

Configuration Manual

Facial Capture & Identification Camera Series

Version: 1.0.2

Date: 12/29/2018

Applicable model: FC700, FI700, FC710-L, FI710-L, FI710

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Please read the instructions carefully before using the device and strictly follow the instructions during use. Improper use of the electrical products may cause fire and serious physical injury. To avoid any accidents, please read the following notes carefully.

Due to regular upgrades of systems and products, ZKTeco could not guarantee exact consistency between the actual product and the written information in this manual. With respect to the actual technical parameters, please refer to the real products. This document is for reference only.

The product will be updated from time to time without prior notice. The latest operation procedures and relevant documents are available on <http://www.zkteco.com>.

If there is any issue related to the product, please contact us.

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About This Manual

This manual is intended to ensure that users can correctly use the product and avoid risks of danger to themselves or those nearby and property loss. Please read the instructions carefully before use and keep it for future reference.

The product described in this manual is for sale and use in overseas only.

Photographs, graphics, diagrams, and illustrations provided in the manual are for reference only.

Release history

Date	Version	Change
2018/9/18	V1.0	New release version

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Instruction

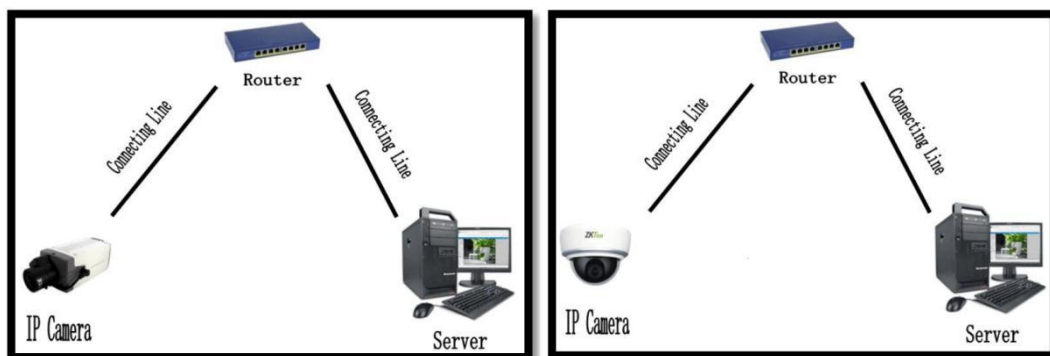
FC700/FI700/FC710-L/FI710-L/FI710 Series cameras share a set of WEB architecture. Except for the inapplicable parts (such as FI700/FI710-L/FI710 comparison, the relevant description is not applicable to the pure camera FC700/FC710-L/FC710, such as hardware limitations, such as inadequate hardware capabilities to support related functions), the other parts are in principle on a main line, but not in rows. Except for minor differences in use. Specific product WEB capabilities and functions should be based on the actual product WEB.

1. Internet Connecting

1.1 Through direct connection



1.2 Connect via a switch or router



2. Login Web Camera

2.1 Install plug-ins

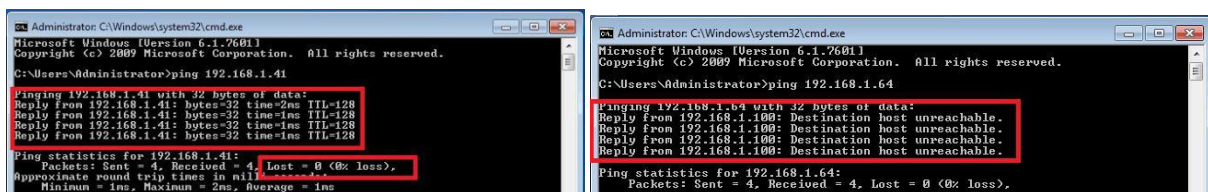
2.1.1 Pre-installation preparation of plug-ins

The camera is connected to 12V power supply after accessing the LAN through the network cable. After one minute of power-on, the camera IP address is searched by Device Manage management software. If the IP address can not be searched, the following reasons need to be excluded:

- Whether the camera is powered on, check whether the adapter is powered on and whether the output voltage of the adapter is 12V2A or above.
- Whether the network line of the camera connected to the LAN is normal or not.
- Whether the camera and the computer are in the same LAN, if they are in different LAN, the camera can not be searched.

2.1.2 Ping camera

- Enter the searched IP address into the browser's address bar and press Enter to start loading the control. If the camera IP can be found but cannot be logged in, the reasons can be confirmed by the following methods:
- Enter CMD while the computer is running, and then use Ping 192.168.1.10 (search the IP address of the camera) command to confirm whether the network is normal.
- The following left chart shows that the network is normal.
- If the network camera and the computer are not in the same network segment, the IP address of the camera can be modified by Device Manage management software.



* DeviceManag please read the instructions for the use of management software.

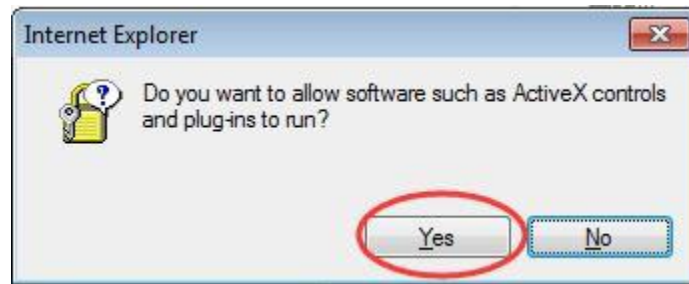
2.2 Reasons for not loading plug-ins

There are two possible reasons why IE plug-ins cannot be downloaded and installed

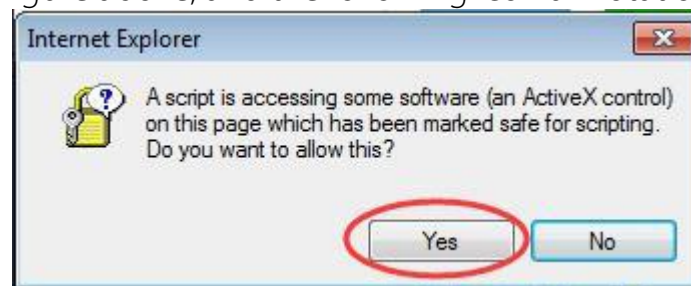
successfully:

- Users have anti-virus software installed in their computers, and IE plug-ins are mistaken for viruses that lead to interception. In this case, users only need to temporarily shut down the anti-virus software, and then open it after the plug-in is installed.
- The high security level of computer IE browser results in plug-ins being intercepted, as shown in the following figure:

1) When you enter IP in the address bar, the system will be prompted as follows:



2) Click "Allow" in the figure above, and the following icon annotation prompts you:



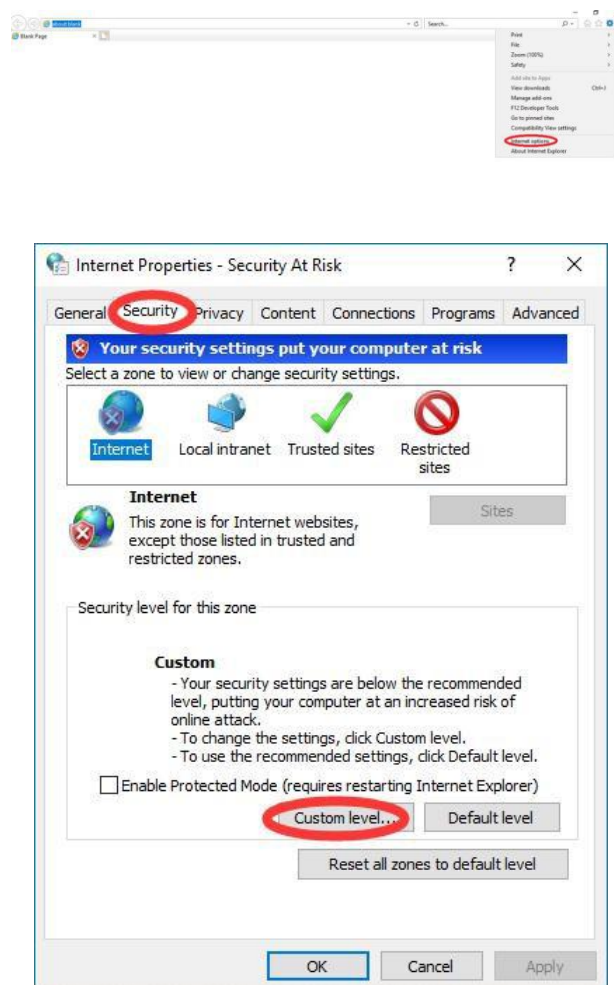
3) Click Installation to pop up the following dialog box:



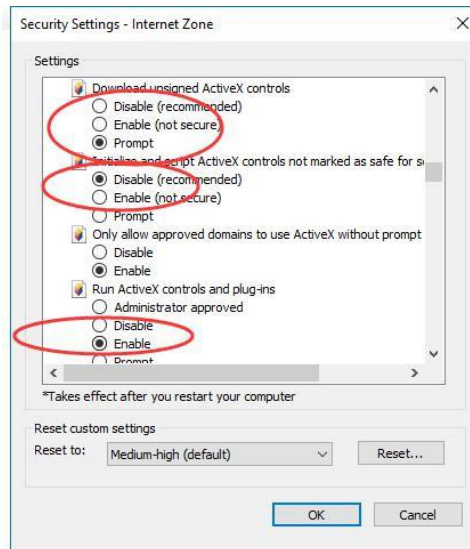
- If the plug-in fails to install, the IE security level needs to be modified. The modification steps are as follows:

Select tools - Internet options - Security - customization level in IE interface, and set IE

security level customization, as shown in the following figure.



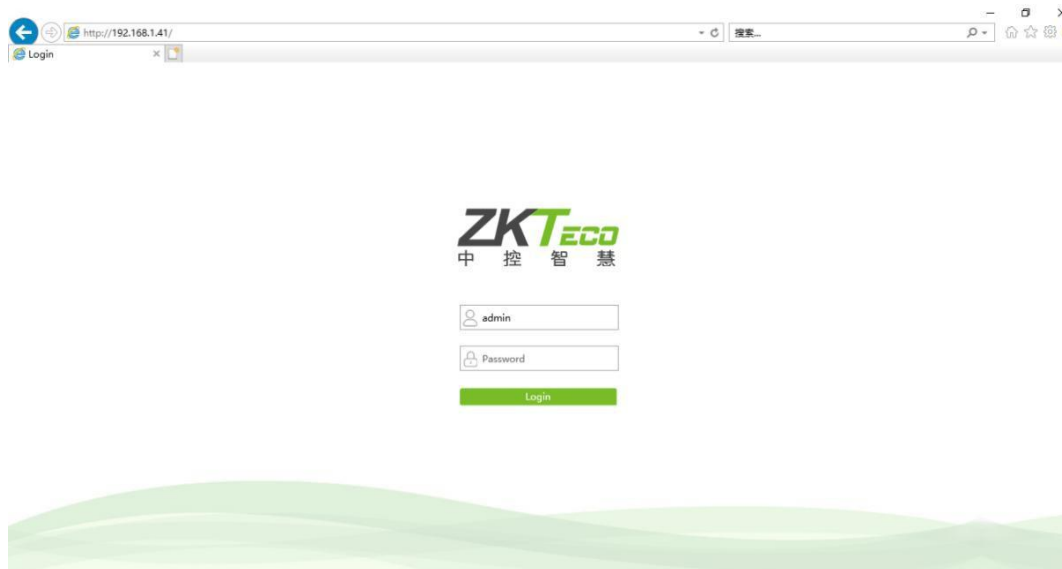
- Enable to download and install the ActiveX control, and plug-ins, as shown in the figure below. Make sure to refresh Internet explorer browser after application, start to download and install Internet explorer control.



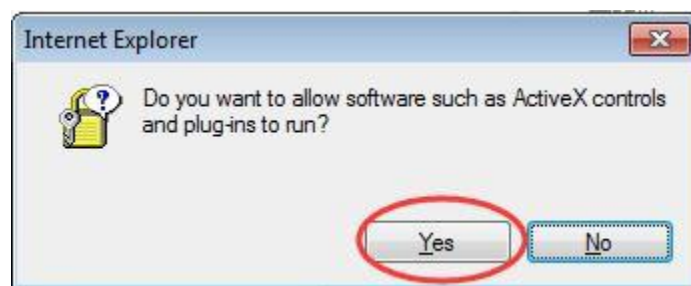
2.3 WEB Login camera

2.3.1 First WEB Log-in Camera

- Step 1. In order to enable devices to access the network smoothly, please set the IP address of the computer and the device to the same network segment before accessing the device through the IE browser. After the computer IP settings are completed, open the IE browser, enter the IP address of the device in the address bar, press the Enter key, and the WEB login interface will be displayed. The initial IP address of the camera: 192.168.1.2. If you need to modify the device IP, you can modify it under the "Network Configuration - > Network Settings - > TCP/IP Configuration" path.
- Step 2: Enter the user name and password in the login interface, click "Login", and the system enters the password setting interface. According to the prompt of the interface, the administrator's password is set. If you need to modify the password again, you can click on the user icon in the upper right corner of the monitoring interface and select "Modify the password" to modify the password.



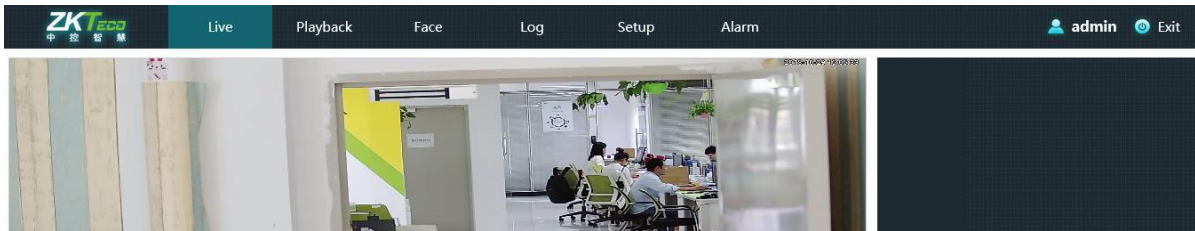
- Step 3. After the administrator password setting is completed, the system enters the WEB main interface, prompts the installation of plug-ins, and clicks "Please click here to allow the download of plug-ins".



- Step 4. The system pop-up file download box allows the plug-in to be installed or saved directly according to the need. After the selection, the plug-in can be installed according to the system prompt.



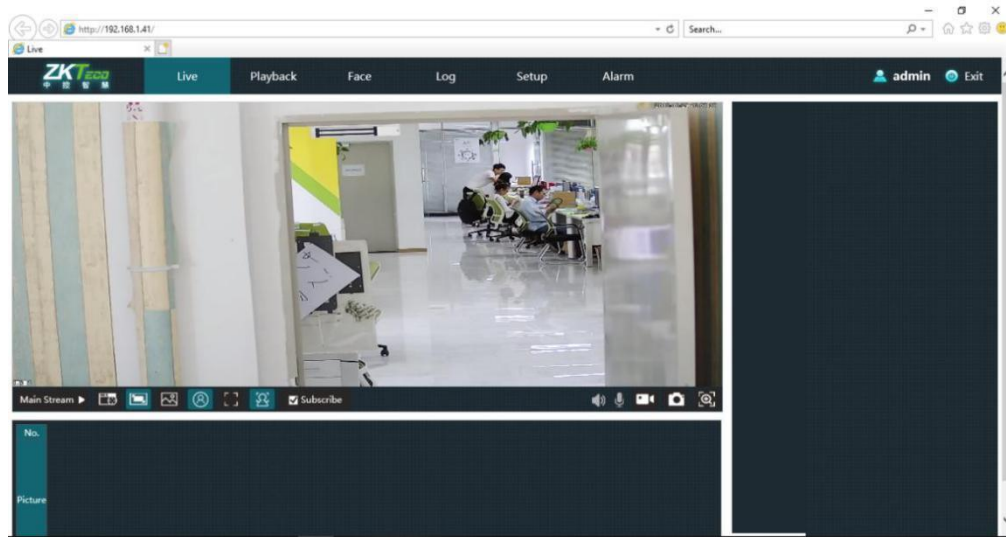
- Step 5. After installing the plug-in, enter the login password, login the device and enter the WEB main interface as shown in the figure.



2.3.2 Non-first WEB logon camera

Step 1: Open the IE browser, enter the IP address of the device in the address bar, press the Enter key, and the WEB login interface will be displayed.

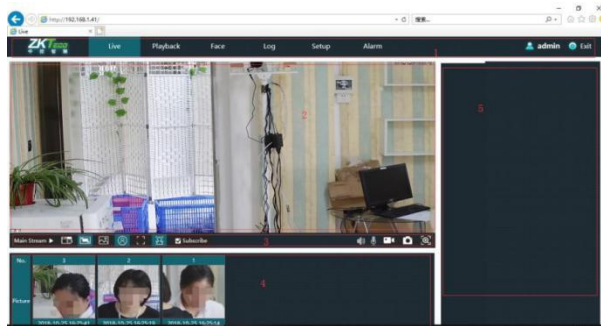
Step 2. Enter the user name and password and click "Log in" to enter the main WEB interface.




3. Live

3.1 WEB Page introduction

The camera supports accessing devices, configuring device parameters and managing devices through Web pages. After successful login to WEB, default access to the monitoring interface, Web page layout and description as shown in the figure.



3.2 System menu bar


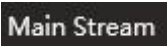
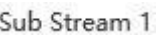
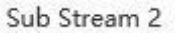

 Live Playback Face Log Setup Alarm admin Exit	
Function	Instruction
Live	Used for monitoring preview, coding settings, picture subscription, real-time snapshot and video recording. Detailed description can be found in the monitoring section.








Number	Description
1	System menu bar
2	Preview pane
3	Common toolbars
4	Snapshot Face Picture Preview Bar
5(Limited to Face-to-Face Camera)	Face Recognition Comparing Column [For Face Comparing Camera only]

Playback	Used to find videos and graphs on the device's built-in TF memory card by time, video or picture type File and playback, but also downloaded to the local, detailed description can be seen in the playback section of the content.
Face	Used to configure face snapshot push mode, face matting target, traffic statistics, face database management and face comparison record.
Log	Used to query user login and logout, system restart and other operation log information, can provide backup.

