

User's manual



KDH-ST6000P8-H1/F



THE PRODUCT MEETS THE REQUIREMENTS CONTAINED IN THE FOLLOWING DIRECTIVES:



DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIMENT AND OF THE COUNCIL of 26 February 2014 on the harmonization of the laws of the Member States relating to electromagnetic compatibility (OJ L 96, 29.3.2014, p. 79–106, with changes)

DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.



DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE) (OJ L 197, 24.7.2012, p. 38–71, with changes)



DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (OJ L 174, 1.7.2011, p. 88–110, with changes)

Information

The device, as a part of professional CCTV system used for surveillance and control, is not designed for self-installation in households by individuals without technical knowledge. The manufacturer is not responsible for defects and damages resulted from improper or inconsistent with user's manual installation of the device in the system.

ATTENTION!

PRIOR TO UNDERTAKING ANY ACTION THAT IS NOT PROVISIONED FOR THE GIVEN PRODUCT IN ITS USER'S MANUAL AND OTHER DOCUMENTS DELIVERED WITH THE PRODUCT, OR THAT ARISES FROM THE NORMAL APPLICATION OF THE PRODUCT, ITS MANUFACTURER MUST BE CONTACTED OR THE RESPONSIBILITY OF THE MANUFACTURER FOR THE RESULTS OF SUCH AN ACTION SHELL BE EXCLUDED.

1. Prior to undertaking any action, please consult the following manual and read all the safety and operating instructions before starting the device.
2. Please keep this manual for the lifespan of the device in case referring to the contents of this manual is necessary.
3. All the safety precautions referred to in this manual should be strictly followed, as they have a direct influence on user's safety and durability and reliability of the device.
4. All actions conducted by the servicemen and users must be accomplished in accordance with the user's manual.
5. The device should be disconnected from power sources during maintenance procedures.
6. Usage of additional devices and components neither provided nor recommended by the producer is forbidden.
7. You are not allowed to use the device in high humidity environment (i.e., close to swimming pools, bathtubs, damp basements);
8. Mounting the device in places where proper ventilation cannot be provided (e. g. closed lockers etc.) is not recommended since it may lead to heat build-up and damaging the device itself as a consequence.
9. Mounting the device on unstable surface or using not recommended mounts is forbidden. Improperly mounted device may cause a fatal accident or may be seriously damaged itself. The device must be mounted by qualified personnel with proper authorization, in accordance with this user's manual.
10. Device should be supplied only from a power source whose parameters are in accordance with those specified by the producer in the devices technical datasheet. Therefore, it is forbidden to supply the devices from a power source with unknown parameters, unstable or not meeting producer's requirements;
11. You cannot allow any metal objects get inside the recorder. It might cause serious damage. If a metal object gets inside the device contact the authorized Novus service immediately.
12. The manufacturer does not bear responsibility for damage or loss of data stored on HDDs or other media occurred during the usage of the product.

Due to the product being constantly enhanced and optimized, certain parameters and functions described in the manual in question may change without further notice.

We strongly suggest visiting the www.novuscctv.com website in order to access the newest manual.

Technical changes reserved without prior notice and printing errors possible.

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1 Introduction

1.1 Summary

The KDH-ST6000P8-H1/F is specially designed and developed for AI application management, like body temperature measurement management, time attendance, access control, etc. It supports real-time face capture display, temperature display and alarm out, statistics, video preview, search and playback.

1.2 Features

- ⊕ **Basic Functions**
 - Support network device access including facial panel, AI camera, IP camera, attendance terminal, thermal network camera, etc.
 - Support the H.264, H.264+ and H.265 IP cameras
 - Support standard ONVIF protocol
 - Support dual stream recording of each camera
 - Support IP cameras to be added quickly or manually
 - Support collective or individual configuration of the cameras' OSD, video parameters, motion and so on
 - Support a maximum of 32 user permission groups including Administrator, Advanced and Ordinary which are the default permission groups of the system
 - Support multiple users to be created, multiple web clients login by using one username at the same time and the user's permission control to be enabled or disabled
 - Support a maximum of 5 web clients login at the same time
- ⊕ **Live View**
 - Support 4K×2K/1920×1080/1280×1024 HDMI and 1920×1080/1280×1024 VGA high-definition synchronous display (depending on models)
 - Support auto adjustment of the camera's image display proportion
 - Support audio monitoring of the camera to be enabled or disabled
 - Support manual snapshot of the preview camera
 - Support quick tool bar operation of the preview window
 - Support motion detection
 - Support image and lens adjustment (only available for some cameras)
 - Support quick camera adding in the camera window of the live preview interface

 **AI Functions**

- Real-time display of all abnormal data, including abnormal temperature, mask off, block list, etc.
- Real-time face capture view, human body capture view, face comparison view, body temperature view.
- Support precise face recognition with masks
- Statistics of over temperature and non-mask detection in recent 24 hours or 7 days
- Statistics of the people information, including staff, allow list, block list, VIP, stranger and staff counts
- Statistics of people entry and exiting in recent 24 hours or 7 days
- Support smart temperature screening viewing mode (only thermal camera channel available)
- Support records search by mask status, by normal/over temperature or by event (stranger/allow list/ block list/VIP)
- Support face attendance
- Support face greeting via Web client
- Support over temperature alarm
- Support non-mask detection alarm
- Support people flow control

 **Disk Management**

- A maximum of 1 SATA HDDs
- Each SATA interface supports the HDDs with max 10TB storage capacity
- Support disk information and disk working status viewing

 **Record Configuration**

- Support main stream and sub stream recording at the same time and batch or single configuration of the record stream
- Support manual and auto record modes
- Support schedule recording, sensor alarm recording and motion detection recording, etc.
- Support schedule recording and event recording setting with different record streams
- Support record schedule setting and recycle recording
- Support pre-recording and delay recording configuration of the event recording

 **Record Playback**

- Support time scale operation in quick playback and the playback date and time can be set randomly by scrolling the mouse; the time interval of the time scale can be zoomed
- Support record search by time slice/time/event/tag
- Support smart search by face or human body
- Support time view and camera view in searching by time slice mode
- Support time slice search by month, by day, by hour and by minute and time slice to be displayed with camera thumbnail
- Support a maximum of 8 cameras to be searched by time (depending on models)
- Support event search by manual/motion/sensor/intelligent events
- Support tag search by the added tags
- Support instant playback of the selected camera in the live preview interface
- Support a maximum of 16 synchronous playback cameras
- Support acceleration (maximum 32 times of the normal speed), deceleration (minimum 1/32 times of the normal speed) and 30s' addition or reduction to current playing time

 **Record Backup**

- Support record to be backed up through USB (thumb drive, mobile HDD)
- Support record to be backed up by time/event/image search
- Support record cutting for backing up when playing back
- Support a maximum of 10 backup tasks in background and backup status viewing

 **Alarm Management**

- Support alarm schedule setting
- Support enabling or disabling of the motion detection, external sensor alarm input, combination alarm and exception alarms including IP address conflict alarm, disk IO error alarm, disk full alarm, no disk alarm, illegal access alarm, network disconnection alarm, IPC offline alarm and so on, alarm linkage configuration supportable
- Support IPC offline alarm linkage configuration of snap, pop-up video, etc.
- Support event notification modes of alarm-out, pop-up video, pop-up message box, buzzer, APP push, e-mail and so on
- The captured images can be attached into the e-mail when alarm linkage is triggered
- Support alarm status view of alarm-in, alarm-out, motion detection, AI alarm and exception alarm
- Support alarm to be triggered and cleared manually
- Support system auto reboot when exception happens

 **Network Functions**

- Support TCP/IP and PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTP protocol and so on
- Support allow and block list function and the IP address/IP segment/MAC address can be allowed or blocked.
- Support multiple browsers including IE8/9/10/11, Firefox, Opera, Chrome (available only for the versions lower than 45) and Safari in MAC system
- Support remote preview, configuration, import and export of parameters and other system maintenance operations including remote upgrading and system restart
- Support remote camera configuration including video parameters, image quality and so on
- Support remote search, playback and backup
- Support manual alarm to be triggered and cleared remotely
- The auto-focusing camera can be adjusted through web client (support zoom in/out, but one key focus is not currently supported)
- Support mobile surveillance by phones or tablets with iOS or Android OS
- If one camera recording is enabled or disabled manually through web client, it will be simultaneously enabled or disabled in the device

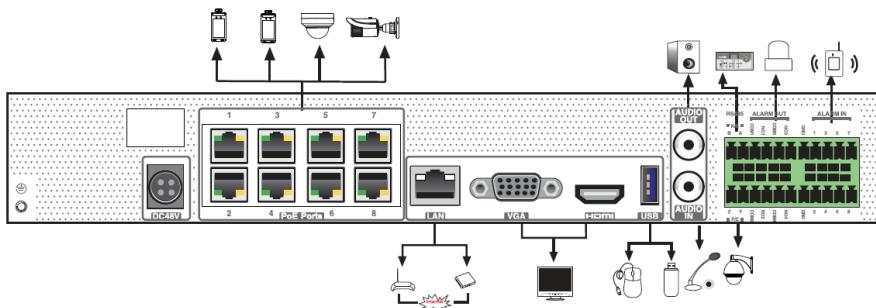
 **Other Functions**

- The device can be controlled and operated by the buttons on the front panel, the remote controller and the mouse
- Setting interfaces can be switched to one another conveniently by clicking the main menus on the top of the setting interfaces
- Support device information viewing including basic, camera status, alarm status, record status, network status, disk and backup status
- Support factory restoring, import and export of the system configuration, log view and export and local upgrading by USB mobile device
- Support auto recognition of the display's resolution
- You can click the right mouse button at any interface to go back to the upper interface
- You can click the middle mouse button at any interface to go to the live view interface
- The display language and video format of the device will not be changed, and the system logs will be reserved if you reset the device to factory default
- Press and hold the right mouse button for 5 seconds in any interface to switch the output to VGA and the device will display the video at the lowest resolution which the device supports

1.3 Front Panel Descriptions

Name	Descriptions
REC	When recording, the light is blue
Net	When access to network, the light is blue
Power	Power indicator, when connection, the light is blue
USB	USB port for video backup

1.4 Rear Panel Descriptions



No.	Name	Descriptions
1	Power Supply	DC48V power supply interface
2	PoE ports	8 PoE network ports; connect to 8 PoE IP cameras/terminal
3	LAN	Network port
4	VGA	Connect to monitor
5	HDMI	Connect to 1920×1080 high-definition display device
6	USB	USB3.0 interface, connect USB storage device or USB mouse
7	AUDIO IN	Audio input; connect to audio input device, like microphone, pickup, etc.
8	AUDIO OUT	Audio output; connect to sound box
9	RS45 A/B interface	Connect to a keyboard. A is TX+; B is TX-
10	RS45 Y/Z interface	Connectors for speed dome. Y is TX+, Z is TX- (This interface of some models is unavailable.)
11	ALARM OUT	Relay output; connect to external alarm
12	ALARM IN	Alarm inputs for connecting sensors
13	GND	Grounding

1.5 Connections

- **Video Connections**

Video Output: Supports VGA/HDMI video output. You can connect to monitor through these video output interfaces simultaneously or independently.

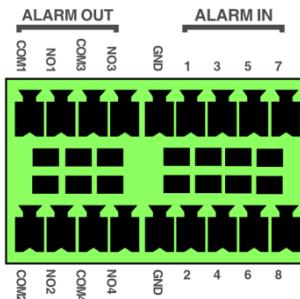
- **Audio Connections**

Audio Input: Connect to microphone, pickup, etc.

Audio Output: Connect to headphone, sound box or other audio output devices.

- **Alarm Connections**

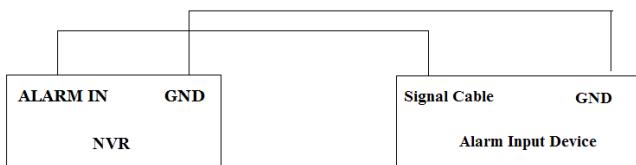
Some models may not support this function. Take 8CH alarm inputs and 4CH alarm output for example.



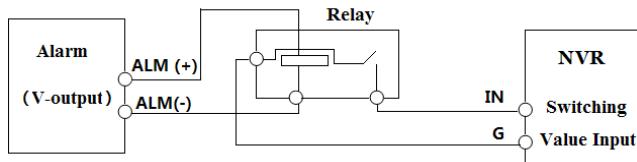
Alarm Input:

Alarm IN 1~8 are 8 CH alarm input interfaces. There are no type requirements for sensors. NO type and NC type are both available.

The way to connect sensor and the device is as shown below:



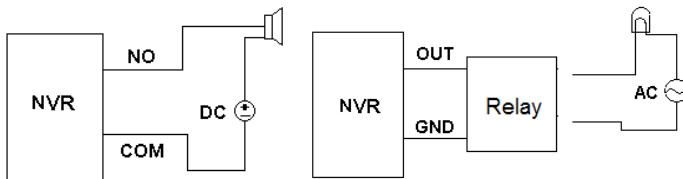
The alarm input is an open/closed relay. If the input is not an open/closed relay, please refer to the following connection diagram:



Alarm Output:

The way to connect alarm output device:

Pull out the green terminal blocks and loosen the screws in the alarm-out port. Then insert the signal wires of the alarm output devices into the port of NO and COM separately. Finally, tighten the screws. Provided that the external alarm output devices need power supply, you can connect the power supply as per the following figures.



2 Basic Operation Guide

2.1 Startup & Shutdown

Please make sure all the connections are done properly before you power on the unit. Proper startup and shutdown are crucial to extending the life of your device.

2.1.1 Startup

1. Connect the output display device to the VGA/HDMI interface of the device.
2. Connect with the mouse and power. The device will boot, and the power LED would turn blue.
3. After you read the privacy statement, a WIZARD window will pop up (you should select the display language the first time you use the device). Refer to [3.1 Startup Wizard](#) for details.

2.1.2 Shutdown

You can power off the device by using remote controller or mouse.

By remote controller:

1. Press the Power button. This will take you to a shutdown window. The unit will power off after a while by clicking the “OK” button.
2. Disconnect the power.

By mouse:

1. Click Start→Shutdown to pop up the Shutdown window. Select “Shutdown” in the window. The unit will power off after a while by clicking the “OK” button.
2. Disconnect the power.

2.2 Remote Controller

1. It uses two AAA size batteries.
2. Open the battery cover of the remote controller.
3. Place batteries. Please take care the polarity (+ and -).
4. Replace the battery cover.

Key points to check in case the remote doesn't work.

1. Check batteries polarity.
2. Check the remaining charge in the batteries.
3. Check IR controller sensor for any masking.



Button	Function
REC	Record manually
Search	To enter search mode
MEUN	To enter menu
Exit	To exit the current interface
ENTER	To confirm the choice or setup
Direction button	To move cursor in setup
ZOOM	To zoom in
PIP	No function temporarily
	To control playback. Play (Pause)/Next Frame/Speed Up/Stop/Previous Frame/Speed Down
Multi	To choose multi-screen display mode
Next	To switch the live image
SEQ	To go to sequence view mode
INFO	Get information about the device

2.3 Mouse Control

2.3.1 Mouse control in Live Display& Playback interface

In the live display & playback interface, double click on any camera window to show the window in single screen mode; double click the window again to restore it to the previous size.

In the live display & playback interface, if the interfaces display in full screen, move the mouse to the bottom of the interface to pop up a tool bar. The tool bar will disappear automatically after you move the mouse away from it for some time; move the mouse to the right side of the interface to pop up a panel and the panel will disappear automatically after you move the mouse away from it.

2.3.2 Mouse control in text-input

Move the mouse to the text-input box and then click the box. The input keyboard will pop up automatically.

2.4 Text-input Instruction



The system includes two input boxes. Refer to the above pictures. The left box is the number input box, and the right box is the input box which provides inputs of numbers, letters and punctuation characters. The introductions of keys on the input boxes are shown below.

Button	Meaning	Button	Meaning
⌫	Backspace key	#?!	Switch key of punctuation character
DEL	Delete Key	➡	Enter key
⇪	Switch key between upper and lower letter	—	Space key
EN/CN	Switch key of language		

2.5 Common Button Operation

Button	Meaning
	Click it to show the menu list.
	Click it to change the sequence of the list.
	Click it to change the camera displaying mode.
	Click it to close the current interface.
Earliest	Click it to go to the earliest date of camera recording.
Latest	Click it to go to the latest date of camera recording.

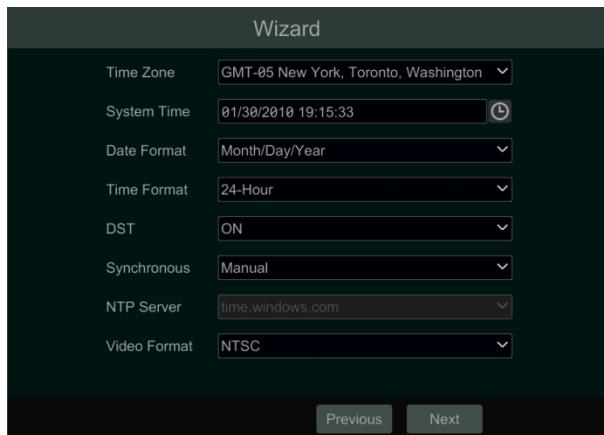
3 Wizard & Main Interface

3.1 Startup Wizard

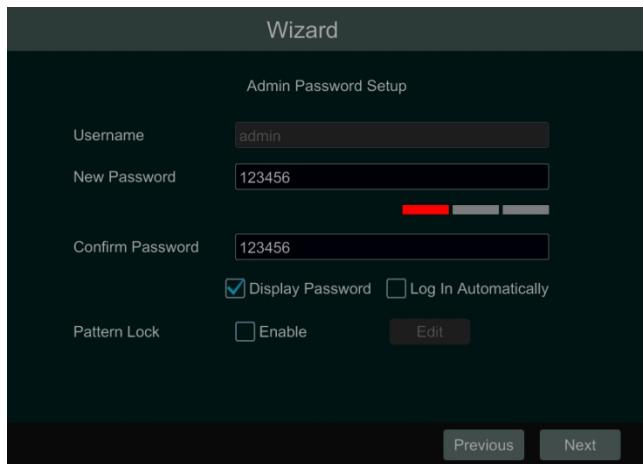
The disk icons will be shown on the top of the startup interface. You can view the number and status of each disk quickly and conveniently through these icons (: no disk; : unavailable disk; : RW available disk).

You can quickly configure the device by wizard setup to make the device work normally. You must configure the wizard if you start the device for the first time (or click “Skip” to cancel the wizard next time). Maybe different versions have different wizard steps. The following wizard steps are for reference only.

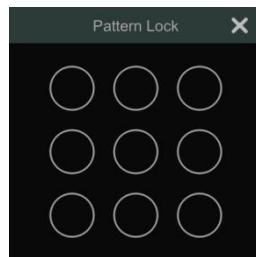
1. Choose the language and locality as needed if it is the first time for you to use the wizard and then read the privacy statement, checkmark “I have read and agree” and click “OK”.
2. **Date and Time Configuration.** The date and time of the system need to be set up if you use the wizard for the first time. Refer to the following figure. Set the time zone, system time, date format, time format and video format. The DST will be enabled by default if the time zone selected includes DST. Click “Next” to continue.



3. **System Login.** Set your own password when you use the wizard for the first time (the default username of the system is **admin**); select the login username and enter the corresponding password next time.



Enable pattern lock and click “Edit” to set the pattern lock.

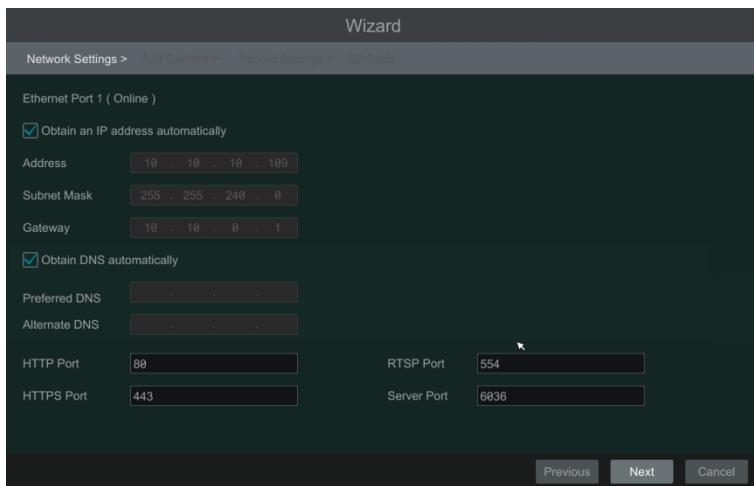


Click “Next” to set questions and answers for password security of admin.

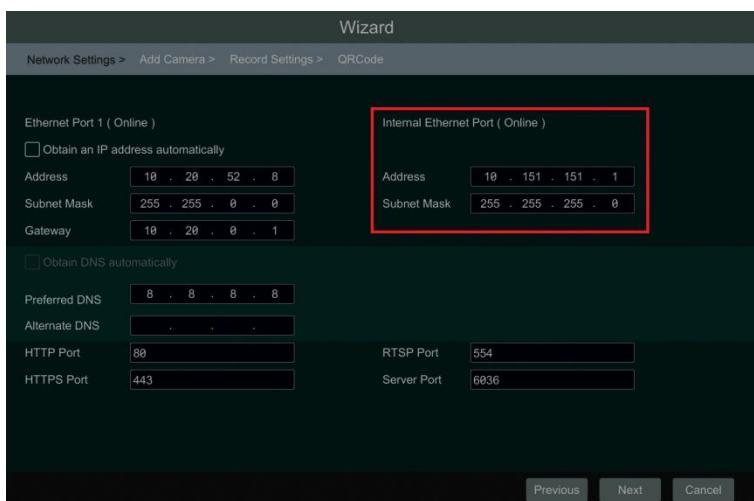
Click “Next” to continue.

4. **Disk Settings.** You can view the disk number, disk capacity of the device and serial number, R&W status of the disk. Click “Format” to format the disk. Click “Next” to continue. Then click “Wizard Setup”.

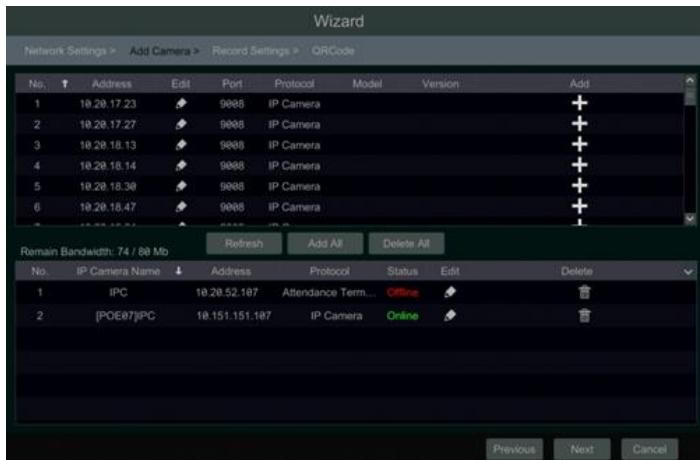
5. **Network Settings.** Check “Obtain an IP address automatically” and “Obtain DNS automatically” to get the IP address and DNS automatically (the DHCP function of the router in the same LAN should also be enabled), or manually enter them. Enter the HTTP port, RTSP port and Server port (please see [14.1.2 Port Configuration](#) for details). Click “Next” to continue.

**Note:**

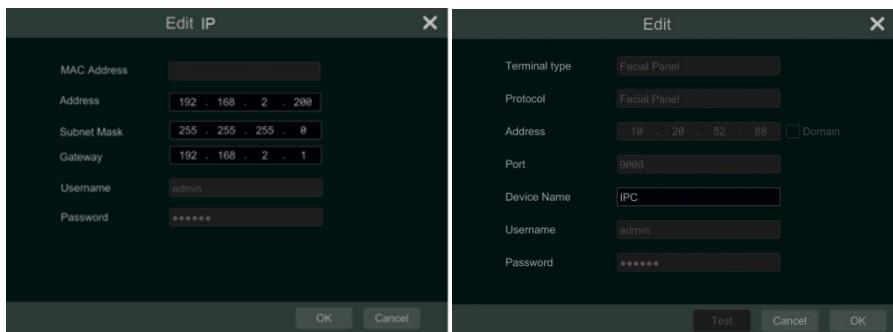
- If you use the device with the PoE network ports, the online state of the internal Ethernet port will be shown on the interface. Refer to the picture below. Please refer to [14.1.1 TCP/IP Configuration](#) for detail introduction of the internal Ethernet port.



6. **Add Camera.** Click “Refresh” to refresh the list of online IP cameras which are in the same local network with device and then click to add the searched camera. Click “Add All” to add all the cameras in the list. Click to delete the added camera. Click “Delete All” to delete all the added cameras.



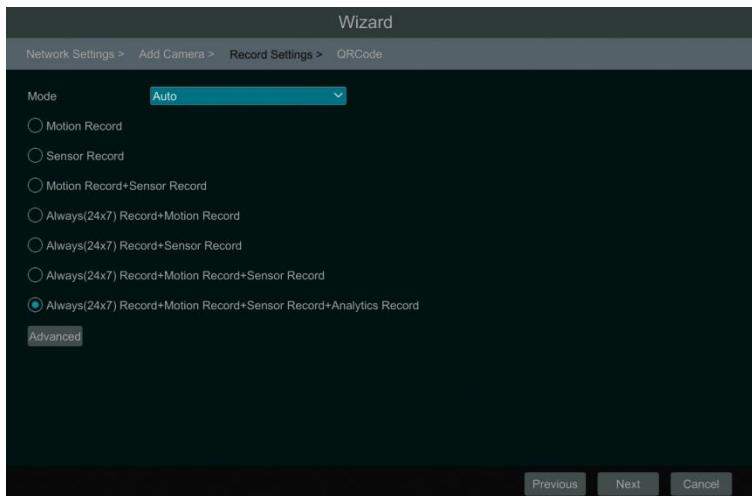
Click to edit the searched IP camera as shown on the below left. Enter the new IP address, subnet mask, gateway, username and the password of the camera. Click “OK” to save the settings.



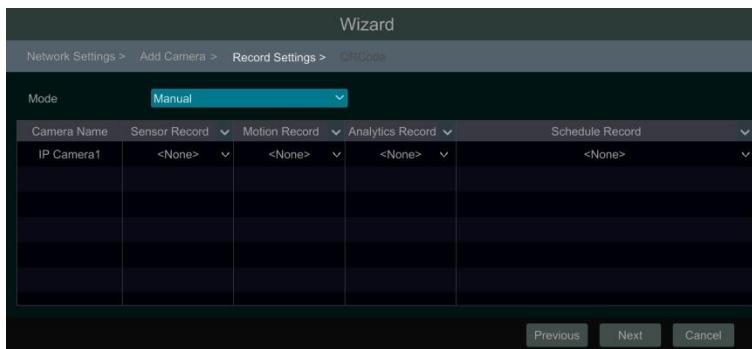
Click to edit the added camera as shown on the above right. Enter the new camera name, IP address, port, username and the password of the camera. Then click “Test” to test the connection. Click “OK” to save the settings. You can change the device name only when the added device is online. Click “Next” to continue.

7. **Record Settings.** Two record modes are available: auto and manual.

Auto: Select one auto mode in the interface as shown below and then click the “Next” to save the settings. Click “Advanced” to self-define record mode. See [10.1.1 Mode Configuration](#) for details.



