

Network Camera AiCam

User Manual

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Statement

Thank you for choosing InterVision, this user manual is intended for users of IP Camera. It includes instructions on how to use the product. Before using the device, read the user manual carefully. Keep this manual for further clarifications. The descriptions, images and technical parameters may vary with the actual devices. The software embodied in the product is governed by the user license agreement covering that product.

Copyright

This Manual is subject to domestic and international copyright protection.

InterVision Technology Co., Ltd. ("InterVision") reserves all rights to this manual. This manual cannot be reproduced, changed, translated, or distributed, partially or wholly, by any means, without the prior written permission of InterVision.

Privacy Notice

Surveillance laws vary by jurisdiction. Check all relevant laws in your jurisdiction before using this product for surveillance purposes to ensure that your use of this product conforms. Please refer to the product specification for camera parameters and functions.

Disclaimer

This manual is for reference only. It may contain several technical incorrect places or printing errors, and the content is subject to change without notice. All information in this booklet has been thoroughly reviewed. InterVision Technology Co., Ltd. is not liable for damage caused by improper use of this device.

Regulatory Information**FCC Caution.**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced technician for help.

RF Warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

EU Conformity Statement



This product and if applicable, the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2014/35/EU, the EMC Directive 2014/30/EU, the RED directive 2014/53/EU, the RoHS Directive 2011/65/EU.



This product can be used across EU member states.

The simplified EU declaration of conformity referred to in Article 10(9) shall be provided as follows: Hereby, (InterVision Technology Co., Ltd.) declares that the radio equipment type (HD Network Camera) is in compliance with Directive 2014/53/EU.



2012/ 19/ EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info

Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential injury or material damage



Warnings

WARNING: Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.

WARNING: This device is configured for 12V DC operation only. Do not connect to a higher voltage. Use only with NRTL approved Class 2 or LPS power supplies. To prevent potential ground loop issues, a separate PSU should be used for each camera. A multiple-output PSU may be used if the multiple output PSU has isolated and protected (2A max) outputs.



Cautions

CAUTION: The light emitted from the near-infrared light emitting diodes (LEDs) provides illumination over a wide area. This light is not considered a risk to the unshielded human eye. However, as with any light source, it is recommended that normal precautions be taken to avoid unnecessary exposure. For example, avoid staring into the beam or viewing the LEDs directly with optical instruments at close range.

Open Source Software License

This product contains software whose right holders license it under the terms of the GNU General Public License, version 2 (GPLv2), version 3 (GPLv3) and/or other open source software licenses. If you want to receive the complete corresponding source code, we will provide you and any third party with the source code of the software licensed under an open source software license if you send us a written request by mail or email to the following addresses:

InterVision OSS Support Team
Email: opensource@interVision.ua
Postal: InterVision Technology Co., Ltd.
Ukraine, Kyiv

Detailing the name of the product and the firmware version for which you want the source code and indicating how we can contact you.

Please note that we will ask you to pay us for the costs of a data carrier and the postal charges to send the data carrier to you. The amount can be varied according to your location and Geniatech oss support team will notify the exact cost when receiving the request. This offer is valid for three years from the moment we distributed the product and valid for as long as we offer spare parts or customer support for that product model.

Important Safety Instructions

- Read and keep these instructions.
- Ensure that your installation area can safely support 3 times the weight of the camera.
- Do not install the camera in extreme temperature conditions. Only use the camera where temperatures are within the limits shown in the camera specifications. Be especially careful to provide ventilation when operating under high temperatures.
- Do not install indoor rated cameras where they will be exposed to rain or moisture.
- To prevent damage to the imager, do not aim the camera toward an extreme light source.
- Do not touch the camera lens, dome or bezel (front glass plate).
- Do not drop the camera or subject it to physical shock.
- Do not use strong or abrasive cleaners, clean only with a soft cloth and mild detergent or alcohol.
- Do not open the camera or attempt to service it yourself. Refer all service issues to your dealer.



CHANGE THE DEFAULT PASSWORD

Default Account:

Username: admin Password: <empty>

*The default password <empty> for the **admin** account is for first-time log-in purposes only. You should change this default password to better protect against security risks, such as the unauthorized access by others to the product that may prevent the product from functioning properly and/or lead to other undesirable consequences.*

For your privacy, we strongly recommend changing the password to something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

1. Introduction

1.1 Product Features

This series of camera adopts a high-performance imaging sensor and advanced circuit board design technology. It features high resolution, low distortion, and low noise. It is ideal for surveillance systems and image processing systems.

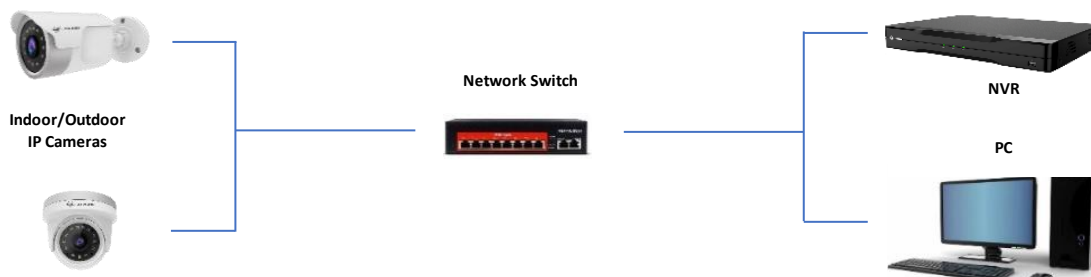
2. Network Configuration

The IP system of all the cameras is in DHCP when leaving the factory.

2.1 Access IP Camera over LAN

2.1.1 Network Connection

To view and configure the IP Camera via LAN, you need to connect the IP Camera in the same subnet with your local network, and install AIVMS software to search and access the IP Camera.



2.1.2 Access by Client Software

All the IP Cameras in the LAN will automatically detect and listed in AIVMS

Note:

- To access IP Camera in a LAN, you can choose any of the following methods.
- You can download AIVMS software for PC from our official website:

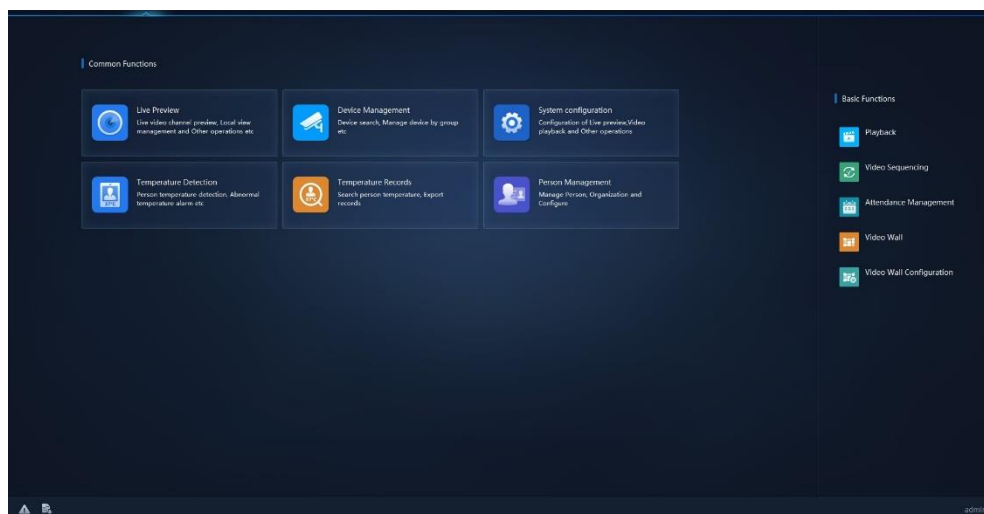
<https://interviewision.ua>

2.1.3 AIVMS

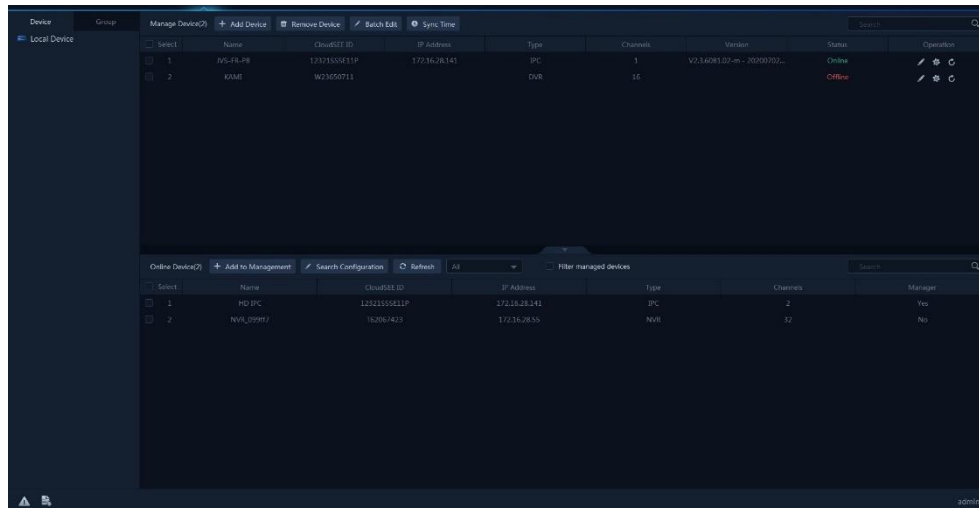
AIVMS is a client software to access and manage IP Cameras and NVRs.

