

TupuCheck

User Manual

TupuCheck

Face Recognition & Thermometric
Access Control Terminal

Please read this Manual carefully before use.

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1-Preface

To ensure safety and prevent any damage, please read this manual carefully before installation and follow the instructions herein. Store this manual in a secure place for future reference.

2-Safety Precautions

- ① Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation;
- ② Please use correct power adaptor (ignorance may cause damage to the device);
- ③ The product is for indoor use. The device cover for indoor use shall be kept from water and moisture. If installing the device outdoors, waterproof measures should be taken to keep the raindrop from entering;
- ④ Do not move the device by pulling the power cord or any cable (ignorance may cause the pull off of interfaces);
- ⑤ Do not leave the lens pointed at the sun, lasers or other bright light sources. Intense light may cause the image sensor to deteriorate and damage.

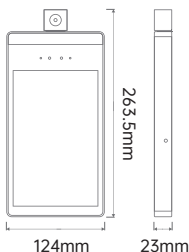
- ⑥ Please use correct power adaptor, DC12V (regulated), to operate this device. The power tolerance of this unit is DC 12V \pm 10% (DC10.8V~13.2V), over maximum DC12V power input may result in the damage of the device.

3-Packing List

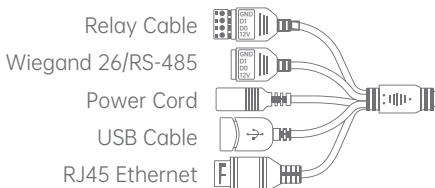
Item	Quantity	Unit
Access Control Terminal	1	set
Power adaptor	1	set
Wall mounting bracket (optional)	1	set
Turnstile mounting bracket (optional)	1	set

4-Appearance

4.1 Dimension



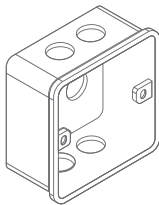
4.2 Wiring



5-Installation Precautions

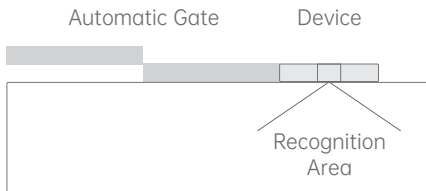
5.1 Before installation

- ① Make sure the device work under stable power supply and network.
- ② For wall mounting, prepare for a gang box (86 type switch box recommended);



5.2 Position for installation and recognition area:

- ① Device should be installed at the proper height (1.5m-1.7m recommended) for recognition. Optimal distance is 0.5m-2m for face recognition, 50cm for temperature measurement.
- ② For the use as access controller, the device should not be installed far from the access.

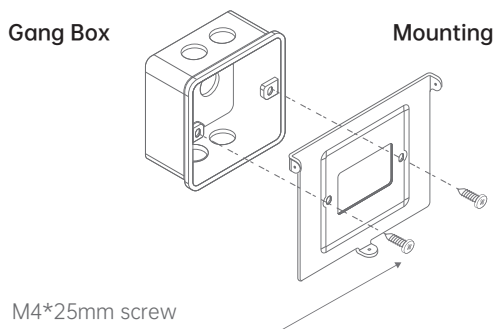


6-Installation Instructions

6.1 Wall mounting

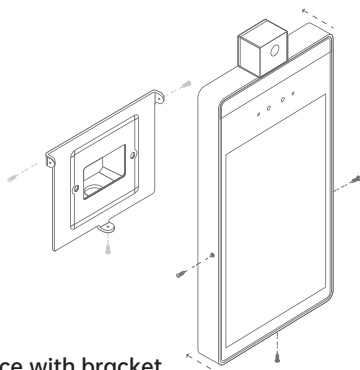
Steps:

- ① Install the gang box (Type 86 Switch Box) on the wall;
- ② Use two M4×25mm screws to secure the mounting bracket on the gang box;
- ③ Route the cables through the cable hole of the mounting bracket, and connect to the corresponding external cables;



Secure the mounting bracket on the gang box

- ④ Insert mounting bracket to the 3 slots on the back of the device and secure with 3 screws.