Setup	For various configurations of the system, please refer to the configuration section for details.
Alarm	Used to display alarm information.
Admin	Display the current logged-in user information, where you can modify the user password.
Exit	You can log out after clicking. For more details, see the logout section.

3.3 Common toolbars

	
Function	Instruction
	Main stream button: 1. When selected, the system will monitor the video under the configuration of the main stream. 2. The main stream video is displayed by default.
	Auxiliary code stream 1 button: 1. After the selection, the system will monitor the video under the configuration of auxiliary bitstream. 2. when the network bandwidth is insufficient, the auxiliary code stream can be selected for network monitoring. instruction : Auxiliary stream 1 enables default shutdown. For preview, go to Configuration - > Video Management - > Settings Open Auxiliary Bit Stream 1 in Bit Stream.
	Auxiliary code stream 2 Button: 1. After the selection, the system will monitor the video under the secondary stream 2. 2. When the network bandwidth is insufficient, auxiliary stream 2 can be selected for network monitoring. instruction : Auxiliary stream 2 enables default shutdown. For preview go to Configuration - > Video Management - > Settings Open Auxiliary Bit Stream 1 in Bit Stream.
	Picture scale setting: Adjust the screen to a fixed proportion or to fit the window as needed.

	<ol style="list-style-type: none"> 1. Background map button: 2. Background image display switch. When the background image button is selected, the snapshot pane will be displayed. 3. After checking "Show Background Image" in "Face-Overlay and Graphics", the Background Image button can be selected, otherwise the button will be gray.
	<p>Show the small chart selection box: After checking, a small face image display pane will appear in the WEB interface.</p>
	<ol style="list-style-type: none"> 1. Tracking box button: 2. Tracking frame display switch. When the tracking frame is opened, the dynamic analysis frame of mobile detection or the rule frame of intelligent function will appear on the monitoring screen. 3. After checking "Overlay Tracking Information" in "Face-Overlay and Graphics", the tracking box button can be selected, otherwise the button will be gray.
	<p>Subscribe Picture Selection Box: After checking, the system will automatically receive the trigger source triggered image, the large image will be displayed on the right side of the page, and the small face image will be displayed on the bottom of the page.</p>
	<p>Video button: 1. Click this button and start recording. Clicking again will end the recording. Video is saved on the local computer and the default storage path is: C: Users Public Record</p>
	<p>Capture button: 1. After clicking this button, the image of the current capture time will be intercepted in the video stream. 2. Pictures are stored on the local computer. The default storage path is: C: Users Public Picture.</p>
	<p>Local Enlargement Button: 1. After clicking this button, drag the left mouse button in the video window to select any area, and the selected area will be enlarged. 2. If you want to restore the original state, you can click the right mouse button in any area of the video window, or click the local enlargement button again.</p>

3.4 Snapshot Face Picture Preview Bar

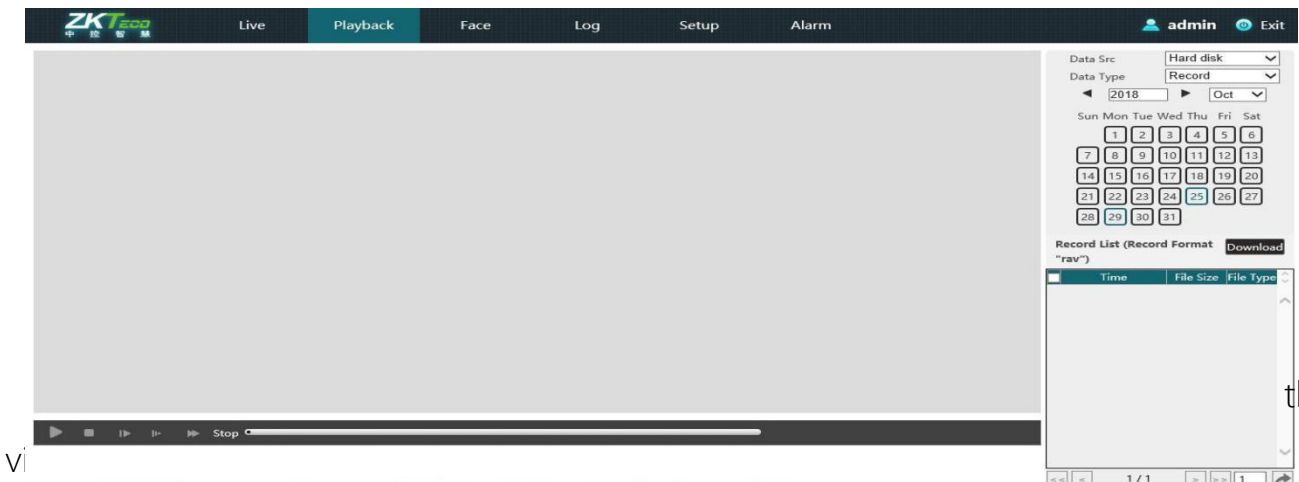
- Number: The captured face images are arranged in order from right to left.
- Pictures: The captured pictures are sorted from right to left according to the time. The time when the pictures are captured is shown below the picture.









4. Playback

4.1 Playback interface introduction

Click "playback" to enter the playback interface. The playback interface can query, playback and download the video or picture files stored in the camera SD card. After opening the video enable and storage, the relevant video interface can be queried in the playback interface as shown in the figure. Choose any day in the calendar bar on the right side of the interface. The videos of that day will be displayed in the video list. Double-clicking the files in the list will start playing.

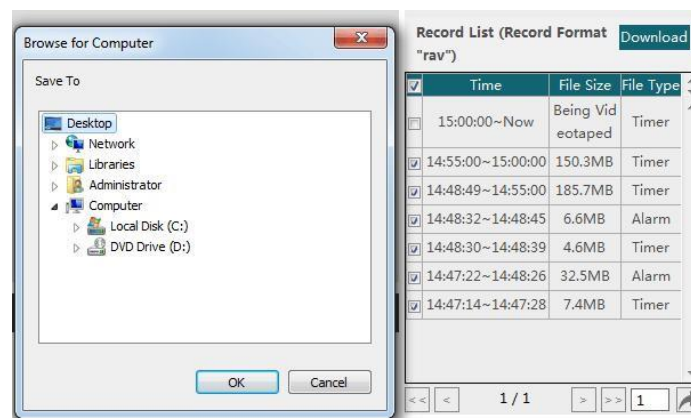


Label	Instruction
	Play button: Click the button to start playing the video.

	Stop button: Click the button to stop playing the video.
	Next button: Click the button and jump to the next frame to play the video.
	Slow in button: Click the button and the video will play slowly.
	Quick release button: Click the button and the video will play faster.
	Playback status: When not playing, the state is displayed as stop, while playing, the state is displayed as play.

4.3 Video download function

The video list is the list of video files in the device's built-in TF memory card. Check the line that needs to be downloaded to the local video file. Click the "Download" button to pop up the save path selection. After selecting the path, click OK. The selected file will be downloaded and stored in the path.



4.4 Image download function

Pictures can be queried in the picture interface only after opening the snapshot and storage. If you need to open, please refer to the operation instructions in the section of parameter configuration and storage. Choose "picture" in the data type to enter the picture

query interface. The picture interface can query, preview and download the picture files stored in the camera SD card. The interface is shown in the figure. After setting the start and end time of the query on the interface, click Search to display the image files of that time in the picture information list below the interface.

Data Src: Hard disk

Data Type: Picture

◀ 2018 ▶ Oct ▼

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Picture Info List [Download](#)

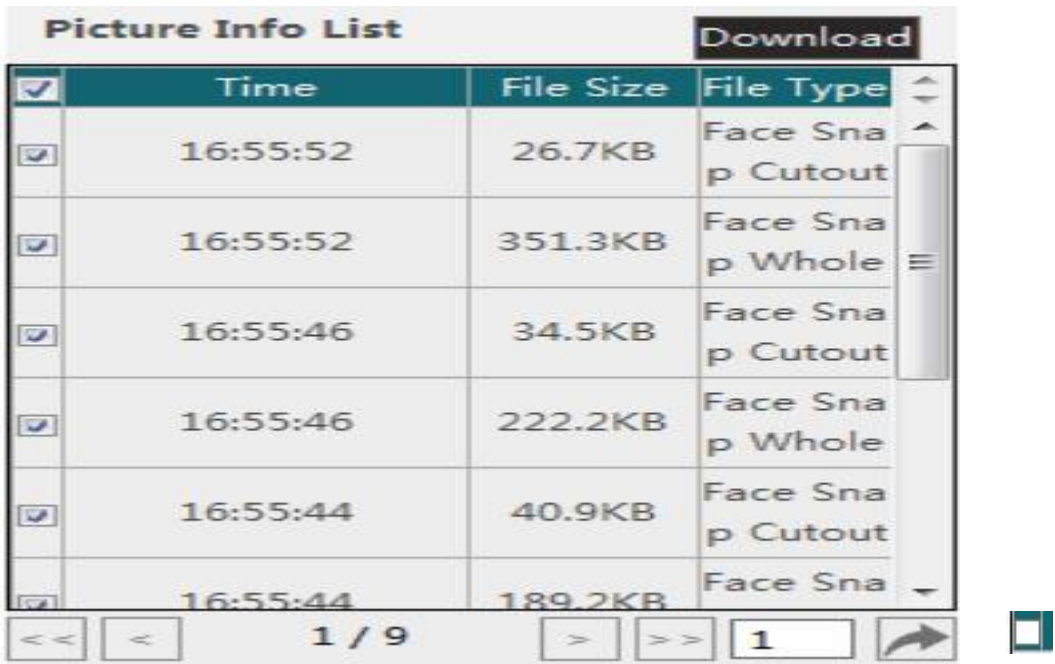
	Time	File Size	File Type
--	------	-----------	-----------

<< < 1 / 1 > >> 1 🔍

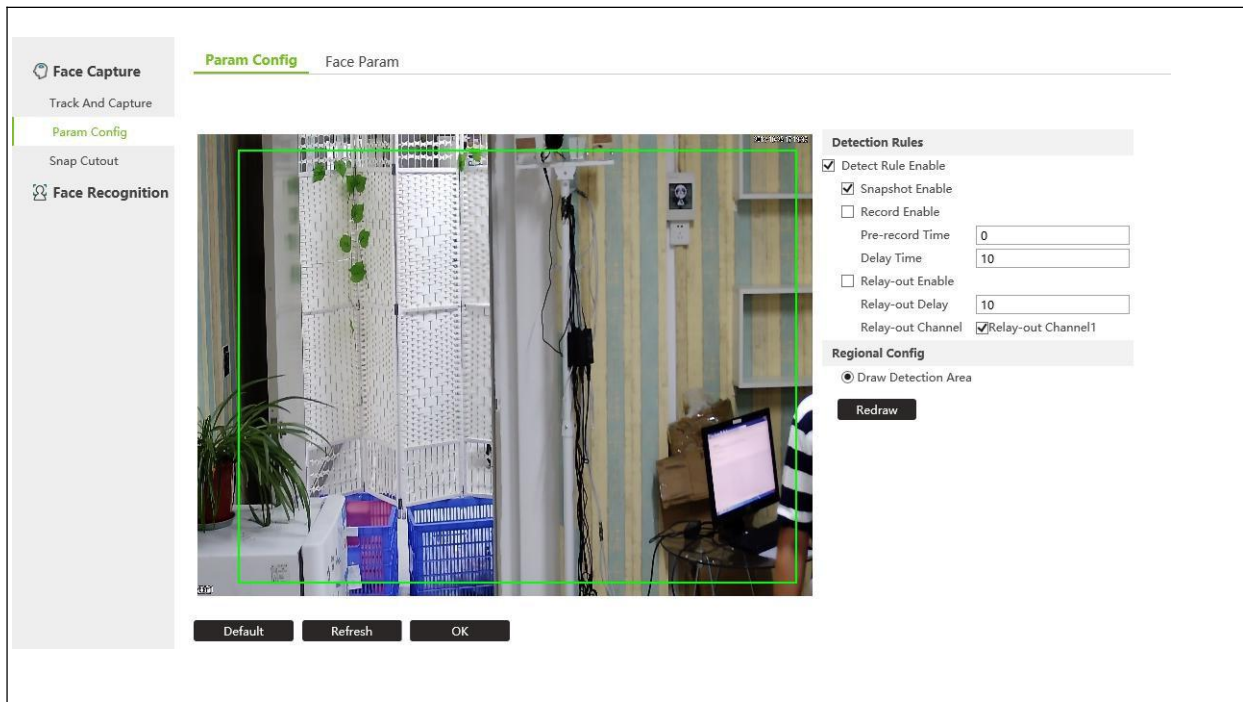
4.5 Picture view function

Double-click the file in the list to view the snapshot.

4.6 Image download function



Function	Instruction
Download	Check the image you need to download, click the "Download" button, you can pop up the save path selection, select the path and click OK, the checked file will be downloaded and stored in the path.
Download all	Click the toolbar button, you can pop up the save path selection, select the path and click OK, all the images queried will be downloaded and stored in the path.
Stopping download	During the download process, the "Download" button will change to the "Stop" button. Click this button to stop downloading the current image. Successful downloads can be viewed in the selected path, unsuccessful downloads are cancelled, and local paths are not previewed.



Function	Instruction
Detect Rule Enable	After checking the "detection rule enablement", the system will turn on the intelligent face detection function. If this function is not turned on, all related functions of smart face will not be used.
Snapshot Enable	After checking "Capture Enables", the system will turn on the facial capturing function.
Record Enable	When "Video Enabling" is checked, alarm will be generated when the face picture is captured, and the system will automatically record the video. 1. Preview time: When the alarm starts, the alarm video will be prerecorded for a period of time. Customers can set the time according to their needs. 2. Delay time: When the alarm is over, the alarm video will be extended for a period of time before stopping. Customers can set the time according to their needs.
Relay-out Enable	After checking the "alarm output enablement", the alarm linkage output port will be activated. When the alarm is generated by capturing the face picture, the system can link the corresponding alarm output device. 1. Delay of alarm output: When the alarm is over, the alarm is extended for a period of time to stop. 2. Alarm output channel: At present, one channel is supported for alarm. When the alarm output is enabled, the alarm output channel 1 will be automatically checked.
Regional Config	After clicking the Redraw button, the face detection area can be drawn. Use the left mouse button to click on the left side of the preview window and drag the mouse to delimit the detection area.

5.1.2.2 Face Param

Face parameters are used to set the mode, parameters and boundaries when capturing. The interface is shown in the figure.

Face Capture

Track And Capture

Param Config

Snap Cutout

Face Recognition

Param Config

Face Param

☐ Face Confidence

Snap Mode

Optimal Mode

Snap Amount

1

Using Safe

Yes

Boundaries

Default

Refresh

OK

Function	Insturction
Face Confidence	After checking "Face Belief", a round of "non-face" judgment will be pushed out before the face capture. For example, the false grasp of non-face such as wheels, animal faces and so on can be filtered out by this function.
Snap Mode	<div>Automatic mode:<div>1. Under the condition of face detection, in the same Track, one face image with the best quality is pushed in the capture interval.</div><div>2. The total number of snapshots from a single face entering the detection area to leaving the detection area is equal to less than the set number of snapshots.</div><div>3. Minimum face pixel is 30;</div><div>4. The time interval support for snapping push pictures is set to 80ms, 200ms, 500ms, 1s, 2S and 4s.</div></div> <div>Optimal mode:<div>Under the condition of face detection, in the same Track, N face images with the best quality are pushed in the capture interval. Default working mode</div></div> <div>Fast mode:</div>

	<p>1.N = 1. Once the recognizable boundary is reached, a face image can be captured and pushed out.</p> <p>2.N = 2. The first image is a face image with recognizable boundary, and the second one is a face with 3 points higher than the previous image quality score. If the condition is not met, it will not be pushed.</p> <p>3.N = 3, the first two are as above, and the third one is a face 3 points higher than the previous image quality score. If the condition is not met, it will not be pushed.</p> <p>Custom mode:</p> <p>Users can set their own filtering conditions such as face angle, ambiguity, minimum detectable face pixels. If pitch is set to 50 degrees, face with nose as the center or elevation angle of more than 50 degrees will be filtered out, and will not be pushed.</p>
Snap Amount	Used to set the number of push chart, the maximum number of snapshots is related to the specific product.
Using Safe Boundaries	<ol style="list-style-type: none"> 1. Choose "Yes": Face push maps will filter out faces that do not meet the recognition security boundary, and the output face quality is high, and the corresponding missed grabs will increase. 2. Choose "No": Faces that fail to reach the safe boundary will also be uploaded to improve the capture rate.



Explanation: 1. In order to achieve better face recognition effect, the minimum face pixel is recommended to set more than 60. For the occasion with higher real-time requirement, it is recommended to choose automatic or fast mode. 2. Face confidence function is mutually exclusive when compared with face recognition. When the device is used as a grabber, it is suggested to open the face confidence function to reduce false grabbing. When the device is used as a recognition machine, in order to save bandwidth, it is suggested to close the snapshot push map and remove the enabling check according to "face - > parameter configuration - > parameter configuration - > matting enabling".

5.1.3 Snap Cutout

Matting configuration interface is used to set the type of face matting. The interface is shown in the figure.

Face Capture

Track And Capture

Param Config

Snap Cutout

Face Recognition

Snap Cutout

Cutout Type

☒ Face Cutout ☐ Half Body Cutout ☐ Full Body Cutout

Default Refresh OK

Function	Instruction
Face Cutout	After checking "face matting", snap a small picture as a face map.
Half Body Cutout	After checking "half-body matting", snap the small picture as a half-body picture.
Full Body Cutout	After checking "whole body matting", snap a small picture for the whole body.

5.2 Face Recognition(only FI710)

5.2.1 Recognition

5.2.1.1 Face Group Management

Face database management is used for facial database modeling (FI710 only), creating, modifying and deleting. The interface is shown in the figure.

