

User guide

Body Worn Camera KT-Z1

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The product is upgraded according to the customized version. Product upgrades may cause some of the product features do not match the manual, please refer to the actual product, or contact our customer service staff.

If you do not follow the instructions in the manual, any losses caused by this will be borne by the user.

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Attention:

- 1、 The installation and maintenance of this product is carried out by professionals, please do not disassemble and repair and other operations by yourself.
- 2、 The product should be avoided in a strong electromagnetic radiation environment to avoid interference with the image signal.
- 3、 Avoid using in the place of strong light source and unstable light source, so as not to affect the service life of light-sensitive devices.
- 4、 In order to ensure the safe use of the equipment, please be sure to use the standard power adapter and keep away from fire sources.

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I. Body Worn Recorder

1. Product Overview

5G HD Body worn recorder is a highly integrated device developed for public security, urban management, border defense, courts, industry and commerce and other law enforcement departments. The device supports photography, video recording, audio recording, local storage, infrared night vision, GPS positioning, 3G/4G and 5G (5G products support) cellular network wireless transmission, it also can upload video and location information directly to the background through the cellular network or WIFI environment, the user can watch the front-end back to the video through the web page.

The product is small in size, light in weight, easy to carry, one-handed one-button operation, and is a powerful assistant for on-site law enforcement.

1.1 Product structure schematic





1.2 SIM card installation method

In the off state, open the SIM logo plug at the bottom of the device and install the "Nano-SIM" card according to the instructions on the side of the card slot. When installing, press the SIM card with the chip side facing the screen and press the notch outward until there is a "click" sound, then the installation is successful. When uninstalling the card, press the SIM card downward, and the SIM card will be automatically ejected.




1.3 Product specification







Image sensor	High-pixel color CMOS image sensor
Wide-angle lens	FOV: 120 degrees wide angle, horizontal angle 105 distortion 16%
Video resolution	4K (5G product support) / 2K / 1080P / 720P
Video video format	File format MP4 video code: H264 / H265 Audio code: AAC
Recording audio format	WAV

Nightlight compensation	LED white light compensation, infrared night vision, 3 meters to see the face facial features
Infrared night vision	Automatic infrared / manual IR
Battery	Built-in battery is replaceable, 3300 mAh
Continuous working times	9h
Full charging time	≤ 3h
WIFI network	Support WIFI 6 (5G product support), WIFI 5.8 and WIFI 2.4
Cellular network	China Telecom, China Mobile, China Unicom operators 3G / 4G / 5G (5G product support)
GPS	GPS/Galileo/GLONASS/Beidou3
Storage class	Built-in microSD (TF) card, with up to 256G support
Operating temperature / humidity	-30°C to 55°C / humidity is less than 90%
Volume / weight	88mm*55mm*30mm/174g
Protection grade	IP68

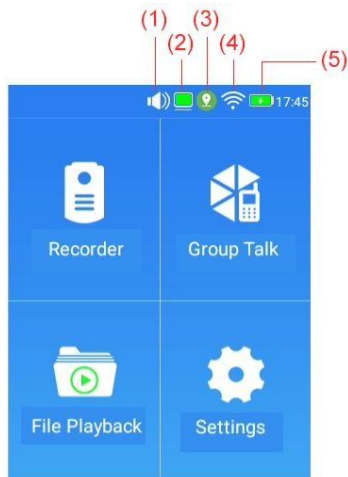
2. Product features

2.1 Key and interface description

Key Name	Icons	Method	Description
Power		Short press Long press	Power off <u>state: long press</u> , power on Power on <u>state: long press</u> , power off <u>prompt box</u> ; <u>Screen</u> off <u>state: press</u> , <u>screen</u> on _ <u>Screen</u> on <u>state: press</u> , <u>screen</u> off
Menu		<u>Short press</u>	<u>Short press: return to the parent page</u> <u>Long press: switch the white light on</u>
Record		<u>Short press</u> <u>Long press</u>	<u>Short press: audio recording(non-audio recording, non-video recording state)</u> <u>short press: stop the recording recording(When recording state)</u> <u>Long press: switch infrared</u>



PTT		<u>Long press</u>	<u>Group intercom</u>
Video		<u>Short press</u> <u>Long press</u>	<u>Short press: video recording(Non-video status:)</u> <u>Short press: stop video recording (video recording state)</u> <u>Long press: Pre-video</u>
Photo		<u>Short press</u> <u>Long press</u>	<u>Short press: take a picture</u> <u>Long press: switch the resolution</u>
SOS		<u>Short press</u> <u>Long press</u>	<u>Long press: platform alarm (platform setting is required)</u> <u>Short press: video recording status , mark / cancel the key mark</u>
TYPE-C interface		<u>Connect the plug</u>	<u>Data transmission interface, charging interface</u>
SIM interface		<u>Load/take out</u>	<u>Insert the SIM card</u>














2.2 Interface icon description



Standard Description:

- (1) Whether the state of silence
- (2) Platform connection status
- (3) GPS signal status
- (4) WIFI signal status
- (5) Current circuit status

Marking	Display Description
	The current battery level is in the following order. <5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%
	Charging status, the current battery level is in the following order. <5%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100%

	The current 3G or 4G cellular signal is displayed in the following order (weak to strong). 0 cell (no signal), 1 cell, 2 cells, 3 cells, 4 cells (full signal)
	The current 5G cellular signal is displayed in the following order (weak to strong). 0 cell (no signal), 1 cell, 2 cells, 3 cells, 4 cells signal (full signal)
	The current WIFI signal is displayed in the following order (weak to strong). 0 frame (no signal), 1 frame, 2 frames, 3 frames, 4 frames signal (full signal)
	Mute
	Sound on
	Disconnect to the platform
	Connected to the platform
	Video recording in progress (video files will be stored)
	Video pre-recording in progress (video files are failed to stored)
	Video recording(in a delayed end state)
	Recording in progress
	GPS not positioned
	GPS has been positioned

2.3 Introduction of basic functions

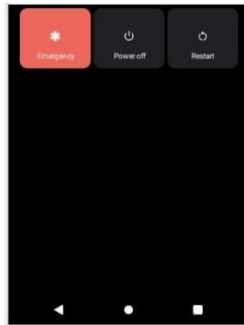
2.3.1 Power on, power off

- **Power on:** Long press the "Power on/off button", the video preview interface will appear on the screen.

Description of labeling:

- (1) Jump to the home page interface button
- (2) Jump to settings interface button
- (3) Flip camera button
- (4) GPS coordinates and device SN number
- (5) Date and time and storage remaining space/total space size
- (6) Current video resolution


- **Restart and Shutdown:** Long press the "On/Off button", "Shutdown" and "Reboot" options will appear, operate according to your needs.



2.3.2 Recording


(1) . Recording




① Turn on the video: In the power on state, tap the "video button" to record, the video status logo appears. 




Video recording status


② Stop recording: Press "Video key" to stop recording, the video status identity will disappear, or the delay end state will appear. 

③ Video prerecording: long press the video button for video prerecording. The icon  appears, press and hold again to stop video prerecording.





Video prerecording status

Key file marker: In the video state(video status marker  appears), press the "SOS" button to prompt "Highlighted" to highlight the currently recorded file. If it is marked, tap the "SOS" button to prompt "Cancel Highlight" to cancel the highlighting of the currently recorded file.

After the recording is finished, the video with "marked key files" will appear in the upper right corner of the video preview list with .

(2) . Video Recording

- Start recording: Tap "Recording Key" to record, and the a logo will be displayed. 
- Stop Recording: If you are recording, tap "Recording Key" to stop recording, and the recording logo disappears. 

(3) . Take a picture



Voice recording status

Tap the "Photo button" to take a picture.