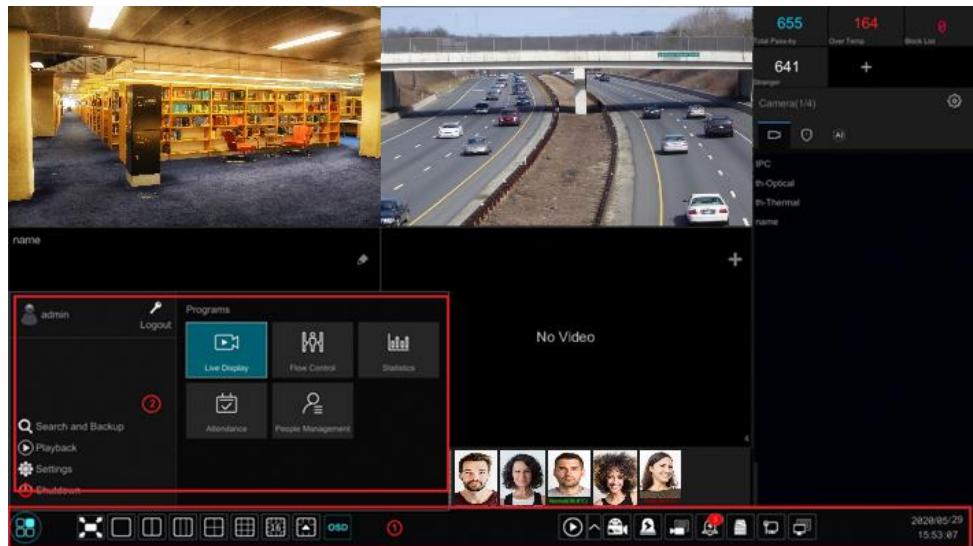
Manual: Set the “Sensor Record”, “Motion Record” and “Schedule Record” of each camera. Click “OK” to save the settings. See [10.1.1 Mode Configuration](#) for details.



8. **QRCode.** Enable the NAT function in the interface or set it in the network configuration after exiting the wizard (please refer to [14.1.8 NAT Configuration](#) for details). You can scan the QRCode through mobile client which is installed in the mobile phone or tablet PC to log in the mobile client instantly. Please refer to [15.1 Mobile Client Surveillance](#) for details. Click “OK” to save the settings.

3.2 Main Interface

3.2.1 Main Interface Introduction



The buttons in area ① are introduced in the table below.

Button	Meaning
	Start button. Click it to pop up area ③.
	Full screen button. Click it to show full screen; click it again to exit the full screen.
	Screen mode button.
	Click it to enable OSD; click again to disable OSD.
	Click to set the default playback time before starting instant playback (11.1 Instant Playback) or going to the playback interface for playback operations (11.2 Playback Interface Introduction); click to go to the playback interface. For instance, if you choose “5 minutes ago” as the default playback time, you can playback the record from the past five minutes.
	Manual record button. Click it to enable/disable record.
	Manual alarm button. Click it to trigger or clear the alarm-out manually in the popup window.
	Record status button. Click it to view the record status.
	Alarm status button. Click it to view the alarm status.

Button	Meaning
	Disk status button. Click it to view the disk status.
	Network status button. Click it to view the network status.
	Information button. Click it to view system information.

Note: The buttons displayed in the live display interface may be different for different models.

The above picture is for reference only. The real product shall prevail.

Introduction of area②:

Icon / Button	Meaning
 Admin	It shows the current login user.
 Logout	Click it to log out the system.
 Live Display	Click to return to the live display interface
 Attendance	Click it to go to the attendance configuration and search interface.
 Flow Control	Click it to set the people number available to enter and view the number of the people inside
 People Management	Click it to go to the people management interface, see 6 People Management for details.
 Statistics	Click to view the statistics of over temperature, face snapshot, non-mask, attendance and personnel records.
 Search and Backup	Click it to go to record search and backup interface, see 11.3 Record Search, Playback & Backup for details.
 Playback	Click it to go to playback interface (click  on the toolbar at the bottom of the live preview interface to set the default playback time), see 11.2 Playback Interface Introduction for details.
 Settings	Click it to pop up the setup panel, see 3.2.2 Setup Panel for details.
 Shutdown	Click it and then select “Logout”, “Reboot” or “Shutdown” in the popup window.

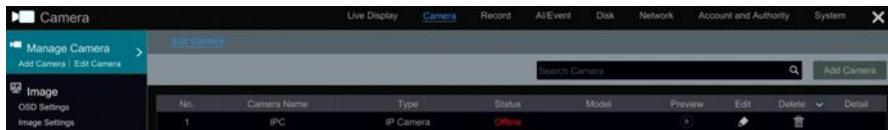
3.2.2 Setup Panel

Click Start→Settings to bring the setup panel as shown below.



The setup panel includes seven modules. Each module provides some function entries with links for convenient operation.

Here we take **Camera** module as an example. The **Camera** module provides convenient links such as “Add Camera”, “Edit Camera”, “Image Settings”, “OSD Settings” and “Motion Settings”. Click **Camera** to go to the camera management interface as shown below.



Click the main menus on the top of the camera management interface to go to corresponding interfaces. Refer to the picture below. For instance, you can go to system setup interface by clicking “System” tag.



3.2.3 Main Functions

1. Camera

The module covers the functions such as ***Camera Management*** (see [Chapter 4 Camera Management](#) for details), ***Image Settings*** (see [5.2 Preview Image Configuration](#) for details) and ***Motion*** (see [12.4 Motion Configuration](#) for details)

2. Record

The module covers the functions such as ***Encode Parameters*** and ***Record Schedule*** and so on. Please see [Chapter 10 Record & Disk Management](#) for details.

3. AI/Event

The module covers the functions such as ***Body Temperature Settings***, ***Mask Settings***, ***Flow Control***, ***Event Notification***, ***Combination Alarm***, ***Exception***, ***Sensor and Motion Alarm***, ***Alarm Out Settings***, etc. Please see [Chapter 12 AI/Event Management](#) for details.

4. Disk

The module covers the functions such as ***Disk Management***, ***Storage Mode*** and ***Disk Information*** and so on. Please see [Chapter 10 Record & Disk Management](#) for details.

5. Network

The module covers the functions such as ***TCP/IP***, ***DDNS***, ***Port***, ***E-mail*** and ***Network Status*** and so on. Please see [14.1 Network Configuration](#) for details.

6. Account and Authority

The module covers the functions such as ***Account Management*** (see [13.1 Account Management](#) for details) and ***Permission Management*** (see [13.3 Permission Management](#) for details) and so on.

7. System

The module covers the functions such as ***Basic Configuration*** (see [14.2 Basic Configuration](#) for details), ***Device Information*** (see [14.8 View System Information](#) for details), ***Log Information*** (see [14.7 View Log](#) for details) and ***Configuration File Import & Export*** (see [14.5 Backup and Restore](#) for details) and so on.

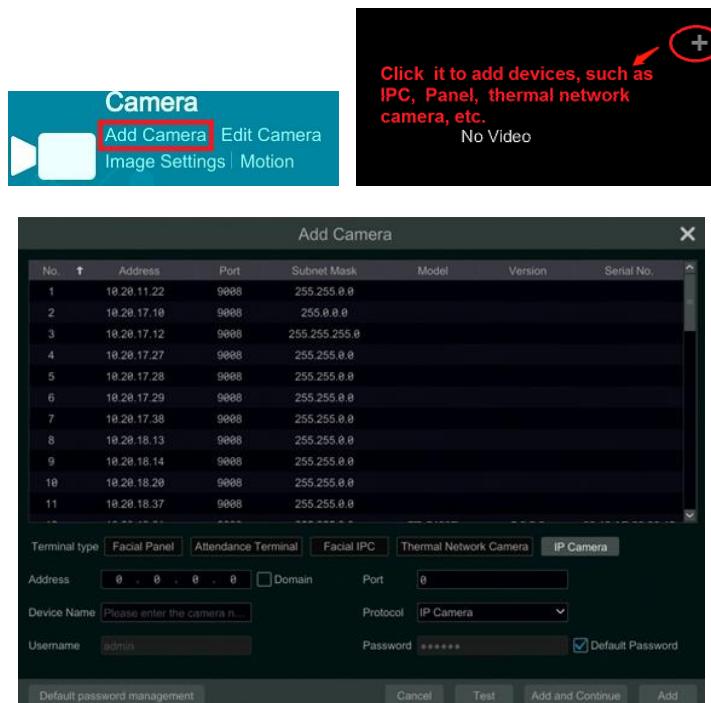
4 Camera Management

4.1 Add/Edit Camera

4.1.1 Add Camera

The network of the device should be set before adding IP camera (see [14.1.1 TCP/IP Configuration](#) for details).

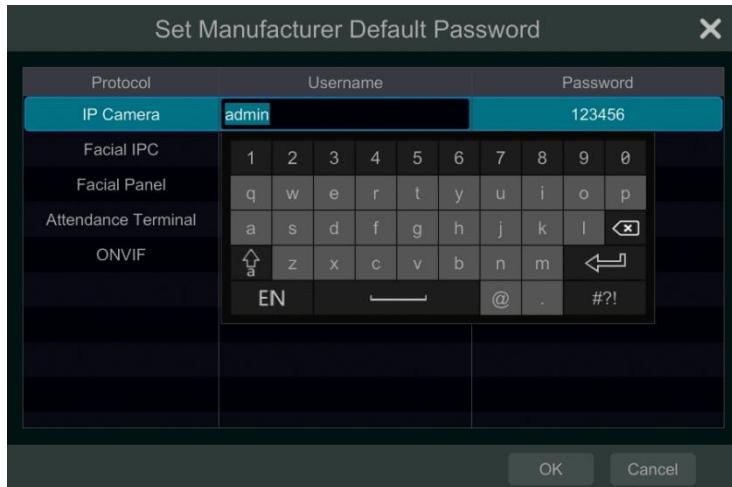
Refer to the pictures below. Click **Add Camera** in the setup panel or **+** in the top right corner of the preview window to pop up the “Add Camera” window as shown below. You can quickly add or add the IP camera manually.



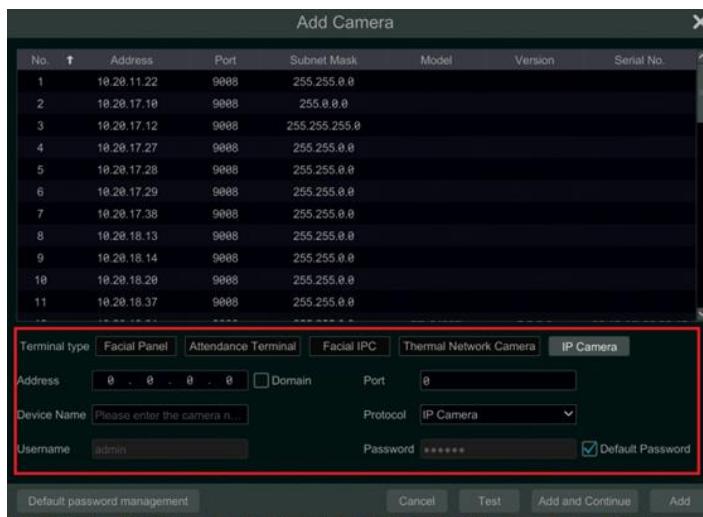
8. Quickly Add

Select the cameras/panels and then click “Add” to add them. The system will automatically identify the terminal type. Of course, you can choose the terminal type manually for some panels or AI cameras. Then click “Add” to add cameras/panels. Uncheck “Default Password” and enter the username and password manually if they are not the default one.

Click “Default password management” to modify the default password of each cameras/panels.



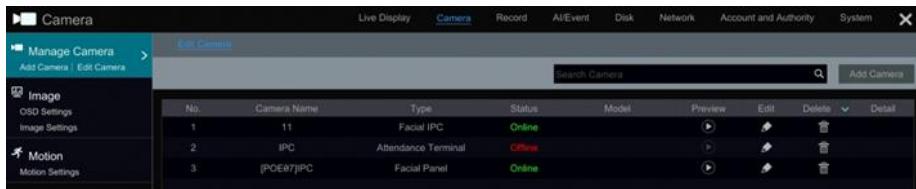
9. Add Manually



1. Select the terminal type according to the device you want to add.
IP Panel: all types except thermal network camera can be selectable. Facial panel or attendance terminal is suggested.
 2. Enter the IP address/domain, port, device name, username and password.
 3. Click "Add" to add the camera/panel.
- Facial IPC: The IPC which supports face recognition can choose this one.
Please select the terminal type according to the actual usage of the device you want to add.

4.1.2 Edit Camera

Click “Edit Camera” in the setup panel to go to the interface as shown below. Click to view the live image of the camera in the popup window. Click to edit the camera (see Add camera in 3.1 Startup Wizard for details). Click to delete the camera; click in the “Delete” header line and select “Delete All” to delete all added devices. For the device with line crossing counting function, you can click to enter the flow control setting interface (See 8.1 Flow Control Settings for details).



Note:

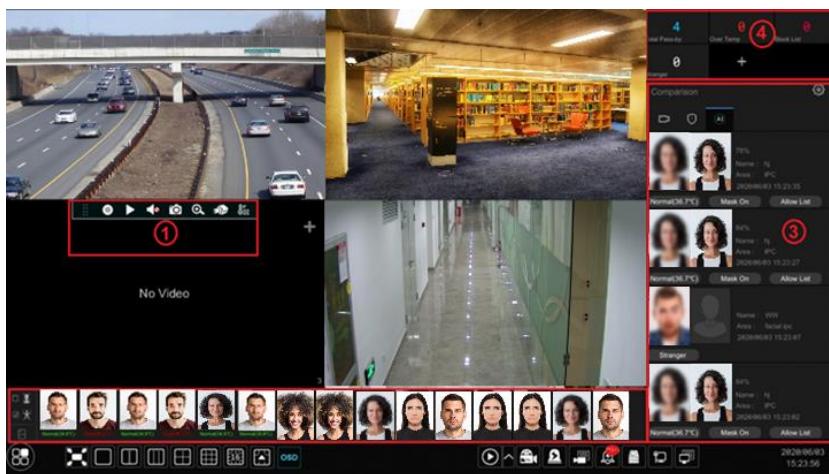
If you use the device with the PoE network ports, the IP cameras/panels (with PoE function) which are directly connected to the PoE port of the device will be displayed automatically in the camera list. Refer to the picture below. The IP camera/panel which occupies the PoE resource has a prefix shown before its camera name. The prefix consists of PoE plus PoE port number. The IP camera which connects to the PoE port cannot be deleted from the camera list manually.

- The IP camera directly connected to the PoE port of the device through private protocol will be shown automatically in the camera list.
- One of the two conditions must be met if the IP camera/panel which is directly connected to the PoE port of the device through ONVIF protocol should be shown automatically in the camera list.
 - ✓ The IP camera/panel which is directly connected to the PoE port is in the same network segment with the internal Ethernet port.
 - ✓ The DHCP (obtain an IP address automatically) of the IP camera/panel which is directly connected to the PoE port is enabled.

5 Live View Introduction

5.1 Live View Interface Introduction

You should add IP cameras/panels first after logging onto the system (see [4.1.1 Add Camera](#) for details). Refer to the interface as shown below, drag one camera in the preview window to another window for camera window exchanging. Click **OSD** button and then you can view the record symbols. The record symbols with different colors in the live preview window refer to different record types when recording, green stands for manual record, red stands for sensor based record, yellow stands for motion based record, blue stands for schedule record and cyan stands for intelligence record.



Click the preview window to show the tool bar as shown in area ①; right click on the preview window to show the menu list. The tool bar and menu list are introduced in the table below.

Button	Menu List	Meaning
	--	Move tool. Click it to move the toolbar anywhere.
	Manually Record On	Click it to start recording.
	Instant Playback	Click to playback the record; click "Instant Playback" to select or self-define the instant playback time. See 11.1 Instant Playback for details.
	Enable Audio	Click it to enable audio. You can listen to the camera audio by enabling audio.
--	Original Proportions/ Overspread window	Click it to select the display proportion of the window.

Button	Menu List	Meaning
	Snapshot	Click it to pop up the snap window. Click "Save" in the window to save the image. Click "Export" to export the image.
	Zoom In	Click it to go to single channel amplification interface.
	--	Click it to go to image adjustment interface. Refer to 5.2.3 Image Adjustment for details.
	Manually Open Door	Click it to open the door manually (only available for IP panels)
	Smart Temperature Screening	Click it to enter the smart temperature screening mode (only available for thermal network cameras)
--	Camera Info	Click it to view the camera information.

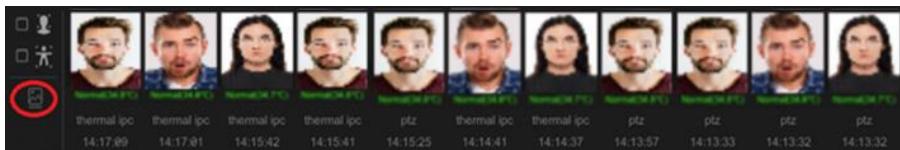
The instructions of Area ②



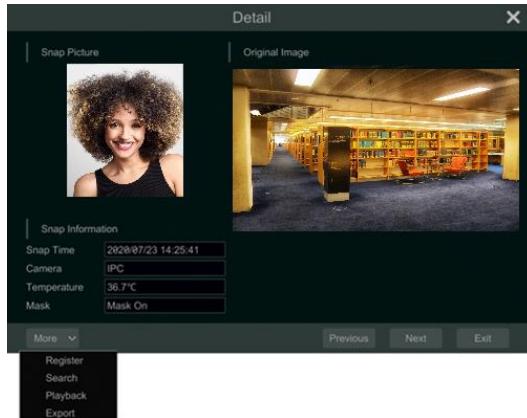
If it is enabled, only face pictures can be viewed. If the thermal camera or temperature measurement panel is added, the temperature and temperature status will be shown under the picture.



If it is enabled, only the human body pictures can be viewed. (The human body detection must be enabled in the added camera.)



Click it to view the snapshot camera/panel name and snapshot time of the image. Click the captured image in area ② to view the details.

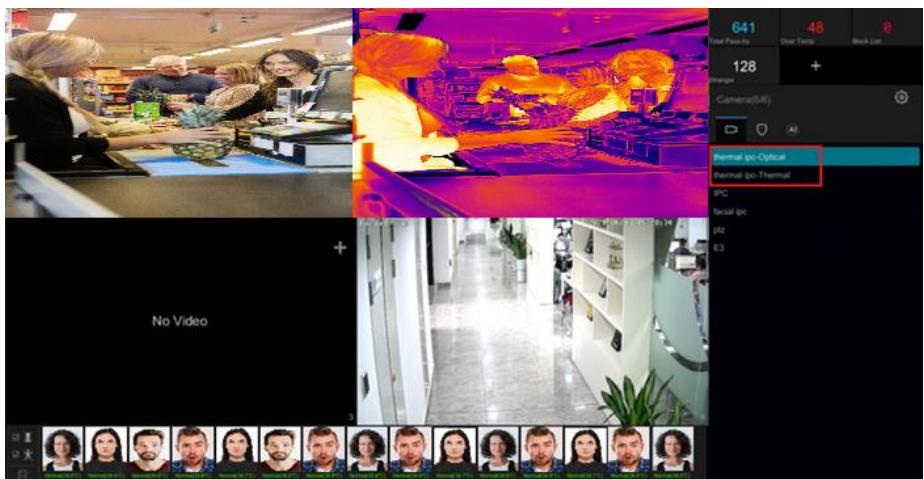


In the above interface, you can view the detailed information of the captured image, such as snapshot time, temperature, mask status, etc. A dropdown list will be displayed by clicking “More”. Click “Register” to add the face picture to the face database; click “Search” to quickly enter the smart search interface; click “Playback” to quickly enter the playback interface; click “Export” to export the face image.

Introduction of area③

➤ Camera list

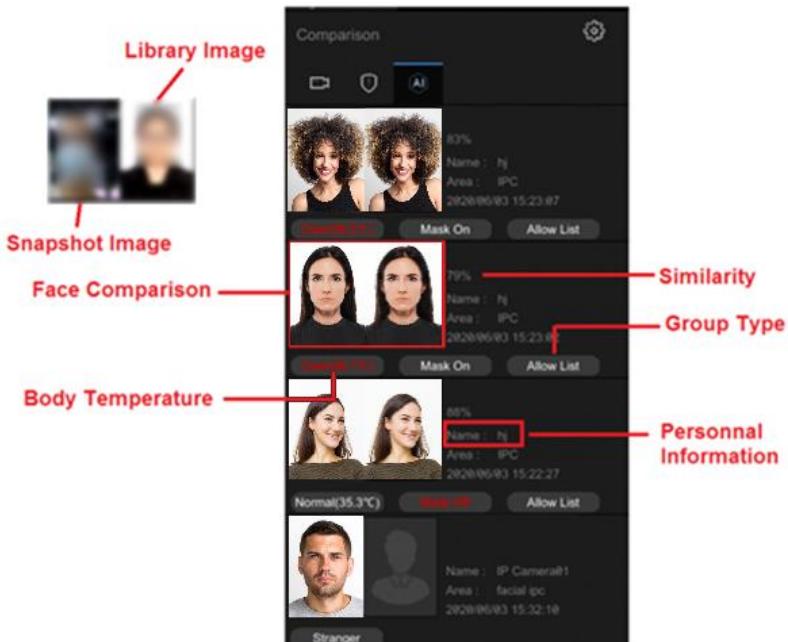
Click to view the camera list.



For the thermal network camera, you can choose to view its thermal image or optical image as shown below.

10. Comparison Result View

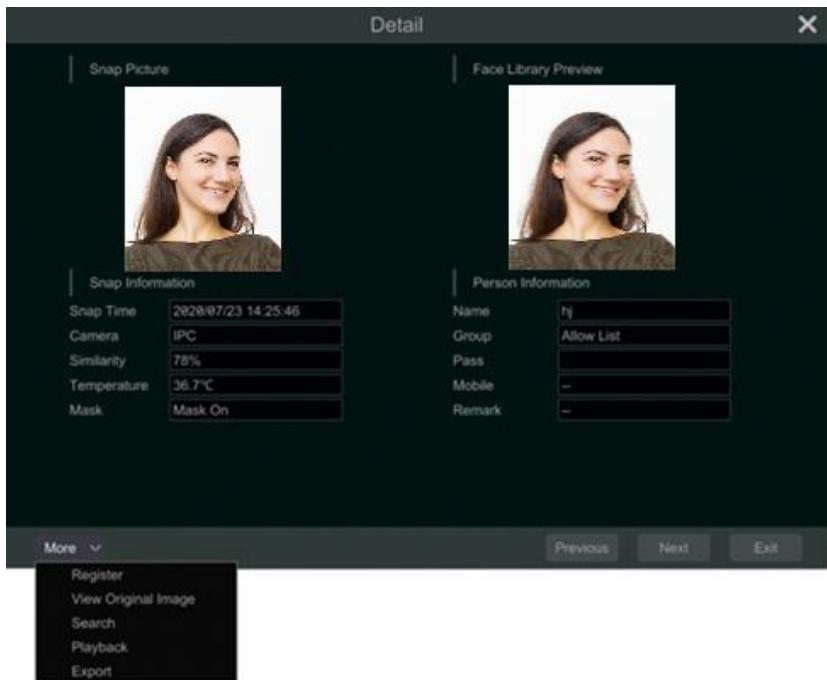
Click **[AI]** to view face match results as shown below, including similarity, personal information, mask status, body temperature, the snapshot camera, etc.



Note:

1. Only the face match result of the camera/panel can be displayed here. Please add face pictures to the face database first (See [6 People Management](#) for details), or no result will be shown here.
2. To show the mask status temperature here, the following requirements shall be satisfied.
 - a. The mask detection must be supported by the IP cameras/panels and this function shall be enabled in the IP cameras/panels.
 - b. The non-mask detection alarm of the device shall be enabled in advance (Click Start→Settings→AI/Event→Mask Settings to go to the mask settings interface and then enable it. See [12.2 Mask Settings](#) for details).
3. The added IP cameras/panels must support temperature measurement, or the body temperature will not be shown here. Please click Start→Settings→AI/Event→Body Temperature Settings to go to the body temperature settings interface and then set the temperature threshold. See [12.1 Body Temperature Settings](#) for details).

Click the picture in the comparison list to view the detail information of face comparison.

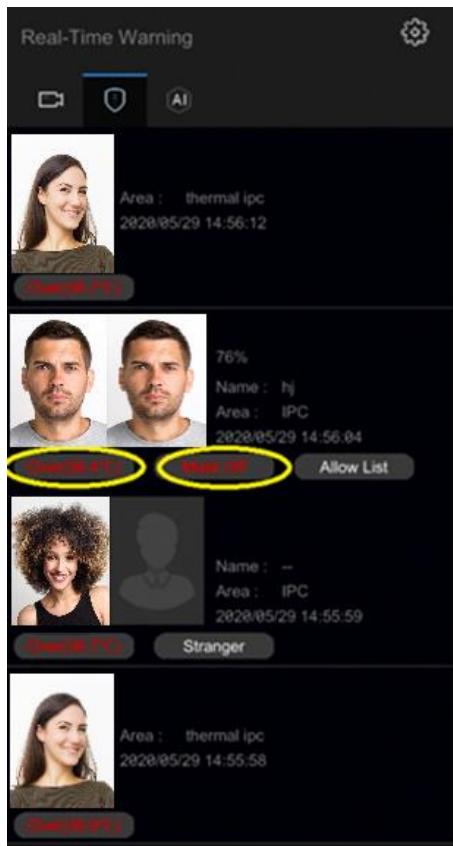


In the above interface, you can view the captured image, the library image, the snapshot information and the person information.

Click “More” to view more menus. Click “Register” to add the face picture to the face database; click “View Original Image” to view the original image; click “Search” to quickly enter the smart search interface; click “Playback” to quickly enter the playback interface; click “Export” to export the face image.

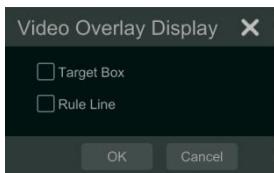
11. Real-time Warning

Click  to view the real-time warning records as shown below.



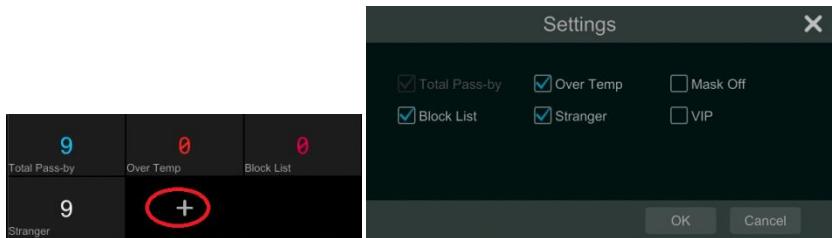
All exception events will be shown under this tab, such as mask off, over temperature or blacklist.

Click  to choose target box or rule line overlaid on the live image.



Introduction of area④

In the live display interface, you can directly view the real-time statistical information as shown below left.



Click to select more of the real-time statistics.