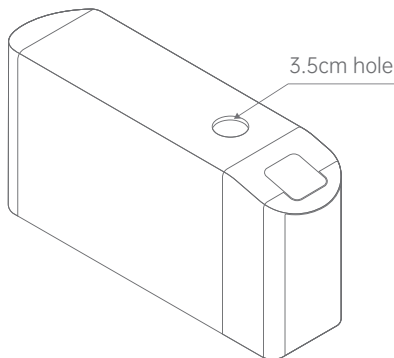


Align the device with bracket

6.2 Turnstile mounting

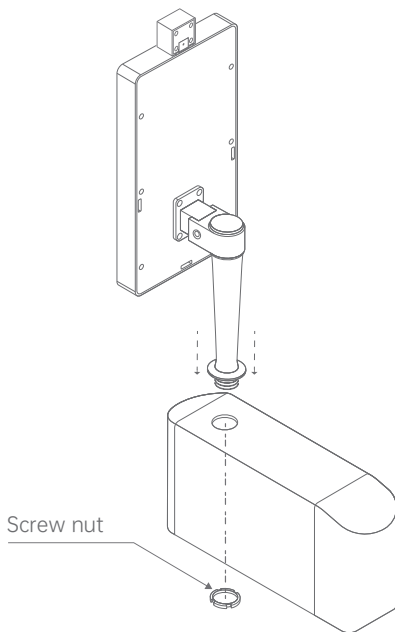
Steps:

- ① Drill holes of 3.5cm in diameter on the turnstile's surface;



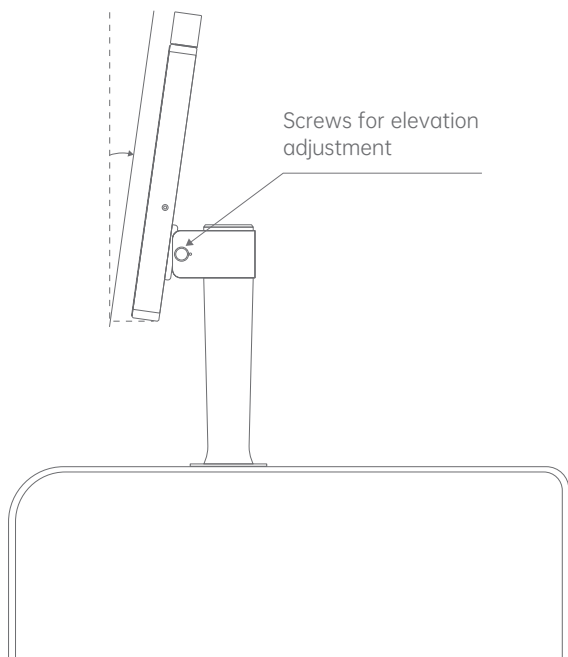
Turnstile

- ② Install the turnstile to the designate place and run the network cable and power cable inside the turnstile based on safety standards;
- ③ Use screw nut to install the device to the turnstile;



Install the device with bracket

- ④ Connect the network cable to the RJ45 Ethernet interface, connect the power to the DC power supply, connect the relay to relay interface, run all the cables into the turnstile;
- ⑤ Adjust the elevation of the bracket for the best angle of recognition.



Adjust the elevation angle

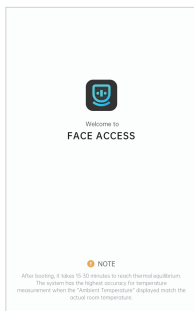
6.3 Connect relay for access control

Wire relay cable (the one with white ring) to relay, using the first and second ports for the connection.



6.4 Boot up

Please wait for **1-2 minutes** after powering on the device, and the system will run the recognition APP(FACE ACCESS) automatically. After the startup of the APP, the device is ready to use.



Splash Screen of TPFaceAccess

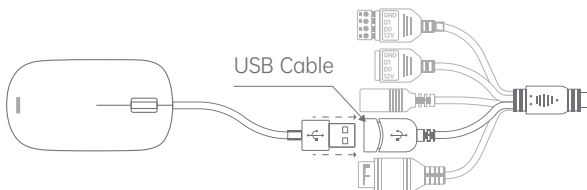
NOTE:

After booting, it takes **15-30 minutes** to reach thermal equilibrium. The system has the highest accuracy for temperature measurement when the "Ambient Temperature" displayed match the actual room temperature.