ZKTeco

Live Playback Face Log Setup Alarm

admin Exit

Face Capture

Face Recognition

Recognition

Face Group Management

Linkage Alarm Recognition Record

Face Group List

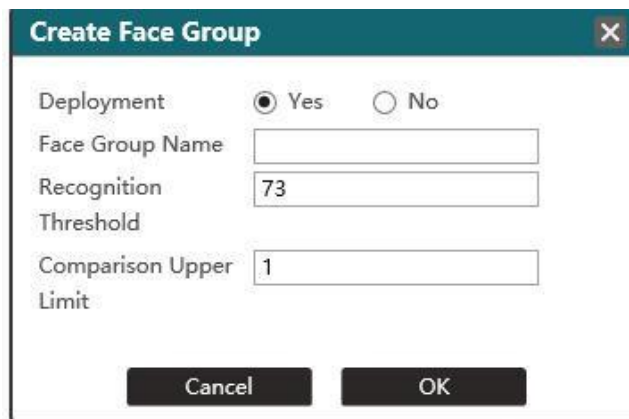
Model Create Modify Delete

No.	Face Group Name	Create Time	Deployment State	Recognition Threshold	Comparison Upper Limit	Query Face
1	1	2018-10-18 17:59:08	Turn on	90	1	
2	2	2018-10-22 21:25:17	Turn on	73	1	
3	Group Of Unbound Face					

If you want to create a face database, click Create, and the graphical interface appears.

Click "Select Cloth Protection" and fill in the name of the face in "Face Name".

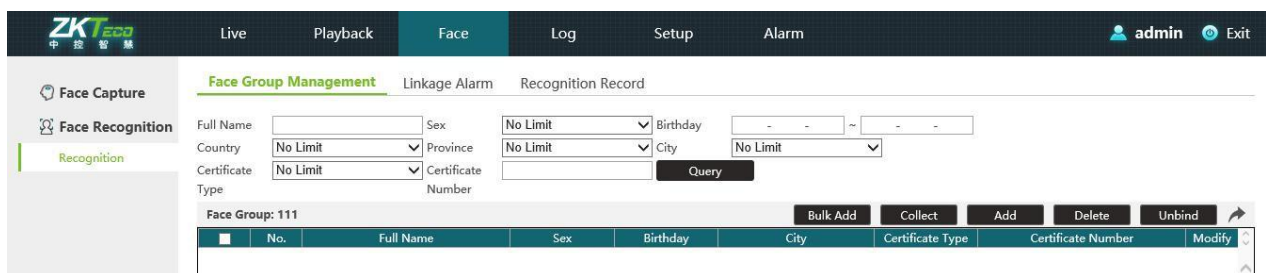
"Recognition threshold" defaults to "73" and "comparison upper limit" defaults to "1". If you want to adjust the size of "recognition threshold" and "comparison upper limit", you can enter the value you want to adjust in the corresponding box.



The "Create Face Group" dialog box contains the following fields and controls:

- Deployment:** Radio buttons for "Yes" (selected) and "No".
- Face Group Name:** A text input field.
- Recognition Threshold:** A text input field containing the value "73".
- Comparison Upper Limit:** A text input field containing the value "1".
- Buttons:** "Cancel" and "OK" buttons at the bottom.

After completing the above information, click  below the query face and enter the interface as shown.



The "Face Group Management" interface includes a sidebar with "Face Capture", "Face Recognition", and "Recognition". The main area has tabs for "Face Group Management", "Linkage Alarm", and "Recognition Record". Under "Face Group Management", there are search filters for Full Name, Sex, Birthday, Country, Province, City, Certificate Type, and Certificate Number, along with a "Query" button. Below the filters is a table with columns: No., Full Name, Sex, Birthday, City, Certificate Type, Certificate Number, and Modify. Above the table are buttons for "Bulk Add", "Collect", "Add", "Delete", and "Unbind".

If you want to import an existing face image, you can click Add, and the following interface appears. After completing the following information, click Check, and if you want to re-enter the information, click Cancel.



The "Add" dialog box contains the following fields and controls:

- Full Name:** A text input field.
- Sex:** A dropdown menu with "Male" selected.
- Birthday:** A date selection field.
- Country:** A dropdown menu with "中国" (China) selected.
- Province:** A dropdown menu with "北京市" (Beijing) selected.
- City:** A dropdown menu with "东城区" (Dongcheng District) selected.
- Certificate Type:** A dropdown menu with "IC" selected.
- Certificate Number:** A text input field.
- Buttons:** "Cancel" and "Parity" (labeled as "Check" in the original image) buttons at the bottom.

After clicking Check, an interface appears as shown in the following figure. Click " + ", you can add the corresponding face image, and then click "OK", you can

successfully enter the face database. Click "Search" to find the list of people who have entered the face.

The image shows two screenshots from a software interface. The top screenshot is a dialog box titled "Add" with fields for Full Name (111100), Sex (Male), Birthday (1850 - 11 - 11), Country (中国), Province (北京市), City (东城区), Certificate Type (IC), and Certificate Number (111111). It also has a "Photo" section with three empty boxes and "Cancel" and "OK" buttons. The bottom screenshot shows the "Face Group Management" interface with a sidebar for "Face Capture" and "Face Recognition". The main area has search filters and a table of face groups.

No.	Full Name	Sex	Birthday	City	Certificate Type	Certificate Number	Modify
1	222	Male	2037-12-22	北京市 东城区	IC	222	
2	33	Male	2037-12-31	北京市 东城区	IC	333	
3	1	Male	2018-09-01	中国 中国	IC	1	
4	2	Male	2018-09-01	中国 中国	IC	2	
5	3	Male	2018-09-01	中国 中国	IC	3	
6	4	Male	2018-09-01	中国 中国	IC	4	

"Batch addition" can add multiple faces at the same time.

"Collection" is used to collect face images and information. Click "Collection" to display the interface as shown in the figure. After completing all the information, the collected person is within the scope of the camera, then click " ", collect the face image, if the collected image is not satisfied, you can click "delete", and finally click "OK", the collected person's information is entered into the face database.

The image shows a dialog box titled "Collect" with fields for Full Name, Sex (Male), Birthday, Country (中国), Province (北京市), City (东城区), Certificate Type (IC), and Certificate Number. It also has a "Photo" section with a live camera feed on the left and three empty boxes on the right. "Cancel" and "OK" buttons are at the bottom.

"Delete" is used to delete the face information in the face database. Check before deleting the information " ", click "delete", you can delete the checked information.

"Unbinding" is used to unbind the face information in the face database. Check before you want to unbind information" ☐",click Unbound to unbind the selected information.

" "is the return key, it is used to return to the previous level.



5.2.1.2 Linkage Alarm

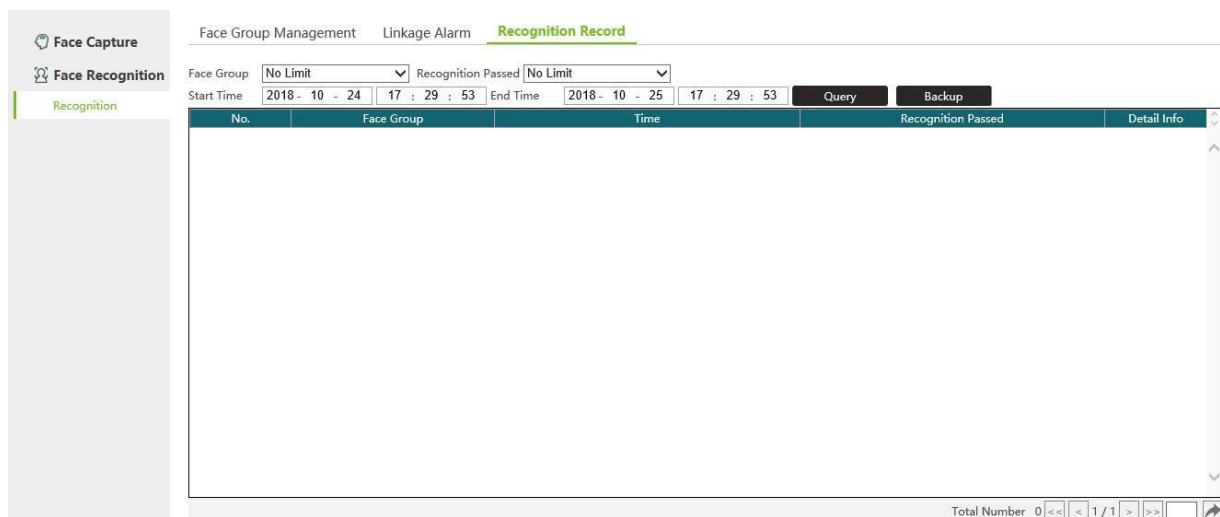
The linkage alarm interface is used to set the type of alarm in face recognition. The interface is shown in the figure.

Function	Instruction
Face Group	"Face database" has a drop-down box, drop-down select the face database, then select the face database of linkage alarm.
Record Enable	When "Video Enabling" is checked, alarm will be generated when the face picture is captured, and the system will automatically record the video. Pre-recording time: Before the alarm starts, the alarm video will be prerecorded for a period of time. Customers can set the time according to their needs. Delay time: When the alarm is over, the alarm video will be extended for a period of time before stopping. Customers can set the time according to their needs.
Relay-out Enable	After checking the "alarm output enablement", the alarm linkage output port will be activated. When the alarm is generated by capturing the face picture, the system can link the corresponding alarm output device. Alarm output delay: When the alarm is over, the alarm is extended for a period of time to stop. Alarm output channel: At present, one channel is supported for alarm. When the alarm output is enabled, the alarm output channel 1 will be

	automatically checked.
Wiegand Channel Config	Currently, only "Wigan Channel 1" is supported. By default, no Wigan Channel is checked.

5.2.1.3 Recognition Record

Recognition record interface is used to query device recognition record. Click on the Recognition Record to enter the Recognition Record Interface. Recognition records can be queried according to face database, recognition restriction and time period. Set the query period and click the "Query" button to query the log records in that period.



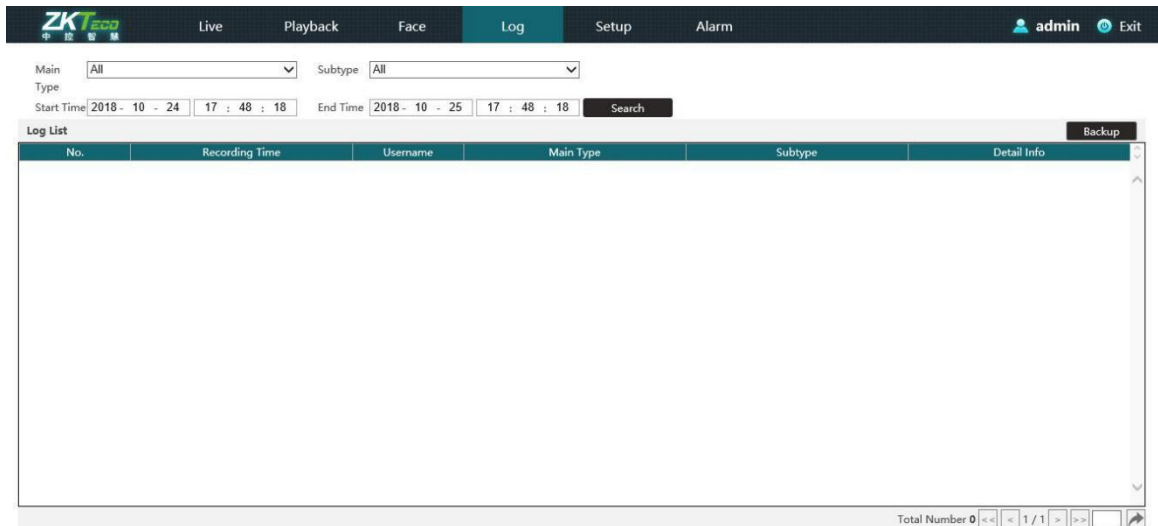
6. Log

6.1 Log Search

Click on the log to enter the log interface. Set the query period and click the "Search" button to query the log records in that period.

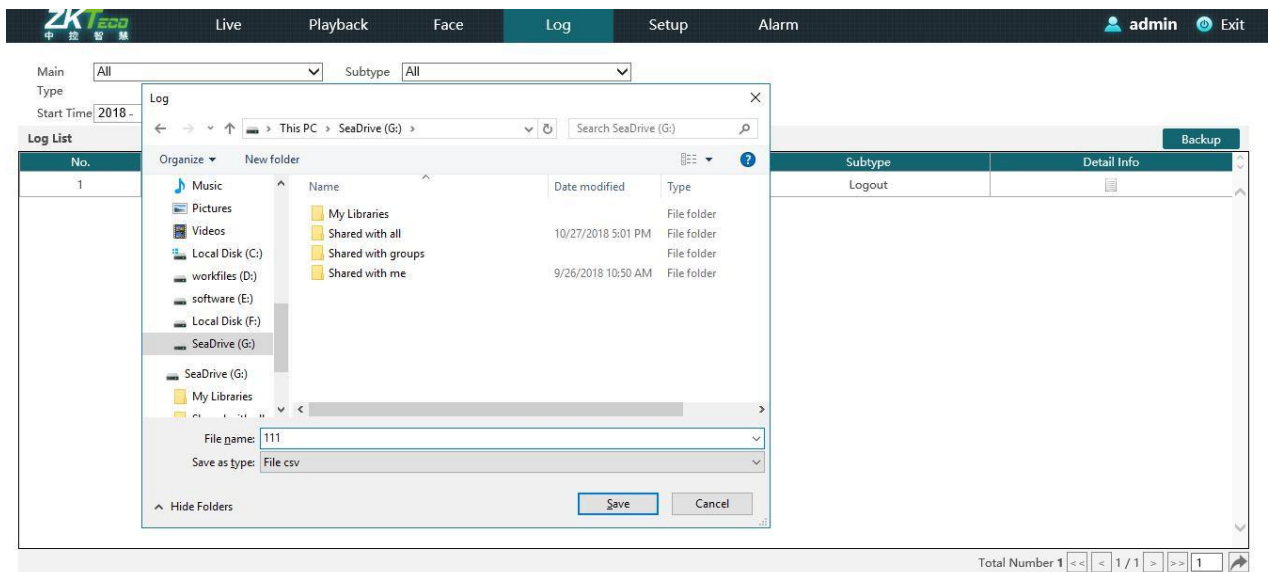
The type of log record can be selected from the primary type and the secondary type. At present, the main support system restarts, user login and login operations and other records.

Click on the icon in the details bar to see the details of the corresponding log line.



6.1 Log Backup

Log backup interface is used to backup and store past identification records. Click the "Backup" button to automatically pop up the Storage Path Selection Box, which can backup the log to the selected local directory.

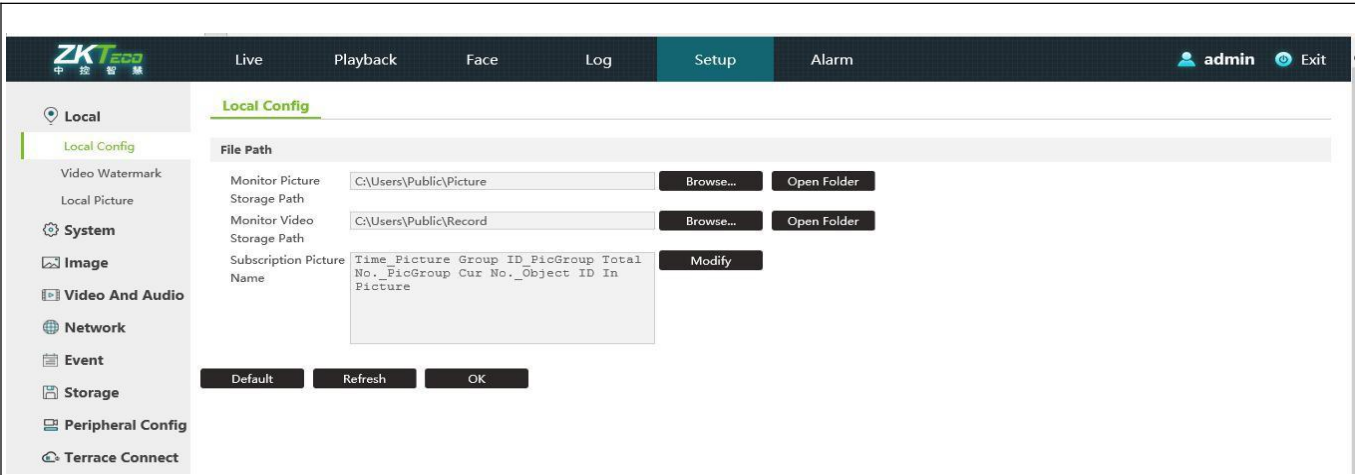


7. Setup

7.1 Local

7.1.1 Local Config

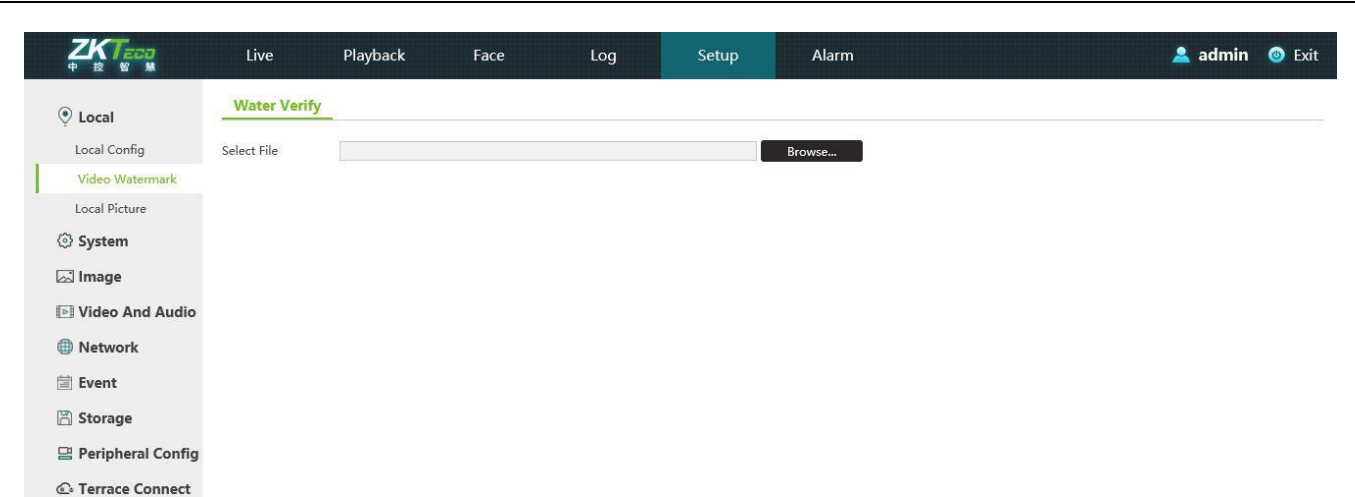
The local configuration interface is used to configure the path to capture and record during monitoring. The interface is shown in the figure.