Video, audio and photo playback

2.3.3. Intercom and messages

Contact icon description:



Worn camera devices



Group

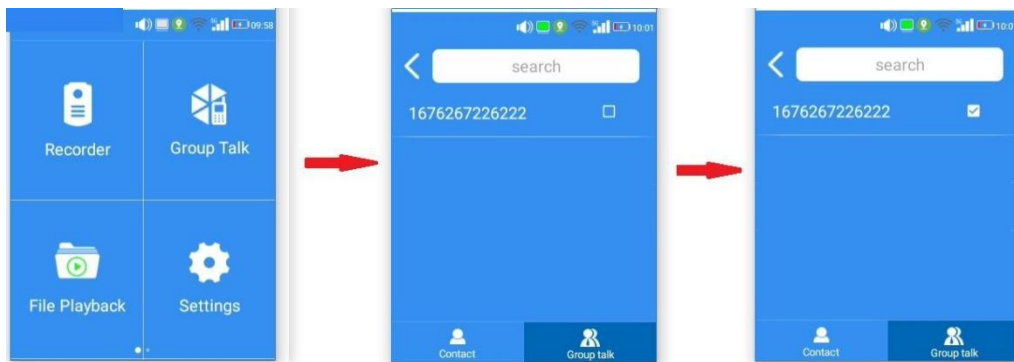


Platform

① PTT intercom

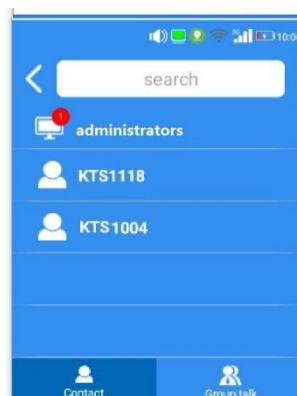
Press and hold the "PTT" key to apply for the right to talk in the group, and if the application for the right to talk is successful, you can send the current real-time voice.

View and Settings. In the main menu, select "Group Intercom" to enter the intercom interface, click the "Group" button at the bottom right of the interface, you can view and set PTT group intercom.



② Message

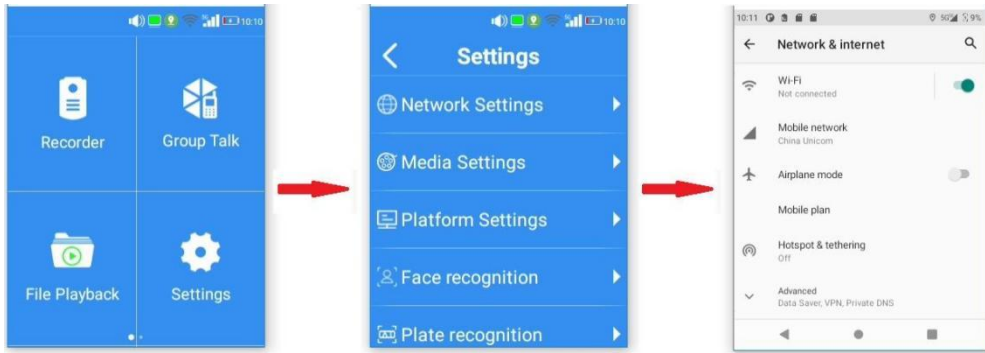
A new message will be digitally marked in red .



2.3.4 Settings

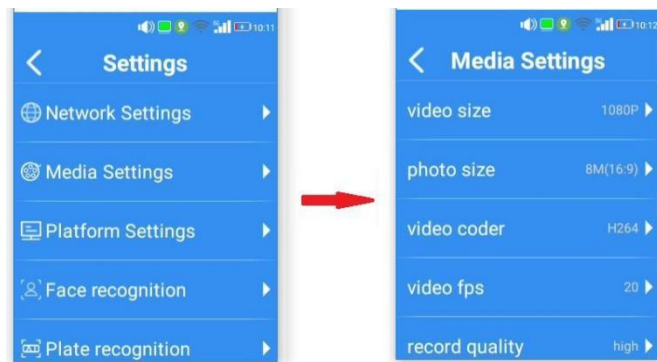
(1) Network Settings

Support WIFI setting and mobile network (cellular network) setting



Video and audio settings

You can view and set: video resolution, photo resolution, video bit rate, video frame rate, video quality, push stream quality, video segmentation, video prerecording, video delay recording, loop recording, photo mode, night vision mode, GPS recording, drop collision recording,



The following parameters can be set in the **audio settings** according to your needs.

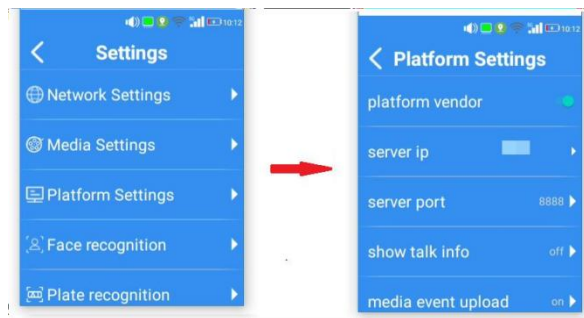
- "Video resolution", the options are 4K, 1080P, 720P.
- Photo resolution", the options are 64M, 54M, 42M, 38M, 34M, 25M, 17M, 13M, 8M, 4M.
- Video encoding", the options are H264, H265.
- Video frame rate", the options are 20, 30.
- Video quality", the options are low, medium and high;
- For "Audio encoding", the options are aac.
- video segmentation", the options are 5, 10, 15 minutes;
- video prerecording", the selection items are 10s, 15s, 20s, 30s, 60s, 300s, and 600s;
- Loop video", select the item about Off and On.
- Photo mode", the options are single shot, two consecutive shots, three consecutive shots, five

consecutive shots;

- Night vision mode", the options are manual, automatic;
- GPS recording", the options are Off and On;
- Drop collision recording", the selection item is related to Off and On.

(2) . Platform settings

IP address and port number of the corresponding server can be set, the server IP is 192.168.31.49, and the server port is 8888.



(3) . Native settings and about

You can view and set: Bluetooth, volume setting, time setting, screen hibernation setting, screen brightness, beep, whole time chime, vibration alert, security mode.



2.3.5 About

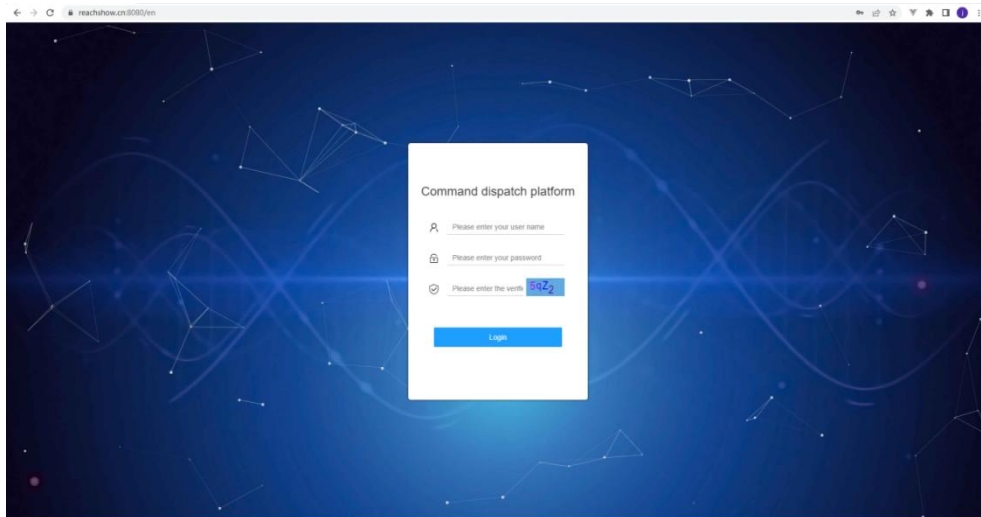
You can view: Device ID, user ID, user name, application version, system version, check for updates, and so on.