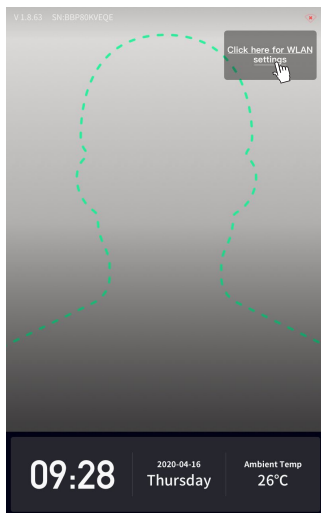
6.5 Connect to Wi-Fi

Steps:

- ① Connect the mouse via USB cable of the device.

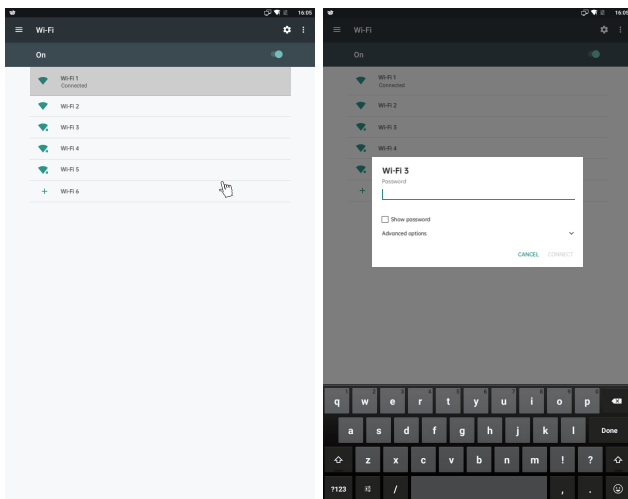


- ② Use the mouse to click the "Click here for WLAN settings" tag in the upper-right corner of the screen.



- ③ Enable the Wi-Fi function.
- ④ Configure the Wi-Fi parameters.

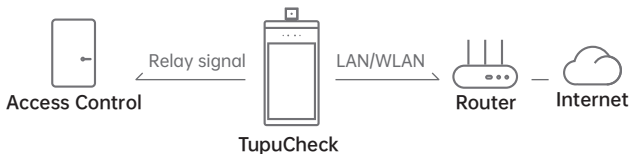
- Select a Wi-Fi from the list, and enter the Wi-Fi's password. Tap "Connect".
- If the target Wi-Fi is not in the list, tap "Add network". Enter the Wi-Fi's name and password. And tap "Connect".



- ⑤ Right click on the mouse on an empty space of the screen to return to the recognition application.

7-Basic Operation

7.1 Topology

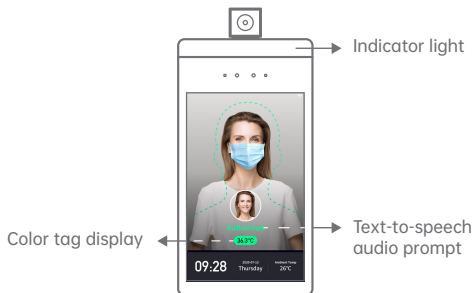


7.2 User Interface

① Interface display for recognition

	Text Display (Customizable)	Photo Display
Registered Staff	"Recognition success"	Registered Photo
Unregistered Person	No text	No photo

	Temperature Display	Text-to-speech (Customizable)
Registered Staff	Measured body temperature	"Recognition success" & body temperature readings
Unregistered Person	Measured body temperature	Body temperature readings

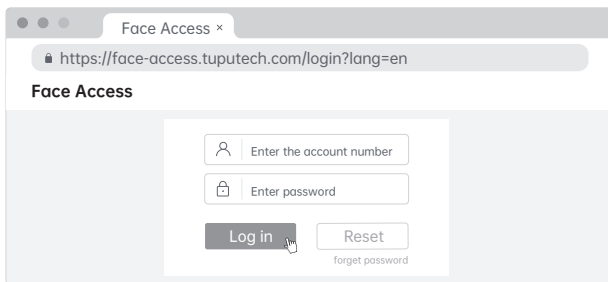


② Interface display for temperature reading (default)

	Color Display	Indicator Light	Text-to-speech prompt (Customizable)
Normal (36°C - 37.5°C)	Green	Green	"Normal temperature"
Abnormal body temperature ($\geq 37.5^{\circ}\text{C}$)	Red	Red	"Abnormal temperature"

7.3 Login by administrator

Face Access is an online platform for TupuCheck device management. Open your web browser on your computer. Log on <https://face-access.tuputech.com/login?lang=en> Use the allocated account and password (will be sent via e-mail) to login.



7.4 Device Management

7.4.1 Add Devices

Steps:

- ① Go to the "Organization" page, click on "Store

Management", select the default device language.