Function	Instruction
Monitor Picture Storage Path	The path where the captured image is stored locally during monitoring, click Browse to change the path, and click Open Folder to open the folder under the archive path.
Monitor Video Storage Path	The path where the recorded video is stored locally during monitoring, click Browse to change the path, and click Open Folder to open the folder under the archive path.

7.1.2Video Watermark

The video watermarking interface is used to browse the watermarking of the video. The interface is shown in the figure.

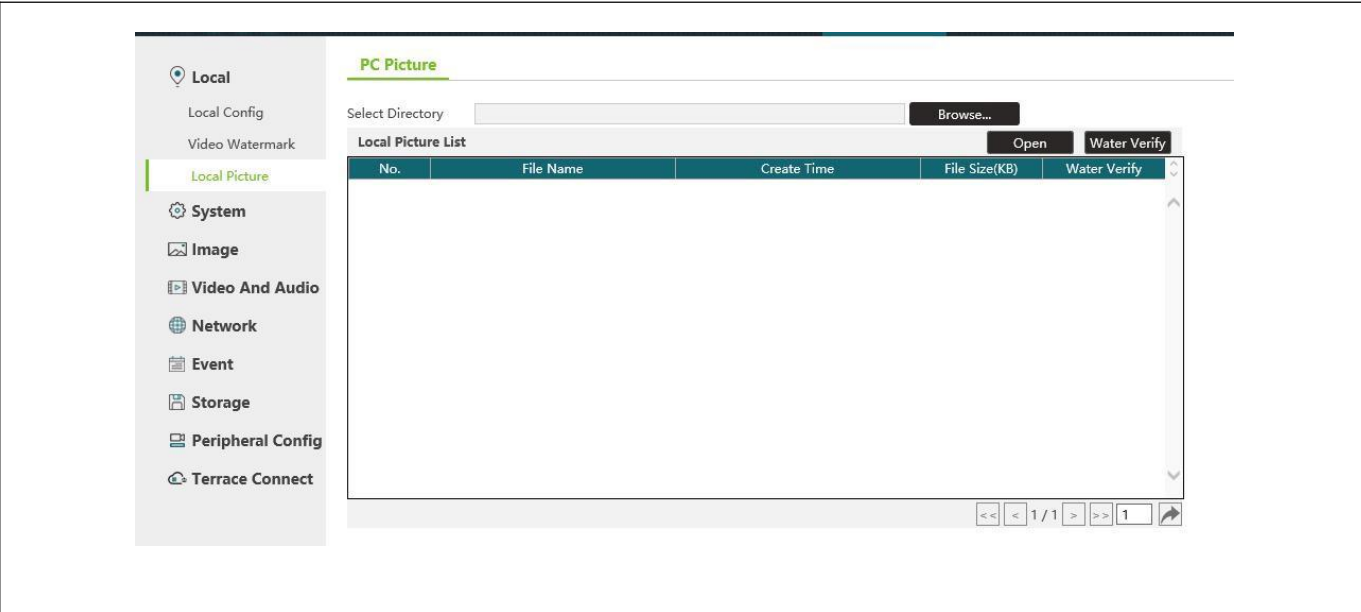



Function	Instruction
----------	-------------

review	Browse button: Click this button, select the video folder on the local PC as needed, and click OK to display all the videos in the folder in the video list.
--------	---

7.1.3 Local Picture

The local picture interface is used to select the local picture file and view the picture file. The interface is shown in the figure.



Function	Instruction
review	Browse button: Click this button, select the image folder on the local PC as needed, and click OK to display all the pictures in the folder in the picture list.
Open	Open the button: Select the picture in the picture list and click this button to open the picture.  Description: Double-click on the picture in the picture list, or open the picture.

8. System

8.1 System Config

8.1.1 General Info

The basic information interface is used to view and set up the system information of the device, including the name of the device, the model of the device, the version of the device and so on. The interface is shown in the figure.

Local

System

SystemConfig

Account

Safety

System Maintenance

Image

Video And Audio

Network

Event

Storage

Peripheral Config

Terrace Connect

General Info

Date

Communication Configurations

Wie Gand Config

Name

Cam1

Site Name

BeiJing

Language

English

Video Standard

PAL

Device Model

M-CR15211-JS

Device Sequence

8T8OR030004

Software Version

1.000.0002.3.T

Soft Build Time

2018-10-15

Algorithm Version

L4_181009RC_CR00_180927V2.1

GB28181 Version

GB/T28181-2016

ONVIFVersion

2.4

Default

Refresh

OK

8.1.2 Date

The date interface is used to set the time zone, time and daylight saving time of the device. The interface is shown in the figure.

The screenshot shows the 'Date' configuration page. The sidebar on the left lists various system settings, with 'System' and 'SystemConfig' highlighted. The main content area is divided into tabs, with 'Date' being the active tab. It contains fields for setting the time zone, current time, DST, and NTP settings. The 'Current Time' field shows the date 2018-10-26 and time 09:29:23. The 'DST' checkbox is unchecked. The 'Start Time' and 'End Time' fields are set to Jan 1st Sun 00Hour. The 'NTP' section is also unchecked, with the server set to cn.ntp.org.cn, port 123, and a 60-minute interval. Buttons for 'Default', 'Refresh', and 'OK' are located at the bottom of the configuration area.

Function	Instruction
Timing zone	The time zone where the equipment is located.
System time	Current system time of equipment.
Computer Time Synchronization	Synchronize the time and time zone of the current PC.
Daylight saving time	After checking and opening, daylight saving time can be opened, and the start and stop time of daylight saving time can be set.
NTP settings	Protocol for setting up computer time synchronization
Enable	After checking "Enable", the NTP protocol starts and the start and stop time of daylight saving time can be set.
NTP server	The address of the device's current NTP server

port	The current port name of the device
Calibration interval	time For setting the calibration interval of equipment, the interval can be set to 1 ~ 1440 minutes, default to 60 minutes.

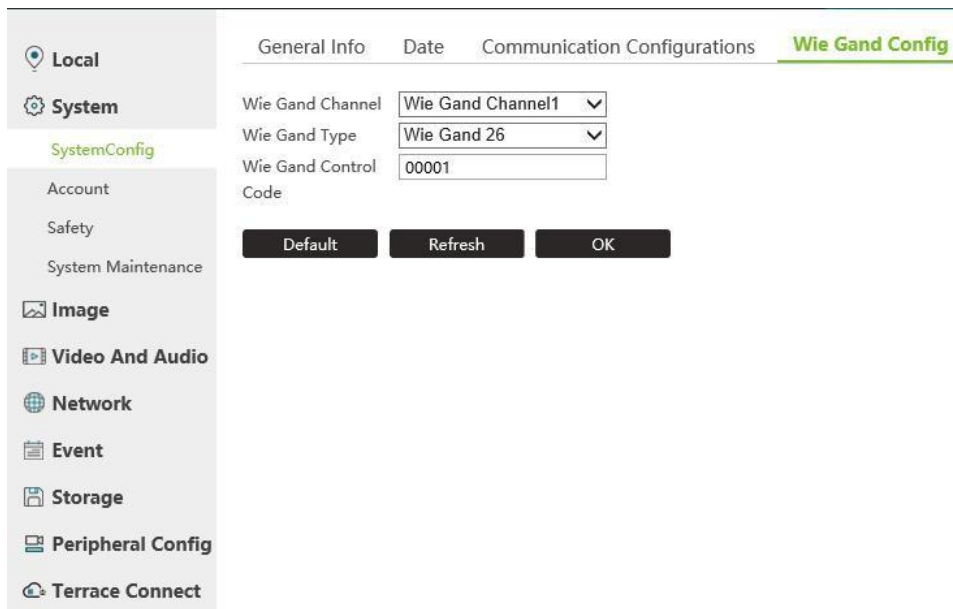
8.1.3 Communication Configurations(only FI710)

The serial interface is used to configure the parameters of RS485 serial port and to match the interface. Customers can set the connection according to the actual environment.

Port baud rate and protocol, interface as shown in the figure.

8.1.4 WieGand Config(only FI710)

The Wigan interface supports standard Wigan 26bit and 34bit protocols, which can be selected through drop-down boxes. This function is only partially supported by the model.

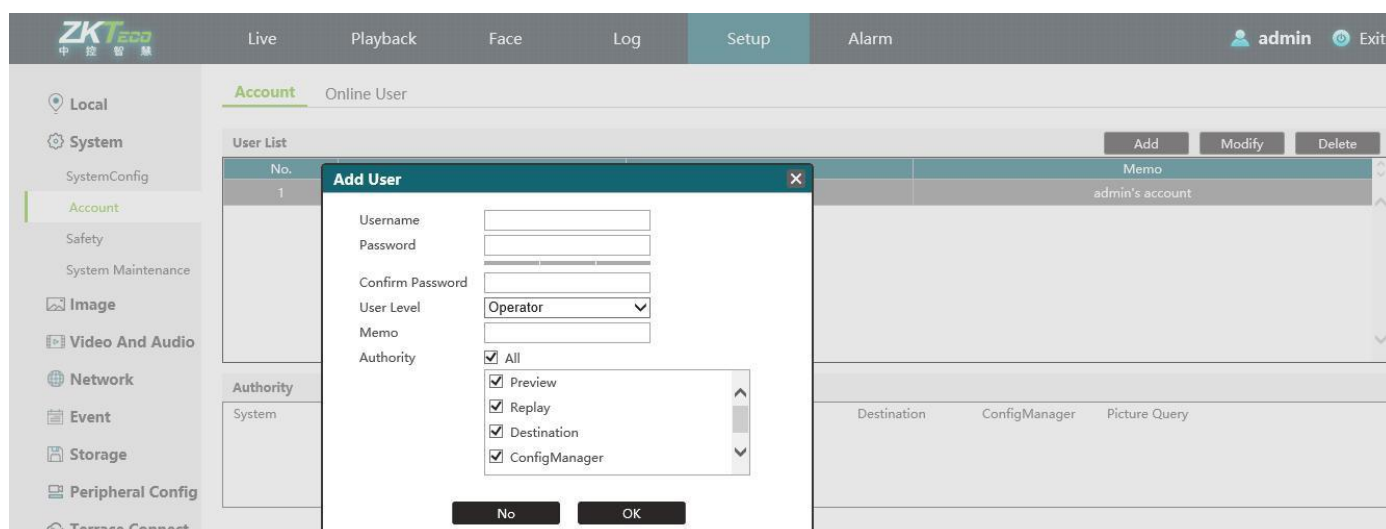


8.2 Account

8.2.1 Account

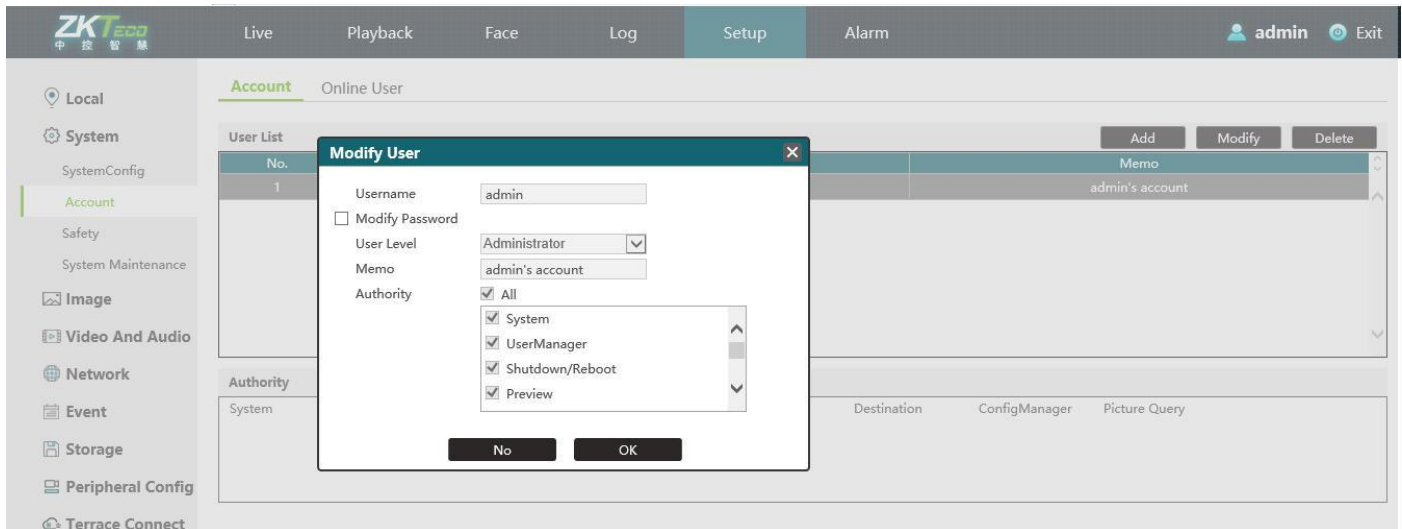
8.2.1.1 Add User

In the user management interface, click the "Add" button to enter the add user interface. In this interface, enter the user name and password. User level can select "operator" and "ordinary user". After checking the user rights, click "Save" to complete the user add. The interface is shown in the figure.



8.2.1.2 Modify User

Select the user line that needs to be modified in the user management interface, and click the "Modify" button to enter the Modified User Interface, where passwords, user levels and permissions can be changed. The interface is shown in the figure.

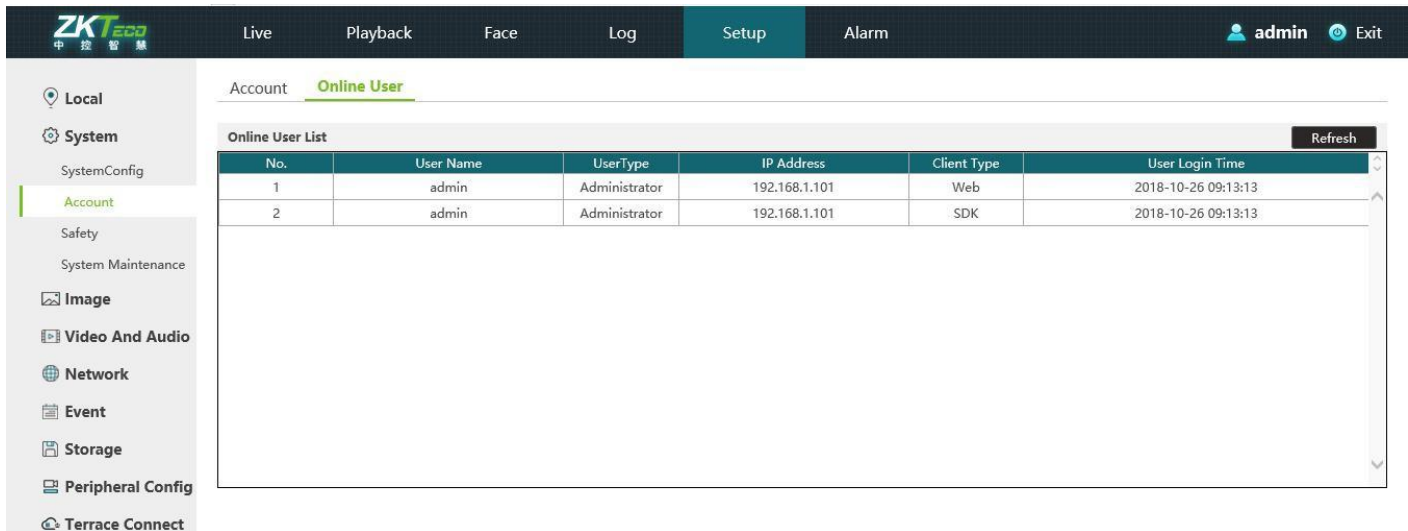


8.2.1.3 Delete User

Select the user that needs to be deleted in the user management interface, click the Delete button to pop up the confirmation dialog box, and click OK to delete the user.

8.2.2 Online User

The online user interface is used to display all user information logged on to the camera, including serial number, logged-in user name, user type, IP address, client type and user logon time. Click "Refresh" to refresh the current user information instantly. The interface is shown in the figure.



8.3 Safety

8.3.1 IP Address Filter

IP address filtering interface is used to set the filtering mode of IP address, add, modify and delete IP address. The interface is shown in the figure.