Steps

1. Install and run AIVMS, and create a username and password. Once created, login the software. The main view is as shown below

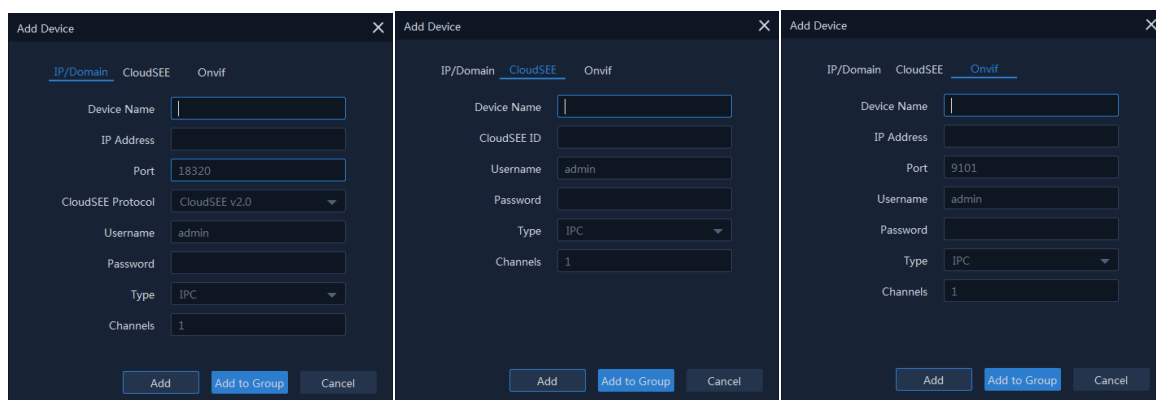


- Click Device Management to add the device into AIVMS. Or you can click Add to Group to add the device directly into default device group.

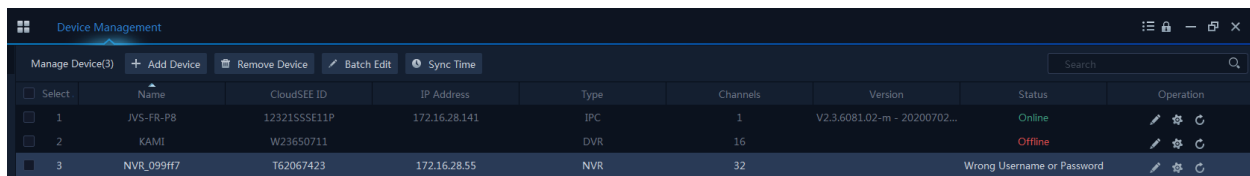



VMS will automatically search LAN devices and listed in Online Device list. Select the device you want to add and click on Add to Management to add devices into Manage Device list.

- You can add device Manually by clicking Add Device in Manage Device list. You can add devices by IP/Domain, AiCloud ID or ONVIF Devices.

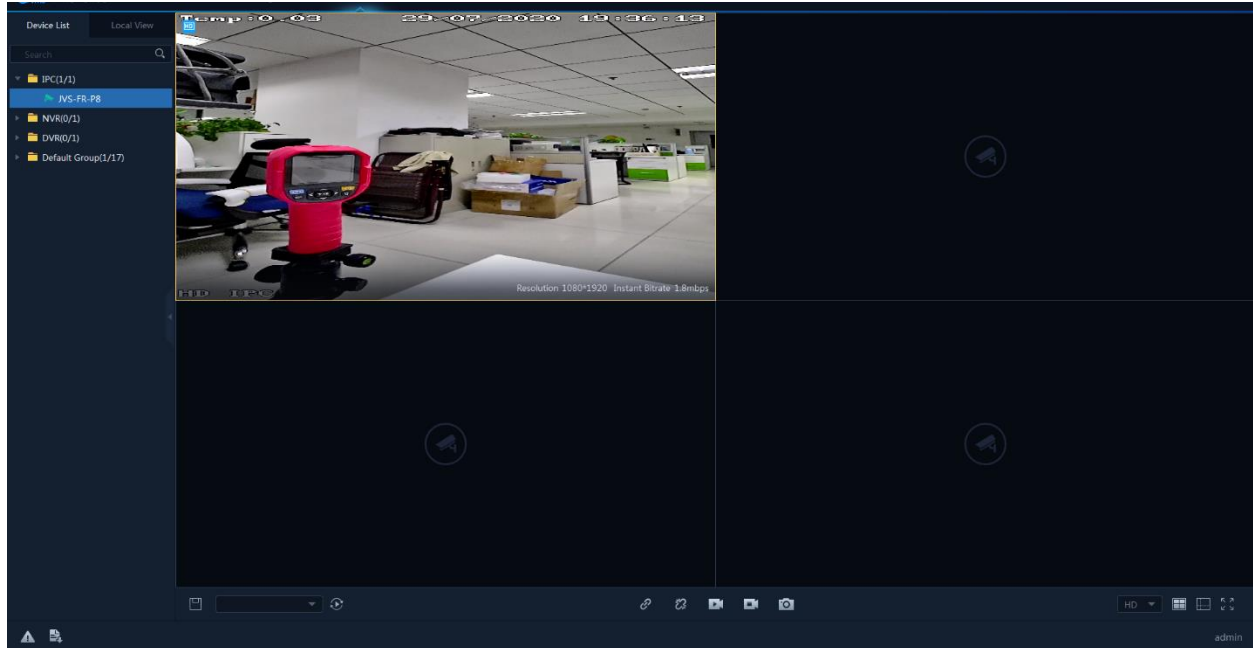


- AIVMS will add device with default IP Camera account (Username: admin Password: <empty password>). If you changed the password, the device will not connect and show “Wrong Username or Password” in the Status.



Double click the device or click , and input correct Username and Password. Click OK. The camera status will become Online.

5. Go to home page and click on Live Preview. Drag the device from Device list on left side to the channel. AIVMS will start video streaming on the live view window



2.1.4 AiCloud Int'l APP

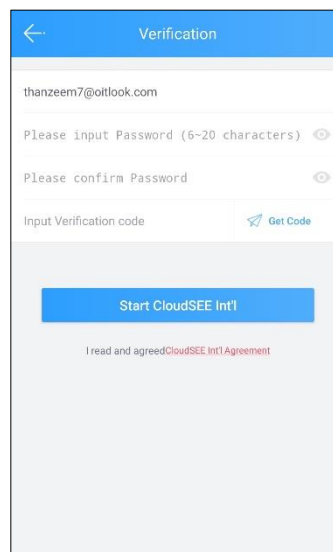
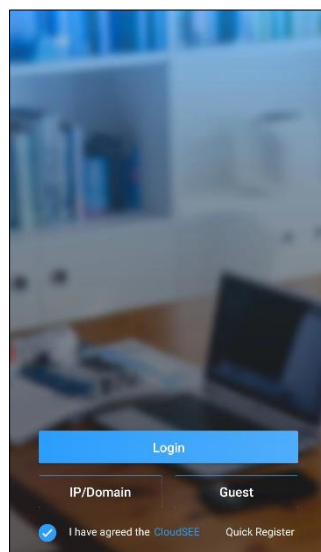
AiCloud Int'l App, makes it possible to watch camera live view on smart phone, supports all AiCloud products, including DVR, NVR, Network Camera, USB DVR and DVR cards.


Note:

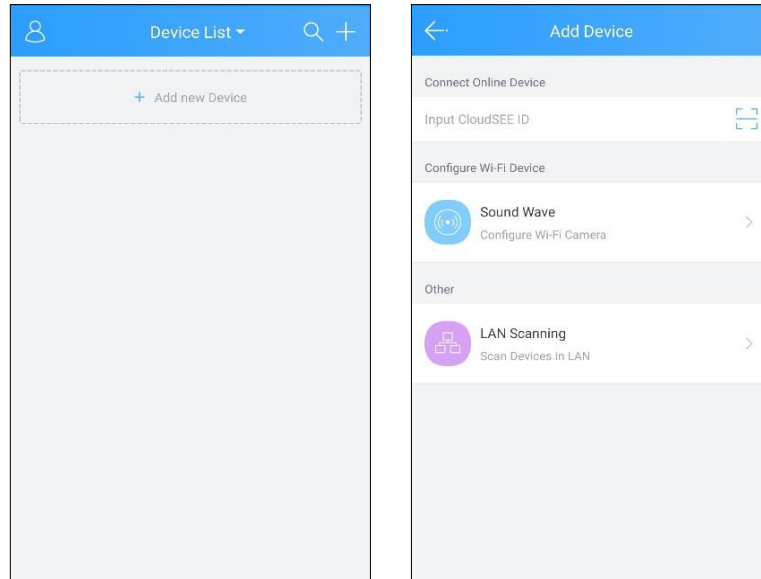
- The steps apply to both iOS and Android.
- You need to register a AiCloud account before using AiCloud service which is free. With AiCloud service account, devices list will automatically upload and store in cloud, and when you are login AiCloud Int'l with your account on other smart phones, you can access to all these devices without adding them again.

Steps

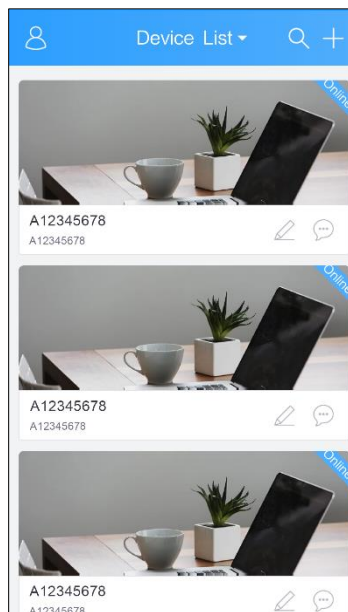
1. Open AiCloud Int'l app on smart phone, login with your AiCloud account



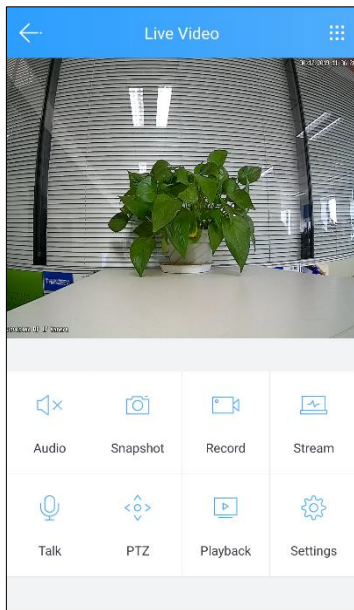
2. Tap  to Input **AiCloud ID**



3. The camera will appear in Device List



4. Tap the device, live video of the camera will display



3. Device Configuration

3.1 Change Password

Steps

1. No matter what software you are using, right click on the live video, click "**Remote setting**", and the dialog box appears. Click "**User**" under "**System**".