- ② Click "Add region/store here", input a name and set the type as "Store", then submit.

The screenshot shows the 'Face Access' web interface with the 'Organization' tab selected. The 'Store management' section is active, showing a search bar, a list of stores (currently empty), and a '+ Add region/store here' button. The 'Device default language' is set to 'English'.

- ③ Go to "Devices" page for device management. Select the store, and click on "Add device".

The screenshot shows the 'Face Access' web interface with the 'Devices' tab selected. The 'Digitech' store is selected from the left sidebar. The '+ Add Device' button is visible in the top right corner.

- ④ In Product Model, select the second option "Face Access with Tablet PC". Fill in the Name and Serial Number (please check the tag on the back of the device for SN), VPN and MAC will be filled automatically. Then click "OK" to submit.

NewDevice

General	Name	<input type="text"/>
	Product Model	FaceAccess with Tablet PC x v
	Serial Number	<input type="text"/>
	VPN	<input type="text"/> · <input type="text"/> · <input type="text"/> · <input type="text"/>
	MAC	<input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/>

⑤ Click "Setting" to set up more details.

Face Access (v1.8.55_20200411_checkin.bil)

Serial Number: - MAC: - • Offline

Product Model: Face Access VPN: 10.100.15.10

⑥ In the "Custom" page, set Recognition Success TTS as "#{name} {temp}"

EditDevice

General	Upload IR Image	<input checked="" type="radio"/> Yes <input type="radio"/> No	Screen-Touching Enabled	<input checked="" type="radio"/> Yes <input type="radio"/> No
	Show Avatar	<input checked="" type="radio"/> Yes <input type="radio"/> No	Default Launcher Enabled	<input checked="" type="radio"/> Yes <input type="radio"/> No
Advanced	Recognition Success Text	<input type="text" value="-"/>	Recognition Failed Text	<input type="text" value="-"/>
Custom	Security Code Success Text	<input type="text" value="-"/>	Security Code Failed Text	<input type="text" value="-"/>
	Recognition Success TTS	<input type="text" value="#{name} {temp}"/>	Recognition Success TTS	<input type="text" value="-"/>
Extra	Security Code Success TTS	<input type="text" value="-"/>	Security Code Failed TTS	<input type="text" value="-"/>
Event Trigger	Face Detecting Interval (ms)	<input type="text" value="1000"/> ⌵	Environment Temperature	<input type="text" value="-0.4"/> ⌵
			<input type="button" value="Cancel"/> <input type="button" value="Ok"/>	

⑦ To use device with access control or turnstile, click the "+" button to set up relay signal output.

Face Access (v1.8.55_20200411_checkin bil)

Serial Number: - MAC: - • Offline

Product Model: Face Access VPN: 10.100.15.10

Setting

- ⑧ Name it as "Relay" and select "Internal Relay" as Relay Type, then click OK. Click on the relay and navigate to the relay setting page, check for both outputs.

NewDevice

Relay Name

Relay Type

Cancel Ok

EditRelay

Relay Name

Relay Type

Output ☒ Output 1 ☐ Output 2

Cancel Ok

7.4.2 Device Status

If the device fails, you can check the current device status through the "device" page, to see whether the device is online.

Face Access

Manage Captures **Device** Passport User Group Personnel Alarm OPS Organization

Keyword

▼ Headquarters

Face Access

☐ Headquarters-TupuCheck Pro

Serial Number: BB7J7DZ3Q2 MAC: 96:2b:58:15:5a:05 • Online Setting

Product Model: TupuCheck Pro VPN: 10.100.15.10

Relay

7.5 Set Event Triggers

The trigger is the tool that customizing the behavior of

the device for different situations. Go to "Devices" page, select the device, click "Setting", then select "Event Trigger". Tag "Create Trigger" and set the conditions and events under different scenarios.

The top screenshot shows the 'EditDevice' window with the 'Event Trigger' tab selected. The main area contains the text: 'The trigger is the tool that customizing the behavior of the device for different situations.' and a 'Create Trigger' button. The bottom sidebar has 'Event Trigger' highlighted.