II. Command Dispatch Platform

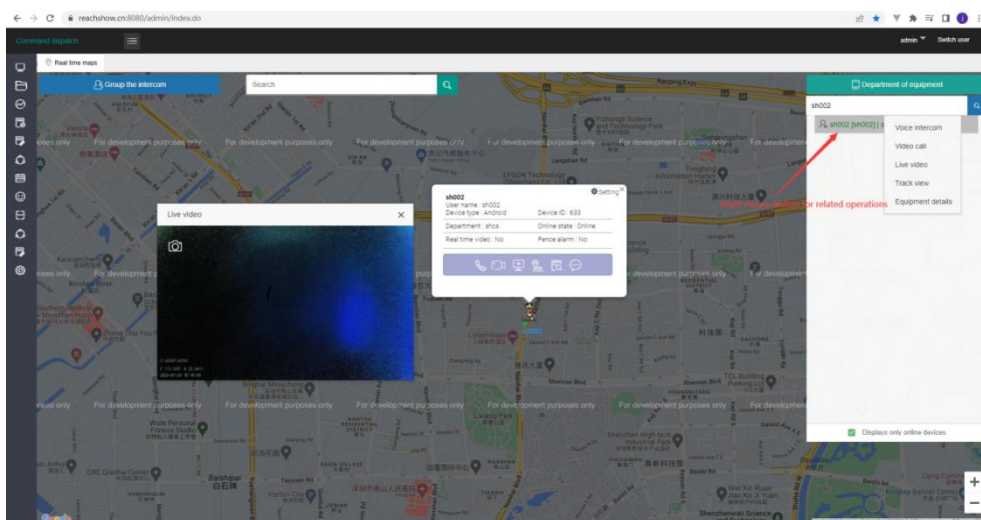
1. Platform operation module

1.1 Login



To log in, please enter use user name, password and verification code which need to check with supplier. A user can only log in at one place, and previous logins will also be invalid.

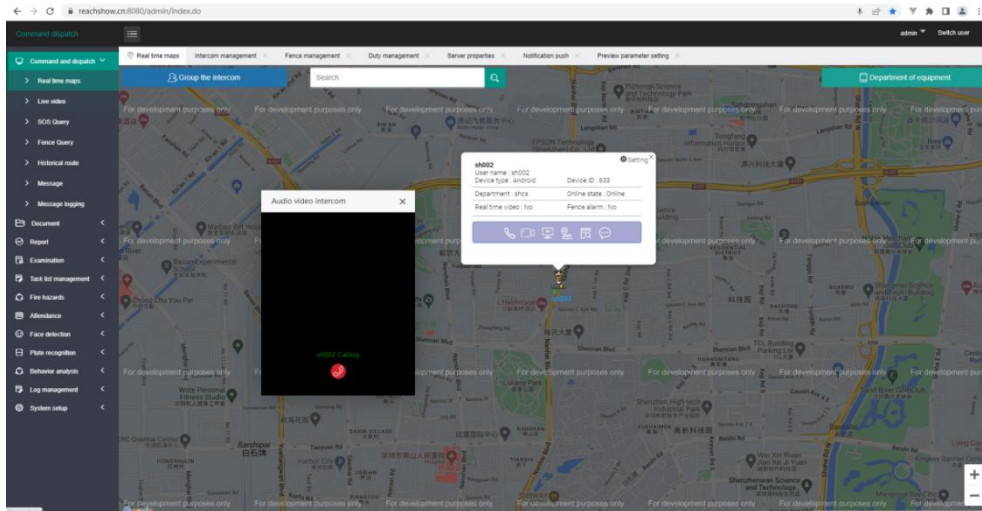
1.2 Map



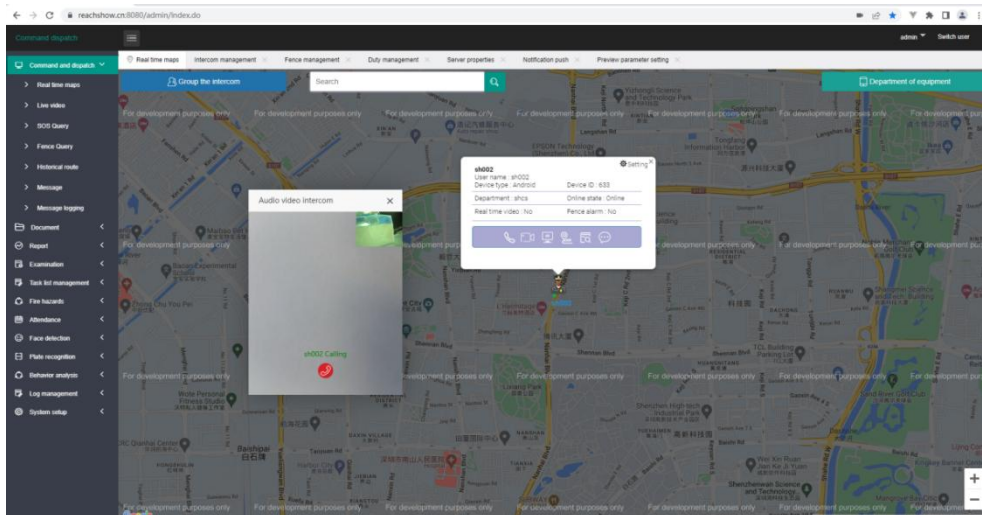
- (1) The location information of online devices will be displayed on the map.
- (2) Click on the device icon on the map to schedule the device, From left to right,

there are Voice intercom, video calls, real-time videos, Track view, Equipment details, and message sending.

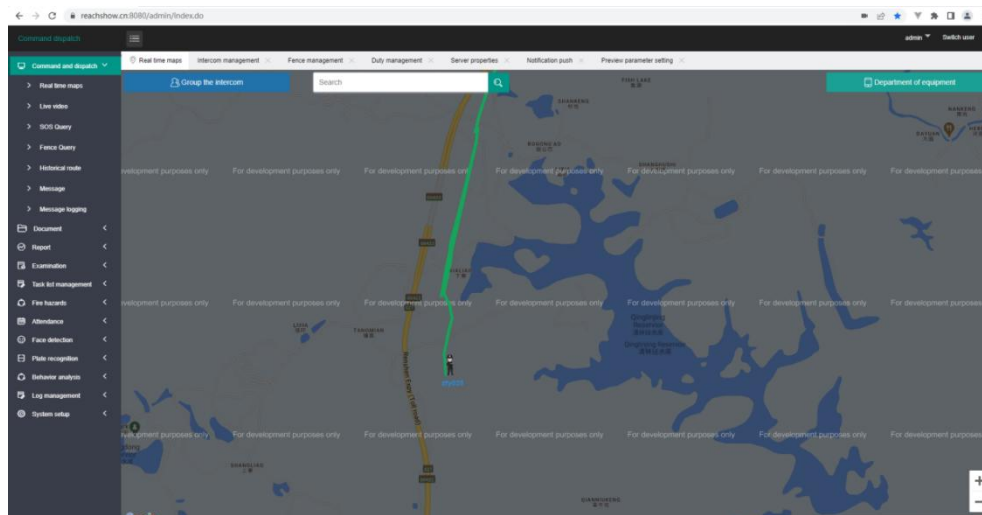
(3) Voice intercom can voice call the selected device.



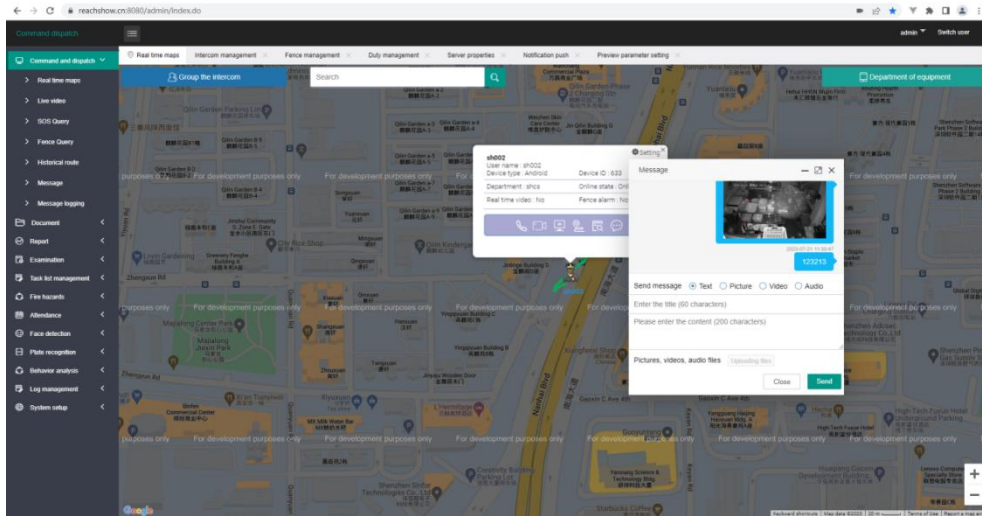
(4) Video calls can video calling devices.



(5) Track view, View device motion trajectory.