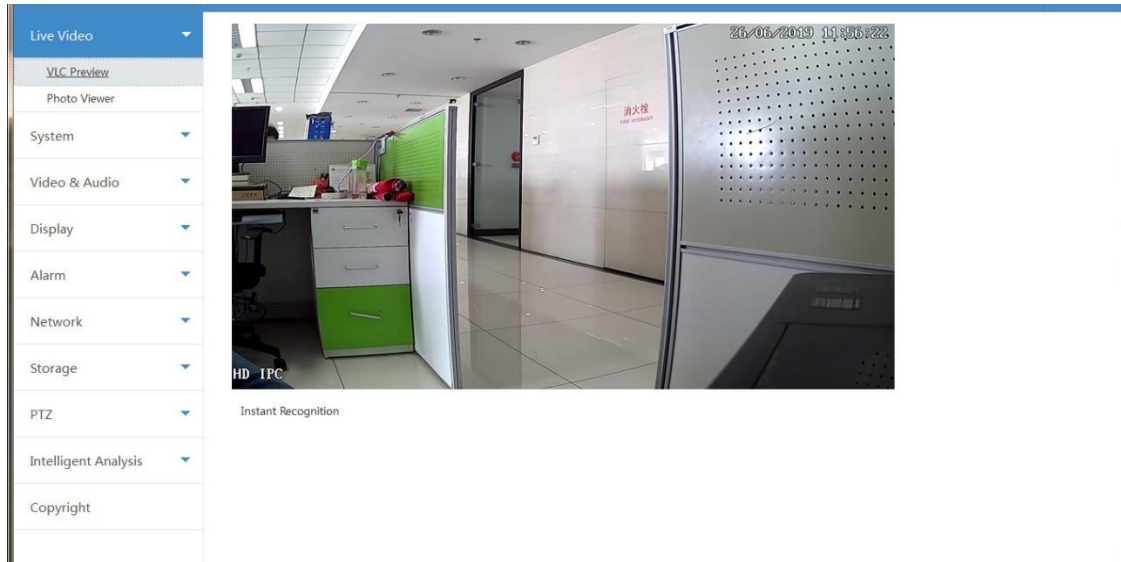
Choose	User	Group	Description
<input type="checkbox"/>	admin	Administrator	

2. In "**User**", choose user "**admin**" and input new password twice to confirm, click **OK**, then the password has been changed.
3. For Create a new account by input **Account**, Select **Group**, **Description** if required and input **Password** and **Confirm Password** then Click "**OK**"
4. For Delete an existing account, choose the user you want to delete and click "**Remove**"

4. Live Video

4.1 VLC Preview

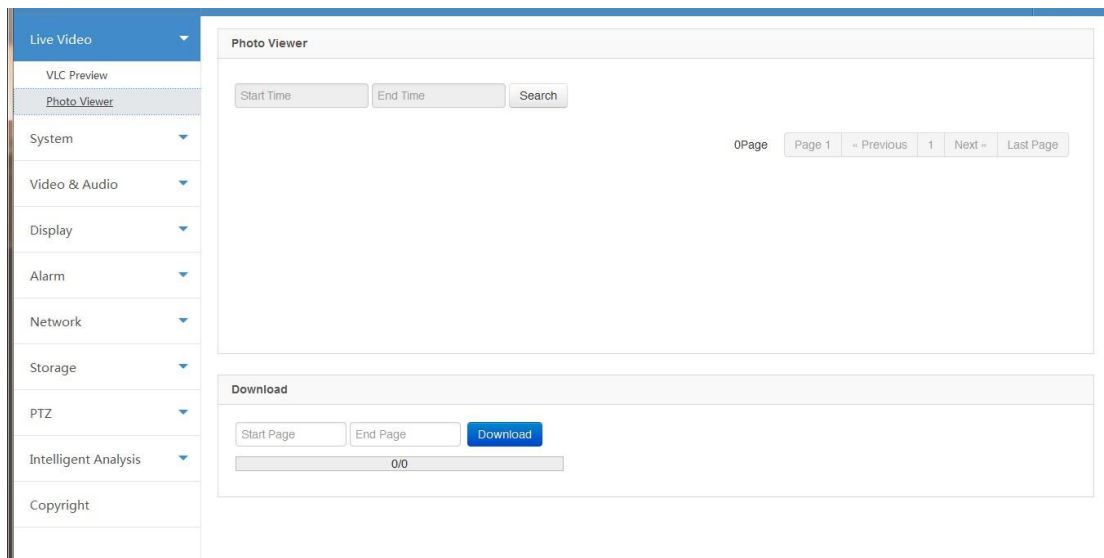
You can preview the video streaming in this page. It required VLC plugin. Install VLC plugin from the link displayed on the page.



Note: Some model doesn't support live view on we interface.

4.2 Photo Viewer

This option used for face recognition system. You can check the detected face records in here.



Note: Face recognition models only support this function.

5. System Configuration

5.1 System

5.1.1 General Information

The screenshot shows the 'General Information' configuration page. The left sidebar lists various system settings. The main configuration area includes the following fields:

Field	Value
Device Name	H.265 200W
Product Info.	H8EV200-20-L 0S76 DE
Language	English
FW Version	V2.2.6019.wm.de - 20190720 17:0
S/N	99
Channel(s)	1
CloudSEE ID	122SSSSSS33H
CloudSEE Status	Online
Alarm-In	0
Alarm-Out	0
ISP Version	H8EV200-1.1.6374

Buttons: Default, Save

Items	Description
Device Name	The name of the device can be changed here, which will display on live video window.
Product Info	The model of the device.
Language	System Language can be changed here.
FW Version	System firmware version.
S/N	Product serial number.
Channel(s)	Number of Channels
AiCloud ID	AiCloud ID is used for remote connection if the device is online.
AiCloud Status	Device connectivity status with AiCloud
Alarm-In	Number of Alarm Inputs
Alarm-Out	Number of Alarm Output
ISP Version	Hardware Solution version
Save	Save Settings
Default	Restore default system settings.

5.1.2 Date & Time

System
System
Maintenance
User
Log
Video & Audio
Display
Alarm
Network
Storage
PTZ
Intelligent Analysis
Copyright

General Information
Date&Time

Date & Time

Time Zone :
UTC+08:00

☐ Internet Time

Server :
de.pool.ntp.org

Sync Interval (hr) :
24
(1~200)

☐ Manually

Set Time :
2019-11-13 15:07:51

DST

☐ Enable

Start Time :

Mar
Second
Sun

02:00:00

End Time :

Nov
First
Sun

02:00:00

Offset Time :
60Min.

Default
Save

Items	Description
Time Zone	Change Time Zone
Internet Time	Set the device time automatically update from Internet
Server	NTP Server. The default NTP server is almost always a good choice, but if you prefer to use another NTP server, you can enter it here
Sync Interval hr.	The period between two-time synchronization events.
Manually	Set the device time manually
Set Time	Date and Time Selector
Enable	Enable DST (Daylight Saving Time)
Start Time	DST Start Time
End Time	DST End Time
Offset Time	Time added with the GMT to get DST
Save	Save the settings.
Default	Restore default system settings.

5.2 Maintenance

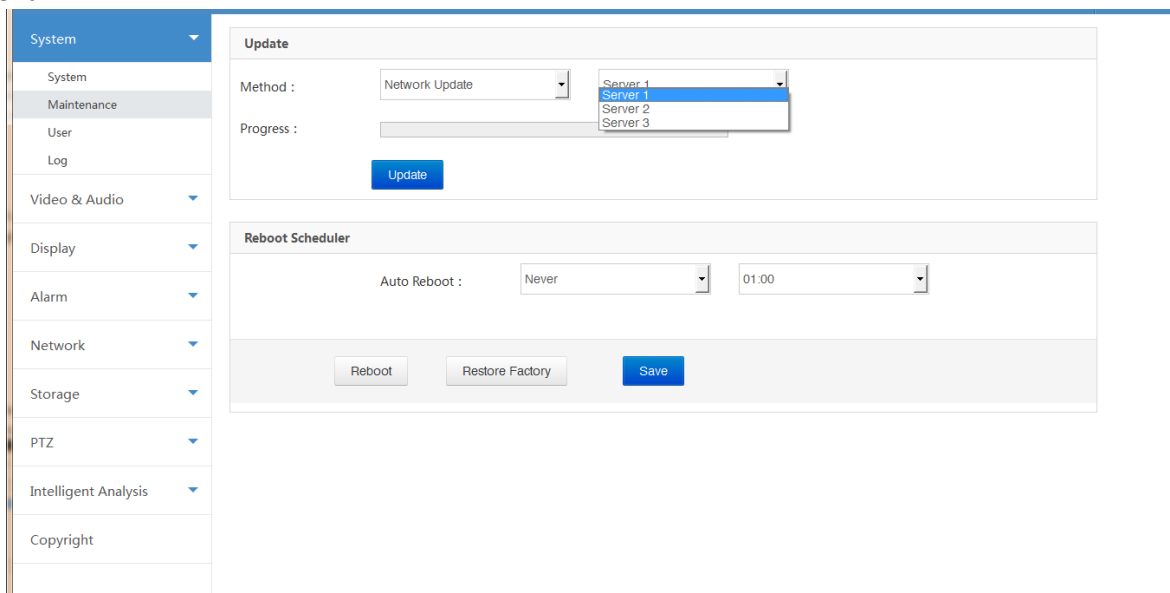
Here you can Upgrade device firmware, Set Auto Reboot Schedule and Factory default the device.