The bottom screenshot shows the 'EditDevice' window with the 'Default Trigger' tab selected. The left sidebar has 'Event Trigger' highlighted. The main area shows a configuration for the 'Default Trigger' with the following elements:

- Buttons: 'All Conditions Matched', 'Any Condition Matched', '+ Add Condition'.
- Dropdown: 'Select a field'.
- Text: 'If the conditions here are matched, the events below will be triggered. If not, it will enter the next trigger for example, "Trigger 86f0c65c" in this figure.'
- Event List:

Event	Configuration	Action
Broadcasting	Voice text: Default	Trash icon
Open the door	Permission: <input checked="" type="radio"/> All <input type="radio"/> Part	Trash icon
Light	Color: Red	Trash icon
Upload Vistorr	Upload Mode: All (Image & Record)	Trash icon
- Buttons: '+ Add Event', 'Cancel', 'Ok'.

Example 1:

Condition:

-Temperature < 37.5°C and Successfully Recognized

Events:

- Broadcasting: recognized face & measured temperature (Customize the voice text as "{name} {temp}")
- Open the door
- Turn on the green light

EditDevice

General

Advanced

Custom

Extra

Event Trigger

Default Trigger

All Conditions Matched
Any Condition Matched
+ Add Condition

Temperature

37.5

Less Than

Low

High

Yes

No

✕

Successfully Recognized

Equal

Low

High

✕

Default Trigger

Add Event ▾

Broadcasting

Voice text:

Cust...

#{name} #{temp}

✕

Open the door

✕

Light

Color:

Green

✕

Cancel

Ok

Example 2:

Condition:

-Temperature $\geq 37.5^{\circ}\text{C}$ or Not Successfully Recognized

Events:

-Broadcasting: recognized face & measured temperature (Customize the voice text as "#{name} #{temp}")

-Turn on the red light

EditDevice

General

Advanced

Custom

Extra

Event Trigger

Default Trigger

All Conditions Matched
Any Condition Matched
+ Add Condition

Temperature

37.5

Greater Than Or Equal

Low

High

No

✕

Successfully Recognized

Equal

Low

High

✕

— All Events

Add Event ▾

Broadcasting

Voice text:

Cust...

#{name} #{temp}

✕

Open the door

✕

Light

Color:

Red

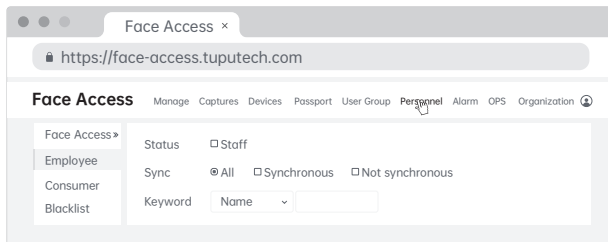
✕

Cancel

Ok

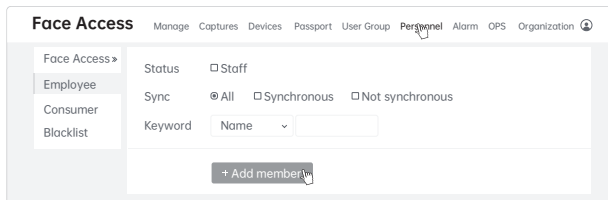
7.6 Personnel Management

Go to "Personnel" page for personnel management.



7.6.1 Add New Members

Step1: Click on the "Add member" button, the "Add member" page will pop up.



Step2: In the "Add member" pop-up page, fill in the fields of "Name", "Status (Person Type)", "Affiliated Node", "Comment", and upload a photo, then click the button "Submit and save".

Face Access Manage Captures Devices Passport User Group **Personnel** Alarm OPS Organization

Headquarters
Face Access

Add member


Name *Name length must be less than 50 characters

Status
☒ Staff ☐ CEO ☐ Visit client

Affiliated node
 + Add organization nodes

Comment
*Remarks should be 100 characters at most

Add member's portraits
 Adding member's portraits with different angles can help system recognize member more quickly.



 Drag your pictures here or Click to upload
 Support PNG,JPG file format;
 Maximum size of a picture is 1.5M;
 Maximum number of pictures uploaded is 50

Submit and save

Remark: It's highly suggested to submit clear full-face photo. If photo of same person submitted multiple times, there will be message as "Add member fail"

Specification for photo to be uploaded:



- Use life photo
- Unobstructed full-face photo
- Photo not taken by beauty camera
- Not blurry
- Photo for single person
- Not rephotographing of previous picture
- Size smaller than 1.5M

Sample Photo:






7.6.2 Delete Members

In the "Personnel" page, click on the "Delete" button for specific person.