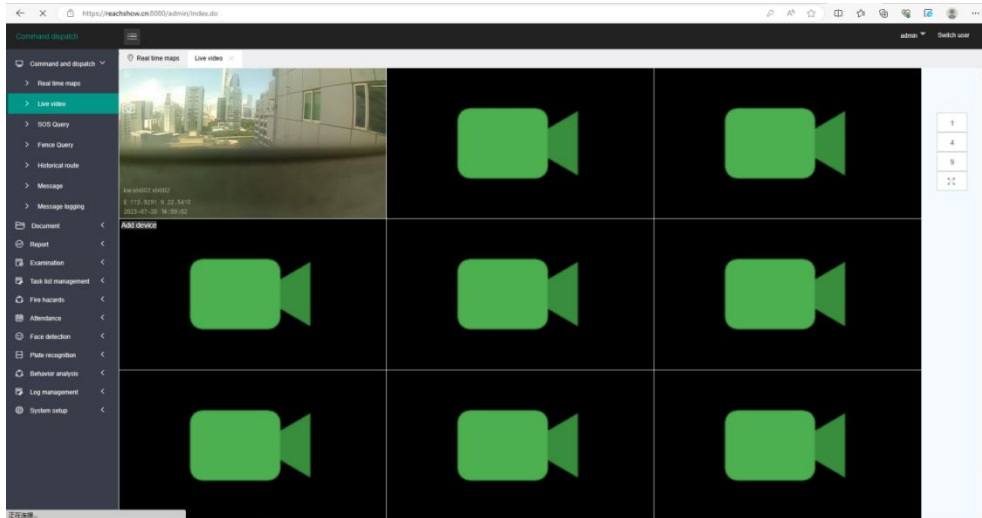


(6) Message sending, Sending text, videos, and images to devices

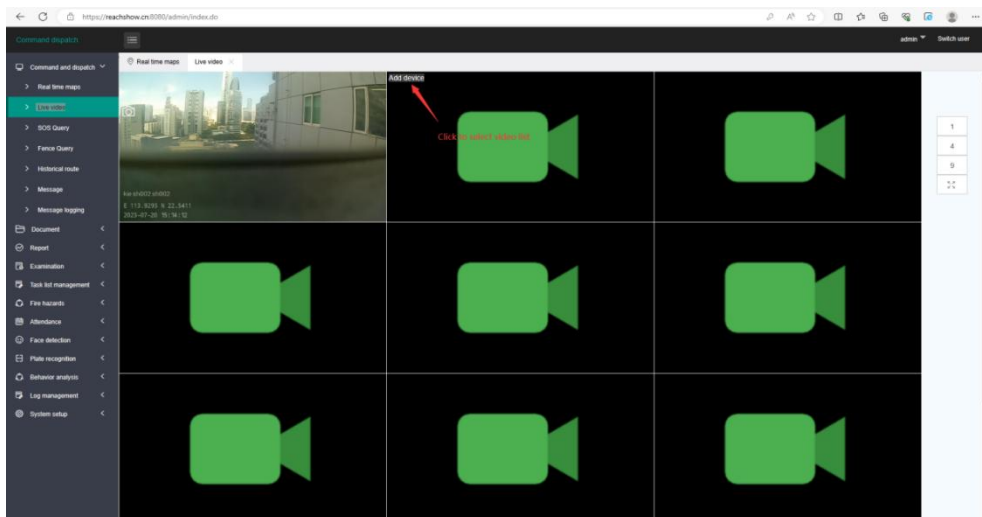


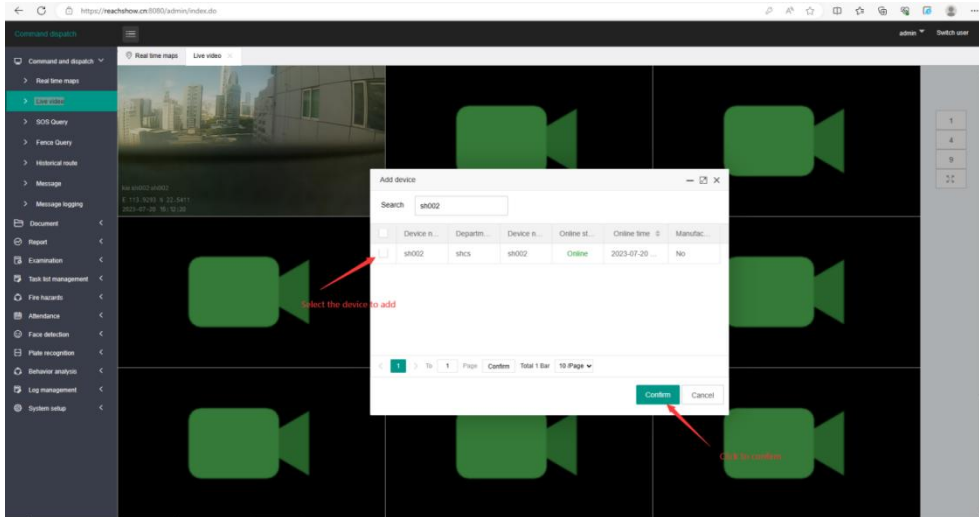
1.3 Live Video(Video Wall)

Can simultaneously display 9-way videos.



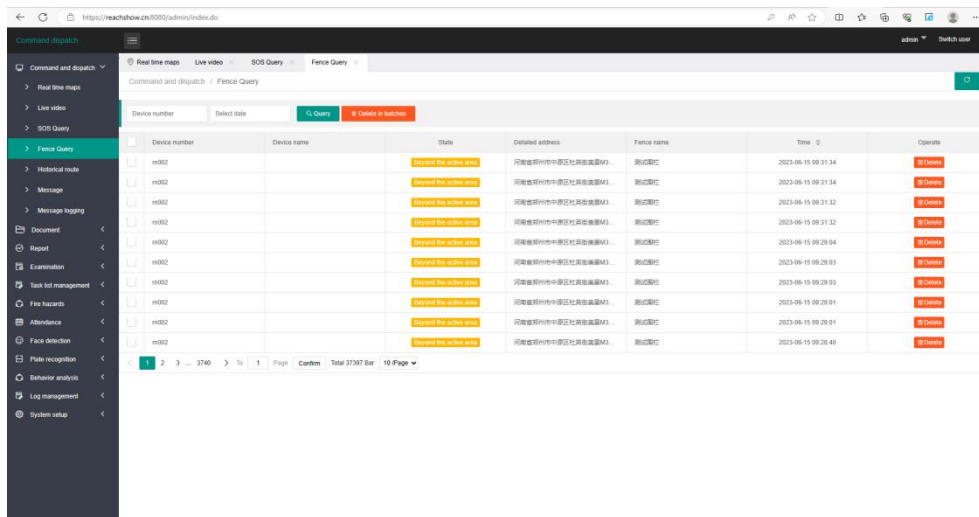
Add video to video wall.





1.4 Fence Query(Fence alarm record)

Equipment crossing or entering the fence alarm record.



2.1 File Query

File information uploaded by the device

Device number	Police number	Select departments	Please choose file type	Please choose Video Quality	Please choose System label
User name	Start time (Shooting time)	End time (Shooting time)	Please choose hidden display	Task order number	Query
47.113.84.225	2023-07-20 14:51:14	2023-07-20 14:51:14	Ordinary	47.113.84.225	2023-07-20 14:51:14
47.113.84.225	2023-07-20 07:54:52	2023-07-20 07:54:52	Ordinary	47.113.84.225	2023-07-20 07:54:52
47.113.84.225	2023-07-20 07:54:48	2023-07-20 07:54:47	Ordinary	47.113.84.225	2023-07-20 07:54:48
47.113.84.225	2023-07-20 07:52:17	2023-07-20 07:52:17	Ordinary	47.113.84.225	2023-07-20 07:52:17
47.113.84.225	2023-07-20 07:52:15	2023-07-20 07:52:14	Ordinary	47.113.84.225	2023-07-20 07:52:15
47.113.84.225	2023-07-20 07:48:43	2023-07-20 07:48:42	Ordinary	47.113.84.225	2023-07-20 07:48:43
47.113.84.225	2023-07-20 07:48:38	2023-07-20 07:48:37	Ordinary	47.113.84.225	2023-07-20 07:48:38
47.113.84.225	2023-07-20 07:48:32	2023-07-20 07:48:31	Ordinary	47.113.84.225	2023-07-20 07:48:32