The screenshot shows the 'Maintenance' page of the interVision IP Camera web interface. On the left is a sidebar menu with options: System, Maintenance (highlighted), User, Log, Video & Audio, Display, Alarm, Network, Storage, PTZ, Intelligent Analysis, and Copyright. The main area contains two sections. The 'Update' section has a 'Method' dropdown set to 'Network Update' and a 'Server' dropdown set to 'Server 1'. Below these is a 'Progress' bar and an 'Update' button. The 'Reboot Scheduler' section has an 'Auto Reboot' dropdown set to 'Never' and a time dropdown set to '01:00'. At the bottom of the main area are three buttons: 'Reboot', 'Restore Factory', and 'Save'.

Items	Description
Method	Method of device update
Network Update	The device will check for available software updates on update server via Internet. Strongly recommended if with Internet access.
File Update	The device will update with the update files on the computer in the same local network.
Version File	When “File Update” is selected, use this button to browse and select the directory containing version files.
Update File	When “File Update” is selected, use this button to browse and select the directory containing firmware update files.
Progress	Indicates the progress of updating.
Update	Start the selected update procedure.
Auto Reboot	Set a period or a time to reboot the device.
Save	Save the settings.
Reboot	Reboot Device Immediately
Restore Factory	Erase all settings and data, restore the device to its factory settings.

5.2.1 Network Update

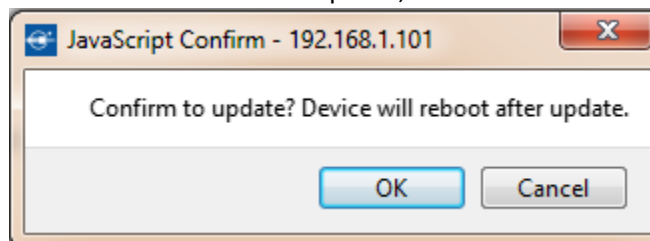
1. Connect the camera with our remote client software, select the channel of the camera you want to update, right click on the live video, and select **Remote Settings - System - Maintenance**,
2. The default update mode is “**Network Update**”, select update Server from the second drop-down menu.



Note:

Usually, **Server 1** and **Server 2** is for China users, **Server 3** is for other countries and regions.

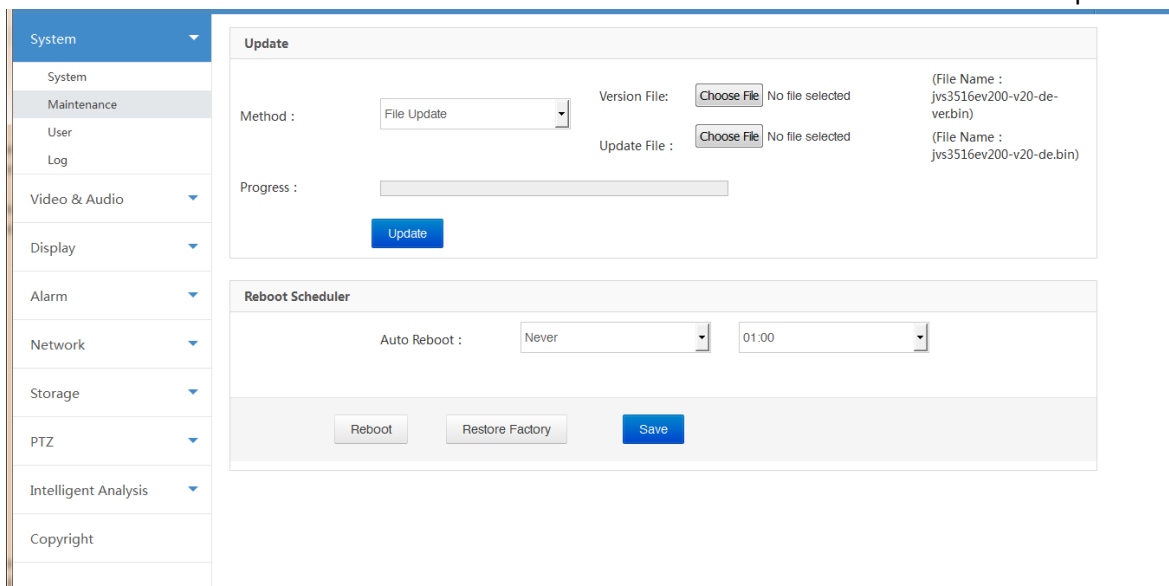
3. Click “**Update**”, System asks for confirmation of update, click “**OK**”.



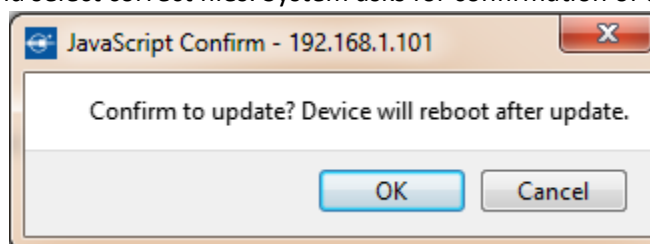
4. Update begins, the progress bar will run twice, one indicates downloading progress and another indicates burning progress.
5. After downloading and burning, the update completes, System will reboot and connect automatically.

5.2.2 File Update

1. Connect the camera with our remote client software, select the channel of the camera you want to update, right click on the live video, and select **Remote Settings- System-Maintenance**, the maintenance dialog appears.
2. The default update mode is “**Web Update**”, select “**File Update**” from the drop-down menu, and click **Choose File** to browse the version file and click second **Choose File** to browse the firmware update file.



3. Then click “**Update**”, system will start burning progress. If you choose wrong update file directory, System will prompt that “Open update file failed, please check if the update file exists”, you need to check the update files and select correct files. System asks for confirmation of update, click “**Yes**”.



4. Update begins, the progress bar will run twice, one indicates downloading progress and another indicates burning progress.
5. After downloading and burning, the update completes, System will reboot and connect automatically.

5.3 User

Add/Edit User

Account :

Group :

Description :

Password :

Confirm Password :

User List

Choose	User	Group	Description
<input type="checkbox"/>	admin	Administrator	

Items	Description
Account	Account Name
Group	User Groups
Description	Description about the user account
Password	User password
Confirm Password	Confirm the user password
Refresh	Refresh User list
Remove	Remove User account
User List	List of user account in the device.

Note:

- The build-in account admin cannot be deleted.
- The maximum number of users is 13.
- If the build-in account admin has not been modified, which means the username is admin and the password is empty.
- There are three groups built in the system, to which you can assign users.

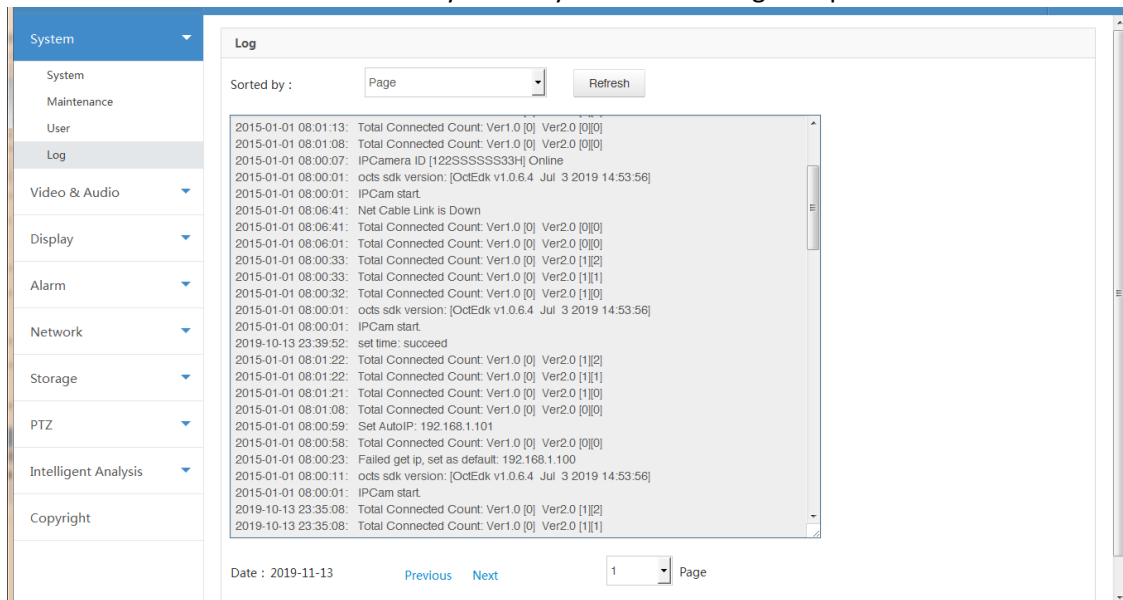
Administrator: Administrators have permissions to access all the functions and operations.

Standard User: Standard users can access parts of the functions, system level operations such as rebooting, performing system recovery, setting network, etc. are not permitted.

Guest: Guests can only watch the live video without any other permissions.

5.4 Log

Event logs record events taking place in the execution of the system in order to provide an audit trail that can be used to understand the activity of the system and to diagnose problems.



Items	Description
Sorted By	List the logs by Page or Date.
Refresh	Refresh the logs
Previous	Previous Page
Next	Next Page
Page	Choose the log page

6. Video & Audio

Our network camera supports Duel Stream or Triple Stream:

Main Stream: *Main stream* or *Recording stream*, used for recording, and if there is only one channel displaying including full-screen on NVR or no more than 4 channels displaying on client software, this stream will be displayed.

Sub Stream: *Sub-stream*, used for live view if more than one channel displaying on NVR or more than 4 channels displaying on client software.