Avatars	Name	Attributes	Status	Register time	Comment	Affiliated node	Userld	Action
	Camilla	Female	staff	2020/03/28 11:02:08	-	Headquarters-Face Access	-	Edit Delete
	Simone	Female	staff	2020/03/28 10:00:01	-	Headquarters-Face Access	-	Edit Delete

7.6.3 Edit Members

In the "Personnel" page, click on the "Edit" button for specific person, and modify the fields of Name, Status(Person Type), Affiliated Node, Comment. If there is a need to change the photo, you can delete the previous photo and upload a new photo. After all, click on the "Submit and save changes" button.

Avatars	Name	Edit member						Action
	Camilla	Name Camilla	<div>Drag your pictures here or Click to upload Support PNG,JPG file format; Maximum size of a picture is 1.5M; Maximum number of pictures uploaded is 50</div>					Edit Delete
	Simone	Status <input checked="" type="radio"/> Staff <input type="radio"/> CEO <input type="radio"/> Visit client	Uploaded successfully 1 pictures					Edit Delete
		Affiliated node Face Access						
		Userld *Account name only allows alphanumeric and syrr						
		Submit and save changes						

7.7 Capture Record & Report Export

Customer admin and security can view the capture record page. Capture search function supports searching by name and picture ID.

Step1: select captures, select the required region, you can view the records of people in the selected range.

The screenshot shows the 'Face Access' management interface. The 'Captures' tab is selected in the top navigation bar. On the left sidebar, 'Face Access' is expanded, and 'Captures' is highlighted. The main content area displays search filters: 'Region' is set to 'Company main entrance', and the date range is '2020-03-27 00:00:00 ~ 2020-03-28 23: 59: 59'. Under 'Filtering', 'Add criteria' is checked. The 'Keyword' field has a dropdown menu set to 'Name' and an empty input box. Below the filters are 'KO' and 'Output' buttons. A 'Detail' button is also present. At the bottom, a table lists capture records.

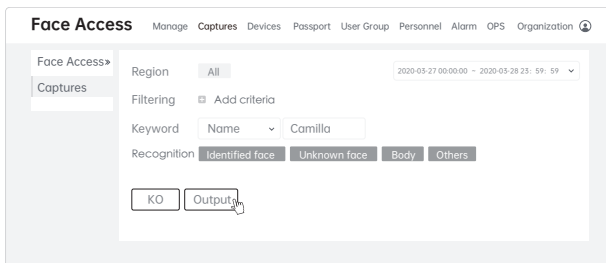
Capture time	Capture	Status	Attributes	Camera	Affiliated node	Action
2020-03-28 14:48:21		Staff	Camilla	-	Company main entrance	Edit Delete

Step2: Select the name or person ID to search, you can view the person's records in the range.

This screenshot shows the same interface as the previous one, but with the 'Name' dropdown menu open and 'Camilla' selected in the input field. The table below still shows the same record for 'Staff Camilla'.

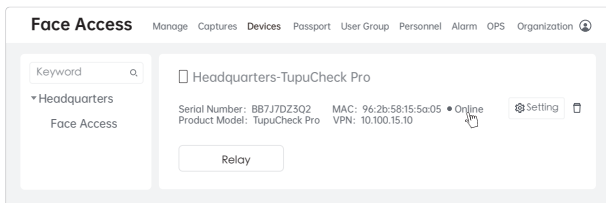
Capture time	Capture	Status	Attributes	Camera	Affiliated node	Action
2020-03-28 14:48:21		Staff	Camilla	-	Company main entrance	Edit Delete

To export the records, you need to select the region and time (exclude current day), and click on "Output" button, then the records will be exported as excel file.



7.8 Common Faults & Solutions

Go the "Devices" page for troubleshooting.



① No captures records

Check the device status. If "Offline" is displayed, you need to check whether the current network environment is normal and determine the connection between the network environment and the Internet; if "Online" is displayed, you need to restart the device.

② APP: not responding and cannot be recognized

After powering off the device, re-apply power to restart the device. The device restarts normally under the condition of power supply and network and automatically starts the APP.

③ The meaning of the error message:

Error Message	Meaning
No internet. Please check your connection	Check the network cable/Wi-Fi network connection
Product is not registered	The web page background is not configured and needs to be configured
MAC address obtained	The factory settings of the equipment are not configured well, and need to be sent back to the manufacturer for repair / engineer's on-site debugging