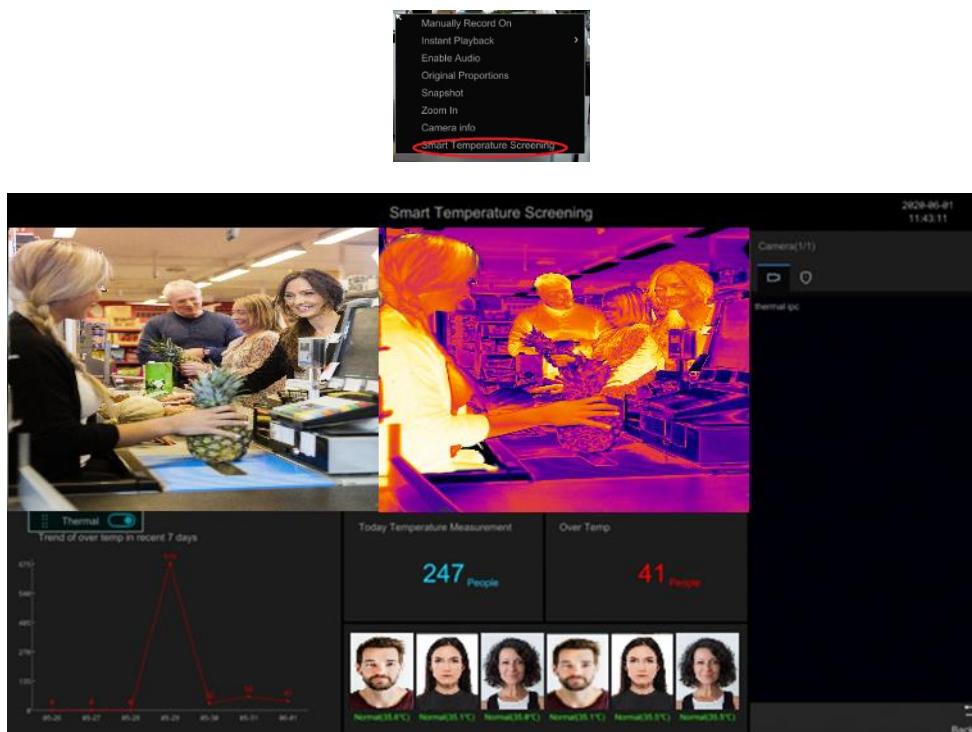
12. Single Channel Amplification

Right click on the preview window and select “Zoom in” to go to the following interface. Press and drag the blue box to select the zoom in area. Click / to zoom in/out the image. Click the camera selection box to select other cameras for amplification. Click “Back” to return to the live preview interface.



5.1.1 Smart Temperature Screening View

Select the thermal camera window and then click on it to choose or right click to choose "Smart Temperature Screening" to go to the following interface.



In this interface, you can view the visible light image and thermal image simultaneously. Additionally, the body temperature, 7-day over temperature statistics, today temperature measurement and over temperature counts, the real-time captured face pictures can be viewed.

Disable "Thermal" to view the optical image only. Click to return to the live view interface.

5.1.2 Corridor Pattern

Select corridor pattern in display mode. You can change the direction of the video image by using this function. Please refer to User Manual of relevant camera.



: Click to view two-screen corridor pattern.

: Click to view three-screen corridor pattern.

5.2 Preview Image Configuration

5.2.1 OSD Settings

Click Start→Settings→Camera→Image→OSD Settings to go to the interface as shown below.

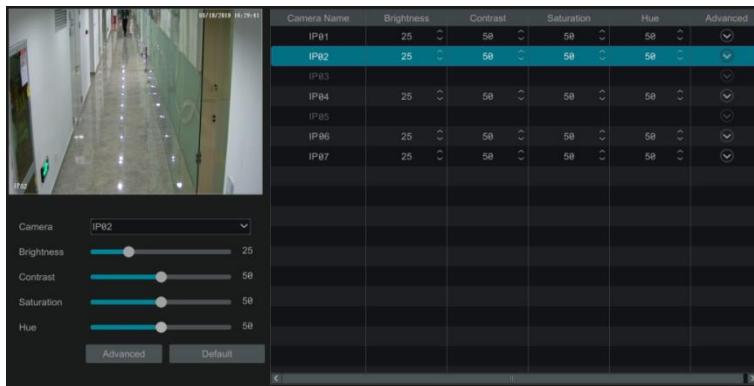


Select the camera, enter the camera name (or double click the camera name in the camera list to change the camera name), enable or disable the name and time OSDs (if enabled, drag the red name and time OSDs directly in the image view area to change the OSDs' display position) and select the date and time formats. Click “Apply” to save the settings.

5.2.2 Image Settings

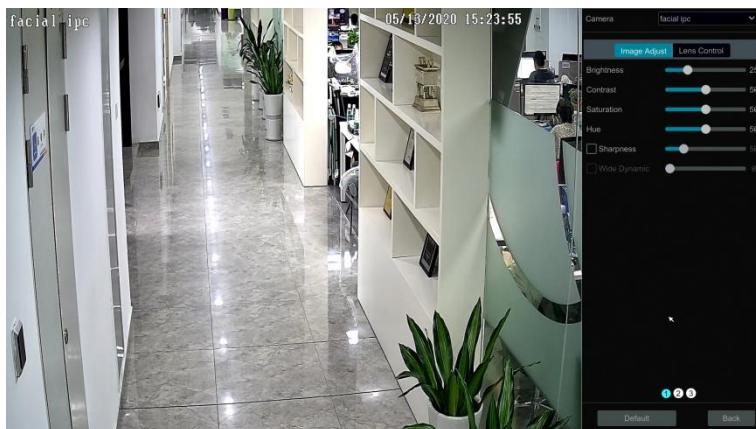
Click Start→Settings→Camera→Image→Image Settings to go to the following interface. Select the camera and then set the brightness, contrast, saturation and hue of the camera. Click the “Advanced” button or  in the camera list on the right side of the interface to pop up the “Image Adjust” interface and then set the relevant setting items. Please refer to [5.2.3 Image Adjustment](#) for detailed introductions of these items.

You can click “Default” to restore the image settings to the default factory settings.



5.2.3 Image Adjustment

Go to live preview interface and then click  button on the tool bar under the camera window to go to the image adjustment interface.



1. Image Adjustment

Select the camera and then click “Image Adjustment” to go to image adjustment tab. Refer to the above picture. Drag the slider to set the camera’s brightness, contrast, saturation and hue value. Check sharpen, wide dynamic and denoise and then drag the slider to set the value. Click “Default” to set these parameters to default values.

The introductions of these parameters are as follows:

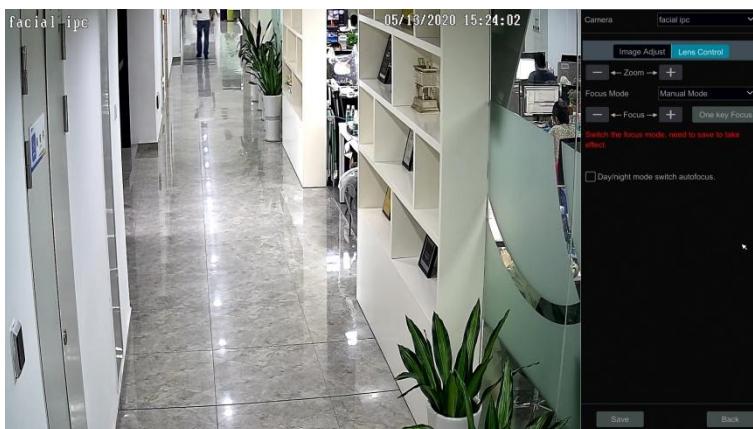
Parameter	Meaning
Brightness	It is the brightness level of the camera’s image.
Contrast	It is the color difference between the brightest and darkest parts.
Saturation	It is the degree of color purity. The color is purer, the image is brighter.
Hue	It relates to the total color degree of the image.
Sharpen	It relates to the resolution level of the image plane and the sharpness level of the image edge.
Wide Dynamic	The wide dynamic range (WDR) function helps the camera provide clear images even under back light circumstances. When there are both very bright and very dark areas simultaneously in the field of view, WDR balances the brightness level of the whole image and provide clear images with details.
Denoise	Decrease the noise and make the image more thorough. Increasing the value will make the noise reduction effect better but it will reduce the image resolution.
White Balance	Adjust the color temperature according to the environment automatically.

Parameter	Meaning
BLC	HLC: lowers the brightness of the entire image by suppressing the brightness of the image's bright area and reducing the size of the halo area. BLC: If enabled, the auto exposure will activate according to the scene so that the object of the image in the darkest area will be seen clearly.
Corridor Pattern	0°, 90°, 180° or 270° can be selected. (Only some cameras support this pattern)
Image Mirror	Turn the current video image horizontally.
Image Flip	Turn the current video image vertically.
High FPS Mode	High frame rate mode, if it is enabled, the frame rate of the camera's main stream can be set to 1080P/720P @60fps/50fps. (Only some cameras support this mode)

The above image parameter settings are for reference only. The image parameter settings of the different manufacturers' cameras may be different.

2. Lens Control

Select the camera and then click “Lens Control” to go to lens control tab. Click or to adjust the zoom and focus parameters of the camera’s lens. Click “Save” to save the settings.



The introductions of these parameters and buttons are as follows.

Button/Parameter	Meaning
	Click / to zoom in/out the image.
Focus Mode	If manual mode is selected, focus button & “One Key Focus” & “Day/night mode switch autofocus” will be available; if auto mode is selected, the time interval setup will be available.
	Click / to increase/decrease the focal length.

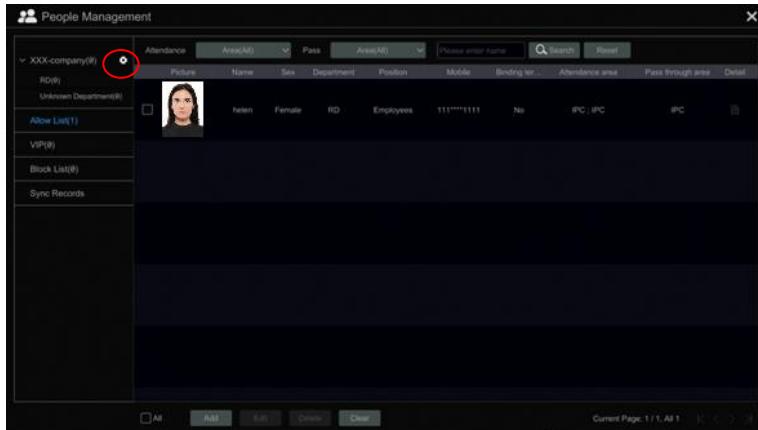
Button/Parameter	Meaning
One key Focus	Click it to focus instantly.
Day/night mode switch autofocus	If checked, the lens will focus automatically when the camera is switching day/night mode.
Time Interval	It is the time interval when camera lens is auto focusing. The interval can be set in the drop-down list.

Note: if the lens of the camera connected to the device is fixed, the lens control function is unavailable.

6 People Management

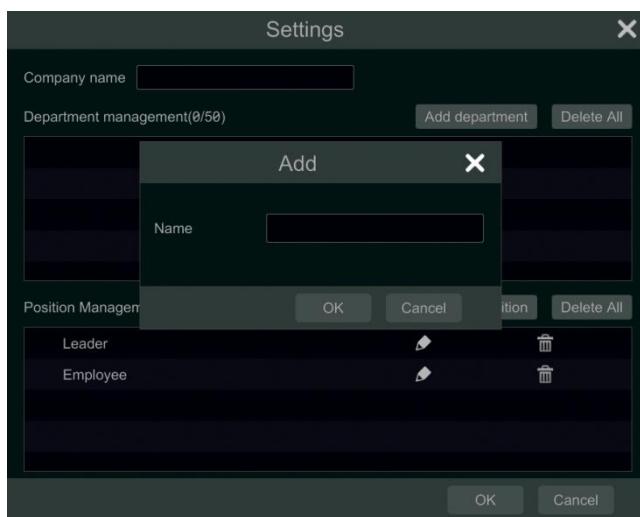
Click Start→People Management to go to the people management interface.

The first group is mainly used for attendance management. Please enter the company name, department and personal position as needed.



- **Add department and position**

Click to pop up the following window.



In this interface, you can set the company name, add department and position.

Click “Add department” to add the department name. Click to modify the name.

Click “Add Position” to add the position name. Click to modify the name.

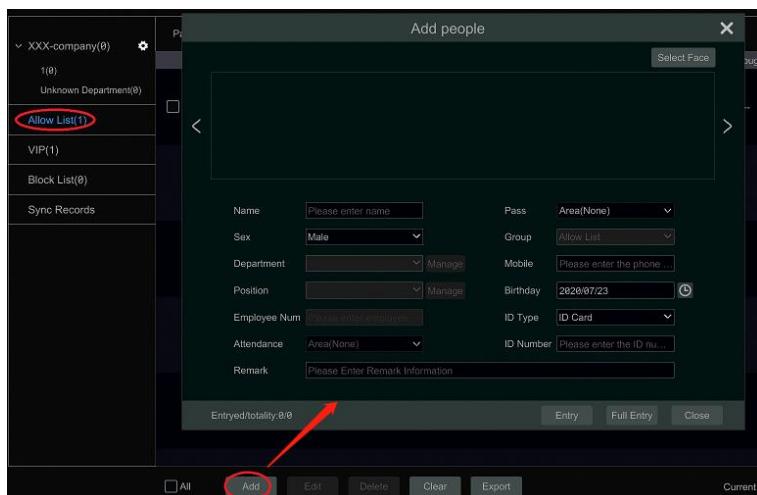
Click to delete the corresponding department or position. Click “Delete All” to delete all department or position. A maximum of 50 departments and 20 positions can be added.

Then you can add people for each department.

● Add people information for each group

Allow list, VIP and block list are fixed groups. Their group name cannot be changed.

Choose the group you want to add the people information. Then click “Add” to add the face picture and the relevant information.

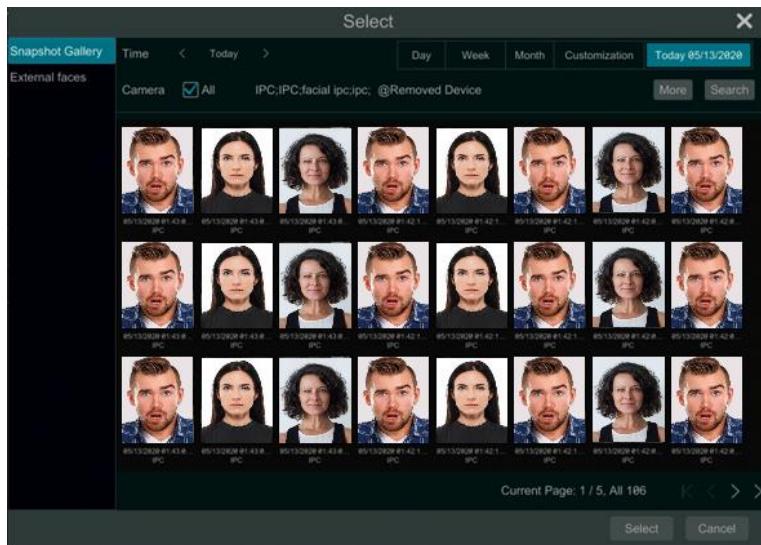


Click “Select face” to choose a face from snapshot gallery or external faces. Fill out other information and then click “Entry”. Note that different group will need to fill out different personal information.

Attendance area: You can choose the device whose terminal/protocol type is facial panel or attendance terminal. This area needs to be selected when you add the personal information for the first group (xxx-company), or the attendance records cannot be searched.

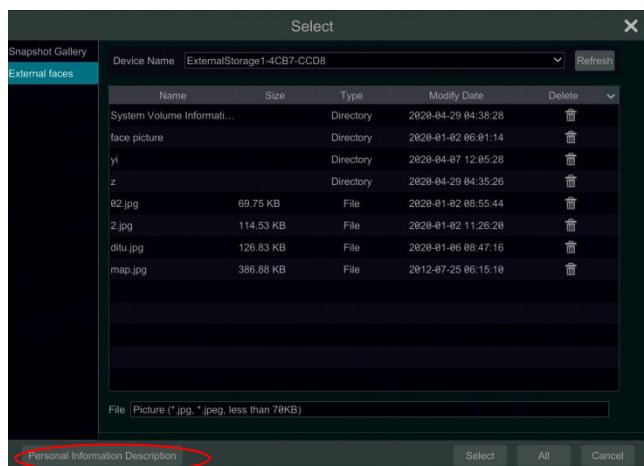
Pass area: You can choose the device whose terminal/protocol type is attendance terminal.

To add a face picture from snapshot gallery:



1. Select time and date and then click “More” to choose cameras.
2. Click “Search” to search the captured face pictures.
3. Select a picture and then click “Select” to add this face picture.

To add a face picture from external faces



1. Insert your mobile storage device the device.
2. Select “External faces”.
3. Select the desired face picture and then click “Select” to add this face picture.

Multiple face pictures can be added from “External faces” too. Put pictures and the personal information file (.csv/.txt) under the same directory of your mobile storage device. Select this directory and click “Full Entry” to add.



Click “Export” in the people management interface, select a group and then export a template file (.csv). Edit the personal information in this template file or use Excel/WPS to edit the personal information according to the following sample and then save it as a CSV/TXT file.

	A	B	C	D	E	F	G	H
1	(01)Name	(02)Sex	(03)Birthday	(04)ID Type	(05)ID Number	(08)Mobile	(12)Image name	(13)No.
2	Helen	1	2009/1/1	ID Card	12121211212	137xxxxxxxx	Helen.jpg	120
3	LT	0	2009/1/1	ID Card	334455662	136xxxxxxxx	LT.jpg	119

You can click “Personal Information Description” to view the detailed edition rules.

● Personal information Search

After you add the people information, you can enter the name of the person to search his/her information. You can also search the person by selecting attendance area and pass-through area. Click “Reset” to reset the search content.

If you want to change the information of the person, you can select it and then click “Edit” to change his/her information.

● Export Personal Information

After you add the personal information, you can export them from different group in the people management interface. Click “Export” and then a group selection box will pop up. Choose the group you want to export and then click “Next” to choose the export location. The personal information file (.csv) and image (.jpg) will be exported simultaneously. After the personal information is exported, you can edit them and then directly use the modified file and image when importing next time. Additionally, you can directly export the template file to quickly edit personal information before you want import images and their information from the “External faces” interface in bulk.

- Sync Records

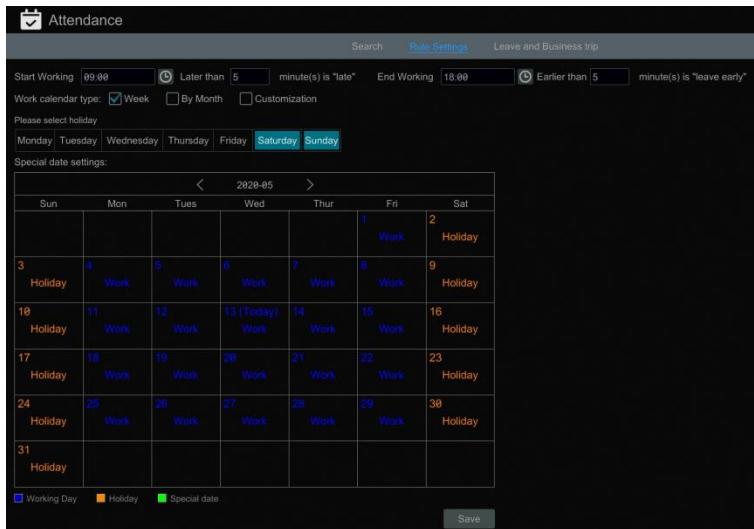
No.	Picture	Name	Sex	Group	Department	Creation time	Camera	Terminal type	Time	Status
1		helen	Female	Allow List	RD	05/18/2020 18:42:56	attendance ipc	Attendance Terminal	05/11/2020 03:11:35	Success
2		123	Male	Allow List	-	05/13/2020 04:21:16	attendance ipc	Attendance Terminal	05/13/2020 04:21:17	Failure
3		helen	Female	Allow List	RD	05/18/2020 18:42:56	facial ipc	Facial IPC	05/18/2020 18:43:12	Success

In this interface, you can view whether the added picture is synchronized to the face database of the camera/panel. Please click  to view the detailed synchronization rules.

7 Attendance Management

7.1 Attendance Rule Settings

Click Start→Attendance→Rule Settings to go to the rule setting interface.



1. Set the working start and end time, “late” and “leave early” rules.
2. Select work calendar type and set the working day and holiday as needed.

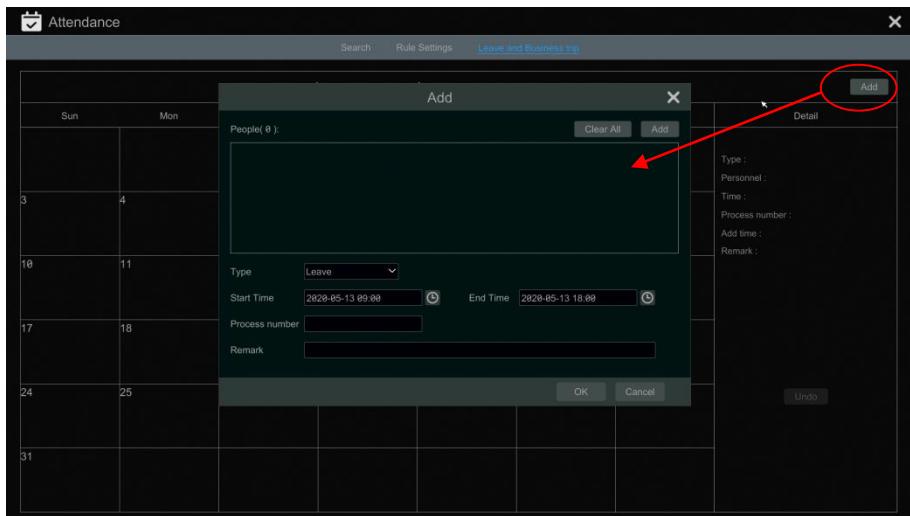
Special date settings (customization):

Click a date on the calendar to switch between working day and holiday. Then click “Save” to save the settings.

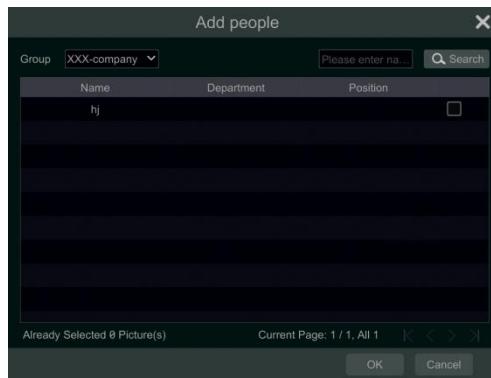
7.2 Leave and Business Trip Settings

Click Start→Attendance→Leave and Business Trip to go to the following interface.

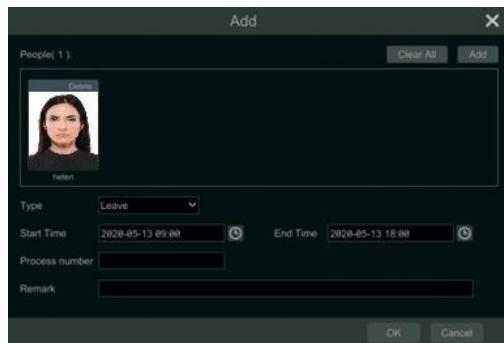
Click “Add” to add the leave and business trip record.



In the “Add” interface, click “Add” to add the person who wants to ask for leave or go on a business trip.



The system will automatically display the people information of the company group. Of course, you can also search the person by entering his/her name. Then check the desired person and click “OK”.



You can check multiple people at a time as needed.

Select the type, start and end time. Then enter the process number and remark as needed.

Finally, click "OK" to add the leave or business trip information of this person.

A screenshot of the 'Attendance' application interface. At the top, there are tabs: 'Attendance' (selected), 'Search', 'Rule Settings', and 'Leave and Business trip'. Below the tabs is a calendar for May 2020. A tooltip '13 (Today)' is shown over the 13th of May. On the right side of the calendar, there is a summary of the leave entry: 'Type : Leave', 'Personnel : 2', 'Time : 2020-05-13 09:00 ~ 2020-05-13 18:00', 'Process number :', 'Add time : 05/13/2020 05:13:18 AM', and 'Remark :'. At the bottom right of the calendar area, there is a red circle around a button labeled 'Undo'.

Then the leave/business trip information will be shown on the calendar. Click the leave or business trip tag to view its detailed information on the right. Click "Undo" to cancel this leave or business trip information, and then the tag will turn grey.

7.3 Attendance Search

Click Start→Attendance→Search to go to the following interface.



1. Select the attendance date or period as needed. If you search the attendance by day, you can view the temperature/mask status records when punching in /out on that day.
2. Select the department, attendance area and attendance type, or enter the person's name. Then click "Search".

The attendance file (.csv) can be exported. "Attendance Report" or "Attendance Report and Snap Picture" can be export for the results searched by day. If there are too many contents you need to export, you can choose "Run in Background" and view its backup progress by clicking the icon in the lower right corner.

Select a person and then click to view the detailed attendance information of the person.

This screenshot shows the 'Attendance Details' interface. At the top, it displays the 'Attendance date' as '2028/07' and a 'Normal Day' count of '1'. Below this, it shows 'Name: hj', 'Should attend: 23 Day', 'Normal Day' (circled ①), 'Late : 1 time(100 min)', 'Leave Early: 2 time(342 ...)', 'Work Number: 123', 'Missed Punch : 1 time', 'Absence: 14 time(93.3 ho...)', 'Leave : 0 time', 'Business trip : 0 time', and 'Bussiness trip : 0 time'. To the right, there are two panels: 'Punch in' (showing a facial recognition photo, timestamp '18:48:28', and status 'Mask On') and 'Punch out' (showing a facial recognition photo, timestamp '14:11:37', and status 'Mask On'). The main area features a monthly calendar grid from July 2028. Each cell contains a color-coded status indicator: green for 'test', red for 'Absence', blue for 'Leave Early/No ...', and grey for 'Rest'. Some cells have circled numbers: ② over the 15th (Absence), ③ over the 28th (Rest), and ④ over the 23rd (Today). The bottom right of the calendar has 'Export' and 'Back' buttons.

In the above interface, you can see the detailed attendance information of the selected person.

Attendance date: click to select the month you want to view.

Area①: You can view the attendance statistical information.

Area②: You can view the attendance information of each day.

Area③: You can view the captured picture of the person punching in/out on a specified day.

Click to view the attendance rule.

Click “Export” to export the specified person’s attendance information of the searched month. “Attendance Report” or “Attendance Report and Snap Picture” can be export. If there are too many contents you need to export, you can choose “Run in Background” and view its backup progress by clicking the icon in the lower right corner.

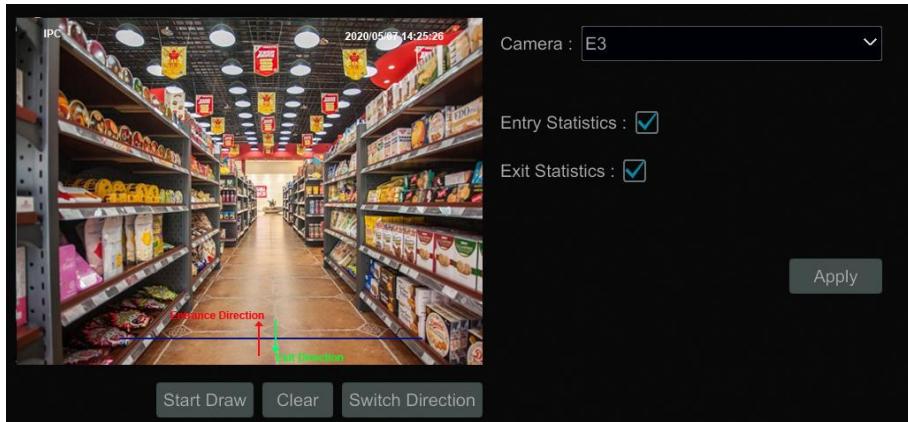
Click “Back” to return to the attendance search interface.