6.1 Video Stream

Items	Description
Codec	Video compression format
Resolution	Resolution is the width and height dimensions of the camera imaging in pixels. A higher display resolution in a display of the same size means that displayed content appears sharper.
FPS	Frame rate, also known as frame frequency, is the frequency (rate) at which an imaging device displays consecutive images called frames. The higher frame rate is, the more consecutive video becomes.
Bitrate Control	VBR: Variable Bit Rate, VBR files vary the amount of output data per time segment. VBR allows a higher bitrate (and therefore requires more storage space) to be allocated to the more complex segments of video files while less space is allocated to less complex segments.
	CBR: Constant Bit Rate, CBR means that the rate at which a codec's output data should be consumed is constant. Lower bitrate is useful for streaming multimedia content on limited capacity channels since it is the maximum bit rate that matters, but it cannot allocate enough data for complex sections. Higher bitrate will provide enough bits for the
Quality	The quality of the video.
Bitrate	Data transfer rate is the average number of bits per unit time passing between equipment in a data transmission system. A higher data transfer rate means that the stream quality is better but which will use more bandwidth and storage space.
Smart Codec	Smart video compression
Save	Save the settings.
Default	Restore default system settings.

6.2 Audio Stream

1. Connect the mic to the camera, and power on all the devices. (Some models with built in Mic)
2. Connect the camera with AiCloud remote software, and on the channel, click: **Remote Setting-Video & Audio – Video Stream**.
3. Select “**Enable Audio Stream**” to enable audio encoding function. If the check-box is not selected, there will no sound even if audio-in device is connected.

4. Select proper **Codec** from the drop-down menu, which should be the same as connected NVR if you use NVR.

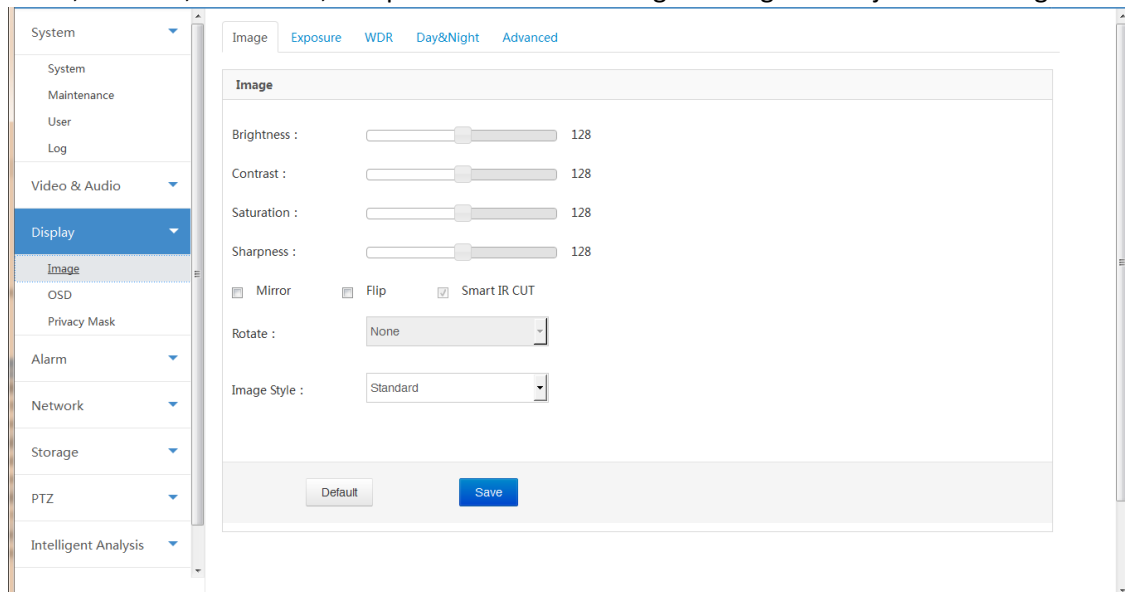
Items	Description
Codec	Audio compression codec. G117A, G117U.
Sampling Rate	Number of samples of a sound.
Bit Width	number of bits of information in each sample
Audio input Adjust	Adjust the input volume
Save	Save the settings.
Default	Restore default system settings.

7. Display

7.1 Image

7.1.1 Image

Brightness, contrast, saturation, sharpness and other settings of image can adjust and configured here



Items	Description
Brightness	Set the brightness of the video.
Contrast	Set the difference in luminance or color that makes display distinguishable.
Saturation	Saturation is the colorfulness of a color relative to its own brightness. A highly saturation is vivid and intense, while a less saturation appears more muted, closer to gray.
Sharpness	Set the subjective perception of sharpness that is related to the edge contrast of the image.
Mirror	Show the mirror image of the video, in which the right side of the original object appears on the left and the left side appears on the right
Flip	Make the picture flip vertically.
Smart IR Cut	Smart IR Cut Sensitivity according to the light
Rotate	Support rotate 0°, 90°, 180°, 270°.
Image Style	Adjust image style with pre-defined image settings. Standard, Vivid and Soft Image settings are available.
Save	Save the settings.
Default	Restore default system settings.

7.1.2 Exposure

Exposure of the camera can be configured here.

System

Video & Audio

Display

Image

OSD

Privacy Mask

Alarm

Network

Storage

PTZ

Intelligent Analysis

Copyright

Image Exposure WDR Day&Night Advanced

Exposure

Exposure Policy : Auto

Anti-flicker : OFF

Mode : Auto

Max. Exposure Time : 1/3

Min. Exposure Time : 1/100000

Default Save

Items	Description
Exposure Policy	You can choose Auto, BLC and HLC
Anti-flicker	Set Anti-Flicker according to the room light.
Mode	Set the exposure mode
Max. Exposure Time	Maximum time of exposure in camera sensor
Min. Exposure Time	Minimum time of exposure in camera sensor
Save	Save the settings.
Default	Restore default system settings.

7.1.3 WDR

You can enable the WDR (Wide Dynamic Range) function here.

System

Video & Audio

Display

Image

OSD

Privacy Mask

Alarm

Network

Storage

PTZ

Intelligent Analysis

Copyright

Image Exposure WDR Day&Night Advanced

WDR

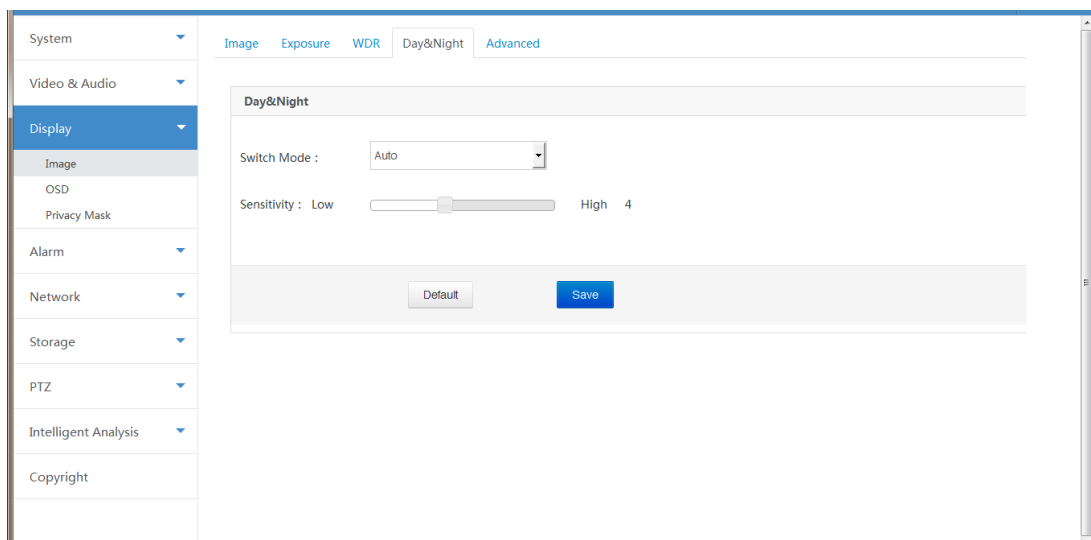
WDR : OFF

Default Save

Note: Some models only support Digital DWDR.

7.1.4 Day & Night

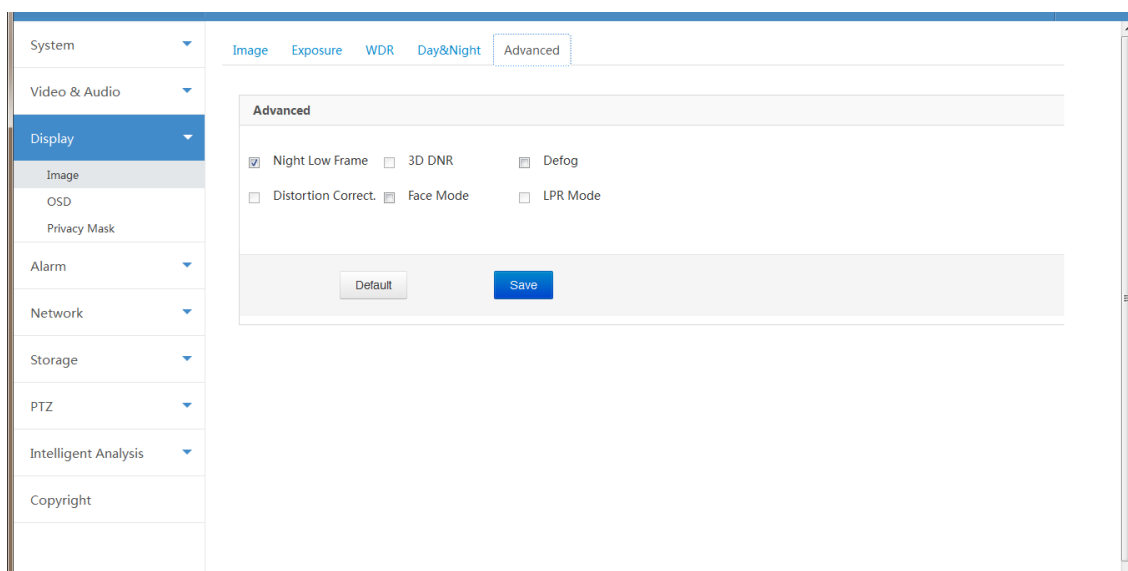
You can set different modes of Day and Night vision in this menu.