File upload (Click on the upload button)

Uploading files

*File number:

*Quality:

*Label:

*Level:

*Device:

Alias:

Remark:

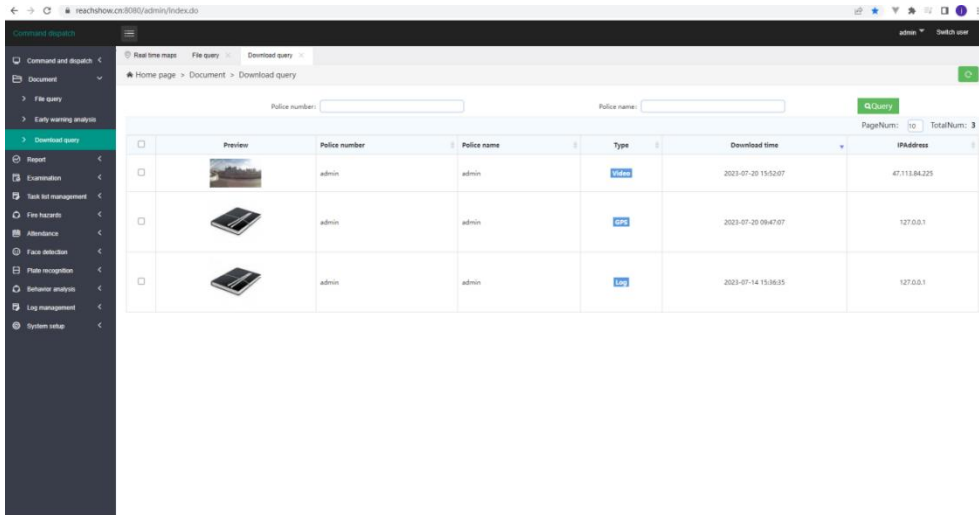
Please select the file to upload. The support format is:
 Photo: *.gif, *.jpg, *.png, *.bmp, *.tga, *.jpeg, *.png;
 GPR: *.gpr;
 Video: *.MP4;
 Audio: *.MP3;

*Upload: no file chosen

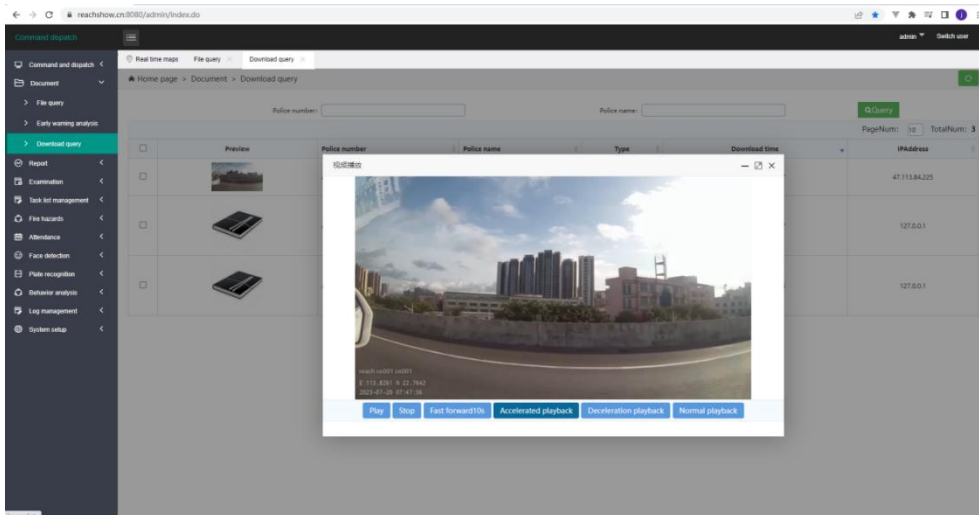
Select the file you want to upload, set the file information, and click Upload to complete the process

2.2 Download Query

Record of files downloaded by users

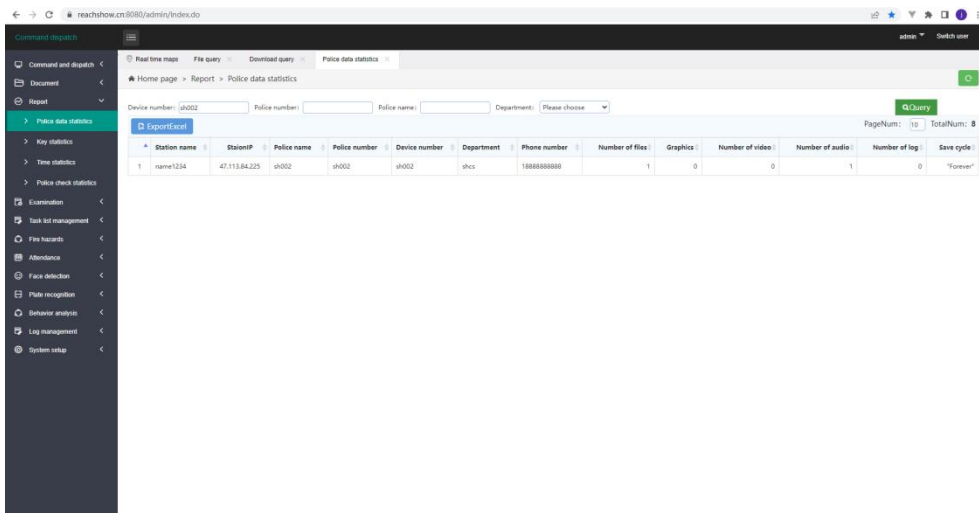


Click on the preview image to view the file



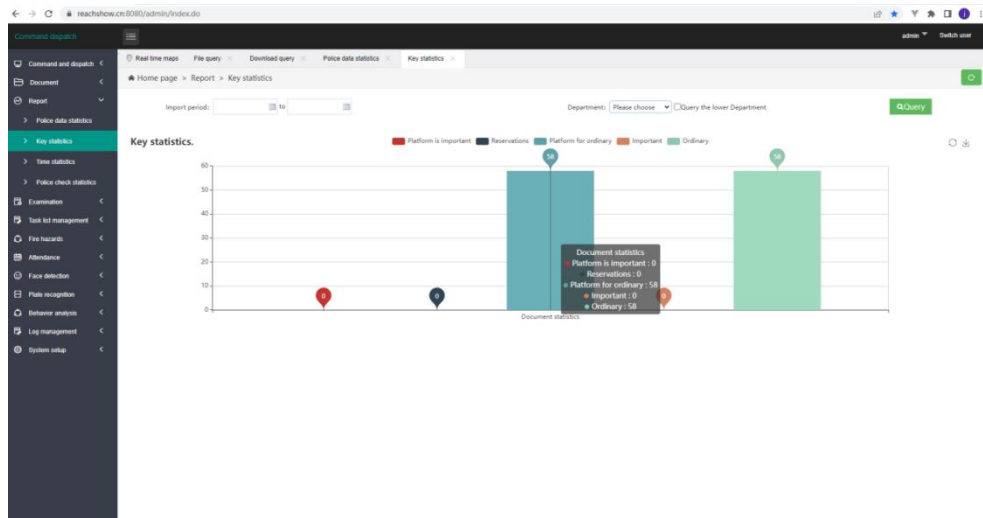
3.1 Police Data Statistics

Statistics of files uploaded by devices, Including the number of audio, videos, images, logs uploaded by the device, as well as the total number of all files