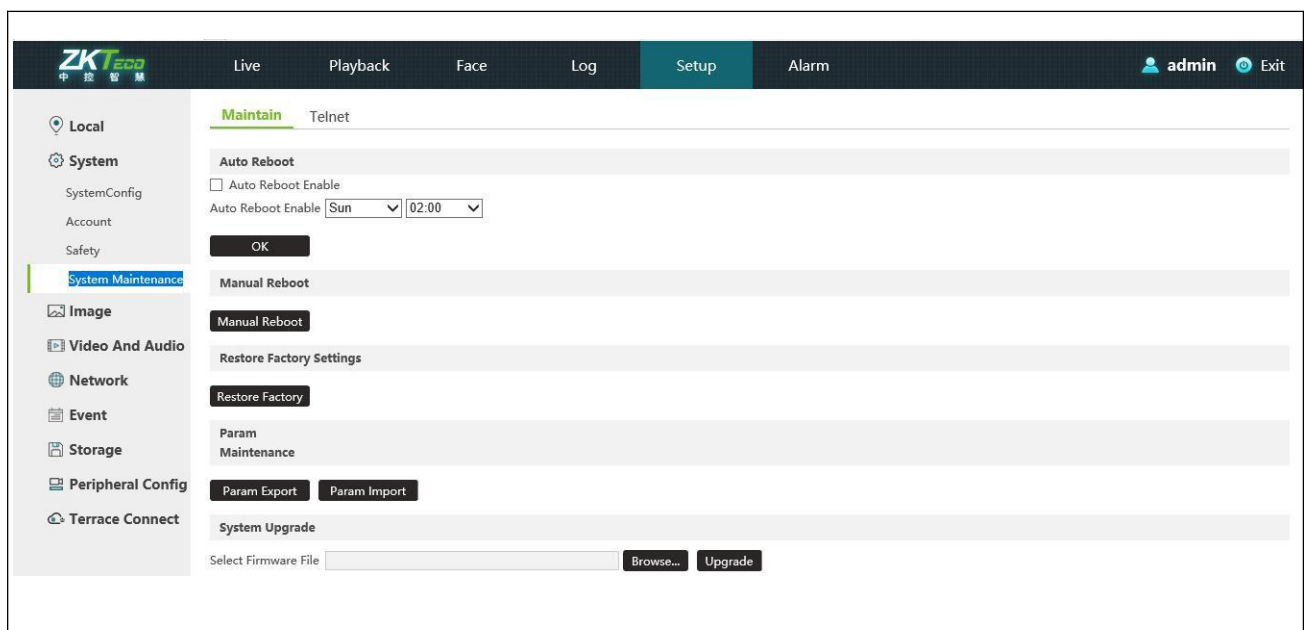
Function	Instruction
IP address filtering method	<p>IP address filtering can be divided into no, permission and prohibition.</p> <p>No: Indicates that IP address filtering is not enabled</p> <p>Allow: Indicates that only IP added to the IP address column is allowed to access the camera.</p> <p>Prohibit: Indicates that only IP added to the IP address column cannot access the camera.</p>

Add	In the security management interface, clicking the Add button will enter the Add IP interface.
Modify	Select the IP that needs to be modified in the IP address column, and click the "Modify" button to enter the Modify IP interface.
Delete	Select the IP that needs to be deleted in the IP address column, click the Delete button to pop up the confirmation dialog box, and click OK to delete the IP.

8.4 System Maintenance

8.4.1 Maintain

Maintenance interface is used for system maintenance, including automatic restart, manual restart, restore factory settings and parameter maintenance functions. The interface is shown in the figure.

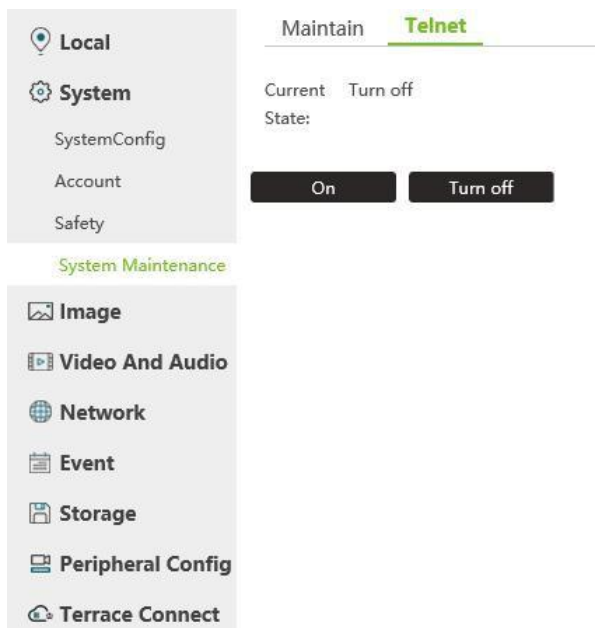


Function	Instruction
Automatic restart	After checking, the system will automatically restart at the set time.
Manual restart	The system will restart after clicking the button.
Restore factory settings	Clicking this button will restore the system to the factory default setting. Description: Network IP address related information will not restore the default.

Parameter maintenance	Parameter maintenance includes parameter import and export. This function can facilitate users to set the same parameters for equipment.
System upgrade	System upgrade includes upgrade file import and upgrade. When upgrading the system, first click "import" to import the upgrade file, then click "upgrade", the system will upgrade automatically. When the upgrade progress bar is full, it can automatically restart and prompt disconnection, and then log in after reboot, then the upgrade can be completed.

8.4.2 Telnet

The Telnet interface is used to remotely control Web-side devices, including turn-on and turn-off. The current state is turned off by default. The interface is shown in the figure.



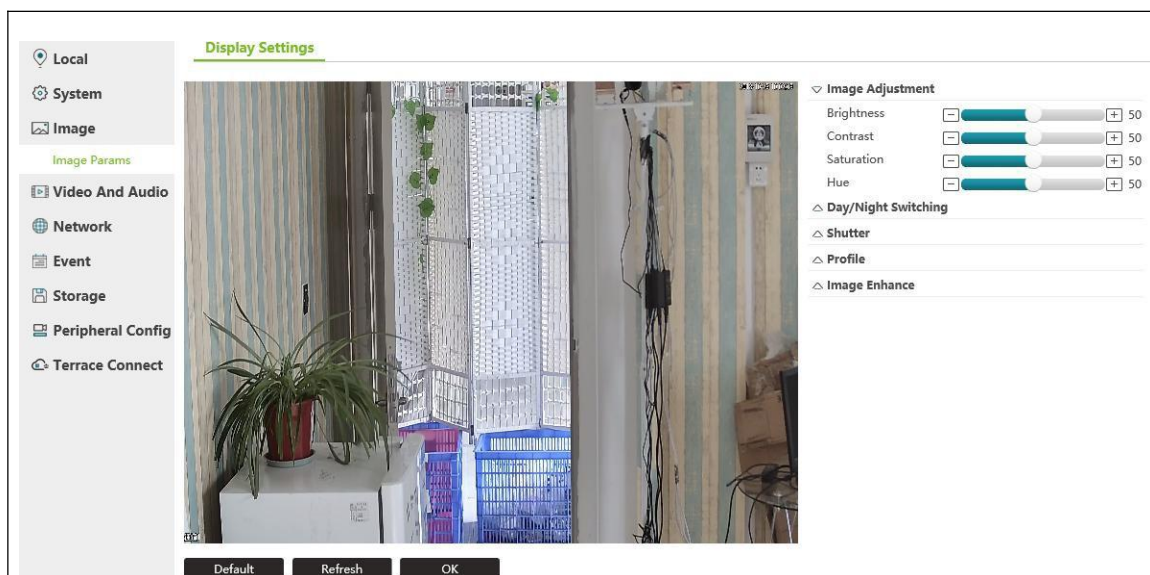
9. Image

9.1 Image Params

9.1.1 Display Settings

9.1.1.1 Image Adjustment

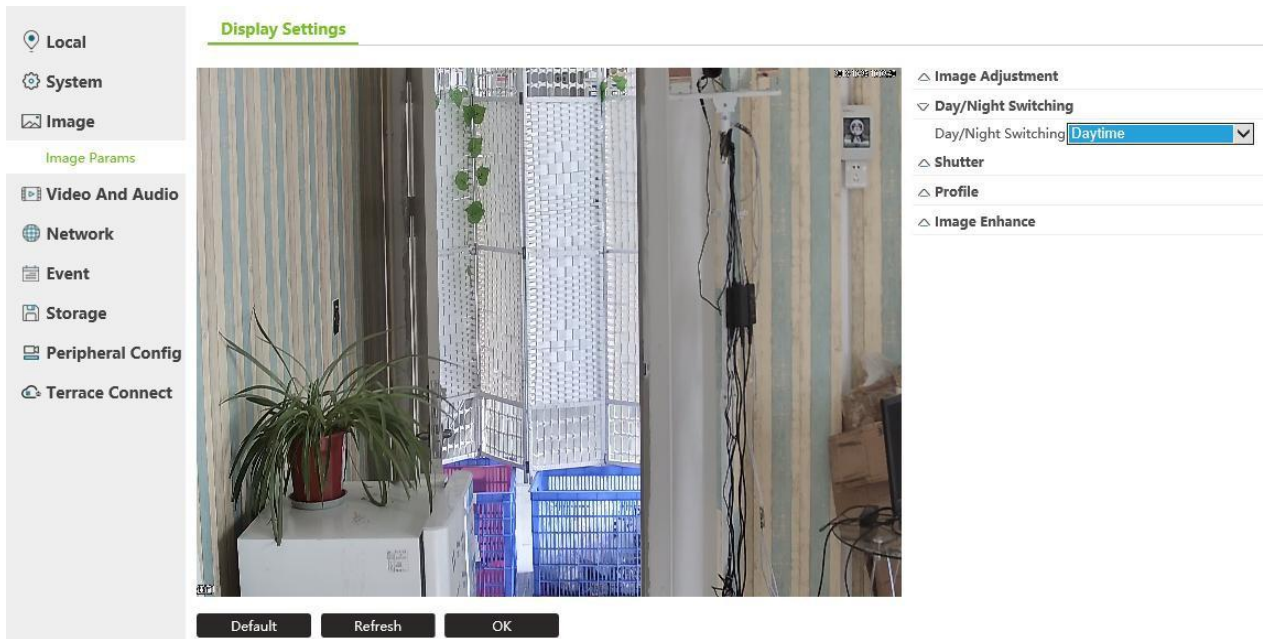
The image adjustment interface is used to set common image parameters such as brightness, contrast, saturation and chroma. The interface is shown in the figure.



Function	Instruction
brightness	Brightness button: Used to adjust the overall brightness of the image, the bigger the value, the brighter the image.
contrast ratio	Contrast button: To adjust the contrast of the image, the bigger the value, the bigger the brightness contrast of the image.
saturation	Saturation button: Used to adjust the brightness of image color, the bigger the value the brighter the color.
chroma	Chroma button: It is used to adjust the color and hue of the image, but it does not affect the overall brightness of the image.

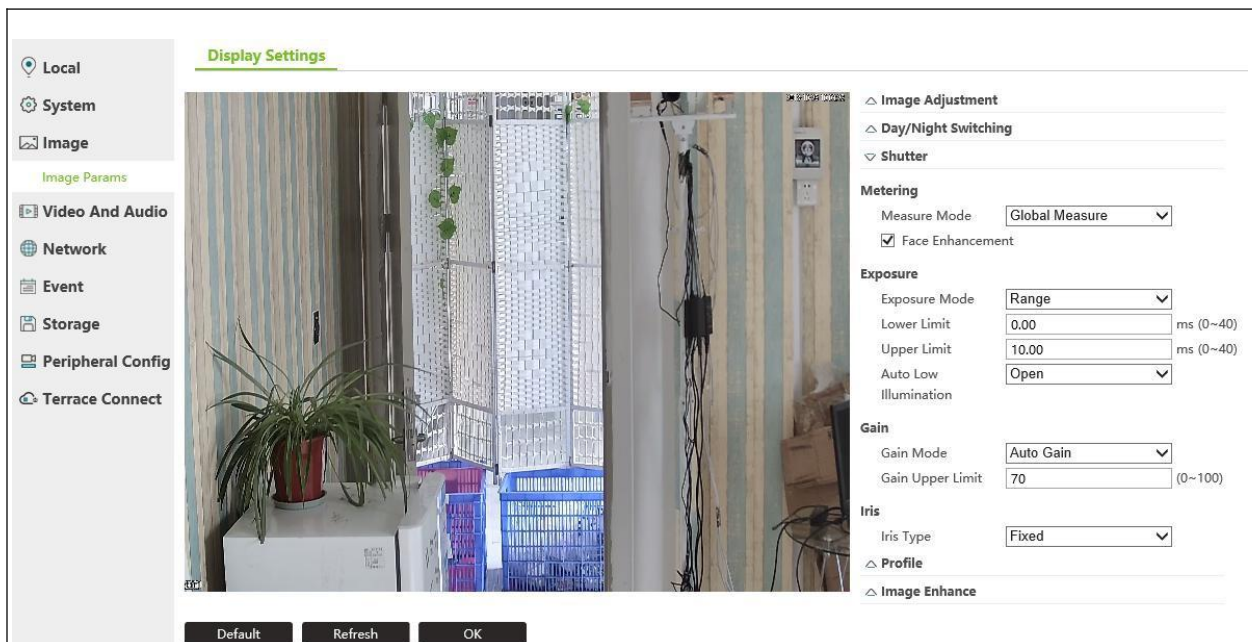
9.1.1.2 Day/Night Switching

The day-night switching interface is used to switch different scenario modes, including day, automatic and night. The interface is shown in the figure.



9.1.1.3 Shutter

The shutter setting interface is used to set shutter modes such as photometry, exposure, gain and aperture when capturing faces. The interface is shown in the figure.

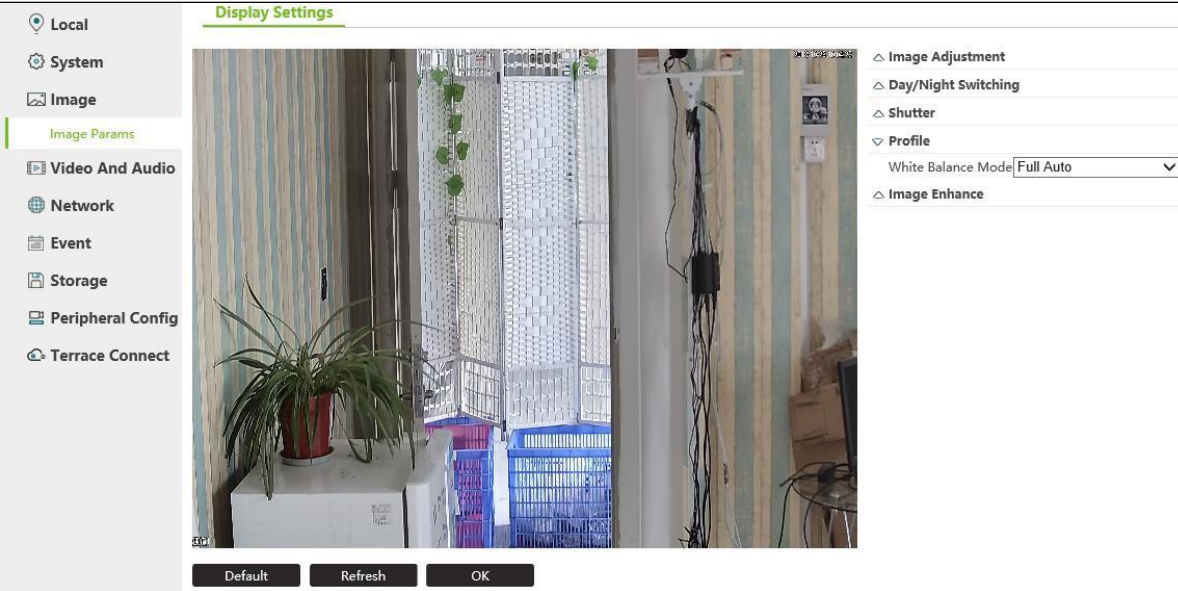


Function	Instruction
Metering	<p>Metering mode:</p> <p>Global photometry: The default setting is used to measure the brightness of the whole picture area and adjust the brightness of the whole picture intelligently according to the measurement results.</p> <p>Local photometry: It is used to measure the brightness of the set area and</p>

	<p>adjust the brightness of the whole picture intelligently according to the measurement results. If the test area is lighter, the whole darkens; if the test area is darker, the whole brightens.</p> <p>Backlight compensation: Enabling backlight compensation will enhance the brightness of the dark part of the picture backlight.</p> <p>Strong light suppression: When there is a certain degree of strong light in the picture, the use of strong light suppression can prevent the picture from overexposure.</p>
exposure	<p>Exposure mode:</p> <p>To adjust the exposure effect, the exposure mode is divided into automatic manual, custom value and custom interval. If the user defined interval is selected, the switch of automatic low illumination will be displayed.</p>
gain	<p>Gain mode:</p> <p>It is used to control image signal so that it can output standard video signal in different illumination environment. The bigger the value is, the higher the brightness is, the bigger the noise point will be.</p> <p>The gain modes are divided into automatic gain and fixed gain.</p>
aperture	<p>Aperture settings:</p> <p>Aperture type: According to the current use of the lens to choose aperture type, the current choice of DC aperture and fixed aperture;</p> <p>Manual aperture: After checking the "manual aperture", the switch of the aperture can be adjusted by dragging the slider.</p>

9.1.1.4 White Balance Mode

The white balance interface is used to adjust the monitor screen in different color temperature environment and restore the white object.

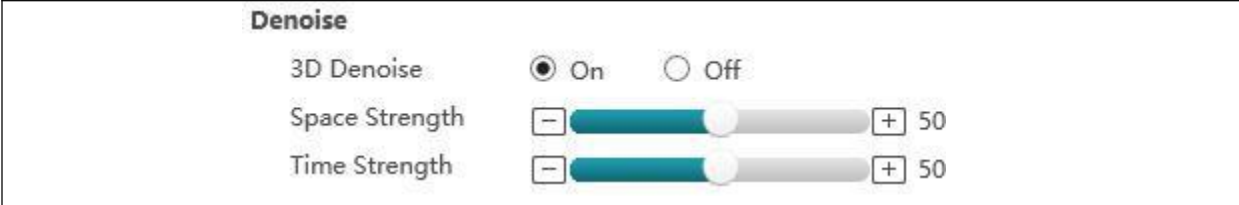
	
Function	Instruction

automatic	It is divided into automatic, high color temperature, low color temperature automatic color temperature and local automatic. The local automation function is suitable for the user to draw the region separately under the complex color temperature environment for white balance processing.
Custom temperature	Custom color temperature can be set, and the red gain and blue gain can be adjusted according to the ambient color temperature. Customization: Customization is divided into home, office, night and custom color temperature. Among them, home is suitable for about 5000K color temperature environment, office is suitable for about 4400K color temperature environment, night is suitable for about 2800K color

9.1.1.5 Image Enhance

9.1.1.5.1 Denoise

Noise reduction interface is used to reduce video noise points. The interface is shown in the figure.