Items	Description
Auto	Automatic day and night mode. Adjust the sensitivity Low to High by choosing value from 0 to 10
Color	Always color mode
Black&White	Always black and white mode
Schedule Color	Schedule the Color mode. You can set the Start Time and End Time to schedule this mode.
Save	Save the settings.
Default	Restore default system settings.

7.1.5 Advanced

In Advances Option, you can enable Night Low Frame, 3D DNR, Defog, Distortion Correction, Face Mode and LPR.



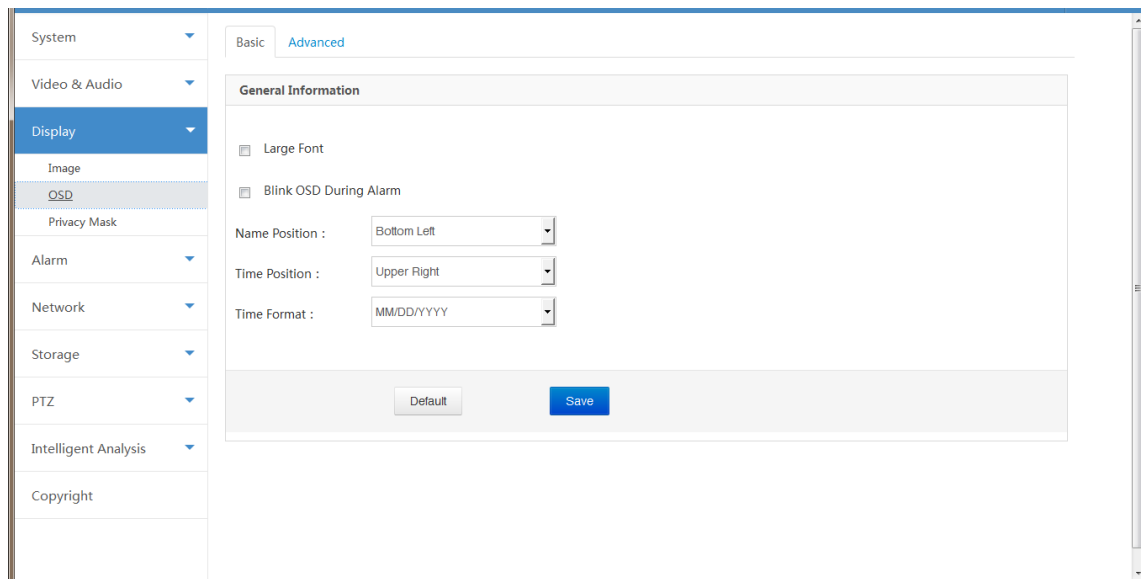
Items	Description
Night Low Frame	Enable this function to improve the night vision effect.
3D DNR	The camera's imager digitally removes noise from the image.
Defog	It helps improve the images clarity in poor weather conditions such as rain, smog or fog.
Distortion Correct	It corrects barrel or pin cushion distortion that occurs in images due to the characteristics of specific lenses.

Face Mode	It controls over exposure on the face in day time.
LPR Mode	License Plate Recognition Mode. Its only available when the device supports LPR
Save	Save the settings.
Default	Restore default system settings.

7.2 OSD

7.2.1 Basic

In the Basic OSD Settings, you can Enable the Large Font OSD as well as Blink OSD During Alarm Options. Also Name Position, Time Position and Date Format.

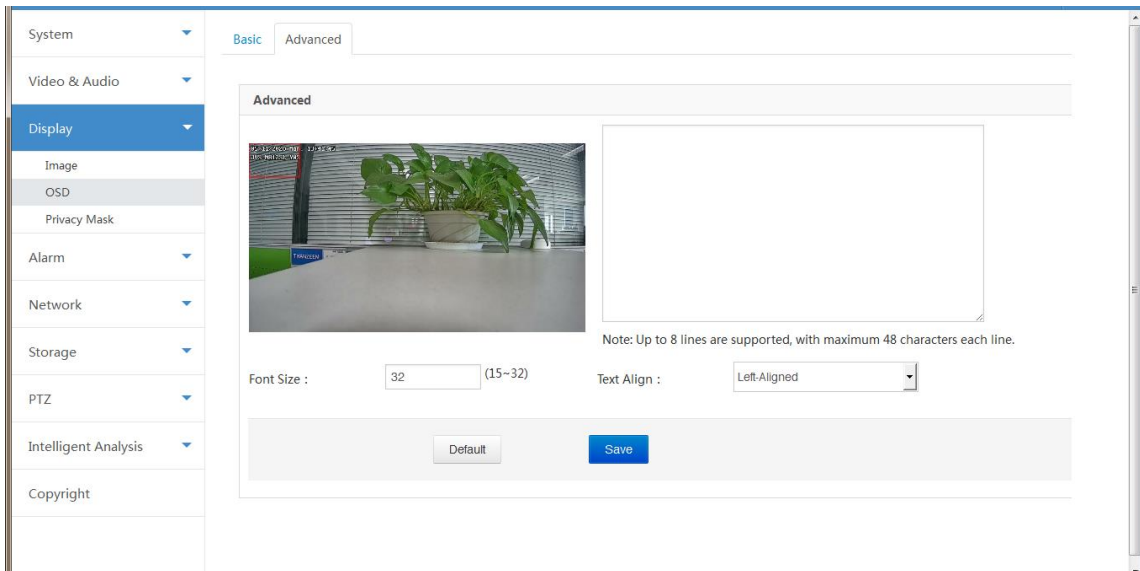


Items	Description
Large Font	Use large OSD if the camera is in high resolution.
Blink OSD During Alarm	If enabled, The OSD will blink in red color when an alarm is triggered.
Name Position	Change the position of OSD Name: Upper Left, Bottom Left, Upper Right, Bottom Right or Hide.
Time Position	Change the position of OSD Time: Upper Left, Bottom Left, Upper Right, Bottom Right or Hide.
Time Format	Change the Time Format: YYYY-MM-DD, MM/DD/YYYY or DD/MM/YYYY.
Save	Save the settings.
Default	Restore default system settings.

7.2.2 Advanced

You can add additional OSD Lines in the camera with this Advanced Menu. Font size settings and Align OSD text function also available in the menu.

Note: You are allowed to add 8 lines of OSD with maximum of 48 characters in each line

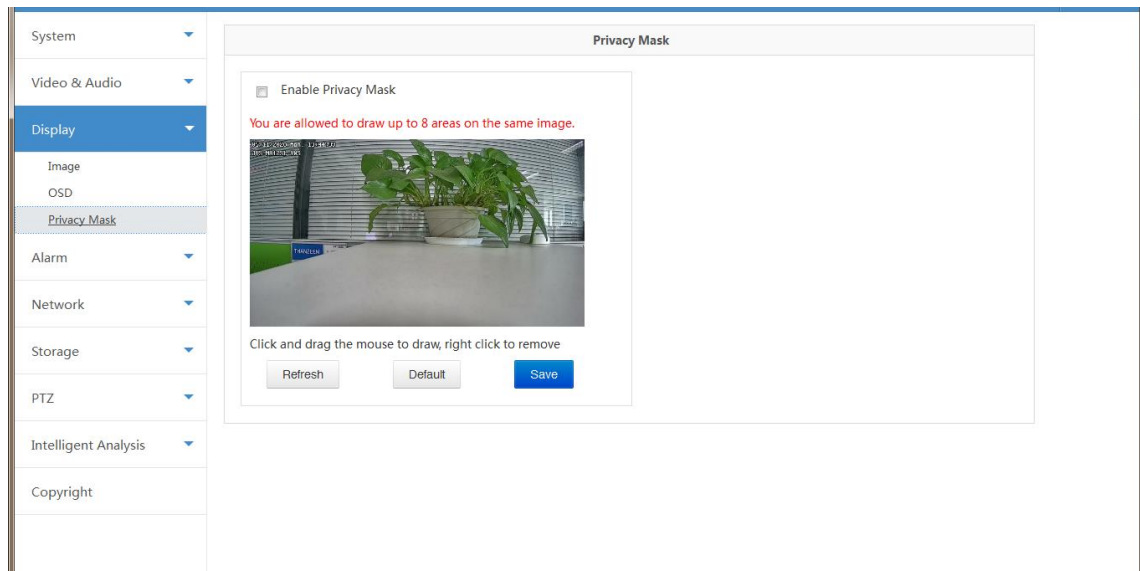


Items	Description
Font Size	Set OSD font size from 15 ~ 32.
Text Align	Align OSD Text: Left Align or Right Align.
Save	Save the settings.
Default	Restore default system settings.

7.3 Privacy Mask

This function allows you to cover an area with a black block, both in live view and recording. Supports up to 8 private areas. Drag the mouse and draw a rectangle covering on the area you want.

Note: You are allowed to draw up to 8 areas on the image.



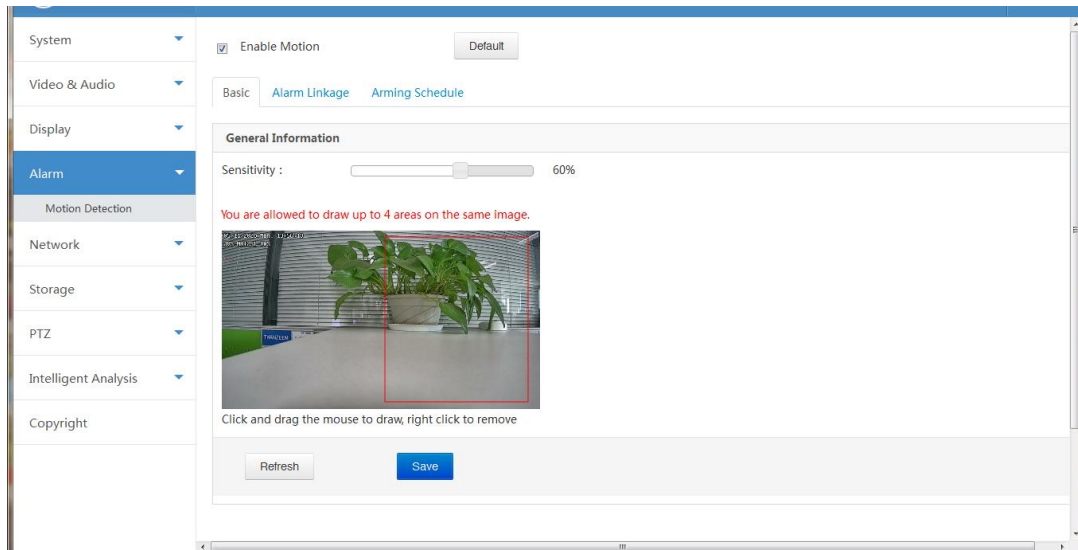
Items	Description
Enable Privacy Mask	Enable Privacy Mask Area function.
Refresh	Get the latest view image
Save	Save the settings.
Default	Restore default system settings.