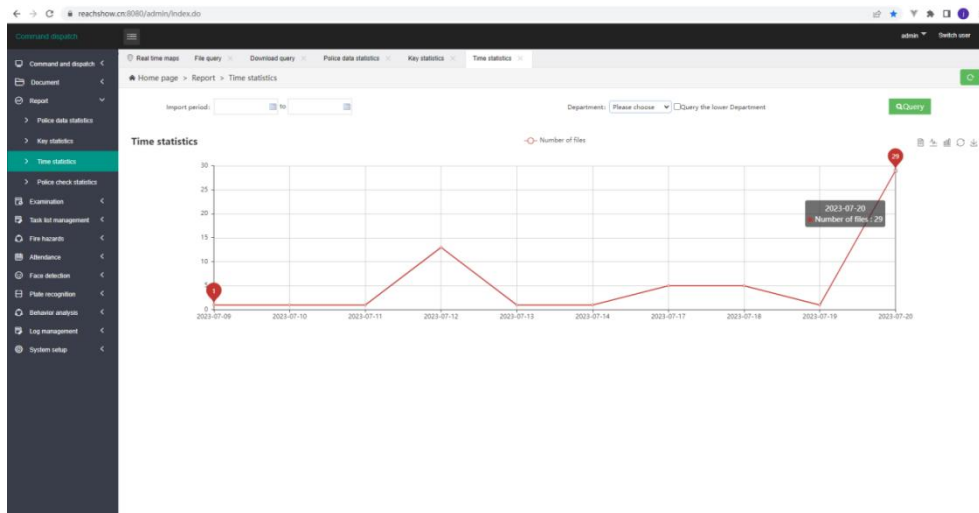
3.2 Key Statistics

Display the number of uploaded files of different levels in the form of a chart



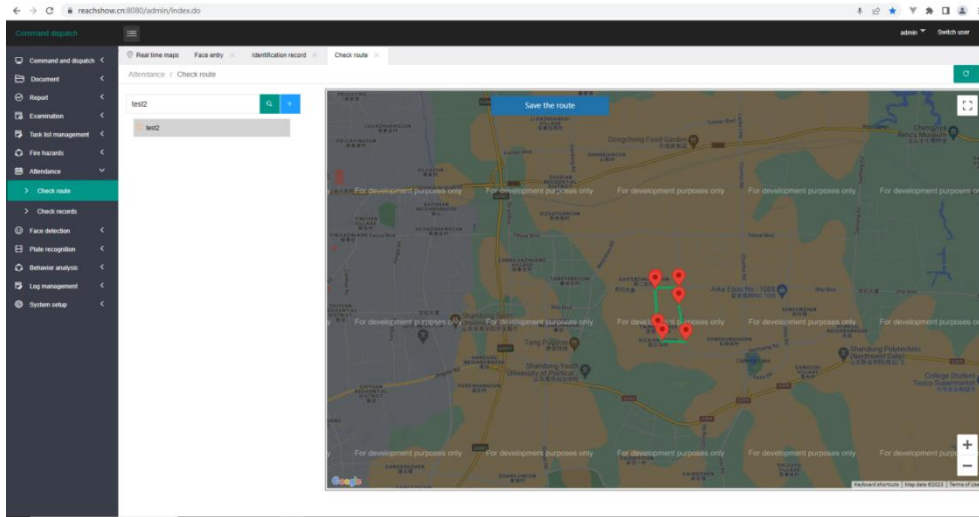
3.3 Time Statistics

Display the number of files uploaded during different time periods in the form of a chart

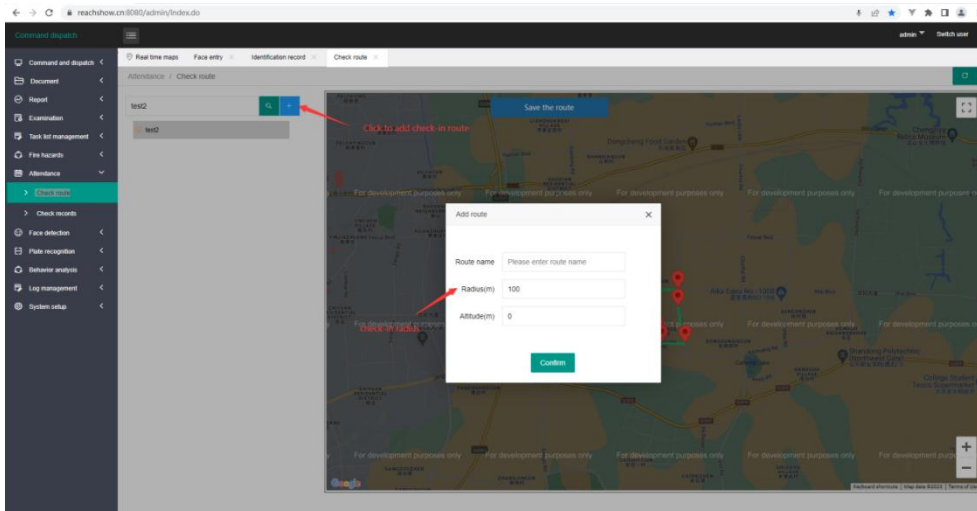


4.1 Check Route

Add a check-in point on the map, bind the device to the corresponding check-in route, you can check-in within the range of the check-in point, and a check-in record will be generated

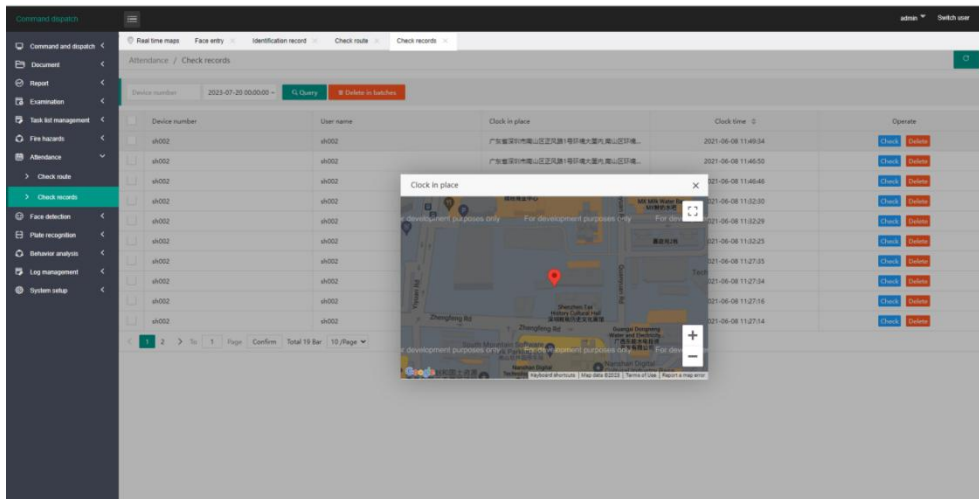


Adding a check-in route can specify the check-in radius and height. After adding the check-in route, select the added route, and then mark the location to be checked in on the map. After the marking is completed, click the save the route button