	
3D noise reduction	If "Enable" is checked, the 3D noise reduction function will be turned on to reduce the video noise, which is suitable for low illumination scenes.
Airspace intensity	It is used to control the denoising level of video image in spatial domain.
Time strength domain	It is used to control the denoising level of video image in time domain.

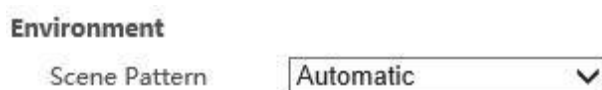
9.1.1.5.2 Scene

Scenario interface is used to set image parameters of different scenarios in order to meet the needs of image effects in different scenarios. The interface is shown in the figure.

<div> <div>Scene</div> <div> <div>Switch Mode</div> <div>Switch by Brightness</div> <div>Current: Daytime Current Brightness: 46</div> </div> <div> <div>Scene</div> <div>Daytime</div> </div> <div> <div>Sharpness</div> <div> <div></div> <div></div> <div>50</div> </div> </div> <div> <div>WDR</div> <div> <div></div> <div></div> <div>24</div> </div> </div> <div> <div>Gamma Mode</div> <div> <div></div> <div></div> <div>2</div> </div> </div> <div> <div>Defog Mode</div> <div>Turn off</div> </div> </div>	
Function	Instruction
Switching mode	For switching different scenario modes, scenario modes include no switching, switching according to brightness, forcing daytime, forcing other and forcing night.
scene	Used to switch to different scenarios to modify the corresponding parameters, divided into day, night and evening.
Sharpness pattern	To adjust the sharpness of image edge, the bigger the value, the more obvious the edge of the image, but when the value is set larger, the image is prone to noise.
Wide dynamic	It is used to reduce the brightness of the high brightness area and improve the brightness of the low brightness area, so that the high brightness area and the low brightness area can be clearly displayed at the same time.
Gamma mode	It is used to change the brightness of the image by non-linear adjustment and improve the dynamic display range of the image. The bigger the value, the brighter the image.
Fog mode	penetration 1. Close: do not open the fog permeability function; 2. Automation: The system automatically adjusts the definition of the image according to the actual scene. 3. Manual: The system adjusts the sharpness of the image according to the intensity set manually.

9.1.1.5.3 Environment(only FI710)

The environment interface is used to adjust the monitoring environment of the equipment, including automatic and indoor. The interface is shown in the figure.



9.1.1.6 Video Adjust(only FC700, FI700)

The video adjustment interface is used to adjust the angle of the video interface. Customers can adjust the video interface in three modes: flip, mirror and rotate according to their needs. The interface is shown in the figure.

▼ Video Adjus	
Flip	Off ▼
Mirror	Off ▼
Rotate	No Rotate ▼

10. Video And Audio

10.1 Stream Setting

10.1.1 Video

Video stream interface is used to set the coding parameters of the stream. Auxiliary stream 1 and Auxiliary stream 2 can be opened or closed according to the actual needs. The interface is shown in the figure.

The screenshot displays the 'Video And Audio' configuration window. On the left is a sidebar with navigation options: Local, System, Image, Video And Audio (selected), Stream Setting (highlighted), OSD Config, Network, Event, Storage, Peripheral Config, and Terrace Connect. The main area has tabs for Video, Snapshot, Audio, Interest Area, and Water Mark. The 'Video' tab is active, showing settings for 'Code-Stream Type' (Main Stream), 'Enable' (checked), 'Resolution' (1080P (1920*1080)), 'Video Encode' (H.264H), 'Rate Type' (CBR), 'Video Frame Rate' (25 fps), 'Video Rate' (4096 Kbps), 'I Frame Interval' (50, range 25~150), and 'SVC' (1(off)). At the bottom are 'Default', 'Refresh', and 'OK' buttons.

Video		Snapshot	Audio	Interest Area	Water Mark
Code-Stream Type	Main Stream ▼				
<input checked="" type="checkbox"/> Enable					
Resolution	1080P (1920*1080) ▼				
Video Encode	H.264H ▼				
Rate Type	CBR ▼				
Video Frame Rate	25 ▼				fps
Video Rate	4096 ▼				Kbps
I Frame Interval	50				(25~150)
SVC	1(off) ▼				

Default Refresh OK

Function	Instruction
Bitstream type	It is divided into main stream, auxiliary stream 1 and auxiliary stream 2.
Enable	Check Enables by default.
Resolving power	Customers can choose according to the requirements of video clarity. The higher the resolution, the higher the bandwidth requirement of the network. Different product models and different resolutions are supported. Please refer to the actual page display.
video coding	The coding modes currently supported are H.264B, H.264M, H.264H, MJPEG and H.265.
Rate type	At present, the supported stream types are variable stream and fixed stream. If the client chooses the fixed bit stream mode, the value is fixed. If the variable bit stream mode is selected, the value is the upper limit of the bit stream. The higher the frame rate, the wider the range of the stream system. The range of bitstream varies with different encoding methods.
Video Frame Rate (FPS)	Customers can set the frame rate according to the actual bandwidth. The higher the frame rate, the higher the bandwidth required and the higher the storage space required. The maximum frame rate supported varies with the product type. Please refer to the actual page display.
Video Bit Rate (KBPS)	At present, the supported video bitrates are 1024, 1280, 1536, 1792, 2048, 4096, 6144 and self-definition. Customers need to set up according to the actual page.
I frame interval	Used to set the number of frames before and after two key frames. The larger the I frame interval, the smaller the fluctuation of the stream, but the image quality is relatively poor.
SVC	It is used to extract video frames and reduce storage space. Video files after extracting frames still support normal decoding.

10.1.2 Snapshot

Picture stream interface is used to set image resolution, image size and fixed size. The interface is shown in the figure.

Video	Snapshot	Audio	Interest Area	Water Mark
Resolution	1080P (1920*1080) ▼			
Pic Size	Fixed Size ▼			
Fixed Size (KB)	300 ▼			
<div>Default</div> <div>Refresh</div> <div>OK</div>				

Function	Instruction
Resolving power	Customers can choose according to the requirements of video clarity. The higher the resolution, the higher the bandwidth requirement of the network. Different product models and different resolutions are supported. Please refer to the actual page display. The maximum resolution of the picture is based on the specific product.
Picture size	It is divided into fixed size and automatic. When you choose the fixed size, you can set the fixed size of the picture. When the selection is automatic, the image quality can be set. The bigger the value, the higher the quality.
Fixed size	According to the size of the picture, the fixed size of the picture can be set.

10.1.3 Audio

10.1.3.1 Audio

 Note: Only some products support audio function.

Video	Snapshot	Audio	Interest Area	Water Mark
<div>Audio</div> <div>Code-Stream Type Main Stream ▼</div> <div><input type="checkbox"/> Enable</div> <div>Audio Encode PCM ▼</div> <div>Frequency / Depth 16000/16 ▼</div>				
Function	Instruction			

Bitstream type	This option is not set and defaults to "main stream"
Audio coding	At present, PCM, G. 711A and G. 711Mu are the supported coding modes.
Sampling frequency / depth	At present, 8K000/16bit and 16000/16bit are optional.

10.1.3.2 Audio Input

Audio input interface is used to adjust channel number and device mode. The interface is shown in the figure.



Audio Input	
Channel NO.	1
Device Mode	Line In

Function	Instruction
Channel number	This option is not set and defaults to "1".
Device mode	The current supported device modes are linear input and microphone input.

10.1.3.3 Audio Output

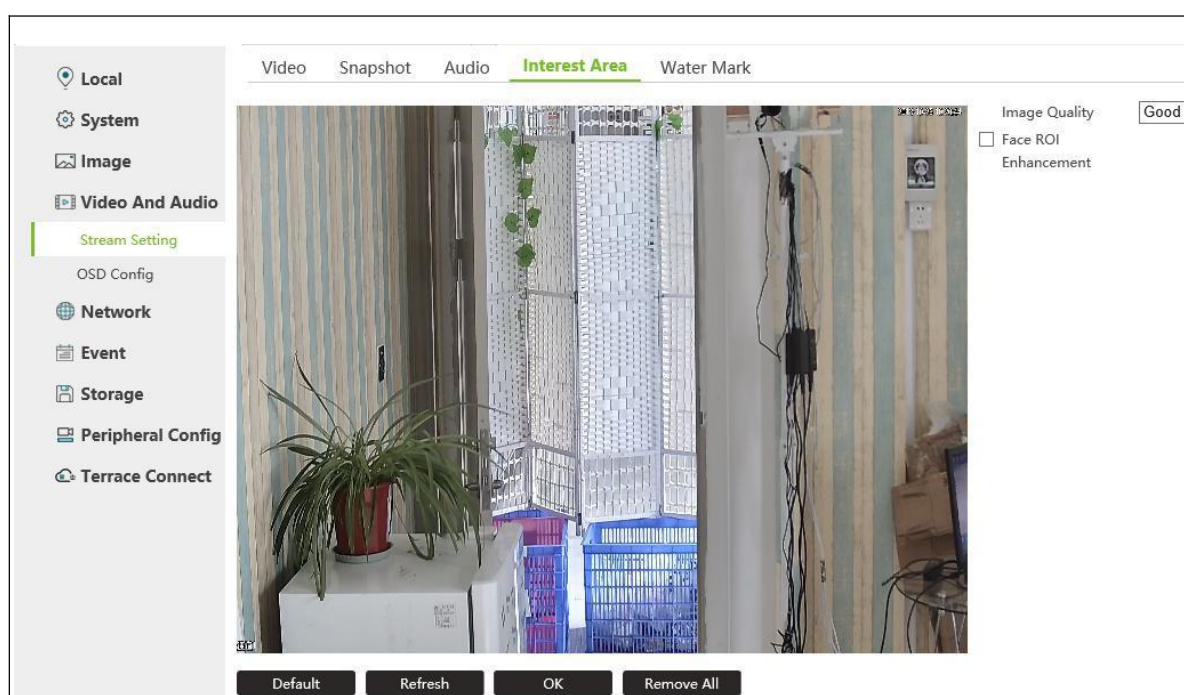
The audio output interface is used to adjust the channel number and volume. The interface is shown in the figure.

Audio Output	
Channel NO.	1
Sound	<div> <div>-</div> <div></div> <div>+</div> <div>50</div> </div>

Function	Instruction
Channel number	This option is not set and defaults to "1".
volume	To adjust the volume of the audio,  click "-" to reduce the volume, and click  "+" to increase the volume.

10.1.4 Interest Area

The region of interest interface is used to set up the region of interest, with a maximum of four regions. After the camera is set, the image coding quality of the selected area will be improved to ensure the image quality of the selected area. The interface is shown in the figure.



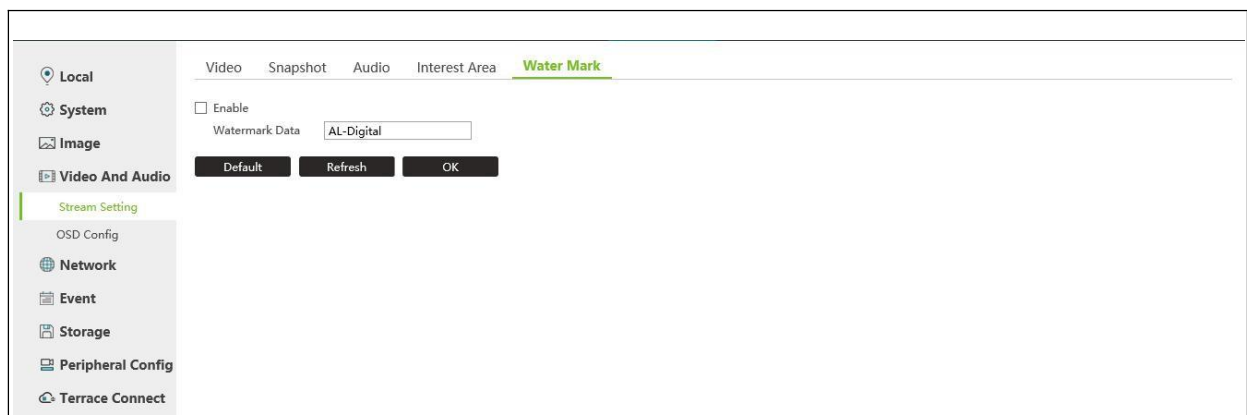
Function	Instruction
image quality	For setting image quality, the bigger the image quality value is, the better the image quality is.
Face ROI enhancement	Used to enhance the region of interest of human face.
default	Used to restore default settings.

Refresh	Used to refresh the set region of interest
confirm	Used to determine all set regions of interest.
empty	Used to delete all set regions of interest.

10.1.5 Water Mark

You can customize the content of the watermarking, click Enable and make sure that the watermarking will be added automatically in the video. Video Watermarking Function to Prevent Video from Being Non-existent

Law tampering. Watermarking verification function can be used to verify the integrity of the video, and the interface is shown in the figure.



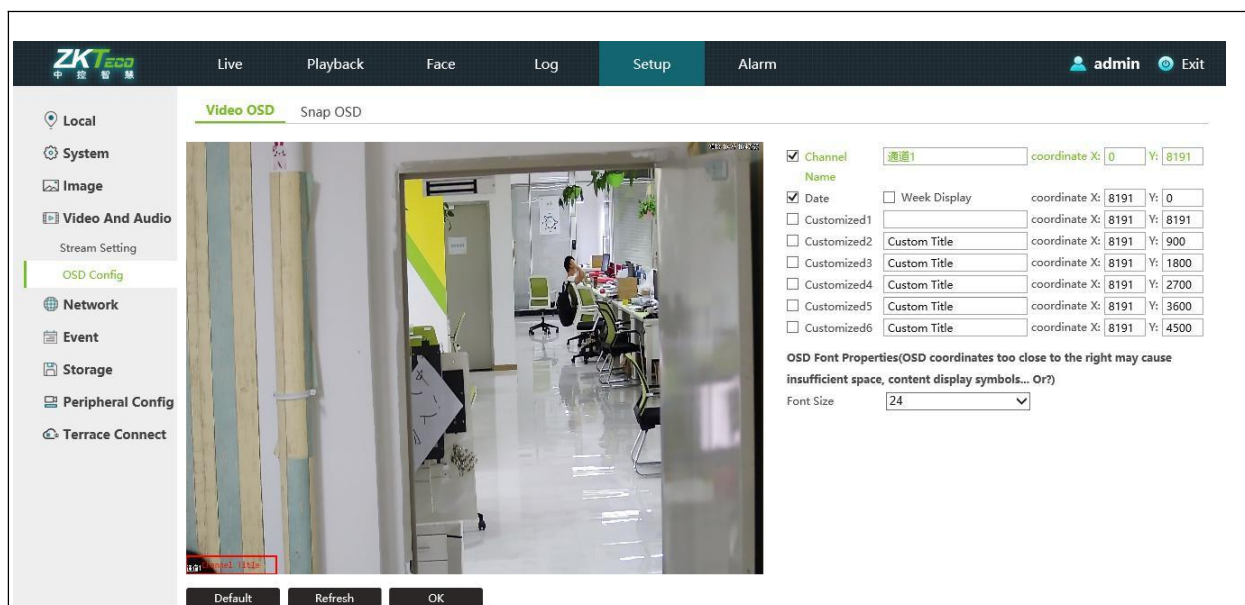
Function	Instruction
Enable	If enabling is checked, watermarking will be added to the pictures, videos and audio produced by the client equipment; if not, watermarking will not be added to the pictures, videos and audio produced by the client equipment.
Watermark content	This setting can change the watermarking content.
Default	Used to restore default settings.
Refresh	Used to refresh the set region of interest

Comfirm	Used to determine all set regions of interest.
---------	--

10.2 OSD Config

10.2.1 Video OSD

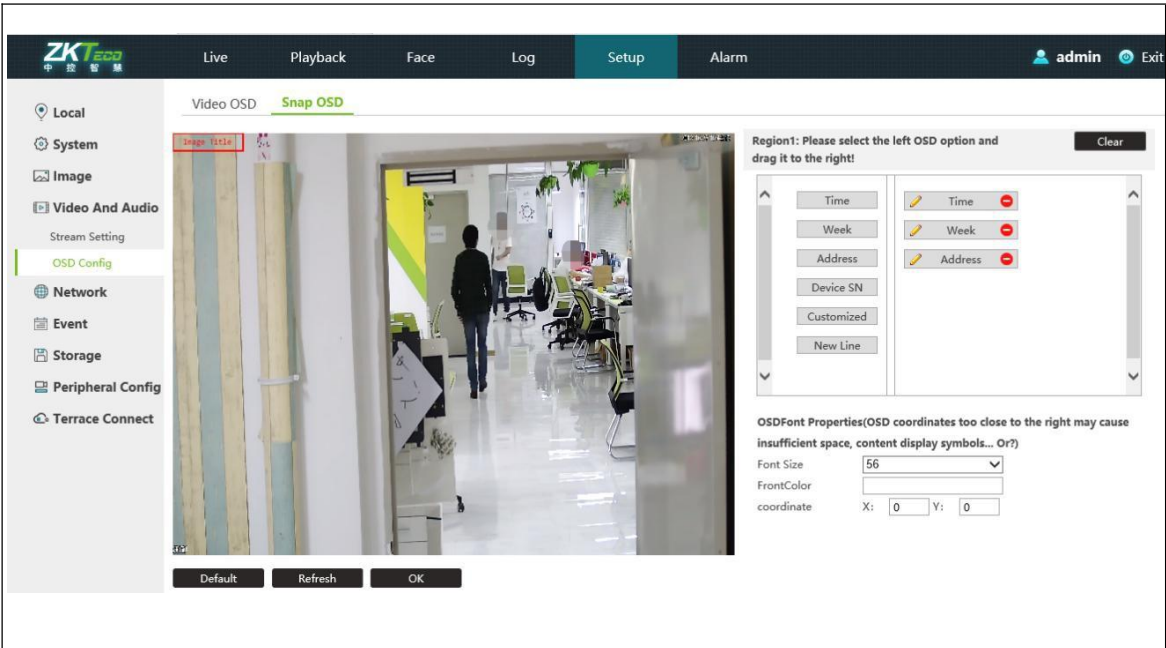
Video OSD interface is used to set OSD information of video channel, including channel name, date, week, etc. The interface is shown in the figure.