8 Flow Control

Before you use this function, please add the AI camera with line crossing counting function first.
(Click Start→Camera→Add camera to add a camera)

8.1 Flow Control Settings

Click Start→AI/Event→Flow Control to go to the following interface.



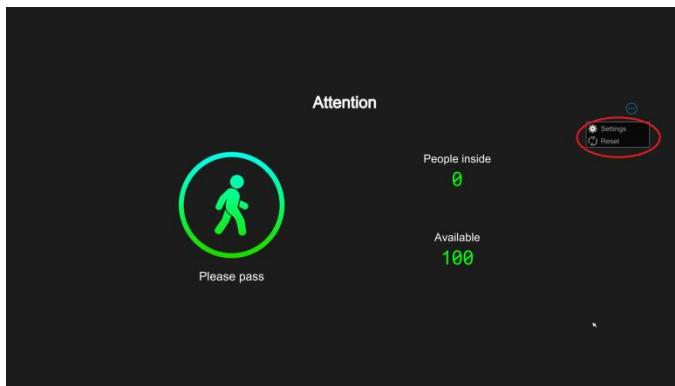
1. Select the camera that supports target counting (or line crossing people counting).
2. Select entry or exit statistics as needed.
3. Click “Start Draw” and then drag the mouse on the small window to draw the crossing line. Click “Clear” to clear the current line. Click “Stop Draw” to stop drawing. Click “Switch Direction” to switch the entrance and exit direction.
4. Click “Apply” to save the settings.

8.2 Flow Control View

Click Start→Flow Control to go to the following interface.

In this interface, you can view the number of the people inside and the number of the available people. If the number of the people inside exceeds the available number, the icon will turn red, and it will tell the customers/visitors to wait.

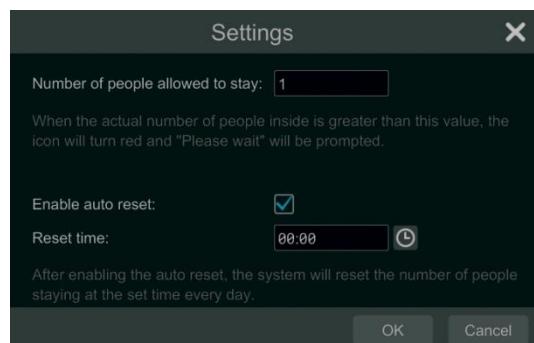
Right click in the flow control interface to return to the live display interface.



Click “Reset” and then the number of people inside will be cleared.

Click “Settings” to set the number of people allowed to stay and enable auto reset.

Please set the available number and auto reset as needed. If the auto reset is enabled, the system will automatically reset the number of the people inside at the set time every day.

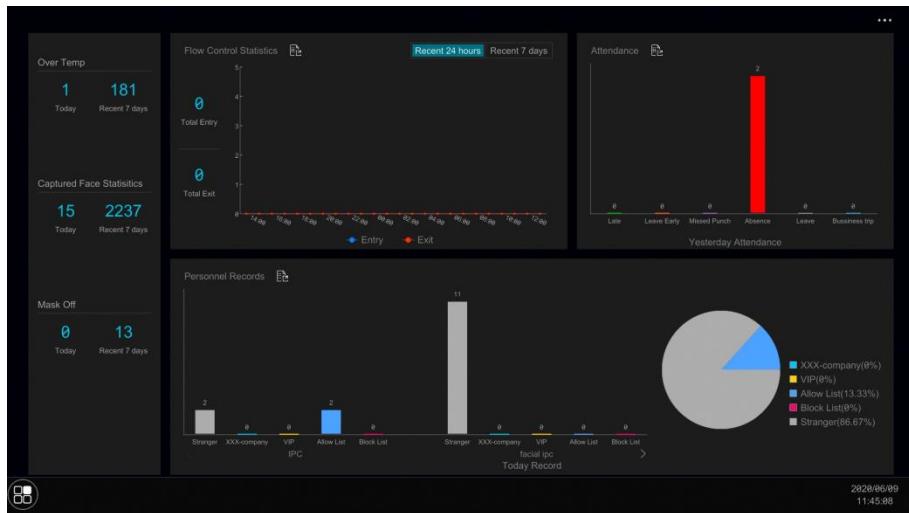


Click Start→ Statistics. This will bring you to the statistics interface. You can view the 24-hour/7-day statistics of the people entry and exiting.

9 Statistics

9.1 Real-Time Statistics

In the live display interface, click Start→ Statistics to go to the following interface.



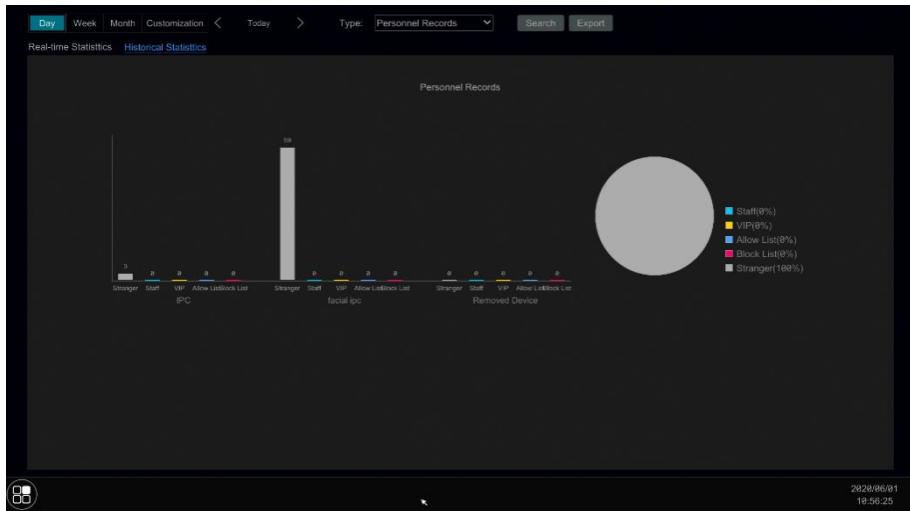
In the above interface, you can view the bar graph and pie chart of the statistical information.

Various statistical information can be viewed, such as over temperature counts, captured face counts, non-mask counts, people entry& exiting counts, attendance statistics and personnel records.

The statistical information of the people entry and exiting, attendance and personnel records can be exported by clicking

9.2 Historical Statistics

Click to enter the historical statistics interface.



Select the searched time period.

Select the statistical type. Six options: flow control statistics, attendance, personnel records, over temp, captured face statistics and mask off.

Click "Search" to view the statistics during the specified time.

Click "Export" to export the statistical data.

Click the "Real-time Statistics" tab to return to the statistics interface.

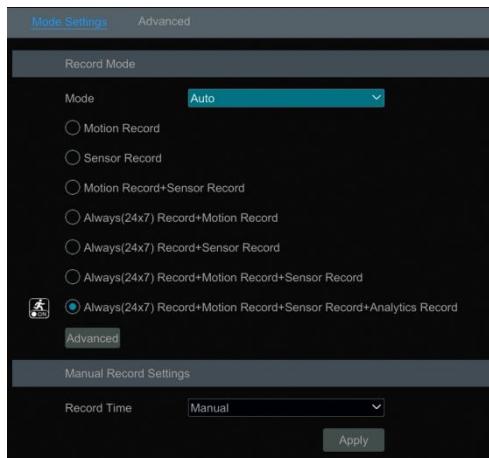
Right click on the interface to return to the live display interface.

10 Record & Disk Management

10.1 Record Configuration

10.1.1 Mode Configuration

Please format the HDDs before recording (refer to [10.5.1 Disk Management](#) for details). Click Start→Settings→Record→Mode Settings to go to the mode settings interface. You can set the record time under the “Manual Record Settings” and then click “Apply” to save the settings. There are two record modes: auto mode and manual mode.



3. Auto Mode

Motion Record: Motion alarm record will be enabled when motion alarm happens.

Sensor Record: Sensor alarm record will be enabled when sensor alarm happens.

Motion Record + Sensor Record: Motion/sensor alarm record will be enabled when motion/sensor alarm happens.

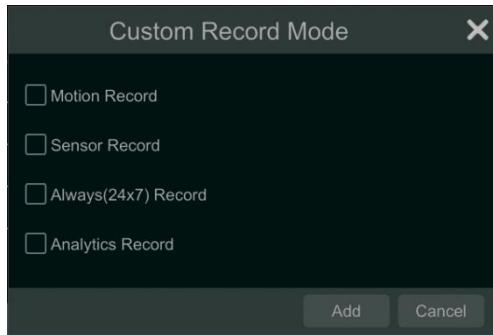
Always(24 x7) Record + Motion Record: Normal record is enabled all the time; motion alarm record will be started when motion alarm happens.

Always(24 x7) Record + Sensor Record: Normal record is enabled all the time; sensor alarm record will be started when sensor alarm happens.

Always(24 x7) Record + Motion Record + Sensor Record: Normal record is enabled all the time; motion/sensor alarm record will be enabled when motion/sensor alarm happens.

Always(24 x7) Record + Motion Record + Sensor Record + Analytics Record: Normal record is enabled all the time; analytics record will be enabled when analytics alarm happens.

You can add more auto modes on analytics record. Click “Advanced” to pop up a window as shown below. Check the modes in the window and then click “Add” to show the modes in the record mode list (in the window, the checked modes can be shown in the record mode list while the unchecked modes cannot; you shall check “**Analytics Record**”).



Select one auto mode to pop up the corresponding window. Set the encode, GOP, resolution, FPS, bitrate type, quality, max bitrate and audio of each camera and then click “OK” to save the settings. Please adjust the parameters according to the actual condition.



Video Encode: the available options will be H.265 and H.264 if the connected IP camera supports H.265, or the option will be H.264 only.

Resolution: the higher the resolution is, the clearer the image is.

FPS: the higher the frame rate is, the more fluency the video is. However, more storage room will be taken up.

Bitrate Type: CBR and VBR are optional. CBR means that no matter how much change is seen in the video scene, the compression bitrate will be kept constant. VBR means that the compression bitrate will be adjusted according to scene changes. For example, for scenes that do not have much movement, the bitrate will be kept at a lower value. This will help to optimize the network bandwidth.

Quality: When VBR is selected, you need to choose image quality. The higher the image quality you choose, the more bitrate will be required.

Max Bitrate: 32Kbps ~10240Kbps are optional.

GOP: group of pictures.

4. Manual Mode

If the manual mode is selected, you need to set the encode parameters and record schedules of each camera. See [10.2 Encode Parameters Settings](#) and [10.3 Schedule Settings](#) for details.

10.1.2 Advanced Configuration

Click Start→Settings→Record→Advanced to go to the following interface. Enable or disable cycle record (cycle record: the earliest record data will be replaced by the latest when the disks are full). Choose the record stream. Set the pre-alarm record time, post-alarm record time and expiration time of each camera and then click “Apply” to save the settings.

Camera Name	Pre-alarm Record Time	Post-alarm Record Time	Expiration Time
IP Camera1	5 Secs	10 Secs	Never Expire
IP Camera02	5 Secs	10 Secs	Never Expire
name109	5 Secs	10 Secs	Never Expire
IPC	5 Secs	10 Secs	Never Expire

Pre-alarm Record Time: set the time to record before the actual recording begins.

Post-alarm Record Time: set the time to record after the actual recording is finished.

Expiration Time: set the expiration time for recorded video. If the set date is overdue, the recorded data will be deleted automatically.

10.2 Encode Parameters Settings

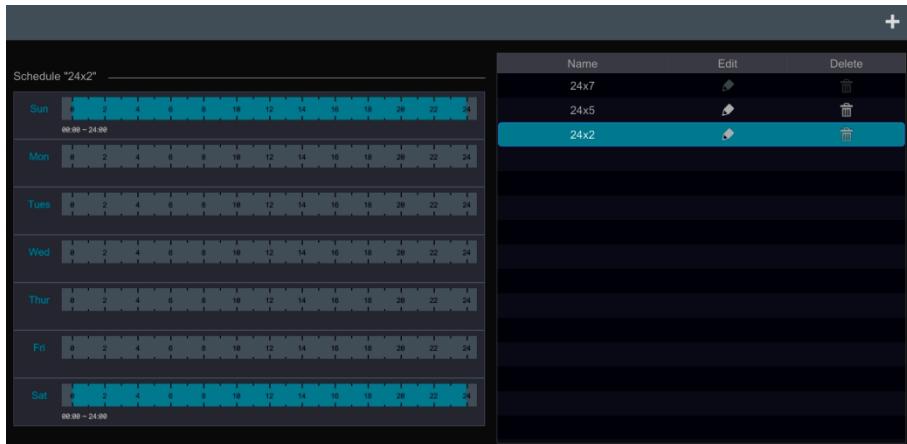
Click Start→Settings→Record→Encode Parameters to go to the interface as shown below. Set the encode, resolution, FPS, GOP, bitrate type, quality, max bitrate and audio of main stream for each camera in “Event Recording Settings” and “Schedule Recording Settings” interfaces. Click “Apply” to save the settings. You can set the record stream of each camera one by one or set them in bulk for all cameras.

Camera Name	Stream Type	Encode	Resolution	FPS	Bitrate Type	Quality	Max Bitrate	Bitrate Limit Recommended
IP Camera1	Main Stream	H.265	3840x2160	30	VBR	Higher	5120Kbps	5632~19338Kbps
IP Camera02	Main Stream	H.265	2160x2160	30	VBR	Higher	3072Kbps	5632~10848Kbps

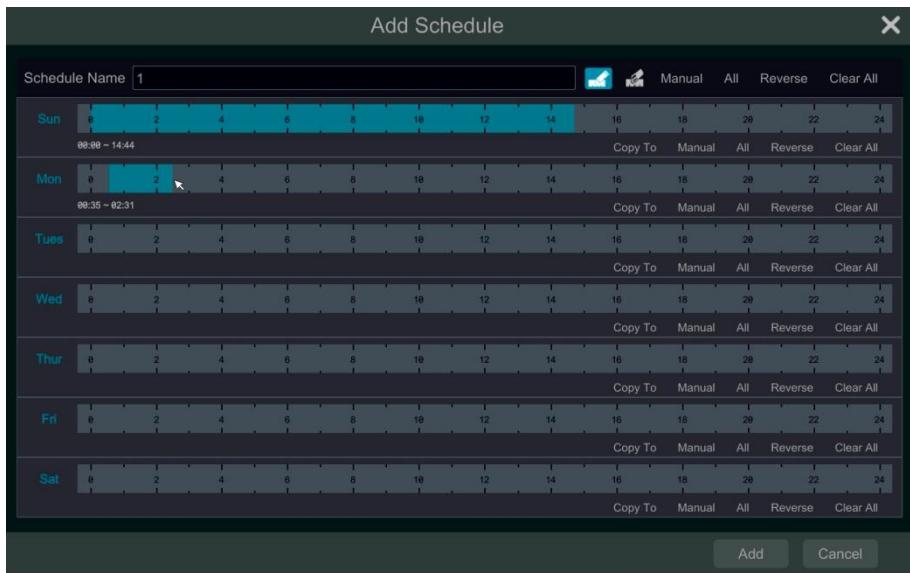
10.3 Schedule Settings

10.3.1 Add Schedule

When the record mode is set to “Manual”, you can click Start→Settings→Record→Record Schedule→Edit Schedules or click Start→Settings→Alarm→Event Notification→Edit Schedules to go to the interface as shown below (or click Start→Settings→AI/Event→Event Notification→Edit Schedule). “24 x 7”, “24 x 5” and “24 x 2” are the default schedules; you cannot edit or delete “24 x 7” while “24 x 5” and “24 x 2” can be edited and deleted. Click the schedule name to display the detailed schedule information on the left side of the interface. The seven rows stand for the seven days in a week and each row stands for 24 hours in a day. Blue stands for the selected time and gray stands for unselected time.



Click to add a new schedule. Refer to the picture below.

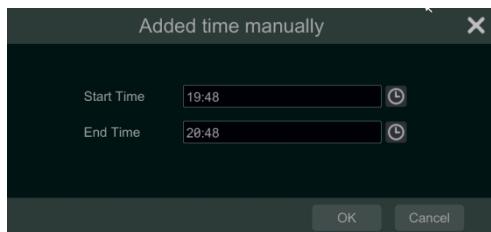


Set the schedule name and schedule time and then click “Add” to save the schedule. You can set day schedule or week schedule. : add button; : delete button.

5. Set Day Schedule

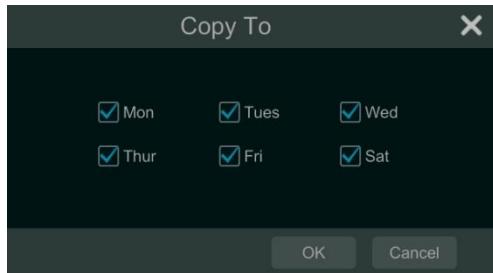
Click and then drag the cursor on the time scale to set record time; click and then drag the cursor on the time scale to delete the selected area.

You can manually set the record start time and end time. Click or and then click “Manual” on each day to pop up a window as shown below. Set the start and end time in the window and then click “OK” to save the settings.



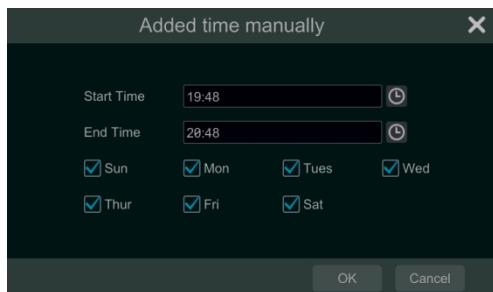
Click “All” to set all day recording; click “Reverse” to swap the selected and unselected time in a day; click “Clear All” to clear all the selected area in a day.

Click “Copy To” to copy the schedule of the day to other days. Refer to the picture below. Check the days in the window and then click “OK” to save the settings.



6. Set Week Schedule

Click or and then click “Manual” beside to set the week schedule. Refer to the picture below. Set the start and end time, check the days in the window and then click “OK” to save the settings.



Click “All” to set all week recording; click “Reverse” to swap the selected and unselected time in a week; click “Clear All” to clear all the selected area in a week.

10.3.2 Record Schedule Configuration

Click Start→Settings→Record→Record Schedule→Schedule Configuration to go to the interface as shown below. Only when the record mode is set to “Manual” mode, can this function be activated. Set the schedule of sensor record, motion record, timed record and analytics record. Click “None” in the drop-down menu to clear the schedule. Click “Apply” to save the settings.

Schedule Config		Edit Schedules			
Camera Name	Sensor Record Schedule	Motion Record Schedule	Analytics Record Schedule	Timed Record Sched	
IPC	<None>	<None>	<None>	<None>	<None>
attendance terminal	<None>	<None>	<None>	<None>	<None>
facial ipc	<None>	<None>	<None>	<None>	<None>
ipc	<None>	<None>	<None>	<None>	<None>

Go to “Edit Schedules” interface and then click  to edit the schedule. The settings of “Edit Schedule” are similar to that of the “Add Schedule”. Click  to delete the schedule.

10.4 Record Mode

10.4.1 Manual Recording

Method One: Click  on the tool bar at the bottom of the live preview interface to enable recording of the camera.

Method Two: Go to live preview interface and then click the right-click menu “Manually Record On” in the camera window or click  on the tool bar under the camera window to start recording.

10.4.2 Timing Recording

Timing Recording: the system will record automatically according to the schedule. Set the timing record schedule of each camera. See [10.3 Schedule Settings](#) for details.

10.4.3 Motion Based Recording

Motion Based Recording: the system will start motion-based recording when the motion object appears in the setup schedule. The setup steps are as follows:

1. Set the motion-based recording schedule of each camera. See [10.3 Schedule Settings](#) for details.
2. Enable the motion and set the motion area of each camera. See [12.4.1 Motion Configuration](#) for details.

The camera will start motion-based recording once you finish the above settings.

10.4.4 Sensor Based Recording

1. Set the sensor-based recording schedule of each camera. See [10.3 Schedule Settings](#) for details.
2. Set the NO/NC type of the sensor, enable the sensor alarm and then check and configure the “Record”. See [12.3 Sensor Alarm](#) for details.

10.4.5 Intelligence Recording

1. Set the intelligence recording schedule of each IP camera. See [10.3 Schedule Settings](#) for details.
2. Enable and set the intelligence detection (over temperature, non-mask detection, etc.) See [12 AI/Event Management](#) for details.

The camera will start intelligence recording once you finish the above settings. This function is only available for some devices.

10.5 Disk

10.5.1 Disk Management

➤ Disk Management

Click Start→Settings→Disk→Disk Management to go to disk management interface. You can view the device’s disk number and disk status and so on in the interface. Click “Format” to format the HDD.

Disk Management								
Disk	Free/Capacity(GB)	Disk Serial No.	Disk Model	Status	Type	Cycle Record	Operation	Record P...
Disk8	1731/1863	WD-WCC4M4LC0U45	WDC WD20EURX-64H...	RW(Not Encrypted)	Ordinary Pl...	ON	<button>Format</button>	2019/07/3

Data Encryption:

1. Click “Data Encrypt”.
2. Enter the username and password used to log in the device. This username and password shall have the permission of disk management.
3. Check the disk you want to encrypt and then enter the password.

After you encrypt the data of a disk, this disk cannot be read by other devices unless it is unlocked.

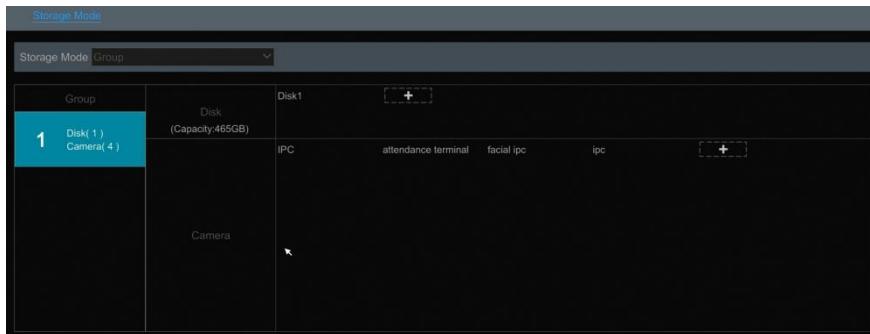
Data Decryption:

- ① Click “Change Encrypt”.
 - ② Enter the username and password used to log in the device. This user shall have the permission of disk management.
 - ③ Check the disk you want to decrypt and then empty the password.
3. Click “Close Encrypt”.

Unlock the disk: when one encrypted disk is transferred from another device to this device, it will be in locked status. Then you can select this locked disk and click “Unlock”. After you enter the password of its data encryption, its status will be “Read Only”. Now you can read the data of this disk, but it cannot be written anything.

10.5.2 Storage Mode Configuration

Click Start→Settings→Disk→Storage Mode to go to the interface as shown below.



There is one disk group.

The added cameras will be added into the group automatically.

For the model with more than one group, each group can add the disks and cameras from other groups. Each disk and camera can only be added into one group. Select a disk group and then click **[+]** in the disk or camera row to pop up a window. Check the disks or cameras in the window and then click “Add”.

10.5.3 View Disk and S.M.A.R.T. Information

Click Start→Settings→Disk→View Disk Information to view the HDD information; click “S.M.A.R.T. Information” to view the working status of the HDD. Refer to the picture below.

The screenshot shows a software interface for viewing disk information. At the top, there are tabs for "Disk" and "S.M.A.R.T. Information", with "S.M.A.R.T. Information" being the active tab. Below the tabs, there is a dropdown menu labeled "Disk" set to "Disk1". The main area displays several key disk parameters:

Disk Serial No.	Z3T6S6BE
Disk Model	ST500DM002-1BD142
Temperature	38
Power-on Time (day)	831
S.M.A.R.T. Status	Normal

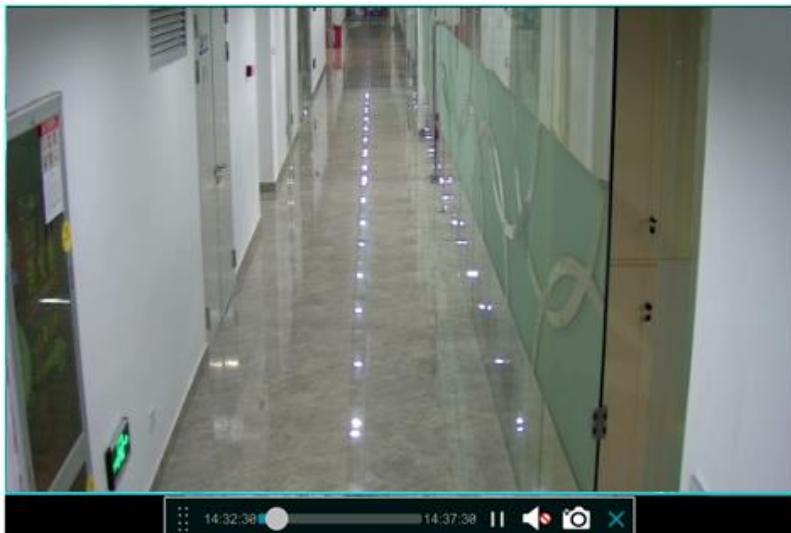
Below these parameters is a detailed table of S.M.A.R.T. attributes. The table has columns for ID, Attribution, Value, Worst Value, Threshold, Raw Value, and Status. The data is as follows:

ID	Attribution	Value	Worst Value	Threshold	Raw Value	Status
0x01	Read Error Rate	100	99	6	2649832	Normal
0x03	Spin-Up Time	100	100	0	0	Normal
0x04	Start/Stop Count	99	99	20	1325	Normal
0x05	Reallocated Sector Count	100	100	36	0	Normal
0x07	Seek Error Rate	82	60	30	816588920	Normal
0x09	Power-On Hours	78	78	0	19928	Normal
0x0a	Spin Retry Count	100	100	97	0	Normal
0x0c	Power Cycle Count	100	100	20	781	Normal
0xb7	SATA Downshift Error Count	89	89	0	11	Normal
0xb8	End-to-End error	100	100	99	0	Normal
0xbb	Reported Uncorrectable Errors	100	100	0	0	Normal
0xbc	Command Timeout	100	100	0	0	Normal
0xbd	High Fly Writes	100	100	0	0	Normal

11 Playback& Backup

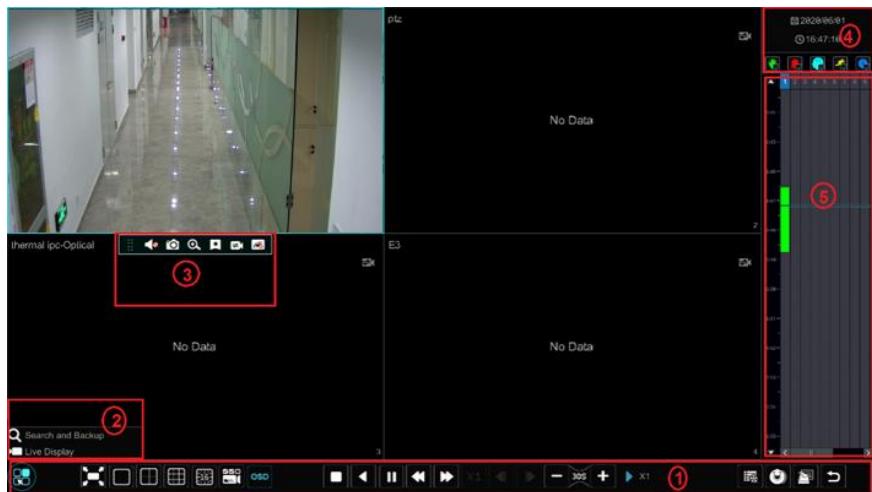
11.1 Instant Playback

Click  on the tool bar at the bottom of the preview camera window to play back the record (click  on the toolbar at the bottom of the live preview interface to set the default playback time). Refer to the picture below. Drag the playback progress bar to change the playback time. You can also click the right-click menu “Instant Playback” in the camera window and then set the instant playback time to play back the record.