8. Alarm

8.1 Motion Detection

8.1.1 Basic

Motion detection detects the moving objects in the configured surveillance area, and a series of actions can be taken when the alarm is triggered



Steps

1. Highlight Enable Motion check-box to enable full-screen motion detect.
2. Click and drag the mouse on the live video to draw a motion detection area, you can choose 4 areas at most for one channel. Sensitivity can also be set here.
3. Click OK to save the settings.

Items	Description
Enable Motion	Enable motion detect function.
Sensitivity	Set the sensitivity of motion detect, the higher the number is, the less sensitive the detection is
Refresh	Get the latest view picture
Save	Save the settings.
Default	Restore default system settings.

8.1.2 Alarm Linkage

You can set the Alarm output linkage here.

Items	Description
Send to Client	Send alarm to client software connecting the camera.
Send Alarm Mail	Send an email with alarm information to a user or users when an event occurs
Start Recording	Start recording when alarm is triggered
Alarm Duration	Set the duration that one alarm lasts. 3 ~ 100Sec
Save	Save the settings.
Default	Restore default system settings.

8.1.3 Arming Schedule

You can schedule the Motion Detection Alarm in this page.

Items	Description
All Day	Enable Motion Detection 24x7. If disabled, you can set schedule manually by selecting time range in each day in a week. Note: You are allowed to set 4 periods only in one day
Clear All	Clear all the manual selection of alarm schedule
Save	Save the settings.
Default	Restore default system settings.

9. Network

9.1 Basic

9.1.1 TCP/IP

The TCP/IP screen is used to configure the camera's network settings.

System
Video & Audio
Display
Alarm
Network
Basic
Advanced
Storage
PTZ
Intelligent Analysis
Copyright

TCP/IP DDNS Port

TCP/IP

☒ Enable CloudSEE Service

☒ DHCP ☐ IP Self-Adaption

☒ Auto Online/Offline ☐ Lock IP

IP Address : 172.16.40.222

Subnet Mask : 255.255.255.0

Default Gateway : 172.16.40.1

DNS : 114.114.114.114

MAC : e0:62:90:cb:5d:06

Default Save

Items	Description
Enable AiCloud Service	Enable or Disable AiCloud Cloud Service
DHCP	Dynamic Host Control Protocol to get IP Address from DHCP Pool.
IP Self Adaption	Adapt the Ip Segment of the NVR
Auto Online/Offline	If enabled, the AiCloud Service stop when the device connects to NVR
Lock IP	Keep the IP address unchanged.
IP Address Details	Input IPv4 IP Address, Subnet Mask, Default Gateway and DNS. You can see the MAC Address of the device here.
Save	Save the settings.
Default	Restore default system settings.

9.1.2 DDNS

Set the DDNS Service here for access the device from an external network without using AiCloud Service or by accessing it with Static IP Address.

Items	Description
Server Type	Select pre-defined server types from the list
Domain Name	Input the domain name generated from the server
Username	Username of the server account
Password	Password of the server account
Save	Save the settings.

9.1.3 Port

You can set the network ports in this page

Items	Description
AiCloud Online Port	0
AiCloud Trans. Port	18320
HTTP Port	80
RTSP Port	8554
Save	Save the settings.
Default	Restore default system settings.

9.2 Advanced

9.2.1 Alarm Email

Configure alarm email here.

The screenshot shows the 'Advanced' configuration page for Alarm Email. The left sidebar has a menu with 'Network' expanded, showing 'Basic', 'Advanced' (selected), 'Storage', 'PTZ', 'Intelligent Analysis', and 'Copyright'. The main content area has the following fields:

- SMTP Port : 25
- Encryption : None
- Recipient1 : [text box]
- Recipient2 : [text box]
- Recipient3 : [text box]
- Recipient4 : [text box]
- ☐ Agree [PRIVACY STATEMENT](#)
- Buttons: Test Email, Default, Save

Items	Description
Sender Email	Input E-mail address of the sender.
SMTP Server	Input the SMTP server of sending e-mail.
Username	Username of sender
Password	Password of sender
SMTP Port	Input the port for SMTP
Encryption	Choose the security protocols for SMTP
Recipients	E-mail(s) to receive alarm e-mail
Privacy Statement	Need to agree the Privacy Statement to use Email function
Test Email	Send test e-mail to check whether these settings work fine
Default	Restore default system settings.
Save	Save the settings.

10. Storage

10.1 Management

Here you can manage the storage of the IPC.

Note: Some model doesn't support storage function.

The screenshot shows the 'Storage Management' interface. On the left, a sidebar menu lists various system functions: System, Video & Audio, Display, Alarm, Network, Storage (selected), Management (sub-option), Scheduler, PTZ, Intelligent Analysis, and Copyright. The main content area is titled 'Storage' and contains a table with the following columns: 'Choose', 'Device Name', 'Status', and 'Usage(MB)'. Below the table are two buttons: 'Refresh List' and 'Format'.

Items	Description
Choose	Select storage for operation.
Device Name	It displays the storage name
Status	Display the status of storage
Usage (MB)	Display the usage of the storage
Refresh List	It refreshes the list of the storage
Format	It formats the selected storage

10.2 Schedule

10.2.1 Record Scheduler

You can schedule your recording to the storage.

The screenshot shows the 'Record Scheduler' interface. On the left, the sidebar menu is the same as in the previous screenshot, with 'Storage' selected and 'Scheduler' as the active sub-option. The main content area has two tabs: 'Record Scheduler' (active) and 'Snapshot Scheduler'. The 'Record Scheduler' tab contains the following settings: 'File Length(Min.)' is set to 10; 'Record Channel' is set to 'Sub Stream'; and there are three checkboxes: 'All Day' (unchecked), 'Do Not Record' (checked), and 'Period(s)' (unchecked). A 'Save' button is located at the bottom of the settings area.

Items	Description
File Length (Min)	Length of the video footage to record

Record Channel	Recording video streaming in Main Stream or Sub Stream
All Day	Record all day long
Do not Record	Stop recording
Period(s)	Record in specific period
Save	Save the settings.

10.2.2 Snapshot Scheduler

Schedule your snapshots here

Items	Description
Tasks	Set the snapshot schedule tasks
Save	Save the settings.
Default	Restore default system settings.

11. PTZ

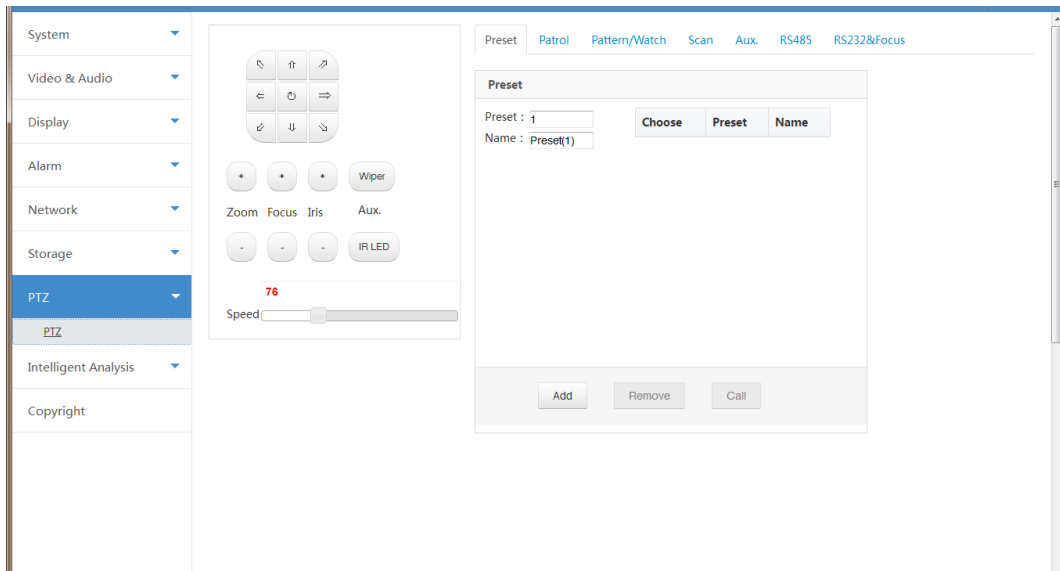
11.1 PTZ


In the web interface, you can use the PTZ control buttons to operate Pan/Tilt/Zoom control of the camera.

Note: To get PTZ control, the camera connected to the network must support the PTZ function or a Pan/Tilt unit has been installed to the camera. Please set the PTZ parameters on RS485 settings page properly.

