copy the excel file to the root directory of the u disk

Step3:Click recognition button

Import

4.3 Access Settings
4.3.1 Access mode
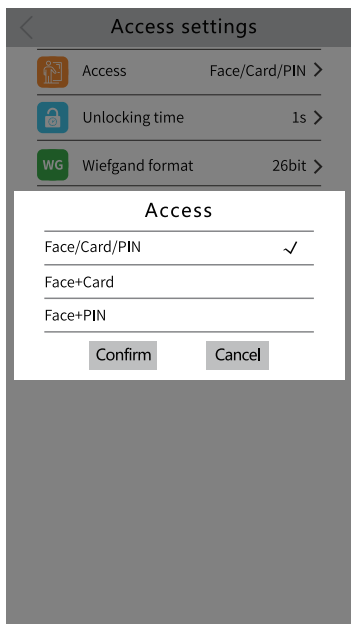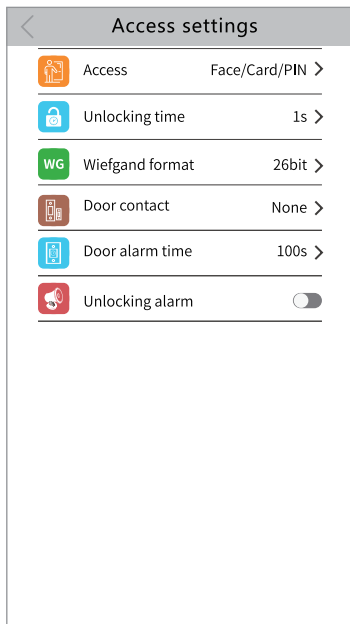Access：Click menu Access settings → Access → Face/Card/PIN or Face+card or Face+PIN→ Confirm

Access settings	
Access	Face/Card/PIN >
Unlocking time	1s >
Wiefgand format	26bit >
Door contact	None >
Door alarm time	100s >
Unlocking alarm	

Access settings

Access	Face/Card/PIN >
Unlocking time	1s >
Wiefgand format	26bit >

Access

Face/Card/PIN   ✓

Face+Card

Face+PIN

Confirm   Cancel

4.3.2 Unlocking time

Click menu Access Settings → Unlocking Time → Select the appropriate time → confirm

4.3.3 Wiegand format

Click the menu Access Settings → Wiegand format→26bit / 34bit→ confirm

4.3.4 Door Contact

Click menu Access Setting → Door Contact → Remain closed/Remain Open/None → Confirm

4.3.5 Door Alarm Time

Click menu Access Setting→Door Alarm Time →Adjust time →Confirm

4.3.6 Unlocking Alarm

Click menu Access Setting→Unlocking Alarm→ Turn on/off

4.4 Open the door to record

4.4.1 View record

View record: click menu open the door to record→View record

| Open the door to record	
📰 View record	›
🖼 Stored information	›
📋 Interval time	10 Seconds ›

View record	(Query)
14	2022/5/11 16:11
1	2022/5/11 14:58
10	2022/5/11 14:53
14	2022/5/10 12:15
1	2022/5/10 12:00
10	2022/5/10 12:00
14	2022/5/10 12:00
1	2022/5/10 12:00
10	2022/5/10 12:00
14	2022/5/10 12:00
1	2022/5/10 12:00

1/12 |< < > >| Export

4.5 Algorithm setting
4.5.1 Liveness detection
Click menu Algorithm setting→Liveness detection →Turn on/off

Algorithm setting	
liveness detection	⬤
Liveness threshold	10 ›
Mask detection	◯
Mask recognition	⬤
Mask threshold	53 ›
Distance	150cm ›
Voice mode	›
Greetings	Please pass ›
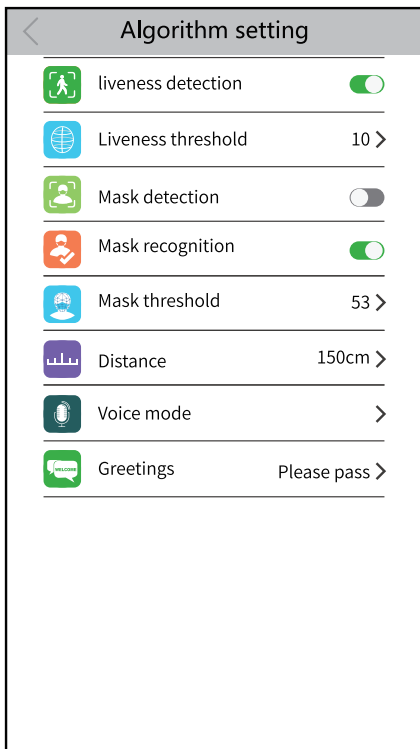
4.5.2 Liveness threshold
Click menu Algorithm setting→Liveness threshold→ adjust number→Confirm