11.2 Playback Interface Introduction

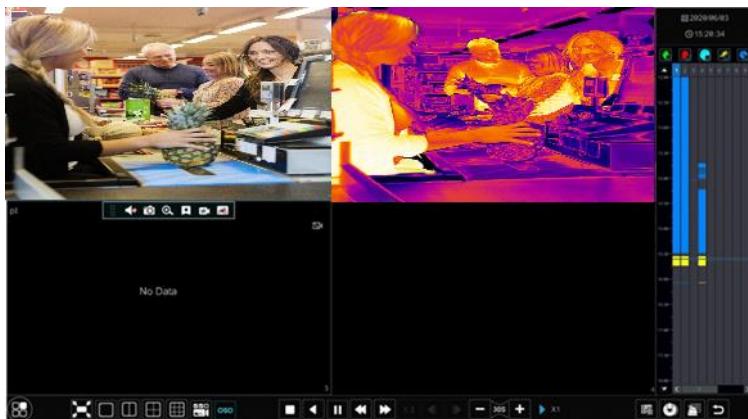
Click  on the tool bar at the bottom of the live preview interface or click Start→Playback to go to the playback interface as shown below (click  on the toolbar at the bottom of the live preview interface to set the default playback time).



On the panel on the right, you will see the channel number and the recorded data coded by color. The bar that runs across them represents the playback time being viewed. You can move this bar around to export, highlight a section of the desired recording, click export and follow the prompts. You can export single or multiple channels at the same time.

The added cameras will playback their records in the playback interface automatically. You can also add the playback camera manually. Click **+** in the playback window to pop up the “Add Camera” window. Check the cameras in the window and then click “Add” to add playback camera. The system supports a maximum of 16 synchronous playback cameras.

For the thermal camera, visible light and thermal image can be played back simultaneously and the body temperature can be viewed on both images. The color of the normal temperature will be blue; the color of the over temperature will be red.



The buttons on the tool bar (area①) at the bottom of the playback interface are introduced in the table below.

Button	Meaning
	Start button. Click it to pop up area ②.
	Full screen button. Click it to show full screen; click it again to exit the full screen.
	Screen mode button (depending on models)
	Select channel. Click it to select the playback channel.
	OSD ON button. Click it to enable OSD; click it again to disable OSD.
	Stop button.
	Rewind button. Click it to play video backward.
	Play button. Click it to play video forward.
	Pause button.
	Deceleration button. Click it to decrease the playing speed.
	Acceleration button. Click it to increase the playing speed.
	Previous frame button. It works only when the forward playing is paused in single screen mode.
	Next frame button. It works only when the forward playing is paused in single screen mode.
	Click to step backward 30s and click to step forward 30s.
	Event list/tag button. Click it to view the event record of manual/schedule/sensor/ motion and the tag information.
	Backup button. Drag the mouse on the time scale to select the time periods and cameras, and then click the button to back up the record.
	Backup status button. Click it to view the backup status.
	Back button. Click it to return.

Introduction of area ②:

Button	Meaning
	Click it to go to record search and backup interface; see 11.3 Record Search, Playback & Backup for details.
	Click it to go to live preview interface; see Chapter 5 Live View Introduction for details.

Click on the playback window to show the tool bar as shown in area ③; right click on the window to show the menu list. The tool bar and menu list are introduced in the table below.

Button	Menu List	Meaning
	--	Move tool. Click it to move the tool bar anywhere.
	Enable Audio	Click it to enable audio. You can listen to the camera audio by enabling audio.
	Snap	Click it to snap.
	Zoom In	Click it to go to the zoom in interface. The zoom in interface is similar to that of the camera window in the live preview interface. Click to pause the record playing; click to play the record. When the record is paused in forward playing mode, you can click to view the previous frame and click to view the next frame.
	Add Tag	Click it to add tag. You can play back the record by searching the added tag. Click it and then enter the tag name in the popup window. Click "Add" to add tag.
	Switch Camera	Click it to switch the playback camera. Click it and then check the camera in the popup window. Click "OK" to change the camera.
	Close Camera	Click it to close the playback camera.

Introduction of area ④:

Click to set the date; click to set the time and then the playback camera will play the record from the time you set. You can check the record type as required for record playback; first you should click on the tool bar at the bottom of the interface to clear all the playback camera, then check the record type (: manual record; : sensor based record; : motion based record; : schedule record; : intelligence record) and finally click in the playback window to add camera for playback (the record time scale will show the record data of the checked record type only after the above operations).

Introduction of the record time scale (area ⑤):

A tool bar will appear after moving the mouse to the record time scale. Click / to zoom the timeline; click to recover the timeline to 24 hours' ratio. Drag the timeline or slide the scroll wheel of the mouse on the time scale to show the hidden time on the top or bottom of the timeline. You can also click to show the hidden time on the top of the timeline or click to show the hidden time on the bottom of the timeline. Drag the slider at the bottom of the time scale to show the hidden playback cameras.

The record time scale shows different record types with different colors. The green block stands for manual record, red block stands for sensor-based record, yellow block stands for motion based record, blue block stands for schedule record and cyan block stands for intelligence record. Click the record block to set the time and then the playback camera will play the record from the time you set.

Backup Introduction:

1. Insert the storage device into the device. Drag on the color block of the time scale to select the backup area and then right click the area or click  to pop up a backup information window.
2. Click the “Backup” button in the window to pop up the backup window. Select the device, backup path and backup format and then click the “Backup” button. Please choose “Encryption” or “No Encryption” as needed. Then click “OK” to start backing up.
3. Click  to view the backup status after finishing backup.

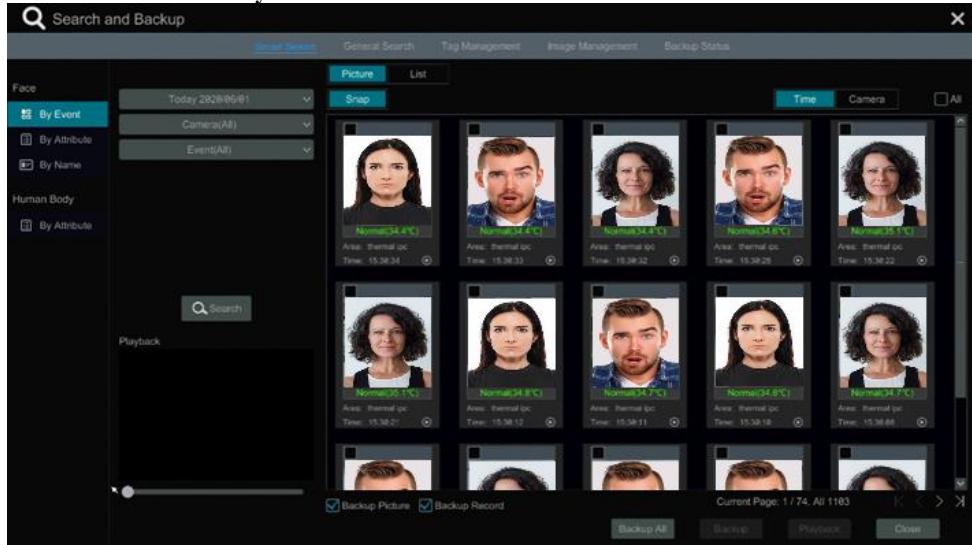
11.3 Record Search, Playback &Backup

The record data and the snapped pictures can be backed up through network, USB (U disk or USB mobile HDD). The file system of the backup devices should be FAT32 format.

11.3.1 Smart Face Search

Click Start→Search and Backup→Smart Search to go to the following interface.

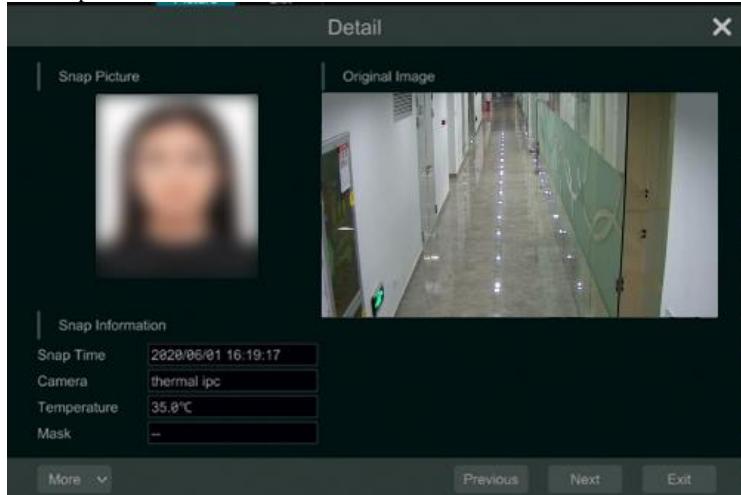
● Face Search by event



1. Select the search time. Click the “Today” tab to select the search time. Please choose the search time as needed. After you select the time and then click “OK” to confirm the time you set.
2. Select the cameras you want to search.
3. Select the events. “All”, “Face Detection”, “Face Matching-Block List”, “Face Matching –Allow list”, “Face Matching –VIP” “Stranger”, or “Stranger” can be selected.
4. Click “Search” to search the captured pictures.

In this interface, you can view the body temperature of the captured people and the snapshot camera and time. Click to play the record in the small playback window on the lower left corner of the interface.

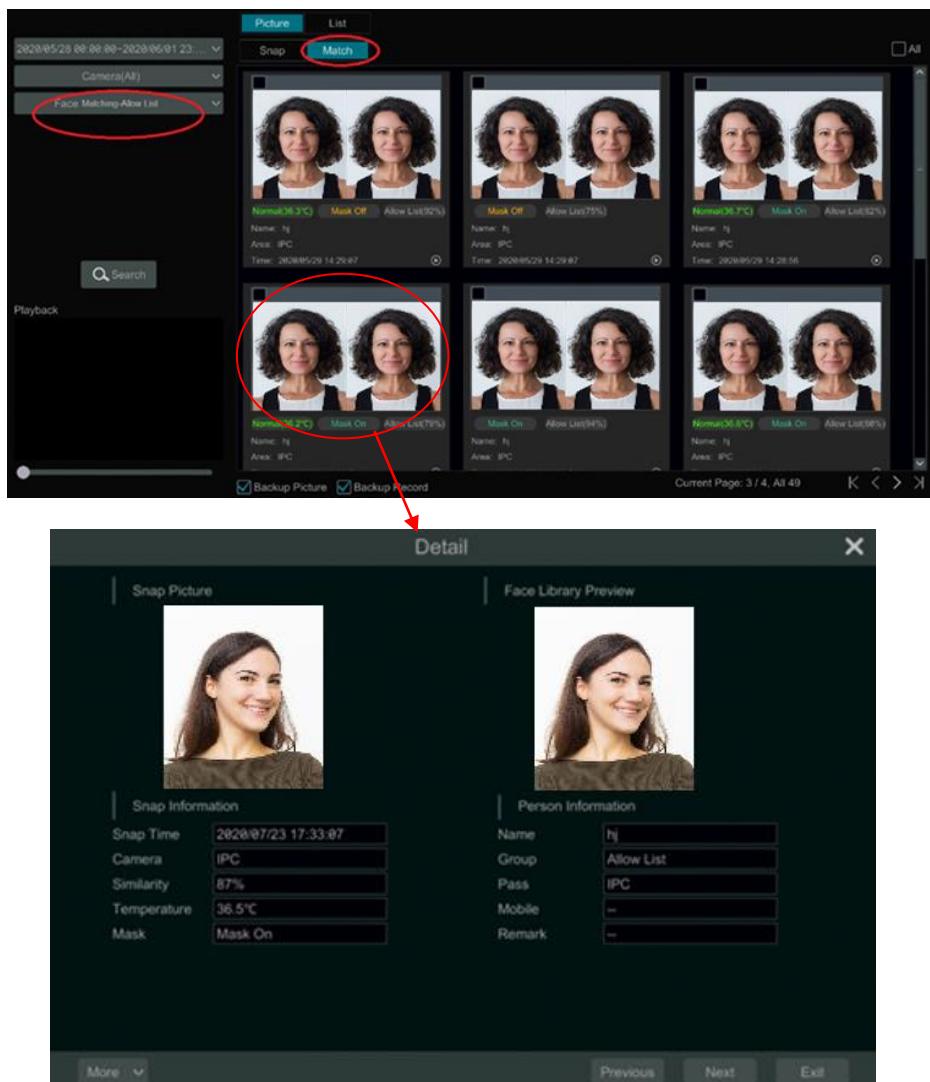
Click the search picture to view its detailed information as shown below.



Select the captured picture, check “Backup Picture” or “Backup Record” and then click “Backup” to back up the captured face picture or record. Select the picture and then click “Playback” to go to the playback interface quickly.

If “Face Matching” type is selected, you can view the face match result. Click “Match” to view the face recognition and comparison details as shown below.

In the face match search interface, you can view the detail information of this captured person, including, the face match pictures, similarity, body temperature, mask status, name of the person, his/her company, etc.



Click the matched picture to pop up a detailed face match box as shown above.

The detailed snapshot information and personal information can be viewed from the detail face match box. Click "More" and then choose "Playback" to view the record quickly. Click "More" and then choose "Export" to back up the captured face picture.

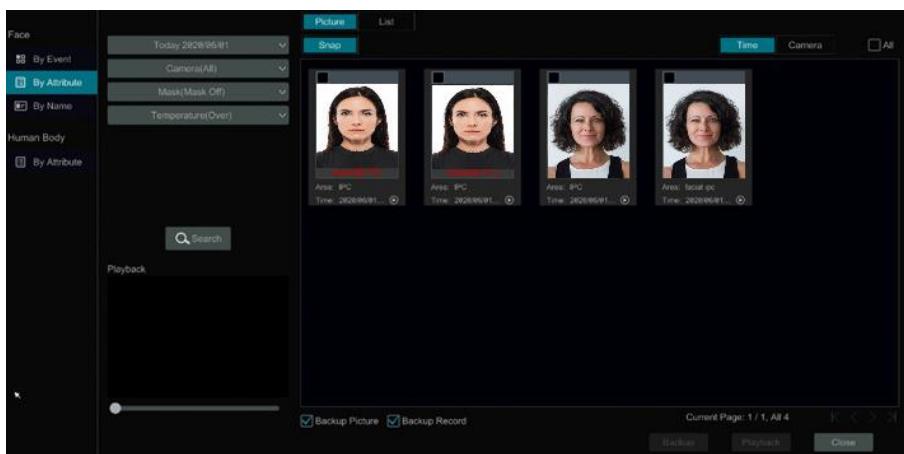
Click the “List” tab to view the snapshot information list as shown below

No.	Name	Snap Time	Personnel T...	Similarity	Temperature	Mask	Area	Details	Backup
1	2	05/13/2020 11:11:58 PM	xxxx	87%	36.8°C	Mask On	IPC		
2	2	05/13/2020 11:11:54 PM	xxxx	85%	--	Mask On	IPC		
3	2	05/13/2020 11:11:56 PM	xxxx	83%	36.1°C	Mask On	IPC		
4	2	05/13/2020 11:11:46 PM	xxxx	84%	--	Mask On	IPC		
5	2	05/13/2020 11:06:33 PM	xxxx	76%	--	Mask On	IPC		
6	2	05/13/2020 11:06:17 PM	xxxx	79%	--	Mask On	IPC		
7	2	05/13/2020 11:06:13 PM	xxxx	76%	--	Mask On	IPC		
8	--	05/13/2020 11:06:12 PM	Stranger	--	--	Mask On	IPC		
9	--	05/13/2020 11:03:14 PM	Stranger	--	--	--	attendance termi...		
10	--	05/13/2020 11:00:25 PM	Stranger	--	--	--	attendance termi...		
11	--	05/13/2020 10:57:57 PM	Stranger	--	--	--	attendance termi...		
12	--	05/13/2020 10:57:18 PM	Stranger	--	--	Mask On	IPC		
13	--	05/13/2020 10:57:10 PM	Stranger	--	--	--	attendance termi...		
14	--	05/13/2020 10:57:09 PM	Stranger	--	--	Mask On	IPC		
15	--	05/13/2020 10:57:09 PM	Stranger	--	--	--	attendance termi...		
16	--	05/13/2020 10:57:05 PM	Stranger	--	--	Mask On	IPC		

Click to view the detailed face match information; click to back up the image.

● Face Search by Attribute

1. Click “By Attribute” and then select the search time. Click the “Today” tab to select the search time. Please choose the search time as needed. After you select the time and then click “OK” to confirm the time you set.
2. Select the cameras you want to search.
3. Select the attribution. Please select the mask status and temperature type as needed.



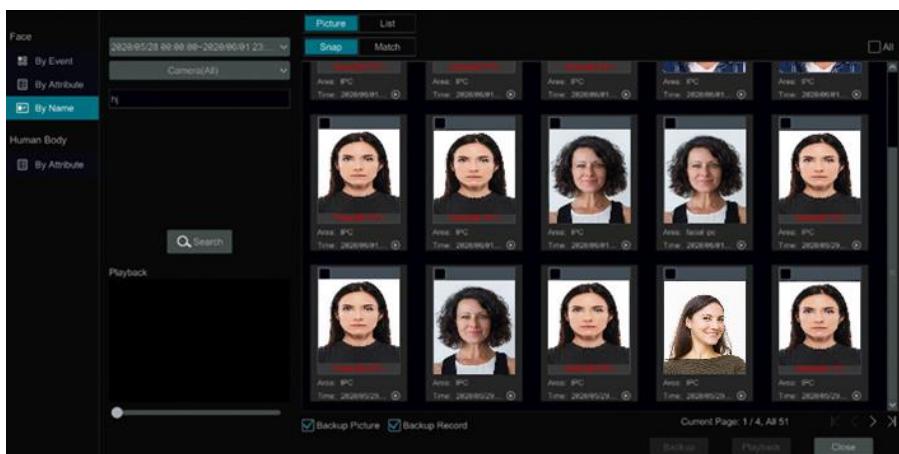
Mask: “All”, “Mask On” or “Mask Off” can be optional.

Temperature: “All”, “Normal” or “Over” can be set. You can also click “Custom Range” to set the temperature range you want to search.

- Click “Search” to search the result.

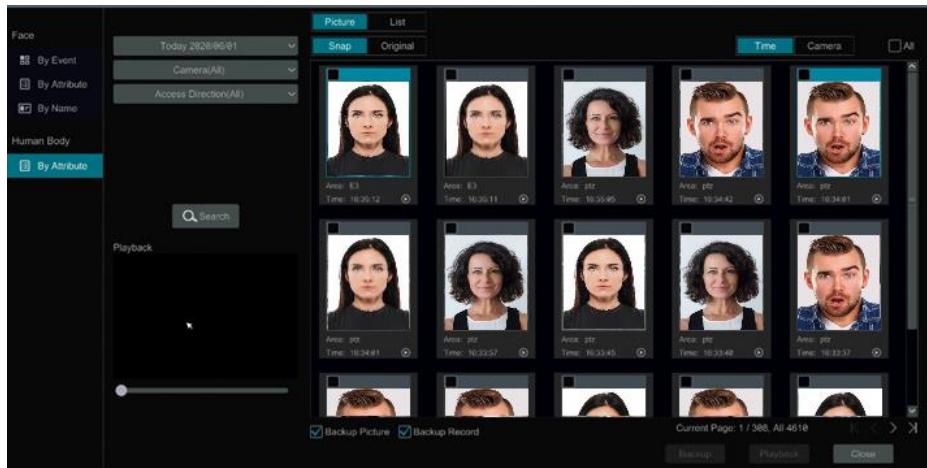
● Search Face by Name

- Click “By Name” and then select the search time. Click the “Today” tab to select the search time. Please choose the search time as needed. After you select the time and then click “OK” to confirm the time you set.
- Select the cameras you want to search.
- Enter the name.
- Click “Search” to view the result.

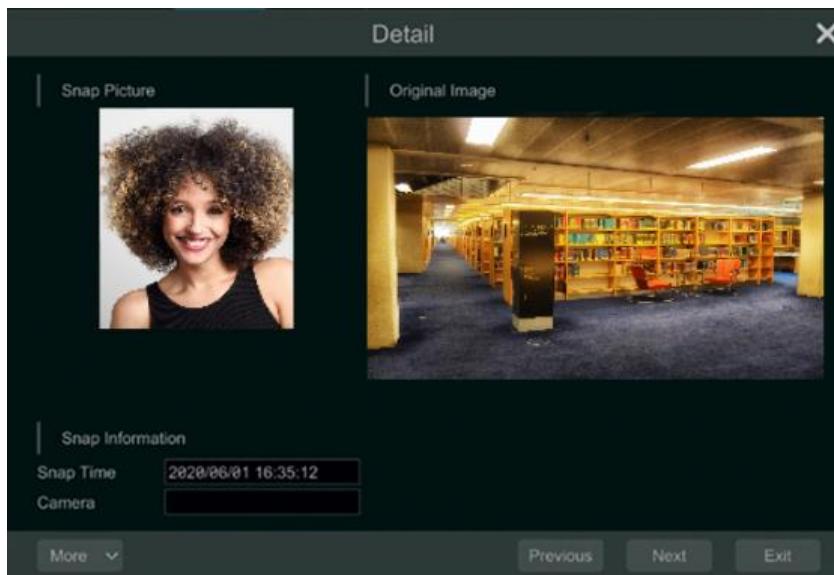


11.3.2 Smart Human Body Search

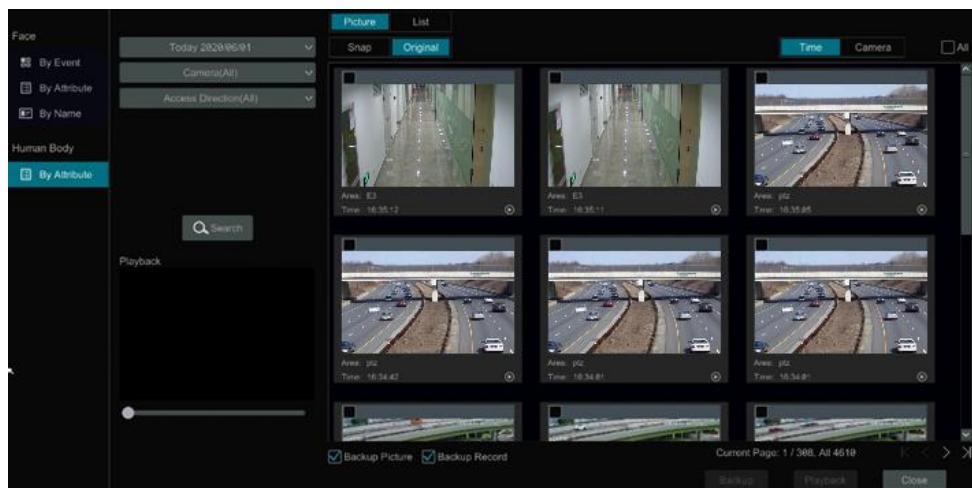
- Click “By Attribute” under “Human Body” and then select the search time. Click the “Today” tab to select the search time. Please choose the search time as needed. After you select the time and then click “OK” to confirm the time you set.
- Select the cameras you want to search.
- Select the access direction as needed.
- Click “Search” to view the result as shown below.



In this interface, you can view the captured people and the snapshot camera and time. Click to play the record in the small playback window on the lower left corner of the interface. Click the captured picture to view the detailed information as shown below.

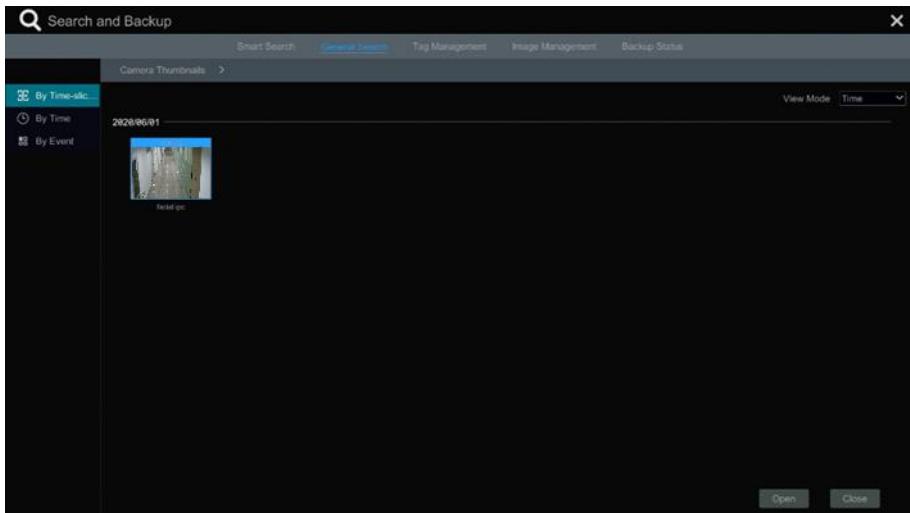


In the above interface, you can view the captured picture and the original image, snap time and camera. Click "More" to view more menus, including "Playback" and "Export". Click the "List" tab to view the list of the searched information. Click the "Original" tab to view the original pictures.



11.3.3 Search by Time-Sliced Image

1. Click Start→Search and Backup→General Search→By Time-sliced Image to go to the following interface.

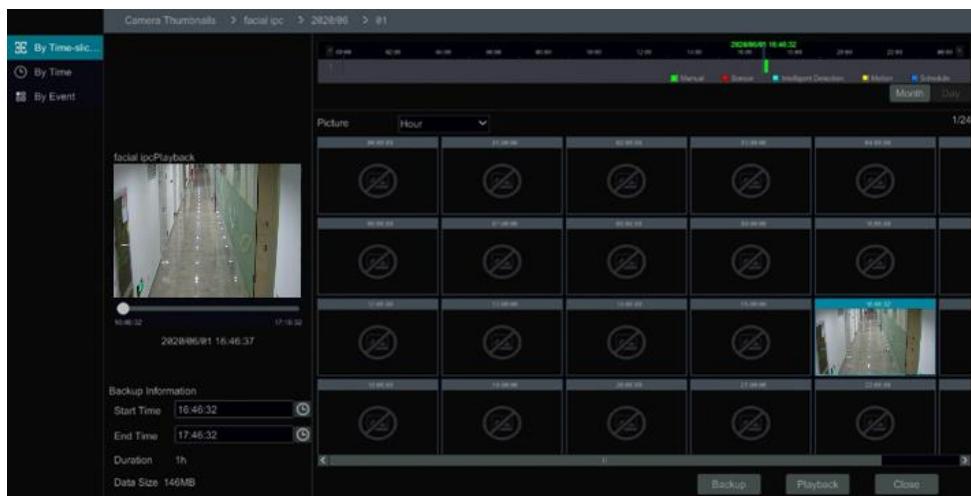


There are two view modes: by time and by camera. In the time view mode, a maximum of 64 camera thumbnails can be shown. If the camera thumbnail number is more than 64, the cameras will be listed directly by their camera name, not the thumbnail. A maximum of 196 camera names can be listed. If the camera name number is more than 196, the time view mode will be disabled and the camera view mode will be available only.