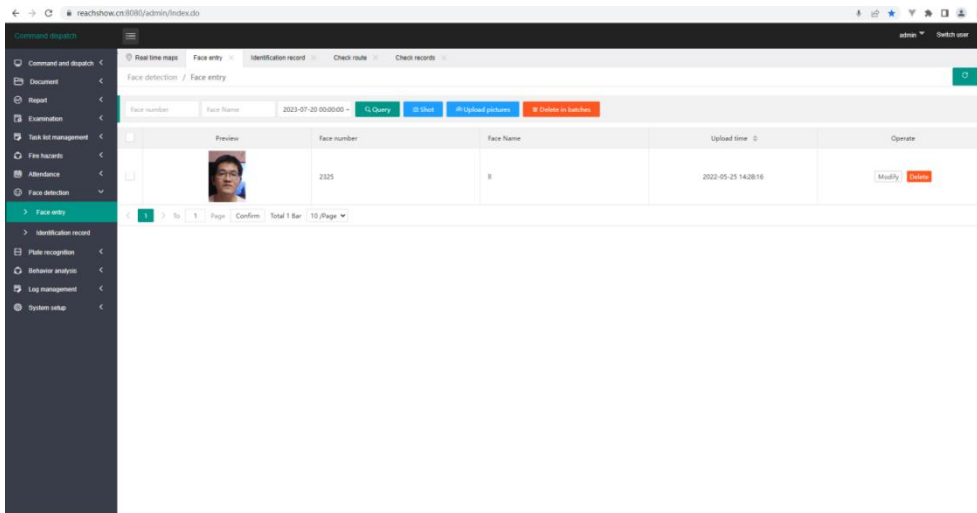
4.2 Check Records

View check-in records



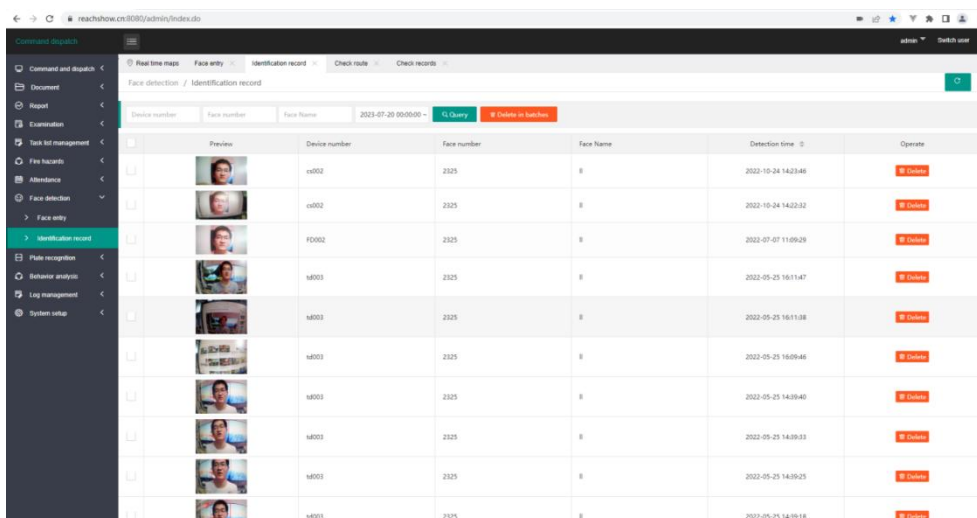
5.1 Face Entry

Add face feature information, the device can compare the captured face with the added face database, and add face recognition records



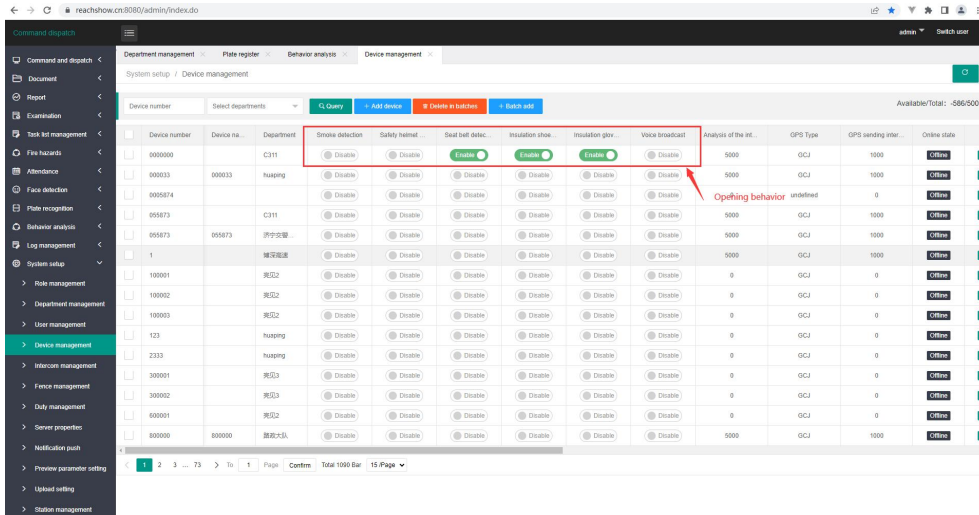
- 1.You can add face information by taking pictures of faces and uploading face pictures
- 2.When adding a face, you need to fill in the face name, face number (the face number cannot be repeated) and upload the face picture

5.2 Identification Record

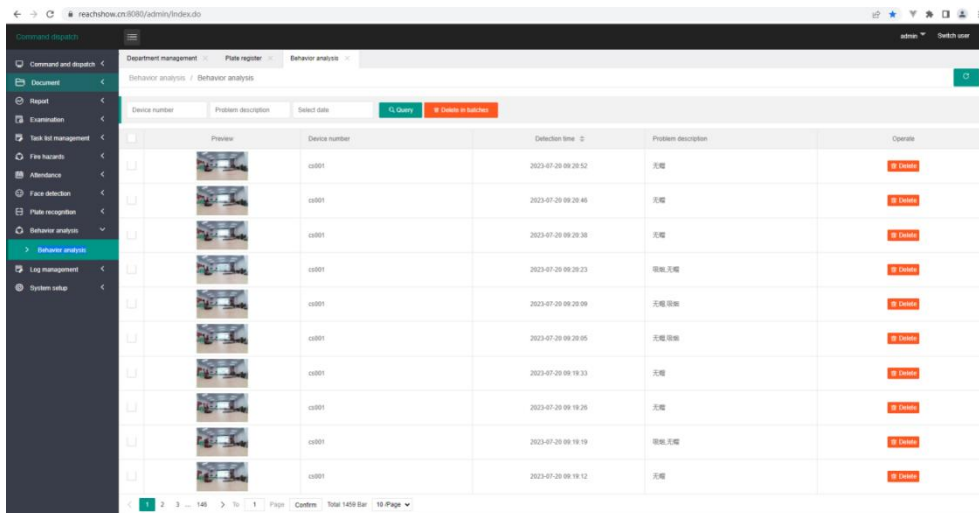


5.3 Behavior Analysis

You can enable behavior analysis in device management. After activation, the device will analyze the captured people and events and save screenshots



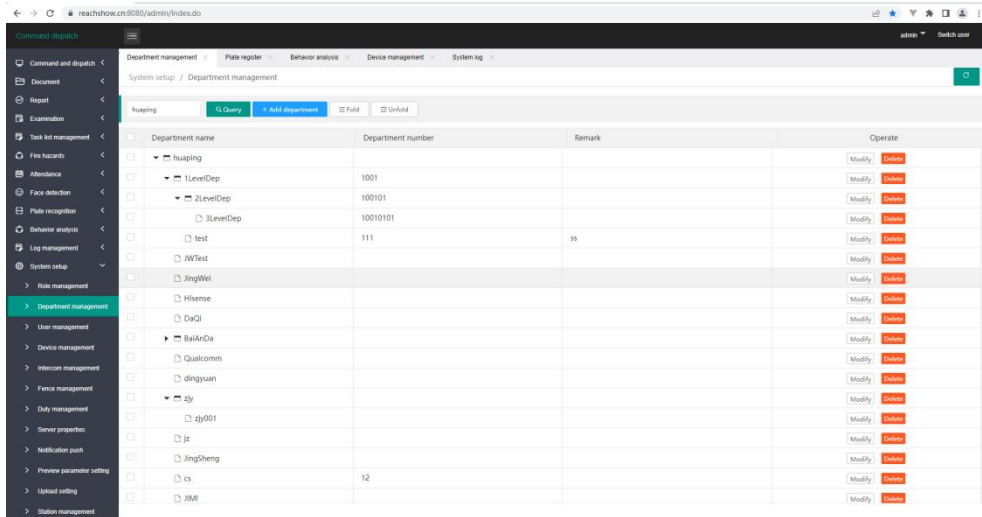
5.3.1: Behavior Analysis



Equipment shooting records

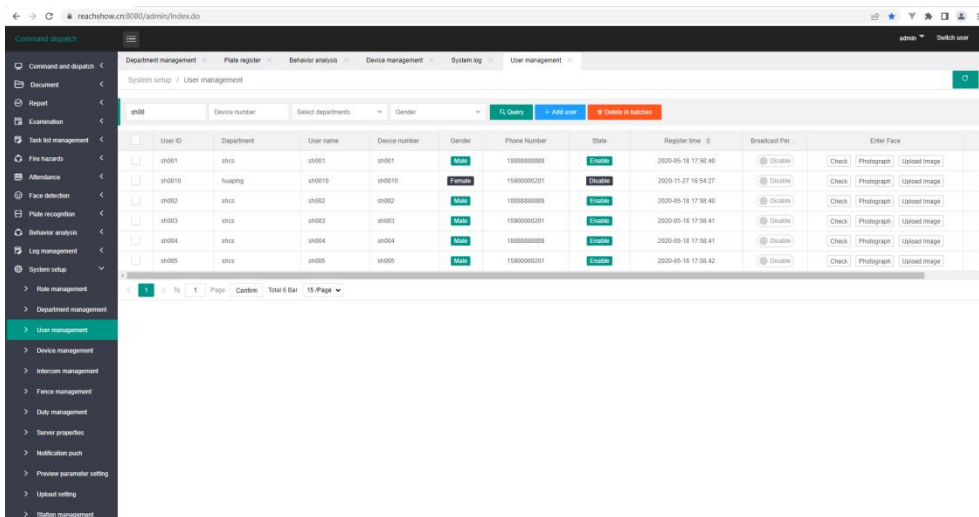
6.1 Department Management

The department needs to bind users or devices. The files uploaded by the department's devices and the generated records will be distinguished based on the department, and the files uploaded and records generated by the equipment under the current department will be displayed based on the logged in user's department