Function	Instruction
OSD info	Customers can display OSD information by checking "Display Name" "Display Date", "Display Week" or "Custom*", at which time they can drag the red box of OSD or enter coordinates directly to change the position of OSD
OSD font size	Customers can adjust OSD font size according to actual needs. The OSD font sizes are different for different product models. Please refer to the actual page display.
OSD Font scheme	Customers can adjust OSD font schemes according to actual needs. The font schemes include elegant black, italic and song styles.。
Default	Click "Default" to restore to default.
Refresh	Click "Refresh" to refresh the settings to the left preview window.
Comfirm	Click "Confirm" to save the settings.

10.2.2 Snap OSD

The picture OSD interface is used to set the OSD information of the picture, including time, week, place, etc. The interface is shown in the figure.



Function	Instruction
OSD info	<p>Increase picture title: Client can choose any area of the picture to drag the mouse to increase the picture title.</p> <p>Delete picture title: Client can select a picture title, right-click, you can delete the current picture title.</p> <p>Moving picture titles: Customers can drag the red box of OSD or enter coordinates directly to change the position of picture titles.</p> <p>Edit picture title: The customer can select a picture title and change the information of the picture title by modifying the content on the right side of the interface.</p>
OSD font size	Customers can adjust OSD font size according to actual needs Product models are different, supporting OSD font sizes are also different.
OSD Font scheme	Customers can adjust the OSD font scheme according to actual needs. The font scheme includes elegant black, regular script and Song style.
OSD Font color	Customers can adjust the OSD font color according to actual needs.

11. Network

11.1 Network

11.1.1 TCP/IP

The TCP/IP configuration interface is used to set the device's login IP. IPv4 supports static IP and DHCP to dynamically acquire IP. The interface is shown in the figure.

TCP/IP

Connection

Ethernet Card

eth0

☒ Set as Default Card

MAC Address

2c:28:b7:00:0d:93

MTU

1500

IPv4

☐ DHCP

IPv4 Address

192 . 168 . 1 . 41

IPv4 Subnet Mask

255 . 255 . 255 . 0

IPv4 Default Gateway

192 . 168 . 1 . 1

Preferred DNS

114 . 114 . 114 . 114

Alternate DNS

8 . 8 . 8 . 8

IPv6

Link Address

fe80::2e28:b7ff:fe00:0d93/64

IPv6 Address

::

/1

IPv6 Default Gateway

::

Preferred DNS

::

Alternate DNS

::

Refresh


OK

Function	Instruction
Network card	Network cards are divided into eth0 and wlan0. eth0: Cable network card. The system defaults to cable network card See Section 1.1 for cable connection. WLAN 0: wireless network card, wireless connection mode see section 1.2.
Mode	The mode is divided into static mode and DHCP mode. Static mode: If you choose this mode, you need to set IP address subnet mask and default gateway manually. DHCP mode: If this mode is selected, IP address, subnet mask and

		default gateway will become unset, and the system will automatically acquire IP.
IP address		Device IP address.
Subnet mask		The subnet mask corresponding to the device IP address.
Default gateway		The default gateway corresponding to the device IP address.
Preferred DNS server	DNS	DNS server IP address.
Standby DNS server		DNS Server Standby IP Address.

Steps for configuring WiFi wireless connections:

1. The antenna attached to the equipment is assembled on the antenna interface of the equipment.
2. To enable WiFi wireless function, we must select the network card as wlan0, and then set the IP address.
3. Enter the configuration page of the router and configure the wireless parameters.
4. Connect the equipment and computer as follows.
5. After configuring, the device will automatically scan out the wireless hotspot, select the WiFi hotspot of the router, enter the password and other information, and click Connect. See Section 11.3.1 for configuration

 Note: Cable network card and wireless network card can not be set in the same segment. The default network card is wired. Even if the wireless network card has DHCP, it can still login to the web interface through the fixed IP address set by the wired network card.

11.1.2 Connection

The port interface is used to set the ports needed for network access settings. The interface is shown in the figure. Customers should not modify the default port parameters at

will. When there is port conflict and port number needs to be changed, please modify the instructions in the table below.

TCP/IP

Connection

HTTP Port

80

(1025~65535Or80)

RTSP Port

554

(1025~65535Or554)

Service Port

3000

(1025~65535Or27778)

Default

Refresh

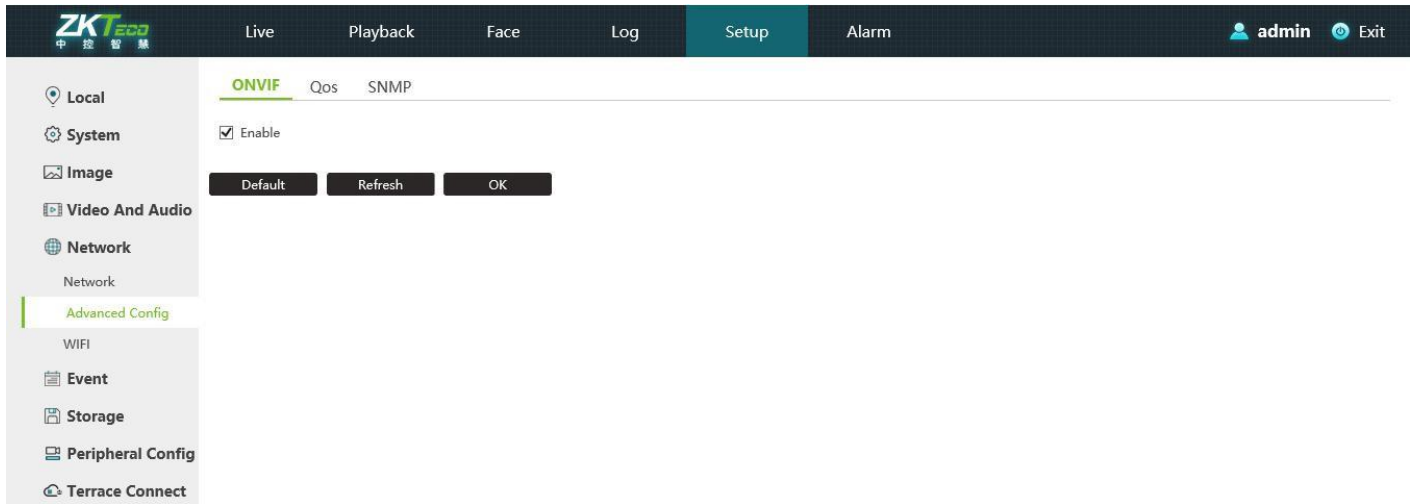
OK

Function	Instruction
HTTP port	When using browser to log in, you need to add a modified port number after the address. For example, after changing HTTP to 8088, when a client logs in with browser, he or she needs to enter Http://192.168.1.64:8088.
RTSP port	Real-time transport protocol ports. When modifying, customers should ensure that the modified ports are available.
Service port	The port used by the client to log in to the device. When the client modifies the service port, it needs to input the modified port number to login the device normally when using the client to login. Explain: Client refers to the third party client, such as platform, network upgrade tools, SDK and so on.

11.2 Advanced Config

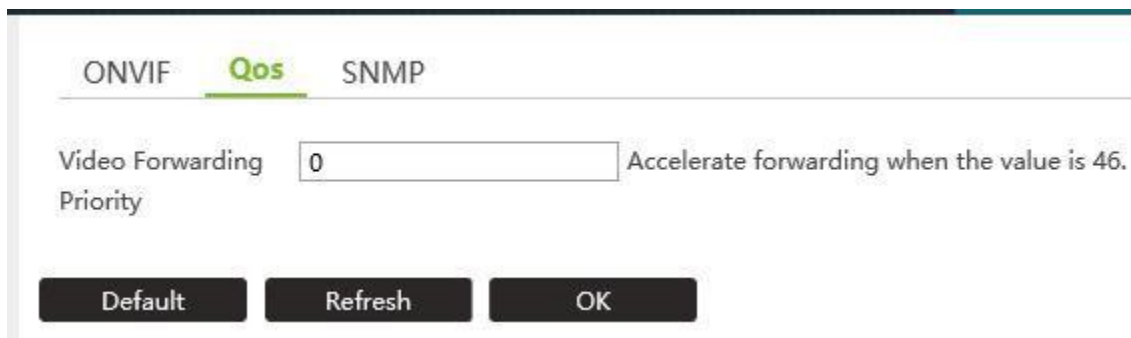
11.2.1 ONVIF

The ONVIF interface is used to set the ONVIF standard protocol enablement, which is enabled by default. The interface is shown in the figure.



11.2.2 Qos

The Qos interface is used to configure the priority of video forwarding, ranging from 0 to 63. When the value is 46, the Qos interface is accelerated. The interface is shown in the figure.



11.2.3 SNMP

The SNMP interface is used to set up the SNMP server and SNMP V1/V2/V3. The interface is shown in the figure.

ZKTeco

中控智慧

Live

Playback

Face

Log

Setup

Alarm

admin

Exit

Local

System

Image

Video And Audio

Network

Advanced Config

WIFI

Event

Storage

Peripheral Config

Terrace Connect

ONVIF

Qos

SNMP

SNMP Port

161

Trap Address

127 . 0 . 0 . 1

Trap Port

162

Trap Community

public

Heartbeat Switch

Keep Alive Circle

60

SNMP v1/v2

Enable SNMP V1

Enable SNMP V2

Read Community

public

Write Community

Private

SNMP v3

Enable SNMP V3

Security Level

Authentication And Enc

Read Security Name

readuser

Authentication Algorithm

MD5

Authentication Cipher

Private Key

DES

Private Key Cipher

Read Write Security Name

writeuser

Authentication Algorithm

MD5

Authentication Cipher

Private Key

DES

Private Key Cipher

Default

Refresh


OK

Function	Instruction	
SNMP server settings	Set server port number, Trap address and other parameters.	
SNMP V1/V2/V3	According to different versions of SNMP network management protocol, it can be checked and enabled separately and set accordingly.	

11.3 WIFI(only FI710)

11.3.1 WIFI

WIFI interface is used to set up and connect wireless network, which is convenient for users to transmit video images through wireless network when wiring is inconvenient. The interface is shown in the figure.

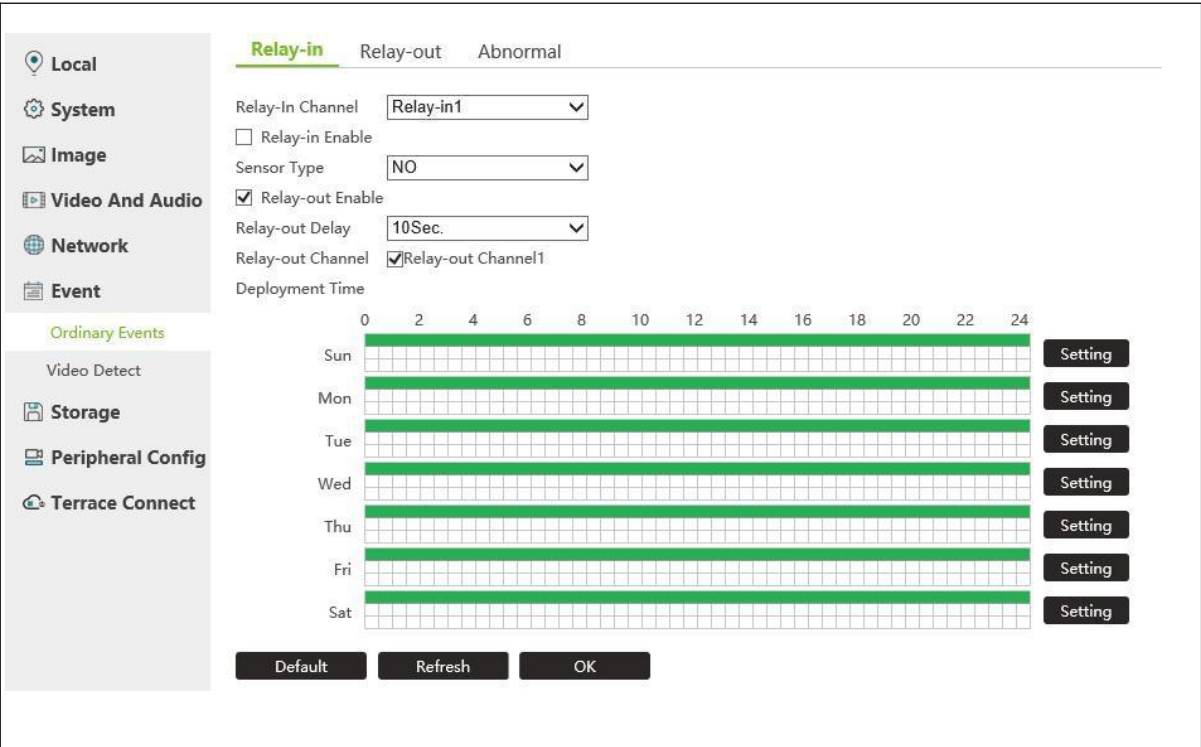
 Description: This function is only supported by some models.

12. Event

12.1 Ordinary Events

12.1.1 Relay-in

The alarm input interface is used to configure the external alarm channel, sensor type and alarm time. The interface is shown in the figure. When setting alarm linkage to an alarm output channel on other pages, the alarm function must be activated on this page before it can take effect.




Function		Instruction
Alarm input channel		At present, only one alarm input is supported.
Alarm input enable		Check "alarm input enablement" and the system will open alarm input function.
Sensor type		The types of sensors can be divided into normal open type and normal closed type. Normally open alarm: When Alarm_IN1 and G are closed, the alarm will be generated, but when opened, the alarm will not be generated. Normally closed alarm: When Alarm_IN1 and G are opened, alarm will be generated, but no alarm will be generated when they are closed.
Alarm enable	output	Check "Alarm Output Enables" and the system will open the alarm output function.

Alarm output delay	After the end of the alarm, the alarm will be extended for a period of time to stop. Customers can set the time according to their needs.
Alarm output channel	At present, only one alarm output is supported.
Deployment time	Click the "Settings" button to enter the setting of the alarm time period and the alarm will start only within the set time range. The specific method is as follows: 1. Choose the number of weeks (Sunday is the default choice; if you choose the whole week, it means that the application will be set for the whole week; you can also choose the check box before the week to set a few days separately). 2. There are six time periods for setting each day. Select the check box in front of the time period to set the time effectively. 3. Set the "OK" button at the end point, go back to the alarm linkage settings page, and click The "OK" button completes the setting of alarm linkage time period.

12.1.2 Relay-out

The alarm output interface is used to configure the external alarm output mode. At present, the mode is divided into automatic output and forced output. Customers can set the alarm output interface according to their needs. The interface is shown in the figure.

Bilingual error reporting

	
Function	Instruction
Automatic output	1. When the alarm is often on or off, the system will output alarm. 2. When the face capturing alarm enabled to check, the system will output alarm when capturing face pictures to generate alarm. 3. The system will not output alarms when there is no frequent opening and closing and face snapping.

Mandatory output	Whether or not the alarm is generated by the regular opening and closing and the face snapping, the system will always output the alarm.
------------------	--

12.1.3 Abnormal

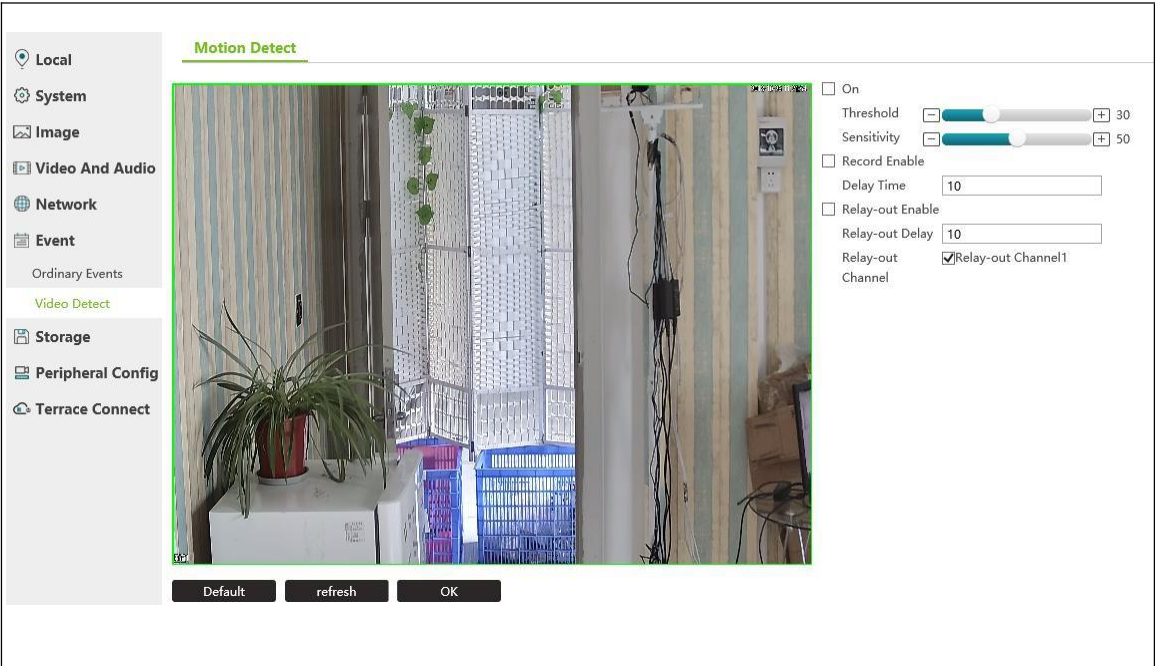
The abnormal interface is used to set the abnormal type, video recording and output of the alarm which will trigger the alarm. The interface is shown in the figure.