2. Select one camera in the interface and then click the “Open” button.
3. Click the image box to play the record in the small playback box on the left side of the interface (the box which has image inside indicates that the record data exist).
4. Refer to the picture below. Drag the color blocks on the time scale to select the record data and then click the “Backup” button to pop up the “Record Backup” window as shown below. Select the device name, backup format and path and then click the “Backup” button to start the backup.



5. Click “Playback” to play the record in the playback interface (refer to [11.2 Playback Interface Introduction](#) for details). Click “Close” to close the interface.



Time Slice Mode Selecting:

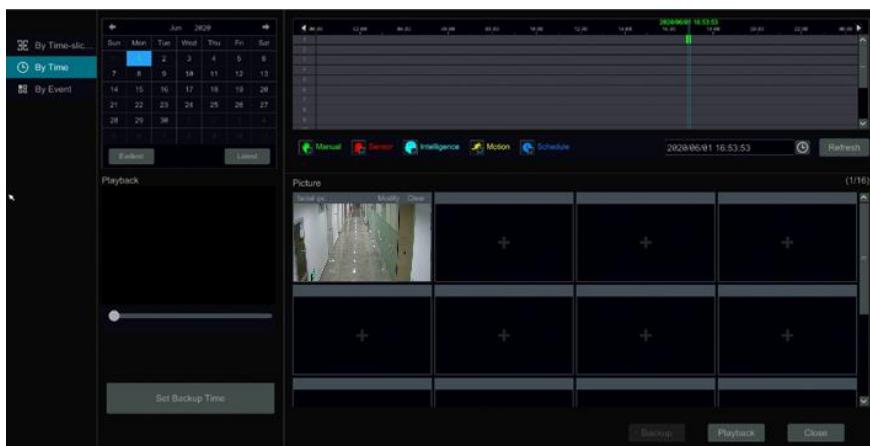
Method One: Click “Year”, “Month” or “Day” button under the record time scale to select the time slice mode. In “Day” mode, click on the left/right side of the time scale to view the record of the last/next day; click “Minute” in the “Picture” option under the time scale to select “Minute” mode (in “Minute” mode, click the time scale to change the time of the 60 display windows) and click “Hour” to select “Hour” mode.

Method Two: Click beside “Camera Thumbnail” on the left top corner of the interface to select the time slice mode.

Method Three: Right-click the mouse on any area of the time-sliced interface to go back to the upper interface.

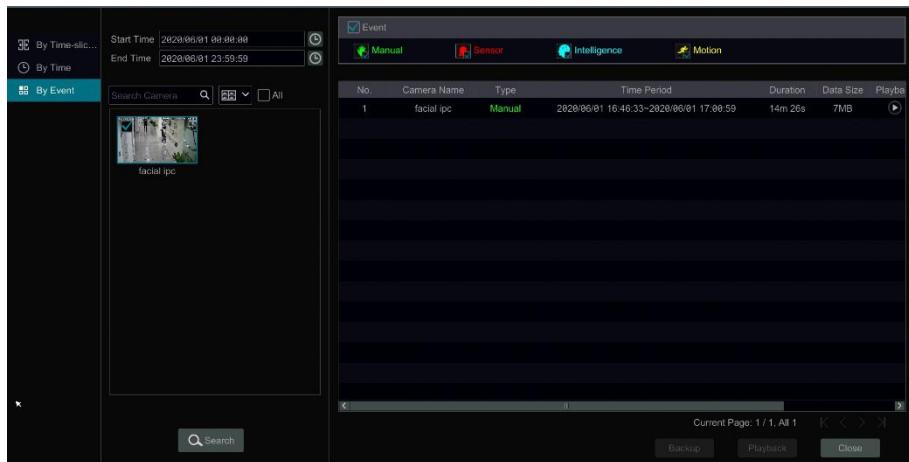
11.3.4 Search by Time

1. Click Start→Search and Backup→General Search→By Time to go to the following interface.
2. Click on the bottom of the interface to add playback camera. A maximum of 16 cameras can be added for playback. Click “Modify” on the top right corner of the camera window to change the camera and click “Clear” to remove the camera.
3. Click the camera window to play the record in the small playback box on the left side of the interface. You can set the date on the top left of the interface, check the event type as required and click the time scale or click under the time scale to set the time. The camera window will play the record according to the time and event type you set.
4. Drag the color blocks on the time scale to select the record data (or click “Set Backup Time” on the bottom left corner of the interface to set the backup start time and end time) and then click “Backup” for record backup. Click “Playback” to play the record in the playback interface.



11.3.5 Search by Event

- Click Start→Search and Backup→General Search→By Event to go to the following interface.

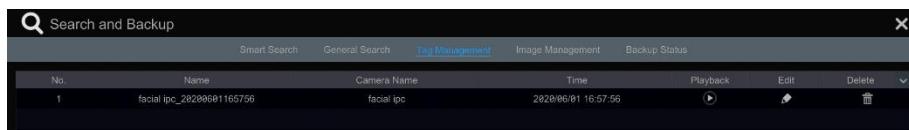


- Check the event type in the interface as required.
- Click to set the start time and end time on the top left of the interface.
- Check cameras on the left side of the interface or check “All” to select all the cameras and then click to search the record. The searched record will be displayed in the list.
- Click in the list to play back the record in the popup window. Click to back up one record data or check multiple record data in the list and then click “Backup” for record batch backup.
- Select one record data in the list and then click “Playback” to play the record in the playback interface.

11.3.6 Search & Playback by Tag

Only if you add the tags can you play the record by tag search. Click Start→Playback to go to the playback interface and then click on the bottom of the camera window to add tag when you want to mark the playback time point of the selected camera.

Click Start→Search and Backup→Tag Management to go to “Tag Management” tab.



Click in the interface to play the record. Click to edit the tag name. Click to delete the tag.

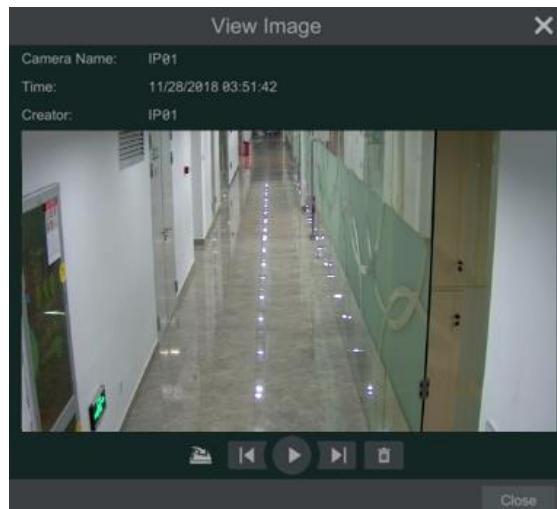
11.3.7 Image Management

Click Start→Search and Backup→Image Management to go to “Image Management” tab. The system will display all the snapped images automatically in the list.

No.	Camera Name	Snapshot Mode	Snapshot Time	Creator	Browse	Export	Delete
1	thermal ipc-Optical	Alarm	2020/06/01 17:18:27	thermal ipc			
2	thermal ipc-Optical	Alarm	2020/06/01 17:18:33	thermal ipc			
3	facial ipc	Alarm	2020/06/01 17:18:48	facial ipc			
4	thermal ipc-Optical	Alarm	2020/06/01 17:18:51	thermal ipc			
5	facial ipc	Alarm	2020/06/01 17:18:51	facial ipc			

Click to delete the image. Click to pop up the “Export” window. Select the device name and save path in the window and then click the “Save” button.

Click to pop up the “View Image” window. Click to export the image. Click to view the previous image; click to view the next image; click to delete the image; click to play all the images.



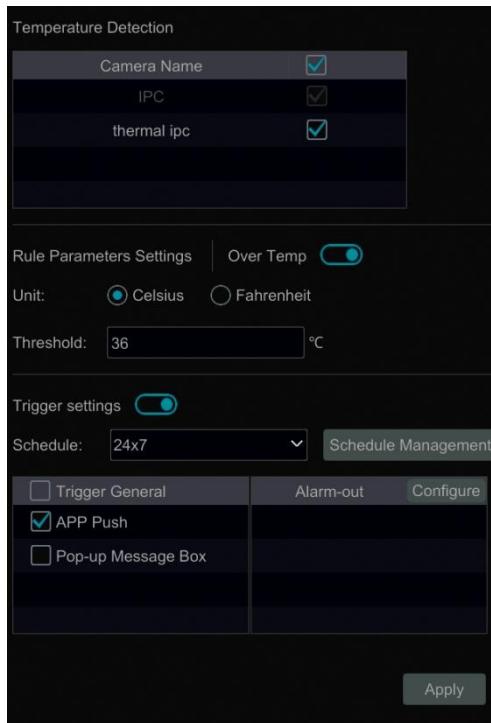
11.3.8 View Backup Status

Click Start→Search and Backup→Backup Status or click on the tool bar at the bottom of the playback interface to view the backup status.

12 AI/Event Management

12.1 Body Temperature Settings

Click Start→Settings→AI/Event→Temperature/Mask to go to the following interface.



1. Enable the temperature detection for temperature measurement devices.
2. Please select Celsius or Fahrenheit temperature as needed.
3. Enable “Over Temp” and set the temperature threshold. If the body temperature measured exceeds this threshold, it will trigger alarm. Over temperature will be shown on the captured face picture and the alarm information will be shown under the real-time warning tab of the live display interface.
4. Alarm linkage settings. Enable “Trigger settings” and then select the schedule. Click “Schedule Management” to set the schedule.

Select “APP Push”, “Pop-up Message Box” and “Alarm-out” as needed.

APP Push: check it and choose ON or OFF. If it is ON, the alarm information will be sent to the mobile APP.

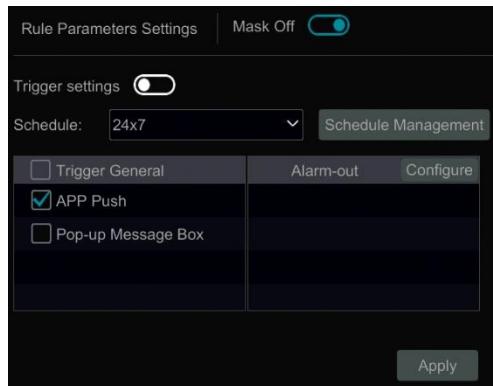
Alarm-out: check it and then the “Trigger Alarm-out” window will pop up automatically. Configure the trigger alarm-out in the window. The system will trigger the alarm-out automatically when the over temperature alarm is triggered. You need to set the delay time and

the schedule of the alarm outputs. See [12.7.1 Alarm-out](#) for details.

Pop-up Message Box: if enabled, the system will pop up the corresponding alarm message box automatically when the over temperature alarm is triggered. To set the duration time of the message box, please see [12.7.3 Display](#) for details.

12.2 Mask Settings

Click Start→Settings→AI/Event→Temperature/Mask to go to the following interface.



1. Turn on “Mask Off”. Then the non-mask detection results of the IP panels/cameras will be received by the device and trigger an alarm. In live view mode, you will view the non-mask alarm information (“mask off”) displayed under the captured face picture in the comparison interface and real-time warning interface.

Note: Before using this function, please ensure that mask detection is supported by the added IP panels/cameras, and it has been enabled.

2. Enable “Trigger settings” and then select the schedule. Select “APP Push”, “Pop-up Message Box” and “Alarm-out” as needed. The setting steps of the alarm linkage are the same as that of the body temperature settings.

3. Click “Apply” to save the settings.

12.3 Sensor Alarm

To complete the entire sensor alarm settings, you should enable the sensor alarm of each camera and then set up the alarm handling of each camera.

- Click Start→Settings→AI/Event→Sensor to go to the following interface.

No.	Alarm Name	Schedule	Type	Enable	Duration	Record	Snapshot	APP Push	Alarm-out
Local-1	Sensor1	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
Local-2	Sensor2	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
Local-3	Sensor3	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
Local-4	Sensor4	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
Local-5	Sensor5	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
Local-6	Sensor6	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
Local-7	Sensor7	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
Local-8	Sensor8	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
IPC-1	Sensor1	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
IPC-2	Sensor2	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
attendanc...	Sensor1	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
attendanc...	Sensor2	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
facial ipc-1	Sensor1	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu
ipc-1	Sensor1	24x7	NO	ON	30 Secs	<input type="checkbox"/> Configure	<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configu

- Select the alarm type (NO or NC) according to trigger type of the sensor.
- Enable the sensor alarm of each camera and select the schedule.
- Check the “Duration”, “Record”, “Snapshot”, “Push”, “Alarm-out” and enable or disable the “Buzzer”, “Pop-up Video”, “Pop-up Message Box” and “E-mail” as required.
- Click “Apply” to save the settings.

The configuration steps of the above-mentioned alarm linkages are as follows.

Duration: it refers to the interval time between the adjacent motion detections. For instance, if the duration time is set to 10 seconds, once the system detects a motion, it will go to alarm and would not detect any other motion (specific to camera) in 10 seconds. If there is another motion detected during this period, it will be considered as continuous movement; otherwise, it will be considered as a single motion.

Record: check it and then the “Trigger Record” window will popup automatically (you can also click the “Configure” button to pop up the window). Select camera on the left side and then click to set the camera as the trigger camera. Select trigger camera on the right side and then click to cancel the trigger camera. Click “OK” to save the settings. The trigger cameras will record automatically when the sensor alarm is triggered.

Snapshot: check it and then the “Trigger Snapshot” window will pop up automatically. Configure the trigger camera in the window. The trigger cameras will capture images automatically when the sensor alarm is triggered.

APP Push: check it and choose ON or OFF. If it is ON, the alarm information will be sent to the mobile APP.

Alarm-out: check it and then the “Trigger Alarm-out” window will pop up automatically. Configure the trigger alarm-out in the window. The system will trigger the alarm-out automatically when the sensor alarm is triggered. You need to set the delay time and the schedule of the alarm outputs. See [12.7.1 Alarm-out](#) for details.

Buzzer: if enabled, the system will begin to buzz when the sensor alarm is triggered. To set the delay time of the buzzer, please see [12.7.4 Buzzer](#) for details.

Pop-up Video: After camera setting, the system will pop up the corresponding video automatically when the sensor alarm is triggered. To set the duration time of the video, please see [12.7.3 Display](#) for details.

Pop-up Message Box: if enabled, the system will pop up the corresponding alarm message box automatically when the sensor alarm is triggered. To set the duration time of the message box, please see [12.7.3 Display](#) for details.

E-mail: if enabled, the system will send an e-mail when the sensor alarm is triggered. Before you enable the email, please configure the recipient's e-mail address first (see [14.1.5 E-mail Configuration](#) for details).

12.4 Motion Alarm

Motion Alarm: when the motion object appears in the specified area, it will trigger the alarm. You should enable the motion of each camera first and then set the alarm handling of the camera to complete the whole configuration of the motion alarm.

12.4.1 Motion Configuration

1. Click Start→Settings→Camera→Motion Settings to go to the following interface.



2. Select the camera, enable the motion and set the sensitivity and duration of the camera.
Sensitivity: the higher the value is, the more sensitive it is to motion. You should adjust the value according to the practical conditions since the sensitivity is influenced by color and time (day or night).
Duration: it refers to the interval time between the adjacent motion detections. For instance, if the duration time is set to 10 seconds, once the system detects a motion, it will go to alarm and would not detect any other motion (specific to camera) in 10 seconds. If there is another motion detected during this period, it will be considered as continuous movement; otherwise, it will be considered as a single motion.
 3. Drag the camera image to set the motion area. You can set more than one motion area. Click “All” to set the whole camera image as the motion area. Click “Reverse” to swap the motion area and the non-motion area. Click “Clear” to clear all the motion areas.
 4. Click “Apply” to save the settings. Click “Processing Mode” to go to the alarm handling configuration interface of the motion alarm.

12.4.2 Motion Alarm Handling Configuration

1. Click Start→Settings→AI/Event→Motion Alarm to go to the following interface.

The screenshot shows a configuration interface for motion alarms. At the top, there are tabs for "Motion" and "Sensor". Below the tabs is a header row with columns for "Camera Name", "Schedule", "Record", "Snapshot", "APP Push", "Alarm-out", and five icons representing "Buzzer", "Pop-up Video", and "E-mail". There are four rows of data corresponding to cameras:

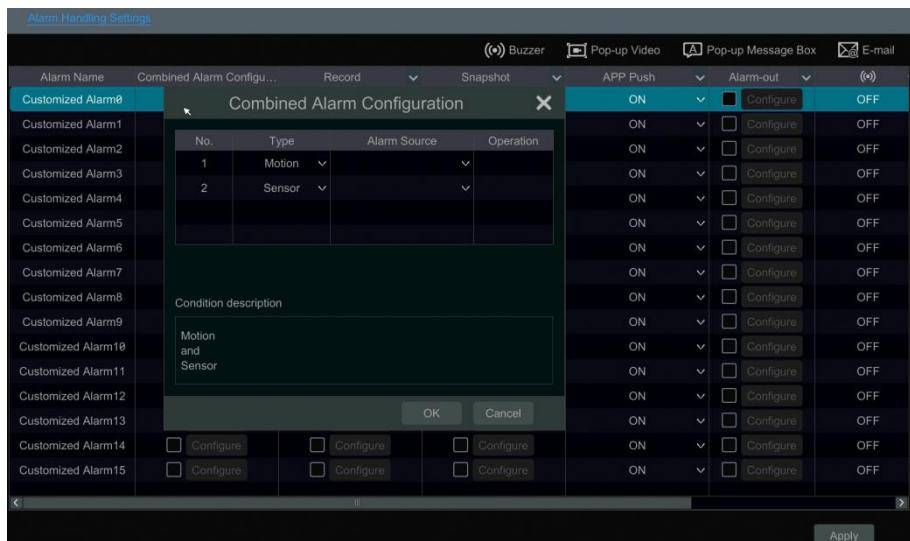
Camera Name	Schedule	Record	Snapshot	APP Push	Alarm-out	(Buzzer)	Pop-up Video	E-mail
IPC	24x7	<input checked="" type="checkbox"/> Configure	<input checked="" type="checkbox"/> Configure	ON	<input type="checkbox"/> Configure	OFF	OFF	OFF
attendance terminal	24x7	<input checked="" type="checkbox"/> Configure	<input checked="" type="checkbox"/> Configure	ON	<input type="checkbox"/> Configure	OFF	OFF	OFF
facial ipc	24x7	<input checked="" type="checkbox"/> Configure	<input checked="" type="checkbox"/> Configure	ON	<input type="checkbox"/> Configure	OFF	OFF	OFF
ipc	24x7	<input checked="" type="checkbox"/> Configure	<input checked="" type="checkbox"/> Configure	ON	<input type="checkbox"/> Configure	OFF	OFF	OFF

At the bottom right of the interface are two buttons: "Motion Settings" and "Apply".

2. Enable or disable “Record”, “Snapshot”, “APP Push”, “Alarm-out”, “Buzzer”, “Pop-up Video” and “E-mail”. The alarm handling setting of motion alarm is similar to that of the sensor alarm (see [12.3 Sensor Alarm](#) for details).
3. Click “Apply” to save the settings. You can click “Motion Settings” to go to the motion configuration interface.

12.5 Combination Alarm

1. Click Start→Settings→AI/Event→Combination Alarm to go to the following interface.
2. Customize combination alarm. Set alarm name and click “Configure” under the Combined Alarm Configuration item. Then select alarm type and alarm source. Finally, click “OK” to save the settings.
3. Enable or disable “Record”, “Snapshot”, “APP Push”, “Alarm-out”, “Buzzer”, “Pop-up Video” and “E-mail”. The alarm handling setting of combination alarm is similar to that of the sensor alarm (see 12.3 Sensor Alarm for details).
4. Click “Apply” to save the settings.



12.6 Exception Alarm

12.6.1 IPC Offline Settings

1. Click Start→Settings→AI/Event→Exception→IPC Offline Settings to go to the interface as shown below.
2. Enable or disable “Snapshot”, “APP Push”, “Alarm-out”, “Buzzer”, “Pop-up Video”, “Pop-up Message Box” and “E-mail”. The IPC Offline Settings are similar to that of the sensor alarm (see [12.3 Sensor Alarm](#) for details).
3. Click “Apply” to save the settings.

The screenshot shows the 'IPC Offline Settings' interface with the 'Exception Handling Settings' tab selected. It displays configuration for three cameras: 'IPC', 'attendance terminal', and 'facial ipc'. Each camera has four rows of settings: Snapshot, APP Push, Alarm-out, and Buzzer. The 'Buzzer' row includes checkboxes for 'Configure' and 'ON/OFF' status. The 'Apply' button is located at the bottom right.

IPC Offline Settings		Exception Handling Settings						
		(⌚) Snapshot	APP Push	Alarm-out	(⌚)	Pop-up Video	Pop-up Message Box	E-mail
IPC		<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configure	OFF	OFF	ON	OFF
attendance terminal		<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configure	OFF	OFF	ON	OFF
facial ipc		<input type="checkbox"/> Configure	ON	<input type="checkbox"/> Configure	OFF	OFF	ON	OFF

12.6.2 Exception Handling Settings

1. Click Start→Settings→AI/Event→Exception→Exception Handling Settings to go to the interface as shown below.

The screenshot shows the 'Exception Handling Settings' interface with the 'Event Type' tab selected. It lists several event types: IP Address Conflict, Disk IO Error, Disk Full, No Disk, Illegal Access, Network Disconnection, and HDD is pulled out. Each event type has three rows of settings: APP Push, Alarm-out, and Buzzer. The 'Buzzer' row includes checkboxes for 'Configure' and 'ON/OFF' status. The 'Apply' button is located at the bottom right.

IPC Offline Settings		Exception Handling Settings					
		APP Push	Alarm-out	(⌚)	Pop-up Message Box	E-mail	
IP Address Conflict		ON	<input type="checkbox"/> Configure	ON	ON	OFF	
Disk IO Error		ON	<input type="checkbox"/> Configure	ON	ON	OFF	
Disk Full		ON	<input type="checkbox"/> Configure	ON	ON	OFF	
No Disk		ON	<input type="checkbox"/> Configure	ON	ON	OFF	
Illegal Access		ON	<input type="checkbox"/> Configure	ON	ON	OFF	
Network Disconnection		ON	<input type="checkbox"/> Configure	ON	ON	OFF	
HDD is pulled out		ON	<input type="checkbox"/> Configure	ON	ON	OFF	

2. Enable or disable “APP Push”, “Alarm-out”, “Buzzer”, “Pop-up Message Box” and “E-mail”. The exception handling settings are similar to that of the sensor alarm (see [12.3 Sensor Alarm](#) for details).
3. Click “Apply” to save the settings.

12.7 Alarm Event Notification

12.7.1 Alarm-out

- Click Start→Settings→AI/Event→Event Notification to go to the following interface.

The screenshot shows a table titled "Alarm-out" with a header row containing columns for No., Name, Delay, Schedule, and Test. There are five rows of data:

No.	Name	Delay	Schedule	Test
Local-1	AlarmOut1	10 Secs	24x7	<button>Test</button>
Local-2	AlarmOut2	10 Secs	24x7	<button>Test</button>
Local-3	AlarmOut3	10 Secs	24x7	<button>Test</button>
Local-4	AlarmOut4	10 Secs	24x7	<button>Test</button>
IP Camera03-1	AlarmOut1	10 Secs	24x7	<button>Test</button>

At the bottom right of the interface is a "Apply" button.

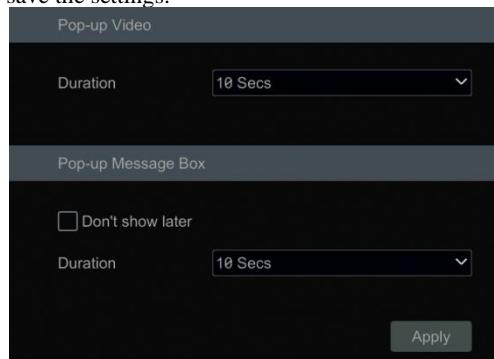
- Set the delay time and the schedule of each alarm-out. You can click “Edit Schedules” to edit the schedules (see [10.3.1 Add Schedule](#) for details).
- Click “Apply” to save the settings. You can click “Test” to test the alarm output.

12.7.2 E-mail

Click Start→Settings→AI/Event→Event Notification→E-mail to go to the e-mail configuration interface. Set the e-mail address of the recipients. See [14.1.5 E-mail Configuration](#) for details.

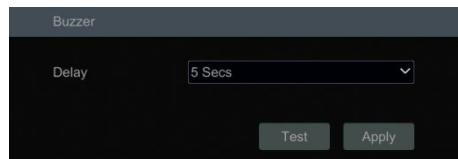
12.7.3 Display

Click Start→Settings→AI/Event→Event Notification→Display to go to the display configuration interface. Set the duration time of the pop-up video and the pop-up message box. If your device support two outputs, please set the output of the pop-up video as needed. After that, click “Apply” to save the settings.



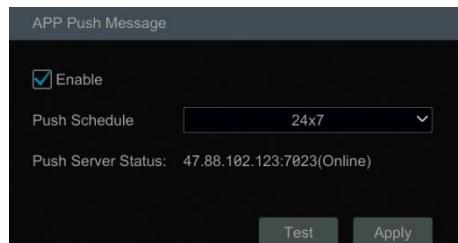
12.7.4 Buzzer

Click Start→Settings→AI/Event→Event Notification→Buzzer to go to the buzzer configuration interface. Set the delay time of the buzzer and then click “Apply” to save the setting. You can click “Test” to test the buzzer.



12.7.5 APP Push Message

Click Start→Settings→AI/Event→Event Notification→APP Push Message to go to the interface as shown below. Check “Enable” and then click “Apply” to save the settings. Click “Test” to test the push server connection status. If Push Server is online, it will push messages to the mobile APP.



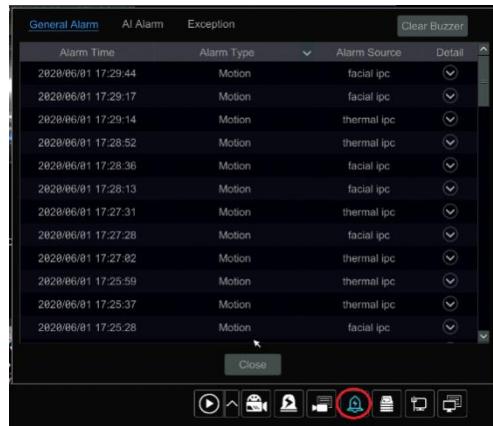
12.8 Manual Alarm

Click on the tool bar at the bottom of the live preview interface to pop up a window. Click “Trigger” to start alarm. Click “Clear” to stop alarm.

Alarm-out Name	Status	Trigger	Clear
AlarmOut1	Normal		
AlarmOut2	Normal		
AlarmOut3	Normal		
AlarmOut4	Normal		
IP Camera1_AlarmOut1	Normal		
IP Camera2_AlarmOut1	Normal		

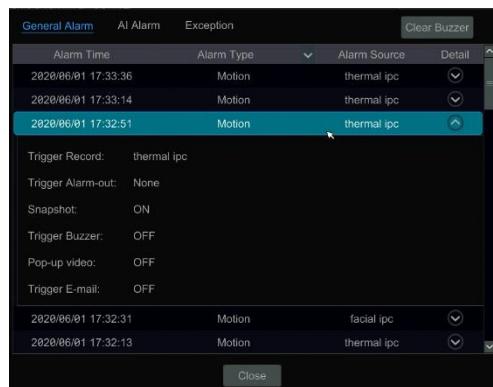
12.9 View Alarm Status

Click Start→Settings→Alarm→Alarm Status or click  on the tool bar at the bottom of the live preview interface to view the alarm status.