4.5.3 Mask detection
Click menu Algorithm setting→ Mask detection→ Turn on/off

4.5.4 Mask recognition
Click menu Algorithm setting→ Mask recognition→ Turn on/off

4.5.5 Mask threshold
Click menu Algorithm setting→ Mask threshold→adjust number→ Confirm

4.5.6 Distance
Click menu Algorithm setting→ distance→adjust number→ Confirm

4.5.7 Voice mode
Click menu Algorithm setting→ Voice Mode→Broadcast time,Broadcast greeting → Confirm

4.5.8 Greetings
Click menu Algorithm setting→ Voice Mode→Please pass, welcome→ Confirm

4.6 Related to device
4.6.1 System version V2.1.9
4.6.2 Algorithm Version 2020/11/12
4.6.3 System Upgrade
4.6.4 Factory reset
4.6.5 System Maintenance
4.6.6 Factory Test

4.7 System settings
 4.7.1 Admin password
Reset password: click menu → system → admin password → reset password

System settings	
🔑 Admin password	>
📗 Language	English >
🌐 Time zone	Beijing >
🕐 Time settings	>
🔊 Volume settings	10 >
☀️ Brightness settings	5 >
💡 Fill light settings	🟢 >

Reset password
Old password
New password
Confirm
Confirm

4.7.2 Language

Click menu → Language → Chinese / English

4.7.3 Time zone

Click menu → system → time zone →select the time zone → confirm

Time zone setting	
Beijing	✓
Tokyo	
New york	
London	
Paris	
Berlin	

4.7.4 Time settings

Click the menu → system → Time Settings → Select time → confirm

Time settings

Automatic ⬤

Manual   2022/05/11/16:14:04

∧	∧	∧	∧	∧	∧
2022 Year	5 Mon	11 day	16 :	14 :	4
∨	∨	∨	∨	∨	∨

Confirm

4.7.5 Volume setting
Click the menu → system → volume settings → turn up or down → confirm
4.7.6 Brightness settings
Click the menu → system → Brightness settings → turn up or down → confirm
4.7.7 Fill light settings
Click the menu → system→ brightness setting → turn on / turn off

5 Installation
1)The device is installed indoor or outdoor. Please avoid direct sunlight and rain, and avoid infrared and strong light on the camera.

2) The wiring of power cables and access control cables should be as short as possible to avoid interference.

3) According to the application scenario to confirm the installation height, keep the face recognition distance in 30-150 cm.

4) Register face should avoid strong light or dark environment to keep the face clearly.

6. Access control wiring diagram

Item	mark	color	function
1	BELL_A	Pink	Door bell one end
2	BELL_B	Pink	Door bell on the other hand
3	D0	Green	Wiegand output D0
4	D1	White	Wiegand output D1
5	ALARM	Gray	Negative alarm (positive alarm connect +12V)
6	OPEN	Yellow	Exit button one end (on the other end connects GND)
7	D_IN	Brown	Door contact switch one end (on the other end connects GND)
8	DC12V	Red	Positive power supply

9	GND	Black	Negative power supply
10	NO	Blue	Relay NO end
11	COM	Purple	Relay COM end
12	NC	Orange	Relay NC end

7 Diagram
Special power supply
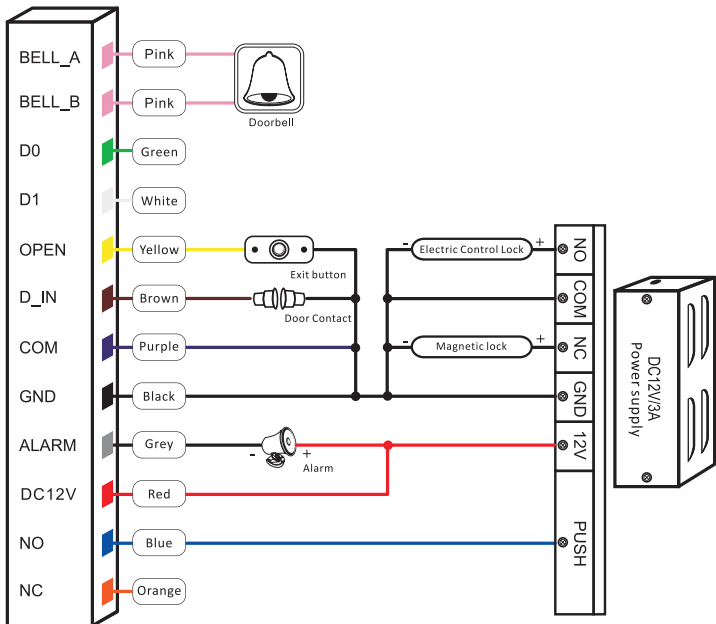
8. Packing list

Name	Model/size	Quantity	Remarks
Face recognition access control		1	
User manual		1	
Self tapping screws	Φ4mm×25 mm	2	Used in fixing
Rubber plug	Φ6mm×28 mm	2	Used in fixing
Star screw driver	Φ20mm×60mm	1	Special for this device
Star screw	Φ3mm×5mm	1	Used in fixing front and back cover

Warm Tips

* Please don't maintain the device privately, any issues please turn back to factory.
* To avoid unnecessary trouble, please check concealed wires or line pipes carefully if need to drill a hole before installation, moreover, please wear security glasses when drilling a hole or fixing wires.
*If upgrade, manual may changed a little.