Function	Instruction
Exception type	1. Abnormal types include IP conflict and network disconnection. 2. The excluded network cards are eth0 and wlan0. Customers choose them according to their actual needs.
Video enabled	1. Check "Video Enabling" and the system will turn on the video function. 2. Customers can set alarm output "preview time" and "delay time" according to actual needs. When the device detects abnormalities, the video is recorded according to the pre-recording and delay time settings. 3. Video is stored on SD/TF card by default.
Alarm enable	1. Check "Alarm Output Enabling", the system will open the alarm output function. 2. Check the alarm output enablement. When the equipment detects abnormalities, the alarm signal is output to the corresponding alarm output channel according to the settings.

	3. Alarm output channel: At present only support alarm output channel 1.
--	--

12.2 Video Detect

12.2.1 Motion Detect



Function	Instruction
Enable	Use the mouse to preview the small window on the left to delineate the motion detection area, and then check to enable, then start the motion detection in the selected area. The detection threshold and sensitivity can be set. The lower the threshold, the easier to detect the higher the sensitivity, the smaller the detection particle size.
Video enabled	Check "Video Enabling" and turn on the video after detecting the moving object in the detection area. Video is stored on SD/TF card by default.
Alarm enable	<p>output</p> <p>1. Check "Video Output Enables", then detect moving objects in the detection area and output alarm to the corresponding alarm channel.</p> <p>2. Delay of alarm output: After the end of the alarm, the alarm will be extended for a period of time to stop. Customers can set the time according to their needs.</p> <p>3. Alarm output channel: At present only support alarm output</p>

13. Storage

13.1 Plan Config

The plan configuration interface is used to set the video mode and related parameters, as shown in the figure.

Local

System

Image

Video And Audio

Network

Event

Storage

Plan Config

Storage

Peripheral Config

Terrace Connect

Record

Record Mode

Automatic

OFF

Advanced Param

Record Stream

Main Stream

General prerecord time (second)

5

Note: modifying this parameter will affect the pre recorded time input value of the rule parameters

Record Packing

Pack By Time

Record Packing

10

(5~30)min.

Time Length

Default

Refresh

OK

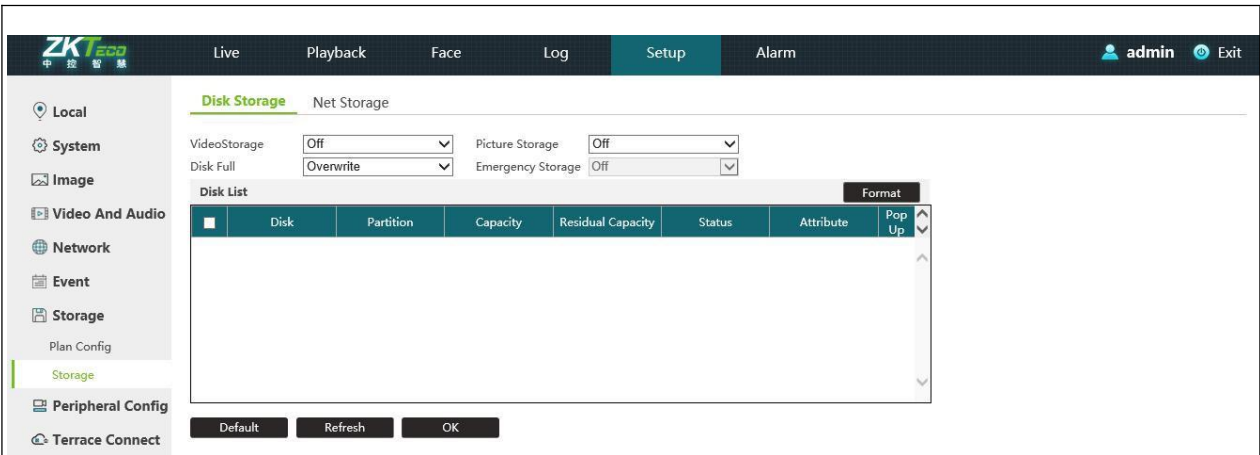
Function	Instruction
Video mode	<p>Video recording modes are divided into automatic, manual and closed modes.</p> <p>Auto: Auto video includes timing video and alarm video.</p> <p>Timing Video: In the period of deployment, the system will automatically make timing video.</p> <p>Alarm Video: In the period of deployment, and in the "Face - s parameter configuration"</p> <p>The system will automatically produce an alarm video when facial capturing is generated when the video enabled in Rule Configuration has been checked.</p> <p>Layout time: See instruction in section 12.1.1 for settings.</p> <p>Manual: After choosing this mode, the system keeps recording, and the interval of recording is the length of packaging time.</p> <p>Close: When this mode is selected, the system will not record.</p>
Video stream	Set the type of stored bit stream, main stream, auxiliary stream 1 and auxiliary stream 2 are optional.
Universal pre recording time	Set up the pre-recording time before the start time node of the video recording plan.
Video packaging method	At present, only time-length packaging is supported.

Video Packing Time Length	Set the packing time for each video file.
---------------------------	---

13.2 Storage

13.2.1 Disk Storage

The disk storage interface is used to display various storage status information of the local SD card/TF card. The interface is shown in the figure.



Function	Instruction
Video storage	There are "Open" and "Close" options. When "Open" is selected by drop-down, the storage path of the video will automatically select the local disk.
Picture storage	There are "Open" and "Close" options. When "Open" is selected by drop-down, the storage path of the video will automatically select the local disk.
Hard disk full strategy	The policy of full disk includes overwriting and stopping. Overlay: If "Overlay" is selected, the earliest videos and pictures will be covered when the hard disk is full. Stop: If you choose "Stop", the hard disk will stop recording and snapping pictures when it is full.
Emergency storage	This option is not generally open.
Format	Click the Format button, all data in the SD card will be cleared, and the device will take effect after restart. If the status of the new SD card or SD card is abnormal, please format it first and then read and write it.

13.2.2 Net Storage

The network storage interface is used to display video and picture online storage information, including the interface as shown in the figure.

Local

System

Image

Video And Audio

Network

Event

Storage

Plan Config

Storage

Peripheral Config

Terrace Connect

Disk Storage

Net Storage

Add

Delete

Reset Current

Storage Protocol

Protocol 1: Sdk

Protocol Name

Sdk

☐ Offline

Server Address

Default

refresh

OK

Function	Instruction
Add	Click Add to add a network storage protocol.
Delete	Click Add to delete the network storage protocol.
Reset current protocol	Click to reset the FTP protocol settings to the default state.
Storage protocol	At present, two storage protocols, protocol 1Sdk and protocol 1Ftp, are supported, in which protocol 1Ftp only supports the upload of snapshots.
Protocol name	Set the name of the storage protocol.
Continuous transmission of broken network	Check "off-line continuation" to open "off-line continuation" function. After of checking, the uploading file is disconnected and interrupted by the network After reconnection, the picture file stored in the front-end memory card o

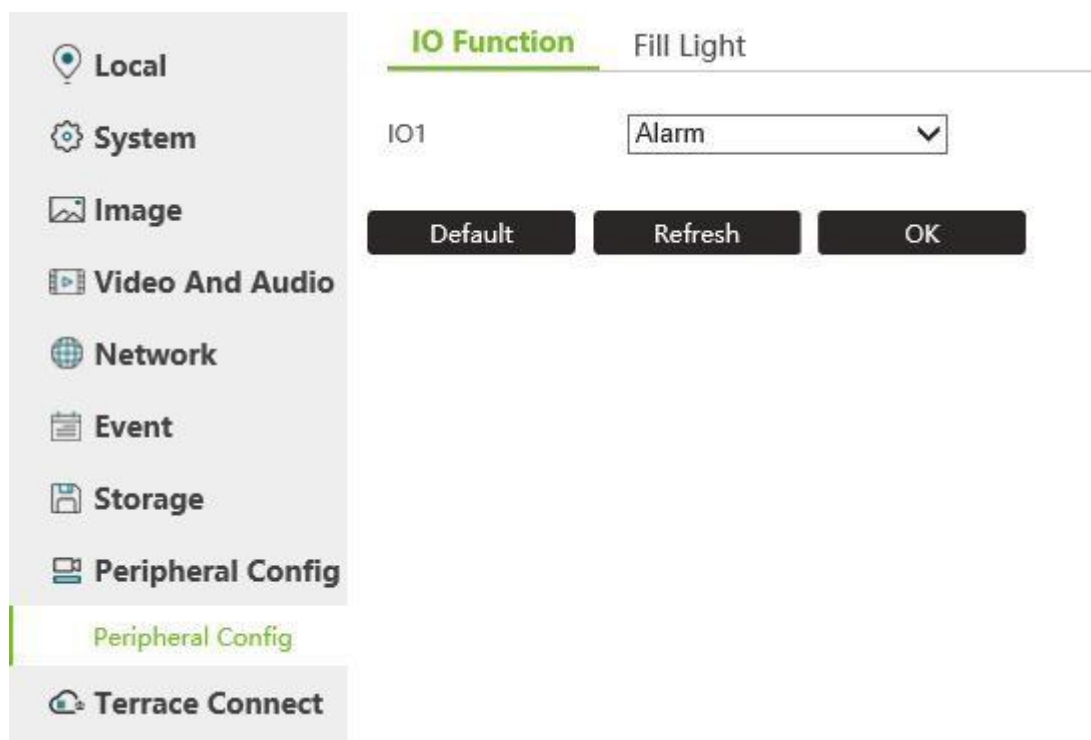
	the device can automatically continue to upload to the set server.
server address	Used to set the FTP protocol server address.

14. Peripheral Config

14.1 Peripheral Config

14.1.1 IO Function

IO port function interface is used to set the output and input functions of peripheral devices. At present, IO port 1 only supports the alarm and supplementary light function. The interface is shown in the figure.



14.1.2 Fill Light (only FI710)

The supplementary lamp interface is used to compensate the illumination of the device. The interface is shown in the figure.

Local

System

Image

Video And Audio

Network

Event

Storage

Peripheral Config

Peripheral Config

Terrace Connect

IO Function

Fill Light

IO

IO1

Work Mode

Forced Closure

Default

Refresh

OK

Function	Instruction
IO port	At present, IO port only supports IO port 1.
Working mode	At present, there are three working modes: forced shutdown, forced open and automatic.

15. Terrace Connect

15.1 GB28181

15.1.1 GB28181

GB28181 refers to "Technical Requirements for Transmission, Exchange and Control of Security Video Surveillance Networking System" (GB/T 2881-2011). This standard specifies the interconnection structure, communication protocol structure, basic requirements and security requirements of information transmission, exchange and control in security precaution video surveillance networking system. And the technical requirements of control, transmission process and protocol interface. GB2818 interface as shown in the figure, check Enabling, after setting the parameters, click Save to complete the settings.

Local

System

Image

Video And Audio

Network

Event

Storage

Peripheral Config

Terrace Connect

GB28181

Cloud Service

ZhongKong

GB28181

Enable

Status

Unconnected

SIP domain

3402000000

SIP Server IP

192 , 168 , 2 , 112

Device No.

34020000001320000001

Registered Password

••••••••

Re Registration Interval

60

Max Timeout Times

3

Civil Code

650102

Channels Info

Channel1

Channels No.

34020000001320000001

Alarm Info

Alarm Information1

Alarm ID

34020000001340000001

SIP Server No.

34020000002000000001

SIP Server Port

5060

Local SIP Server Port

5060

Register Useful-life

3600

Keep Alive Circle

60

Sigtran

UDP

Default

Refresh

OK

15.2 Cloud Service

The cloud service interface is shown in the figure. Check Enables. After setting the parameters, click Save to complete the settings.

Local

System

Image

Video And Audio

Network

Event

Storage

Peripheral Config

Terrace Connect

GB28181

Cloud Service

ZhongKong

Cloud Service

Enable

Server IP

192.168.2.68

Service Port

10000

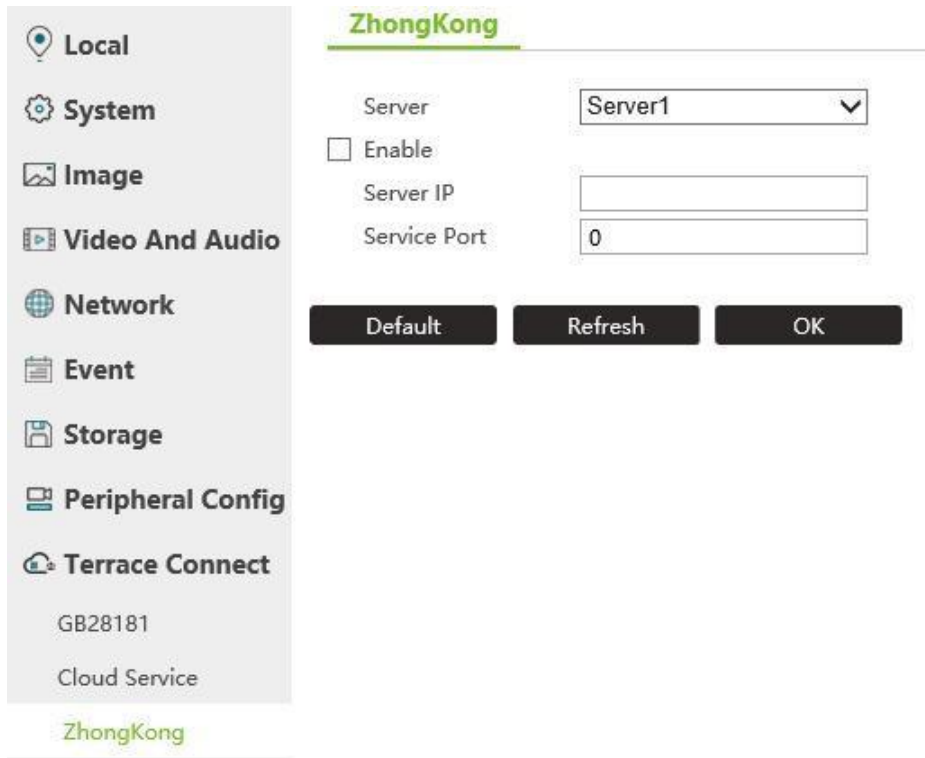
Default

Refresh

OK

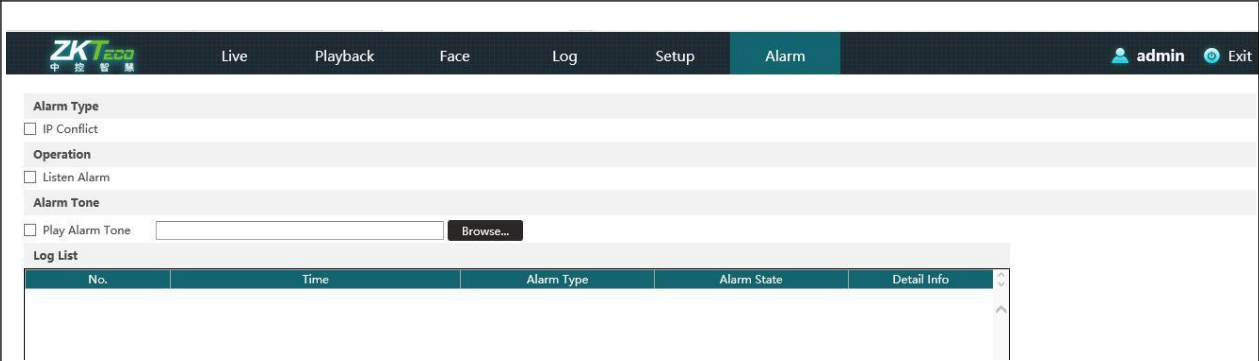
15.3 ZhongKong

At present, the interface of the central control platform only supports server 1. Check Enabling. After setting the parameters, click Save to complete the settings.



16. Alarm

The alarm interface is used to set alarm type, alarm operation, alarm sound and query alarm log. The interface is shown in the figure.

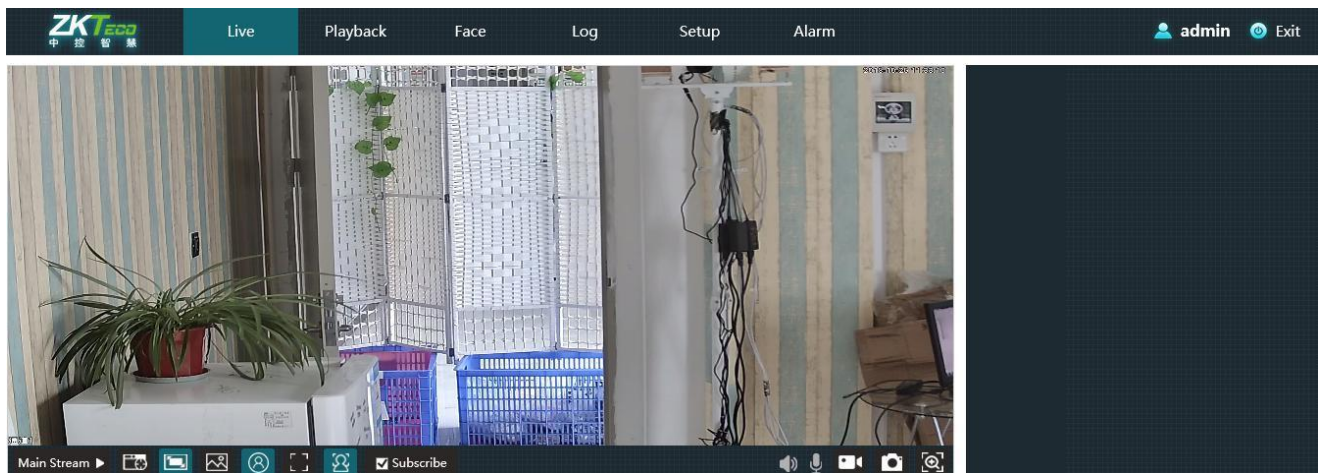


Function	Instruction
Alarm type	At present, the type of alarm only supports IP conflict. When the device IP conflict is checked, the alarm will start.
operation	At present, the operation of triggering alarm will be used as monitoring alarm. After checking, when there is "monitoring" operation, it will "trigger alarm".
Alarm sound	After checking, click Browse to select the alarm sound in the PC-side folder.

Log list	Browse and query alarm records in this list.
----------	--

17. Exit

As shown in the figure, by clicking the "Exit" button in the upper right corner of the WEB interface, the system will return to the login interface and re-enter to the required login.



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