Three types of alarm status can be viewed, including “General Alarm”, “AI Alarm” and “Exception”.

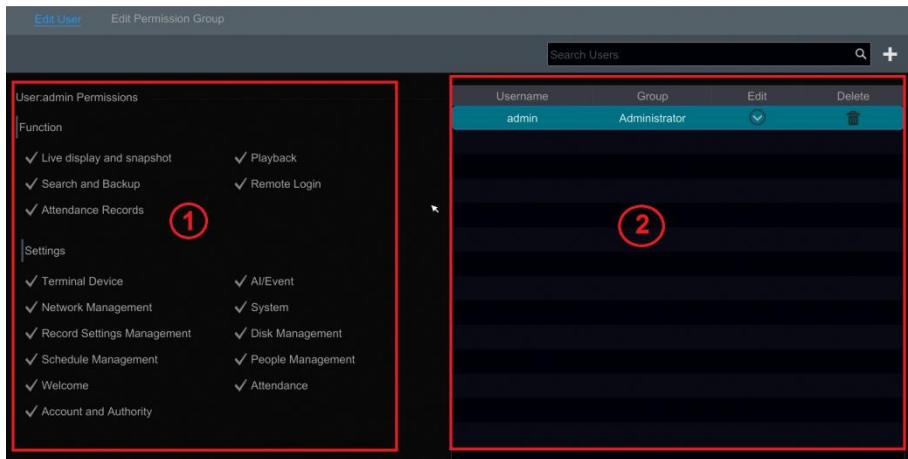
Click “Clear Buzzer” to stop the buzzer when the buzzer alarm happens. Click  to view the detail information as shown below.



13 Account & Permission Management

13.1 Account Management

Click Start→Settings→Account and Authority→Account→Edit User to go to the interface as shown below.



Area ① displays the user permissions. Area ② displays the user list. Click the user in the list to display its user permissions in area ①.

There are three default permission groups ("Administrator", "Advanced" and "Common") available when adding accounts. You can manually add new permission group (see [13.3.1 Add Permission Group](#) for details).

Only **admin** and the users that have the "Account and Authority" permission can manage the system's accounts. Group "Administrator" owns all the permissions displayed in area ① except "Account and Authority" and its permissions cannot be changed while the permissions of "Advanced" and "Common" can be changed.

13.1.1 Add User

1. Click Start→Settings→Account and Authority→Account→Add User or click beside the search box to pop up the window as shown below.

The screenshot shows a dark-themed dialog box titled "Add User". It contains fields for entering a username, password, and confirm password. There are checkboxes for "Display Password" (unchecked) and "Allow Modify Password" (checked). A "Pattern Lock" section includes an "Enable" checkbox and an "Edit" button. An "E-mail" field is present, and a "Group" dropdown menu is set to "Administrator". At the bottom are "Add" and "Cancel" buttons.

Username	Enter Username
Password	Enter Password
Confirm Password	Enter Password
<input type="checkbox"/> Display Password	
<input checked="" type="checkbox"/> Allow Modify Password	
Pattern Lock	<input type="checkbox"/> Enable Edit
E-mail	
Group	Administrator

Add Cancel

- Set the username, password and group. User can also set the pattern lock here. The e-mail address and MAC address are optional (enter the MAC address after you check it). Click “Add” to add the user.

13.1.2 Edit User

Click Start→Settings→Account and Authority→Account→Edit User and then click  in the user list or double click the user to edit the user information. Click  to delete the user (the user **admin** cannot be deleted).

Username	Group	Edit	Delete
admin	Administrator		
1	Administrator		

Buttons at the bottom of the table:

- Modify Password
- Modify Pattern Lock
- Edit User
- Edit Security Question

Buttons at the bottom of the user row:

- Edit User
- Recover Password

7. Edit Security Question

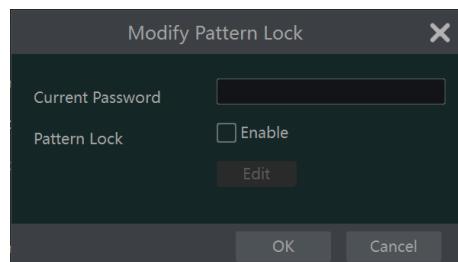
You can set password security only for **admin**. Click “Edit Security Question” and then set questions and answers in the popup window. The passwords of other users can be recovered by **admin** or the users that have the “Account and Authority” permission.

8. Modify Password

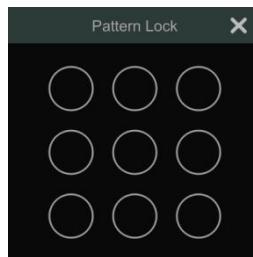
Only the password of **admin** can be modified. Click “Modify Password” to pop up a window. Enter the current password and then set new password. Click “OK” to save the settings.

9. Modify Pattern Lock

Click “Modify Pattern Lock” to pop up a window.



Input current password and then check “Enable” to set pattern lock.

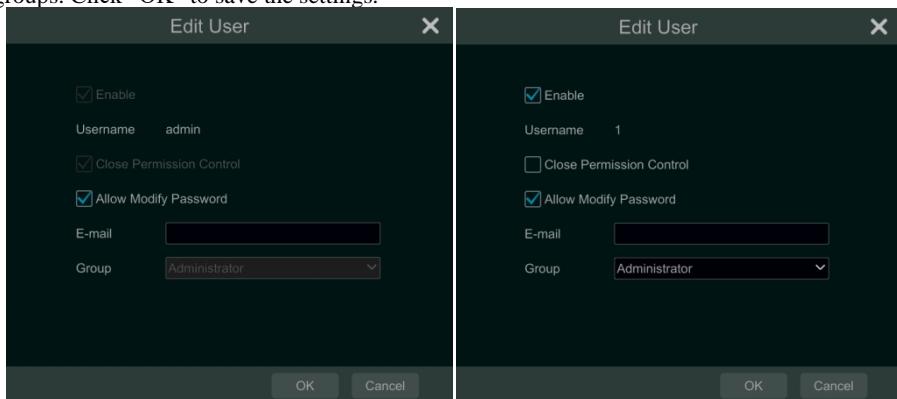


10. Recover Password

Click “Recover Password” to reset the password to **123456**.

11. Edit User

Click “Edit User” to pop up the window as shown below. The **admin** is enabled, its permission control is closed, and permission group cannot be changed by default. You can enable or disable other users (if disabled, the user will be invalid), open or close their permission control (if closed, the user will get all the permissions which **admin** has) and set their permission groups. Click “OK” to save the settings.



13.2 User Login & Logout

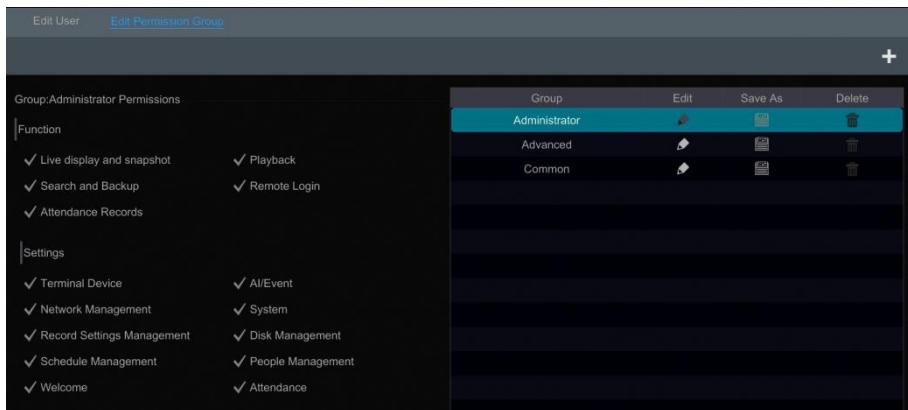
Login: Click Start→Login or directly click the preview interface and then select username and enter the password in the popup window. Click the “Login” button to log in the system.

Logout: Click Start→Logout or click Start→Shutdown to pop up the “Shutdown” window. Select “Logout” in the window and then click “OK” to log out the system.

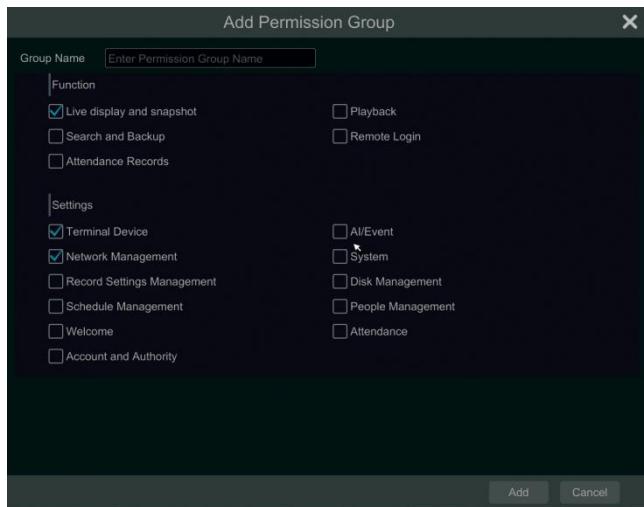
13.3 Permission Management

13.3.1 Add Permission Group

Click Start→Settings→Account and Authority→Account→Edit Permission Group to go to the interface as shown below.



Click **+** to add permission group. Set the group name and check the permissions as required. Click “Add” to save the settings.

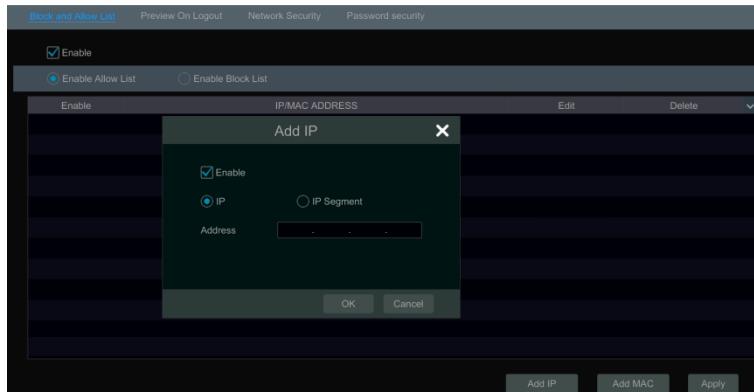


13.3.2 Edit Permission Group

Go to “Edit Permission Group” interface and then click in the group list to edit the permission group (the operations of the “Edit Permission Group” are similar to that of the “Add Permission Group”, please see [13.3.1 Add Permission Group](#) for details). Click to save the group as another group. Click to delete the permission group. The three default permission groups (“Administrator”, “Advanced” and “Common”) cannot be deleted.

13.4 Block and Allow List

- Click Start→Settings→Account and Authority→Security to go to the following interface.

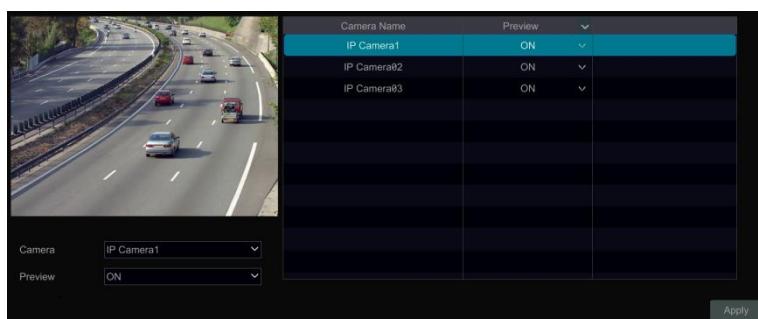


- Check “Enable” and then choose “Enable Allow List (white list)” or “Enable Block List (black list)” (the PC client of which the IP address is in the white list can access device remotely while the PC client in the black list cannot).
- Add IP/IP segment/MAC. Click “Add IP” or “Add MAC” and then check “Enable” in the popup window (only if you check it can the IP/IP segment/MAC you add be effective). Enter the IP/IP segment/MAC and then click “OK”. In the above interface, click to edit IP/IP segment/MAC, click to delete it. Click “Apply” to save the settings.

13.5 Preview On Logout

Click Start→Settings→Account and Authority→Security→Preview on Logout to go to the following interface.

Set a camera and then enable or disable the preview permission on logout as required. If a camera’s preview permission on logout is “ON”, you can view the live image of the camera when the system is logged out, or the live image of the camera cannot be seen when logged out.



13.6 Network Security

Click Start→Settings→Account and Authority→Security→Network Security to go to the following interface. You can enable APR Guard.

Network Card ARP Guard Gateway Auto Gateway MAC Gateway MAC Detection Defense					
Ethernet Port 1	<input checked="" type="checkbox"/>	10.10.0.1	<input type="checkbox"/>	04:F9:3E:AD:13:26	<input type="checkbox"/>
Ethernet Port 2	<input type="checkbox"/>	192.168.3.1	<input type="checkbox"/>	00:00:00:00:00:00	<input type="checkbox"/>

ARP Guard: Address Resolution Protocol Guard. This function can protect the LAN from APR attack and make the network run smoothly. If it is enabled, you can enable auto gateway MAC or manually set gateway MAC. Additionally, detection defense also can be enabled as needed.

13.7 Password Security

Click Start→Settings→Account and Authority→Security→Password Security to go to the following interface.

Password security

Level	<input type="button" value="Weak"/>
Expiration Time	<input type="button" value="Never Expire"/>

In this interface, you can set the level and expiration time of the password.

13.8 View Online User

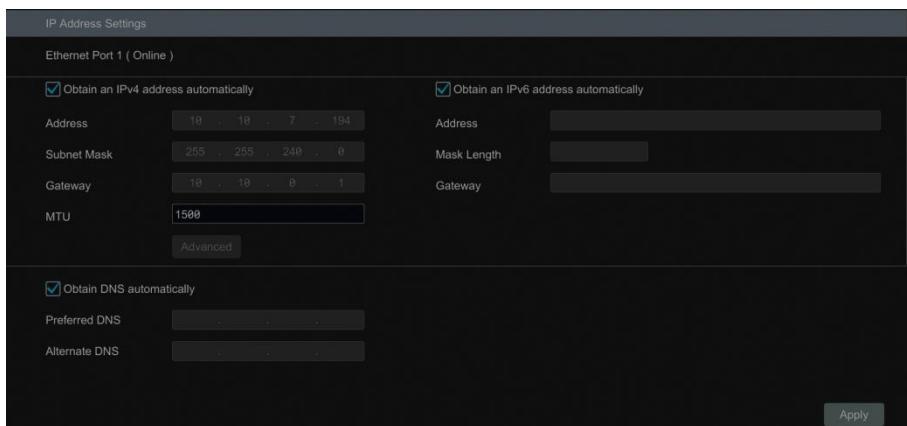
Click Start→Settings→Account and Authority→User Status to view the online user information (you can view the online user name, login type, IP address and login time; click  to pop up a window showing the preview occupied channel number and playback occupied channel number).

14 Device Management

14.1 Network Configuration

14.1.1 TCP/IP Configuration

Click Start→Settings→Network→TCP/IP to go to the following interface. Check “Obtain an IPv4 address automatically”, “Obtain an IPv6 address automatically” and “Obtain DNS automatically” to get the network addresses automatically, or manually enter the network addresses. You can modify the MTU value according to the network condition (MTU, Maximum Transmission Unit, can be modified according to network condition for higher network transmission efficiency). Click “Apply” to save the settings.



Note:

- **Internal Ethernet Port**

If you use the device with the PoE network ports, click “Internal Ethernet Port” to go to the following interface.

The internal Ethernet port is the port which is used to connect all the PoE ports with the device system. The PoE ports are available if the internal Ethernet port is online; if it is offline, all the PoE ports will be unavailable, may be the internal Ethernet port is broken. The network addresses of the internal Ethernet port can be changed to make the port in the same network segment with the IP cameras which are directly connected to the PoE ports of the device (it is not recommended to change the network addresses of the internal Ethernet port).

Mode: Long line mode (EPOE mode) or non-long line mode can be selectable. The non-long line mode is the default setting. If the transmission performance of your network cables connected the PoE ports and IPC are not so good or these network cables are very long, you can choose long line mode (EPOE mode).

IP Address Settings

Ethernet Port 1 (Online) Internal Ethernet Port (Online)

Address	192 . 168 . 78 . 1	Address	fe80::ffff:192:168:78:1
Subnet Mask	255 . 255 . 255 . 0	Mask Length	64
Mode	Non-long line mode		

Obtain DNS automatically

Preferred DNS:

Alternate DNS:

14.1.2 Port Configuration

Click Start→Settings→Network→Port to go to the interface as shown below. Enter the HTTP port, HTTPS port and server port of the device, and then click “Apply” to save the settings. You can also enable and set RTSP port (please check “Anonymous” as required).

Port

HTTP Port	80	
HTTPS Port	443	<input type="checkbox"/> Enable
Server Port	6036	

API Server

<input checked="" type="checkbox"/> Enable		
Authentication	Digest	
RTSP Port	554	<input type="checkbox"/> Anonymous

HTTP Port: the default HTTP port of the device is 80. The port number can be changed to others like 81. The port is mainly used to web client access. If you want to access the device through a web browser, you should enter IP address plus HTTP port in the address bar of the web browser like <http://192.168.11.61:81>.

HTTPS Port: the default HTTPS port of the device is 443.

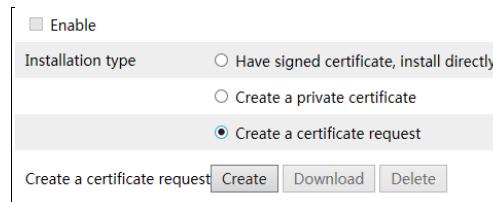
HTTPs provides authentication of the web site and protects user privacy. How to use it?

- ① Enter IP address plus HTTP port in the address bar of the web browser. Then enter username and password to log in. Click Functional Panel→Network→HTTPS to go to the following interface.

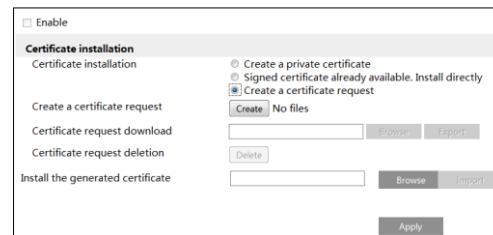


② Install a certificate.

- * You can create a private certificate here. Click the “Create” button to create a private certificate. Enter the country (only two letters available), domain (device’s IP address/domain), validity date, password, province/state, region and so on. Then click “OK” to save the settings.
- * If there is a signed certificate, click “Browse” to select it and then click “Install” to install it.
- * Click “Create a certificate request” to enter the following interface.



Click “Create” to create the certificate request. Then download the certificate request and submit it to the trusted certificate authority for signature. After receiving the signed certificate, import the certificate to the device.



③ After the certificate has been installed, enable this function and apply it. Then the camera can be accessed by entering https://IP: https port via the web browser (eg. <https://192.168.1.201:443>).

Server Port: the default server port of the device is 6036. The server port number can be changed as required. The port is mainly used in network video management system.

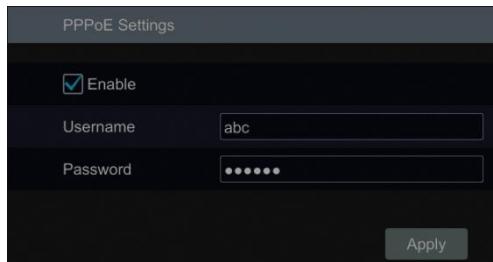
API Server: You can log in the media player which supports the RTSP protocol. Moreover, the

third-party can further develop through API service.

Authentication: Basic authentication and digest authentication are optional.

14.1.3 PPPoE Configuration

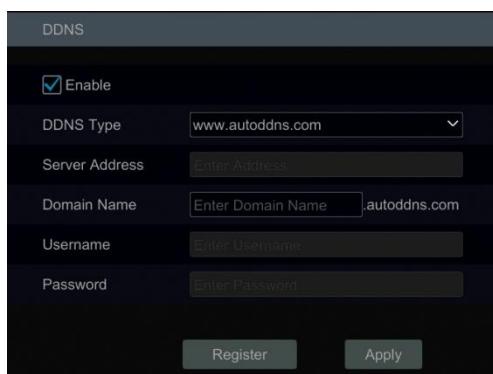
Click Start→Settings→Network→PPPoE to go to the interface as shown below. Check “Enable” in “PPPoE Settings” and then enter the username and password obtained from the dealer. Click “Apply” to save the settings.



14.1.4 DDNS Configuration

The DDNS is used to control the dynamic IP address through domain name. You can access to the device easily if the DDNS is enabled and configured.

Click Start→Settings→Network→DDNS to go to the interface as shown below.

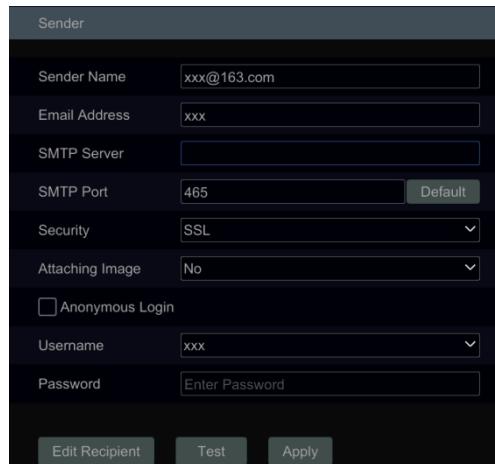


Check “Enable” and then select the DDNS type. Enter the server address, domain name, username and password according to the selected DDNS type. Click “Test” to test the effectiveness of the input information. If “www.autoddns.com” is selected, you need to enter the domain name only and then click “Register” to register the DDNS name. Click “Apply” to save the settings.

Then you can use you this domain name to access the device remotely.

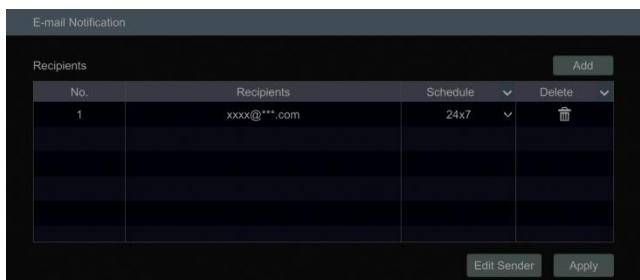
14.1.5 E-mail Configuration

Click Start→Settings→Network→E-mail to go to the following interface.



Enter the sender's name, e-mail address, SMTP server and SMTP port (you can click "Default" to reset the SMTP port to the default value) and then enable or disable the SSL and attaching image. Select the username (the username list will be updated automatically according to the email address you enter) and enter the password of the sender and then click "Apply" to save the settings (you don't have to enter the username and password if "Anonymous Login" is enabled). Click "Test" to pop up a window. Enter the e-mail address of the recipient in the window and then click "OK". The e-mail address of the sender will send an e-mail to the recipient. If the e-mail is sent successfully, it indicates that the e-mail address of the sender is configured correctly.

Click "Edit Recipient" to go to the following interface.



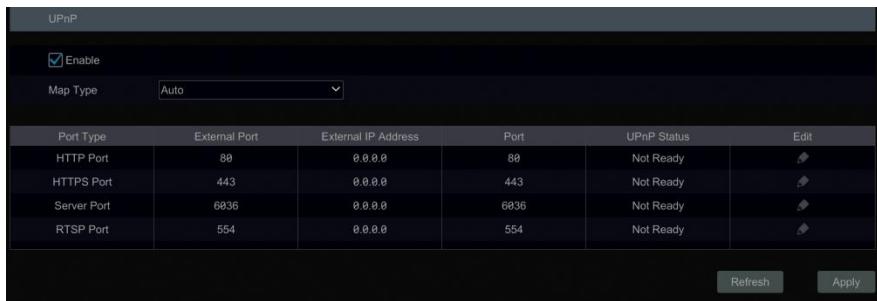
Click "Add" and then enter the recipient's e-mail address and select the schedule (if a schedule is selected, the system will send the alarm email and the recipient will receive it only in the selected schedule time) in the popup window. Click "Add" in the window to add the recipient. You can also change the recipient's receiving schedule by clicking in the "Schedule" column.

column. Click  to delete the recipient in the list. Click “Apply” to save the settings. Click “Edit Sender” to go to the e-mail configuration interface of the sender.

14.1.6 UPnP Configuration

By UPnP you can access the device through web client which is in WAN via router without port mapping.

1. Click Start→Settings→Network→UPnP to go to the following interface.

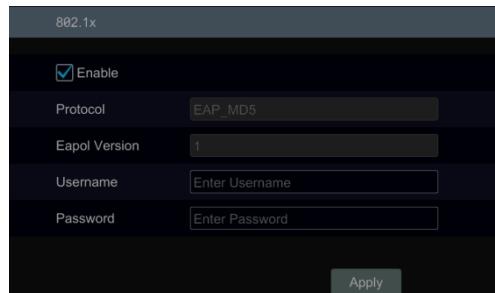


2. Make sure the router supports UPnP function and the UPnP is enabled in the router.
3. Set the device's IP address, subnet mask and gateway and so on corresponding to the router.
4. Check “Enable” in the interface as shown below and then click “Apply”.

Click the “Refresh” button to refresh the UPnP status. If the UPnP status is “Invalid UPnP” after refreshing it a few times, the port number may be wrong. Please change the mapping type to “Manual” and then click  to modify the port until the UPnP status turns to “Valid UPnP”. Refer to the following picture. You can view the external IP address of the device. Enter the external IP address plus port in the address bar to access the device such as <http://183.17.254.19:81>.

14.1.7 802.1X

If it is enabled, the device data can be protected. When the device is connected to the network protected by the IEEE 802.1X, user authentication is needed.



To use this function, the device shall be connected to a switch supporting 802.1x protocol. The switch can be considered as an authentication system to identify the device in a local network. If the device connected to the network interface of the switch has passed the authentication of the switch, it can be accessed via the local network.

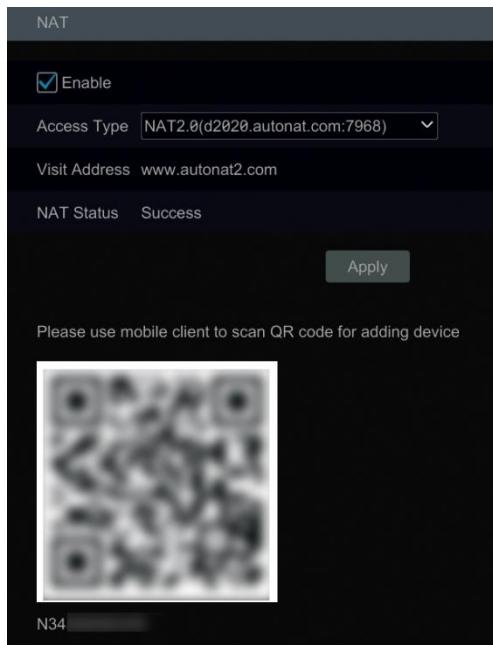
Protocol type and EAPOL version: Please use the default settings.

User name and password: The user name and password must be the same with the user name and password applied for and registered in the authentication server.

14.1.8 NAT Configuration

Click Start→Settings→Network→NAT to go to the interface for NAT configuration. Check “Enable” and then select the NAT server address. Click “Apply” to save the settings.

You can scan the QRCode through mobile client which is installed in the mobile phone or tablet PC to log in the mobile client instantly.