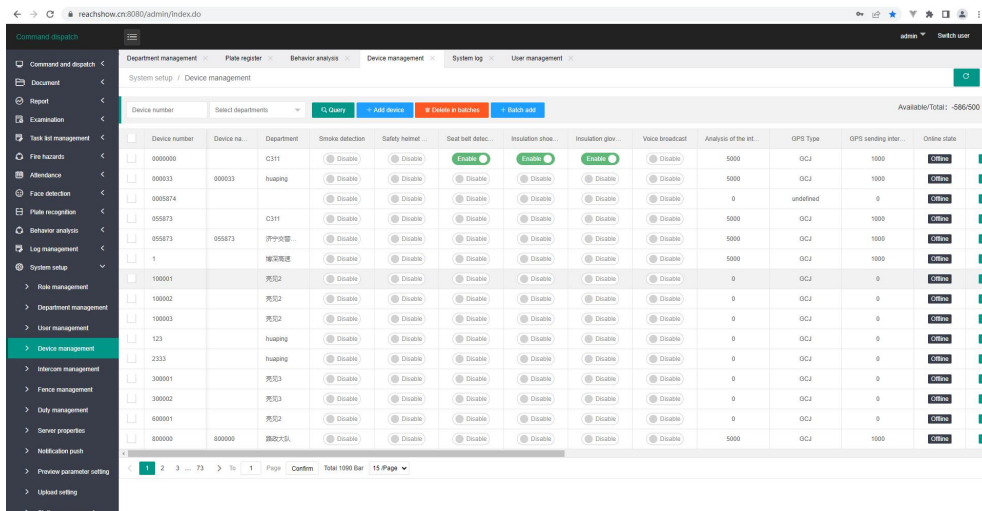
6.2 User Management

The added users can be used to log in to the platform or to the device, users who log in to the device need to bind the device



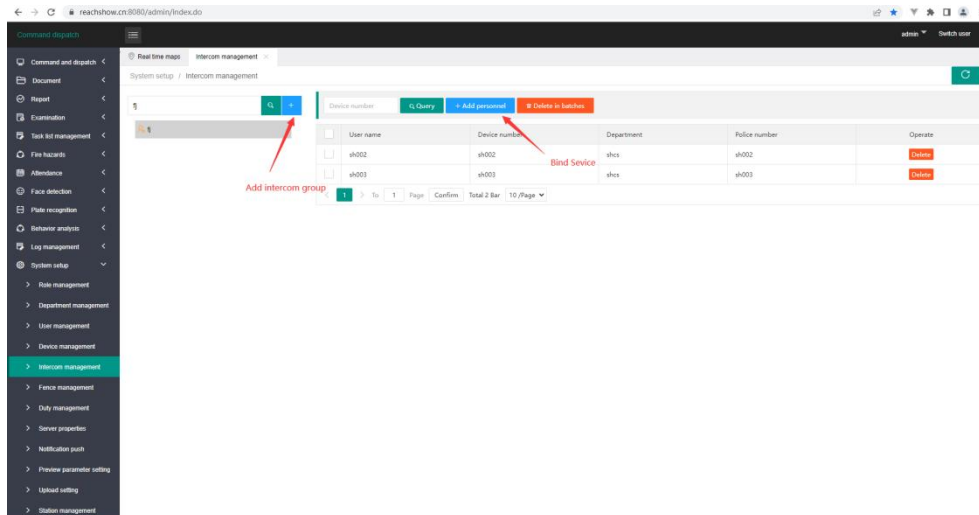
6.3 Device management

Used to manage device login accounts, which can be batch added, deleted, enabled or disabled for behavior analysis, video recording, bound check-in routes, bound to electronic fences, and enabled for fence crossing alarms

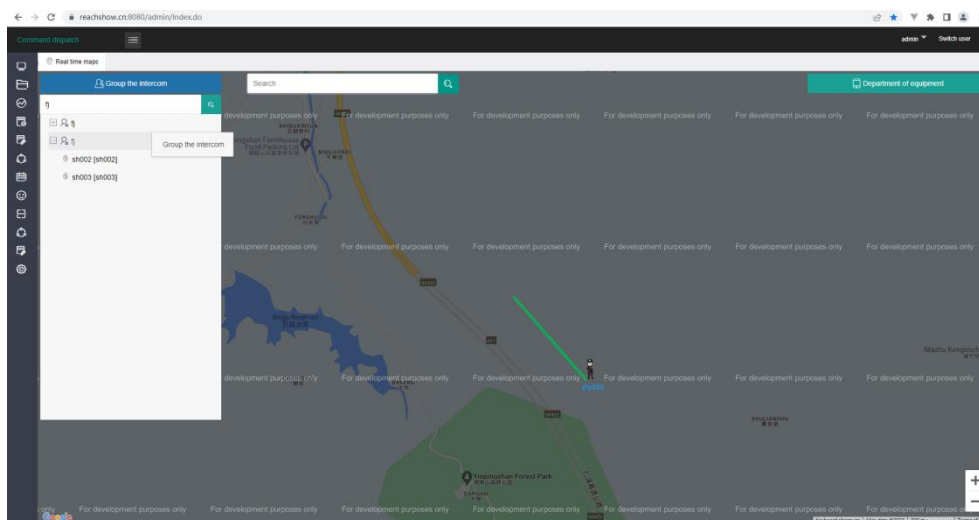


6.4 Intercom Group Management

You can add intercom groups, and by pulling devices into the intercom group, you can communicate with multiple devices simultaneously through the intercom group

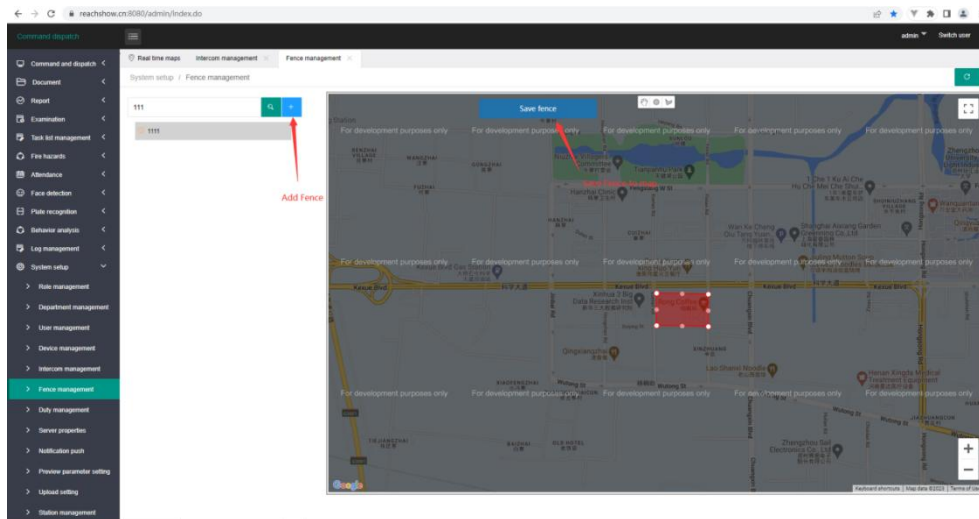


After adding the intercom group and binding the devices, you can view and call (select the intercom group and right-click) the devices in the intercom group on the map homepage using the Group the intercom button.



6.5 Fence Management

Add an electronic fence, bind the fence to a certain device in device management, and the device bound to the fence will alarm and generate a fence alarm record after entering or crossing the fence.



Packing List

Please carefully open the packaging of the law enforcement recorder and count the accessories according to the table below. It is recommended that you keep the packaging and packaging materials:

No.	Configure	Quantity
1	Body worn camera	1 pcs
2	Shoulder clip	1 pcs
3	Power adapter	1 pcs
4	USB data wire	1 pcs
5	Product instructions for use	1 pcs
6	Warranty card	1 pcs
7	Certificate	1 pcs
8	Packing box	1 pcs