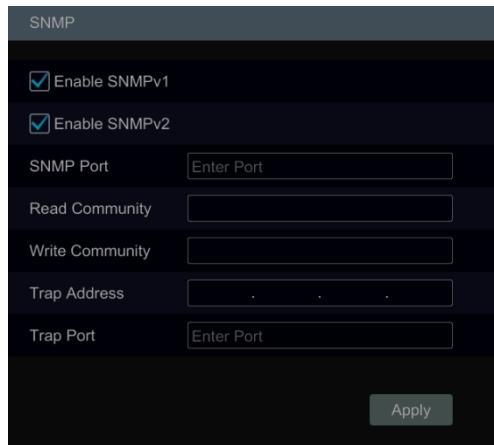
14.1.9 FTP Configuration

Click Start→Settings→Network→FTP to go to the interface for FTP configuration. Check “Enable” and enter the server name, port, username and password, max file size and remote directory.

Additionally, you also can choose the records and image to upload here.

14.1.10 SNMP

1. Click Start→Settings→Network→SNMP to go to the interface for SNMP configuration.



2. Check SNMPv1 or SNMPv2 to enable this function.
3. Set the port of the SNMP.
4. Set the trap address and the trap port.
5. Click “Apply” to save the settings.

Trap Address: The IP address of SNMP host.

Trap Port: The port of SNMP host.

Tips: Before setting the SNMP, please download the SNMP software and manage to receive the device information via SNMP port. By setting the trap address, the device is allowed to send the alarm event and exception message to the monitoring center.

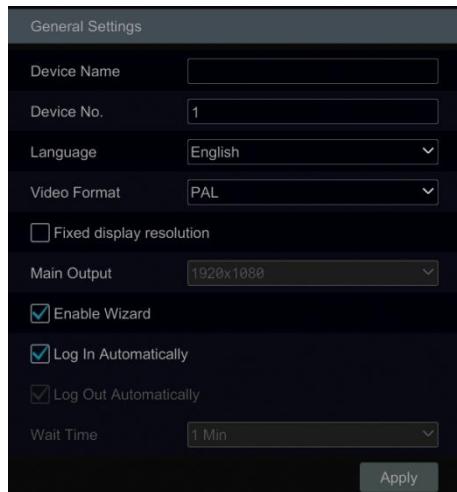
14.1.11 View Network Status

Click Start→Settings→Network→Network Status to view the network status or click  on the tool bar at the bottom of the live preview interface to view network status conveniently.

14.2 Basic Configuration

14.2.1 Common Configuration

Click Start→Settings→System→Basic→General Settings to go to the following interface. Set the device name, device No., language, video format and main output. Enable or disable wizard, “Log In Automatically”, “Log Out Automatically” (if checked, you can set the wait time), or “App Live Self-Adaption”. Click “Apply” to save the settings.



Device Name: The name of the device. It may display on the client end or CMS that help user to recognize the device remotely.

Video Format: Two modes: PAL and NTSC. Select the video format according to the camera.

Main Output: Enable “Fixed display resolution” and then select the main output as needed.

14.2.2 Date and Time Configuration

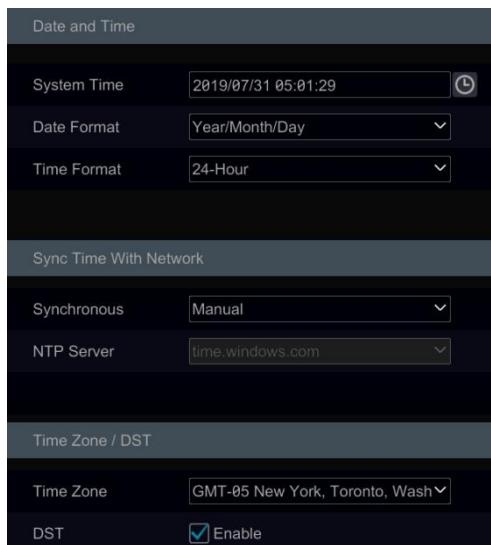
Click Start→Settings→System→Basic→Date and Time to go to the interface as shown below.

Set the system time, date format, time format and time zone of the device. The default time zone is GMT+08 Beijing, Hong Kong, Shanghai, Taipei. If the selected time zone includes DST, the DST of the time zone will be checked by default. Click “Apply” to save the settings.

You can manually set the system time or synchronize system time with network through NTP.

Manual: select “Manual” in the “Synchronous” option and then click  after the “System Time” option to set the system time.

NTP: select “NTP” in the “Synchronous” option and then enter the NTP server.



14.2.3 PoE Power Management

Click Start→Settings→System→Basic→PoE Power Management to go to the following interface. This function is only available for the POE device.

PoE Port	Enable	Current Power
Poe[01]	ON	0.00W
Poe[02]	ON	0.00W
Poe[03]	ON	0.00W
Poe[04]	ON	0.00W
Poe[05]	ON	0.00W
Poe[06]	ON	0.00W
Poe[07]	ON	0.00W
Poe[08]	ON	0.00W

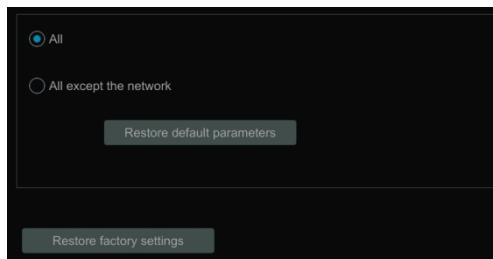
In this interface, you can view the current power consumption of the added POE camera/panel. The PoE power supply of the PoE camera/panel can be enabled or disabled by selecting “ON” or “OFF” as needed.

14.2.4 Recorder OSD Settings

Click Start→Settings→System→Basic→Recorder OSD settings to go to recorder OSD setting interface. OSD name and icon can be enabled here.

14.3 Factory Default

Click Start→Settings→System→Maintenance→Factory Default to go to the following interface. Please choose the item as needed.



Note: Resetting to the factory default settings will not change time zone.

14.4 Device Software Upgrade

● Upgrade via device

You can click Start→Settings→System→Information→Basic to view MCU, kernel version and firmware version and so on. Before upgrade, please get the upgrade file from your dealer.

The upgrade steps are as follows:

1. Copy the upgrade software (.tar) into the USB storage device.
2. Insert the USB storage device into the USB interface of the device.
3. Click Start→Settings→System→Maintenance→Upgrade to go to “Upgrade” interface. Select the USB device in “Device Name” option and go to the path where the upgrade software exists. Select the upgrade software and then click “Upgrade”. The system may automatically restart during upgrading. Please wait for a while and do not power off the device during upgrading.

● Upgrade via Web Client

1. Log in the web client (see chapter 15.2/15.3 for details). Then click Settings→System→Maintenance→Upgrade.
2. Click “Browse” to select the upgrade file you get from your supplier.
3. Click “Upgrade” to upgrade your device.

14.5 Backup and Restore

You can back up the configuration file of the device by exporting the file to other storage devices; you can recover the configuration to other device which are of the same model with the device by importing the configuration file to other devices for time saving.

Insert the USB storage device into the USB interface of the device and then click Start→Settings→System→Maintenance→Backup and Restore to go to the interface.

- **Backup**

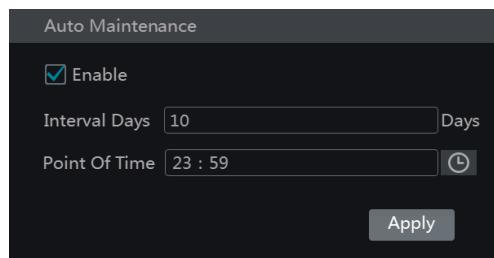
Select the USB device in “Device Name” option; go to the path where you want to store the configuration backup file and then click “Backup”; finally click “OK” in the popup window.

- **Recover**

Select the USB device in “Device Name” option; find the configuration backup file and then click “Recover”; finally click “OK” in the popup window.

14.6 Restart Automatically

You can set the automatic restart time for the device to maintain it regularly. Click Start→Settings→System→Maintenance→Auto Maintenance to go to the interface as shown below. Enable auto maintenance, set the interval days and point of time and then click “Apply” to save the settings. The device will restart automatically at the pointed time every interval day.



14.7 View Log

Click Start→Settings→System→Maintenance→View Log to go to the log view interface. Select the log main type, click to set start time and end time and then click “Search”. The searched log files will be displayed in the list.

The screenshot shows a table with columns: Main Type, All, Alarm, Operation, Settings, Exception. Below these are input fields for Start Time (05/12/2020 12:00:00 AM) and End Time (05/14/2020 11:59:59 PM), each with a button. To the right are buttons for Search and Export. The table lists 17 log entries:

No.	Main Type	Log Time	Content	Details	Play	
1	Alarm	05/14/2020 03:46:50 AM	Motion Alarm	ipc		
2	Alarm	05/14/2020 03:46:27 AM	Motion Alarm	ipc		
3	Alarm	05/14/2020 03:46:16 AM	Motion Alarm	ipc		
4	Alarm	05/14/2020 03:46:10 AM	Motion Alarm	ipc		
5	Alarm	05/14/2020 03:45:48 AM	Motion Alarm	facial ipc		
6	Alarm	05/14/2020 03:45:33 AM	Motion Alarm	ipc		
7	Alarm	05/14/2020 03:45:15 AM	Motion Alarm	facial ipc		
8	Exception	05/14/2020 03:44:57 AM	IPC Offline	attendance terminal Address:10....		
9	Alarm	05/14/2020 03:44:54 AM	Motion Alarm	facial ipc		
10	Alarm	05/14/2020 03:44:49 AM	Motion Alarm	ipc		
11	Alarm	05/14/2020 03:44:26 AM	Motion Alarm	facial ipc		
12	Alarm	05/14/2020 03:43:50 AM	Motion Alarm	facial ipc		
13	Alarm	05/14/2020 03:43:48 AM	Over Temp	attendance terminal--Stranger		
14	Alarm	05/14/2020 03:43:34 AM	Motion Alarm	ipc		
15	Alarm	05/14/2020 03:43:28 AM	Over Temp	attendance terminal--Stranger		
16	Alarm	05/14/2020 03:43:22 AM	Motion Alarm	ipc		
17	Alarm	05/14/2020 03:43:16 AM	Over Temp	attendance terminal--Stranger		

Current Page: 1 / 100, All 5000

Choose the log file in the list and then click “Export” button to export the log file. Click on the “Content” title bar to pop up a menu list. Check contents in the menu list and then the log list will show the checked log contents only. Click to play the video log.

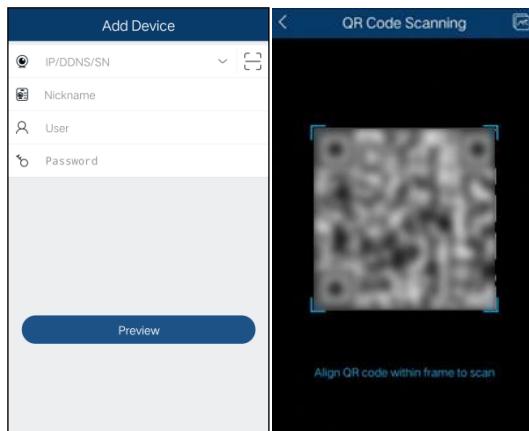
14.8 View System Information

Click Start→Settings→System→Information and then click the corresponding menu to view the “Basic”, “Camera Status”, “Alarm Status”, “Record Status”, “Network Status” and “Disk” information of the system.

15 Remote Surveillance

15.1 Mobile Client Surveillance

1. Enable NAT in the device. Refer to [14.1.8 NAT Configuration](#) for details.
2. Download and install the mobile client “SuperLive Plus” into the mobile device with the Android or iOS system.
3. Run the mobile client, go to the “Add Device” interface and then click  to scan the QRCode of the device (Click  in the live display interface to view the QR code).
4. After scanning the QRCode successfully, enter the login password to log in mobile client.



15.2 Web LAN Access

1. Click Start→Settings→Network→TCP/IP to go to the “TCP/IP” interface. Set the IP address, subnet mask, gateway, preferred DNS and alternate DNS of the device.
2. Open a web browser on your computer, enter the IP address of the device in the address bar and then press enter to go to the login interface as shown below. You can change the display language on the top right corner of the login interface. Enter the username and password of the device in the interface and then click “Login” to go to the live preview interface.

The screenshot shows a login form with the following elements:

- A language selection dropdown at the top right labeled "English".
- An "Enter Username" field with a person icon.
- An "Enter Password" field with a lock icon.
- A large blue "Login" button at the bottom.

15.3 Web WAN Access

12. NAT Access

1. Set the network of the device. Please refer to [14.1.1 TCP/IP Configuration](#) for details.
2. Enable NAT and then set the NAT server address. Please refer to [14.1.8 NAT Configuration](#) for details.
3. Open a web browser on your computer, enter the NAT server address www.autonat2.com in the address bar and then press enter to go to the interface as shown below (download and install the relative plug-in according to the tip if you access the device through NAT for the first time).

The screenshot shows a login form with the following elements:

- An "Enter device serial number" field with a QR code icon.
- An "Enter Username" field with a person icon.
- An "Enter Password" field with a lock icon.
- A large grey "Login" button at the bottom.

The background has a blue and white diagonal striped pattern.

Enter the serial number (click  on the tool bar at the bottom of the live preview interface to see the serial number of the device), user name (the user name of the device, **admin** by default) and password (the password of the device) of the device, select the display language on the top right corner of the interface and then click “Login” to go to the web client interface.

13. PPPoE Access

1. Click Start→Settings→Network→PPPoE to go to the “PPPoE” interface. Check “Enable” in the “PPPoE settings” and then enter the username and password you get from your ISP. Click “Apply” to save the settings.
2. Click Start→Settings→Network→Network Status to view the IP address of the device.
3. Open a web browser on your computer, enter the IP address of the device like <http://210.21.229.138> in the address bar and then press enter to go to the login interface. Enter the username and password of the device in the interface and then click “Login” to go to the live preview interface.

14. Router Access

1. Click Start→Settings→Network→TCP/IP to go to the “TCP/IP” interface. Set the IP address, subnet mask, gateway, preferred DNS and alternate DNS of the device.
2. Set the HTTP port (it is suggested to modify the HTTP port because the default HTTP port 80 might be taken up) and enable UPnP function in both the device and the router. If the UPnP function is not available in the router, you need to forward the LAN IP address, HTTP port and server port of the device to the router. Port mapping settings may be different in different routers, so please refer to the user manual of the router for details.
3. Get the WAN IP address of the device from the router. Open a web browser on your computer, enter the WAN IP address plus HTTP port like <http://116.30.18.215:100> in the address bar and then press enter to go to the login interface. Enter the username and password of the device in the interface and then click “Login” to go to the live preview interface.

15.4 Web Remote Control

The supported browsers for remote access are IE8/9/10/11, Firefox, Opera and Chrome (available only for the versions lower than 45) in Windows system and Safari in MAC system. When you access the device through web client for the first time, you need to download and install the relative components for normal preview and playback. Please refer to the tips in the remote interfaces for details. The buttons and icons on the top right corner of the remote interface are introduced as follows.

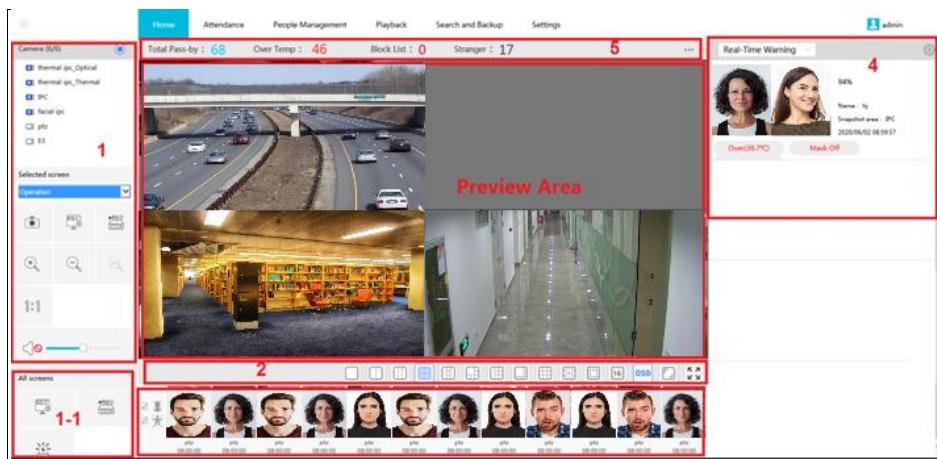
admin: the current login username.

Modify Password: click it to change the password of the current login user. Enter the current password and then set a new password in the popup window. Click “OK” to save the new password.

Logout: click it to log out and return to the login interface.

15.4.1 Live View via Web Client

Click “Live Display” in the remote interface to go to the preview interface.



15. Start Preview

Select a window in the preview area and then click one online camera inArea1 to preview the camera in the window. You can click  in Area 1 to preview all the cameras.

Button Descriptions of Area 1

Button	Meaning
	Click it to take a snapshot.
	Click it to start record to computer
	Click it to start record to the HDDs of the device.
	Click it to zoom in the image of the camera and then drag the mouse on the camera image to view the hidden area.
	Click it to zoom out the image of the camera.
	The 3D zoom in function is designed for P.T.Z. Click it and then drag the image to zoom in or zoom out the image; click the image on different areas to view the image of the dome omni-directionally.
	Click it to close the preview of all cameras.
	Click it to close the preview of the camera.
	Click it to display original size
	Click it to enable audio and then drag the slider bar to adjust the volume. You can listen to the camera audio by enabling audio.

Button Descriptions of Area 2

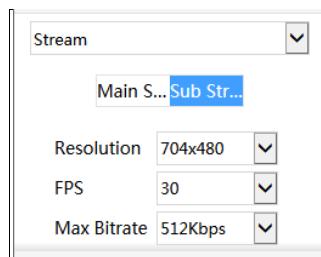
Button	Meaning
	Screen mode button.
	Click it to disable OSD. Click it again to enable OSD.
	Click it to expand the preview area.
	Click it to show full screen.

Button Descriptions of Area 1-1

Button	Meaning
	Click it to start record of all cameras to computer
	Click it to start record of all cameras to the HDDs of the device.
	Manual alarm out

Stream Settings

In Area1, click to select stream.



Click one camera window in the preview area and then click to set the camera's live preview stream and record stream to main stream in manual record mode; click to set the camera's live preview stream and record stream to sub stream. In sub stream tab, set the resolution, FPS and bitrate and then click "Apply" to save the settings.

Descriptions of Area 3

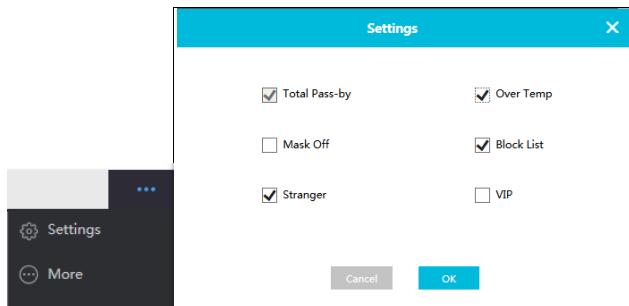
This area is the real-time captured picture display area, including face pictures and human body pictures.

Descriptions of Area 4

This area is the face match view and real-time warning display area. In this area, you can view the face match pictures, body temperature, mask status, the name of the captured person, snapshot area, snapshot time, etc.

Descriptions of Area 5

This area is the statistical information display area.



Click in this area to view more menus.

Click “Settings” to select the statistical display items in the live display interface.

Click “More” to go to the statistics interface. (See [9 Statistics](#) for details).

➤ Home Introduction

Move the cursor on the “Home”. This will bring a pull-down list. You can view more menus, such as ***Live Display, Smart Temperature Screening, Flow Control, Statistics and Welcome***. The above-mentioned functions in the web client are similar to that of the device. Please refer to the corresponding chapter for details.

15.4.2 People Management via Web Client

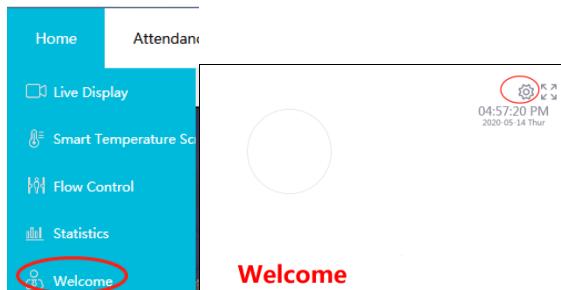
The settings of people management in the web client are the same as the people management setup of the device. Please refer to [6 People Management](#) for more details.

15.4.3 Attendance Management via Web Client

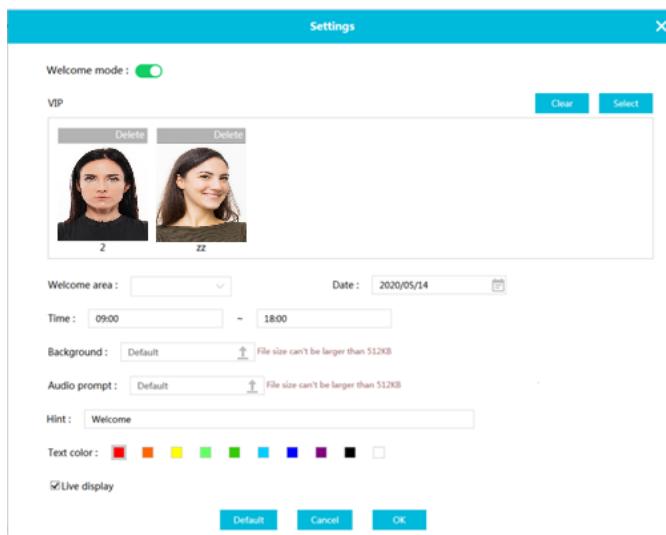
The settings of attendance management in the web client are the same as the attendance setup of the device. Please refer to [7 Attendance Management](#) for more details.

15.4.4 Face Greeting

Click Home → Welcome to go to the face greeting interface.



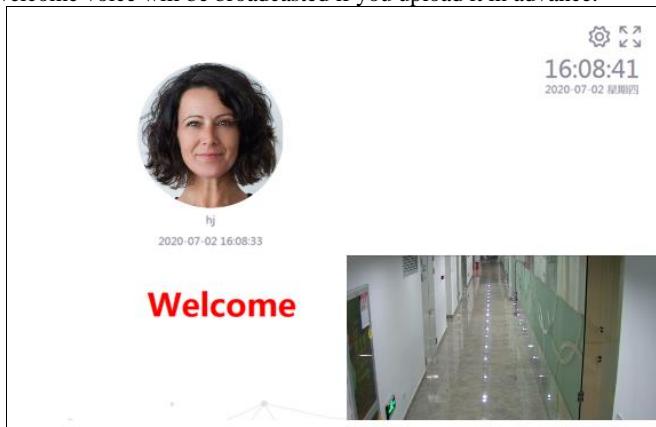
Click to enter the face greeting setting interface.



The setting steps are as follows:

1. Enable welcome mode.
2. Select people from VIP group. Click "Select" to select the people.
3. Select the welcome area, date and time.
4. Upload the background picture and audio prompt.
5. Set the text prompt and select the text color.
6. Enable "Live display" as needed.
7. Click "OK" to save settings.

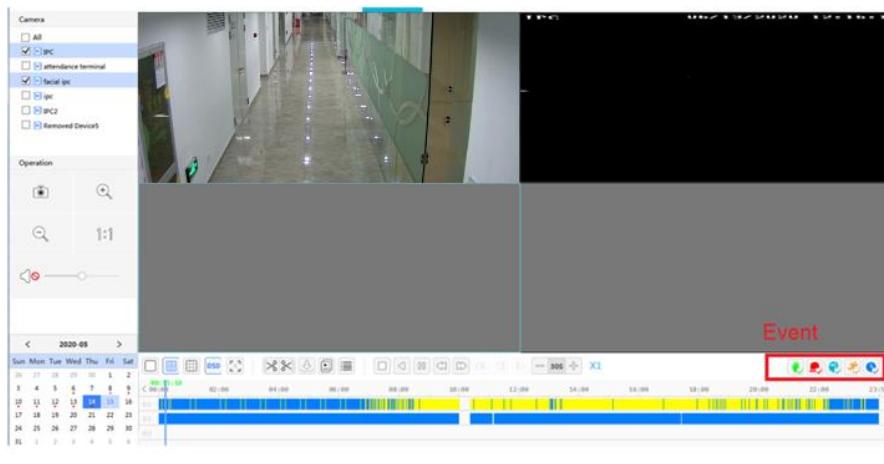
When the VIP guests arrive, the captured picture and the pre-defined welcome word will be displayed. The welcome voice will be broadcasted if you upload it in advance.



Click to display full screen.

15.4.5 Playback via Web Client

Click “Playback” in the remote interface to go to the playback interface.



1. Check camera and set the record date on the calendar beside the time scale.
 2. Select the event.
 3. The record will automatically play on the window.
- The operation of the playback time scale is similar to that of the time scale of the device. Please refer to [11.2 Playback Interface Introduction](#) for details.

Introduction of playback control buttons:

Button	Meaning
	Screen display mode
	Click to disable OSD; click it again to enable OSD
	Full Screen
	Backup start time button. Click the time scale and then click it to set the backup start time.
	Backup end time button. Click the time scale and then click it to set the backup end time.
	Backup button.
	Backup tasks button. Click it to view the backup status.
	Event list button. Click it to view the event record of manual/schedule/sensor/motion.
	Stop button.
	Rewind button. Click it to play video backward.
	Pause button.
	Play button. Click it to play video forward.
	Deceleration button. Click it to decrease the playing speed.
	Acceleration button. Click it to increase the playing speed.
	Previous frame button. It works only when the forward playing is paused in single screen mode.
	Next frame button. It works only when the forward playing is paused in single screen mode.
	Click to step backward 30s and click to step forward 30s.

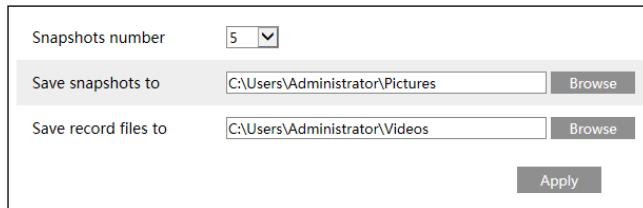
15.4.6 Search and Backup via Web Client

Click “Search and Backup” in the remote interface to go to the backup interface. Please refer to [11 Playback & Backup](#) for details.

15.4.7 Settings via Web Client

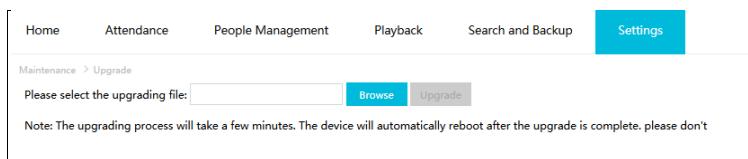
Click “Settings” in the live display interface and then configure the camera, record, alarm, disk, network, account and authority and system of the device remotely. All of these settings are similar to that of the device (See the configurations of the device for details).

Local Settings: click it to change the local settings. Set the snapshot number and click “Browse” to set the snapshot path and record path as shown below. Click “Apply” to save the settings.



15.4.8 Upgrade via Web Client

Click Settings→System→Maintenance→Upgrade.



Get the upgrade file from your supplier and then save it in your local PC. Click “Browse” to select your upgrade file and then click “Upgrade”. The upgrade requirement here is the same as the upgrade from the device