11.1.1 Preset

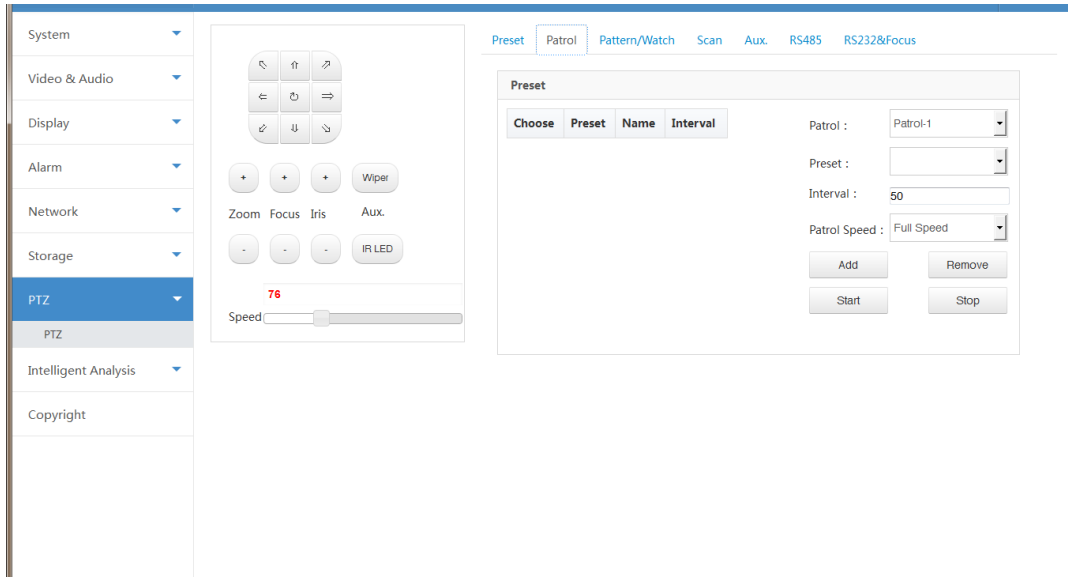
You can set the preset points of PTZ camera in the page



Items	Description
Navigation Keys	There are 8 direction arrows. It uses to control the view of PTZ camera. Use  to start rotating horizontally.
Zoom	Zoom in and zoom out
Focus	Adjust the focus of the camera.
Iris	Adjust the iris of the camera.
AUX	Click Wiper to clean water on the lens with wipers. Click IRLED to turn on IR when it is dark.
Speed	Adjust the speed of Pan/Tilt movements.
Preset	Preset number, 1 to 255, support 256 presets in total.
Name	Preset name, which can be modified to be recognized easier.
Add	Adjust the position of the camera view, click this button to add current view position as a preset.
Remove	Select a preset, and remove it with this button.
Call	This feature enables the camera to point to a specified preset scene manually or when an event takes place. For the defined preset, you can call it at any time to the desired preset scene.

11.1.2 Patrol

Note: No less than 2 presets have to be configured before you set a patrol.

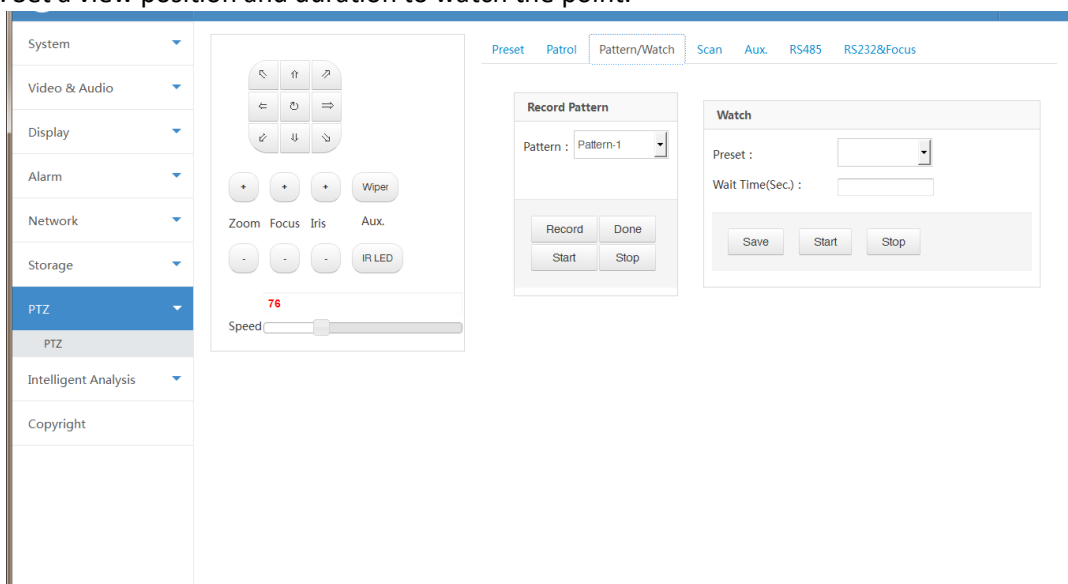


Items	Description
Patrol	All the presets involved in patrol are listed.
Preset	Select the preset(s).
Interval	Patrol duration of the preset.
Patrol Speed	The speed of patrol.
Add	Add the preset to patrol.
Remove	Delete the preset to patrol.
Start	Start patrol.
Stop	Stop Patrol.

11.1.3 Pattern/Watch

Pattern: Set a patrol pattern manually by using direction arrows instead of presets, system will remember the pattern and save it.

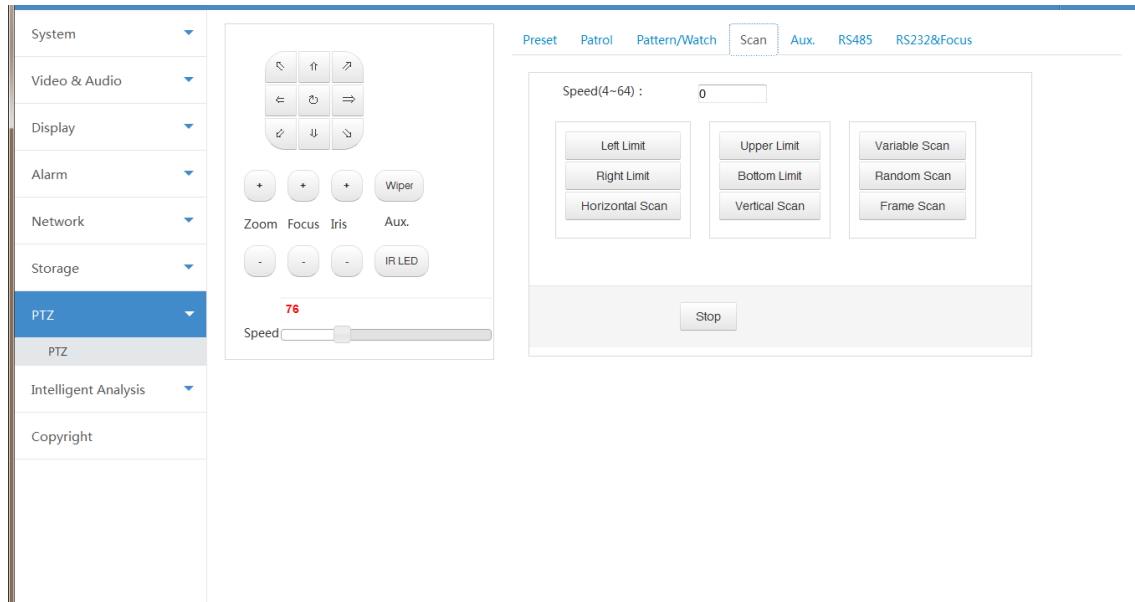
Watch: Set a view position and duration to watch the point.



Items	Description
Pattern	Choose the pattern you want to edit or use.
Done	Click Finish to stop path recording and save it.

Start	Start selected path patrol.
Stop	Stop the path patrol.
Preset	Select the preset used for watching.
Wait Time (Sec.)	Set the duration of watching.
Save	Save the settings.
Start	Start watching.
Stop	Stop watching.

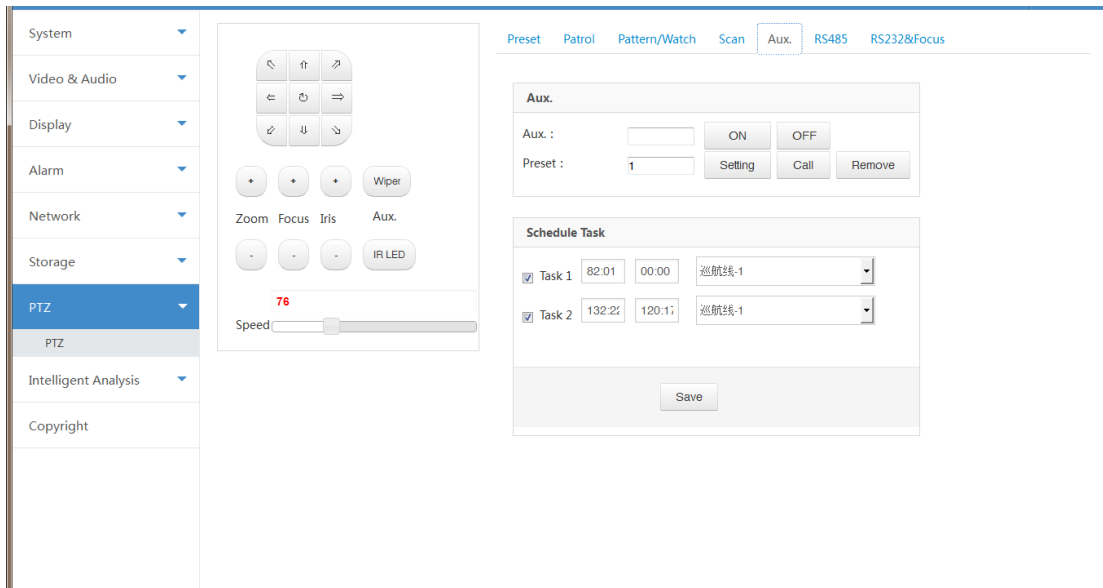
11.1.4 Scan



Items	Description
Speed	Set the speed of scanning
Left Limit	Set left limit manually with direction arrows,
Upper Limit	Set up limit manually with direction arrows,
Variables Scan	Use presetted various scanning style.
Right Limit	Set right limit manually with direction arrows,
Bottom Limit	Set bottom limit manually with direction arrows,
Random Scan	Start scan randomly
Horizontal Scan	Start scan horizontally
Vertical Scan	Start scan vertically
Frame Scan	Start frame scan
Stop	Stop scanning

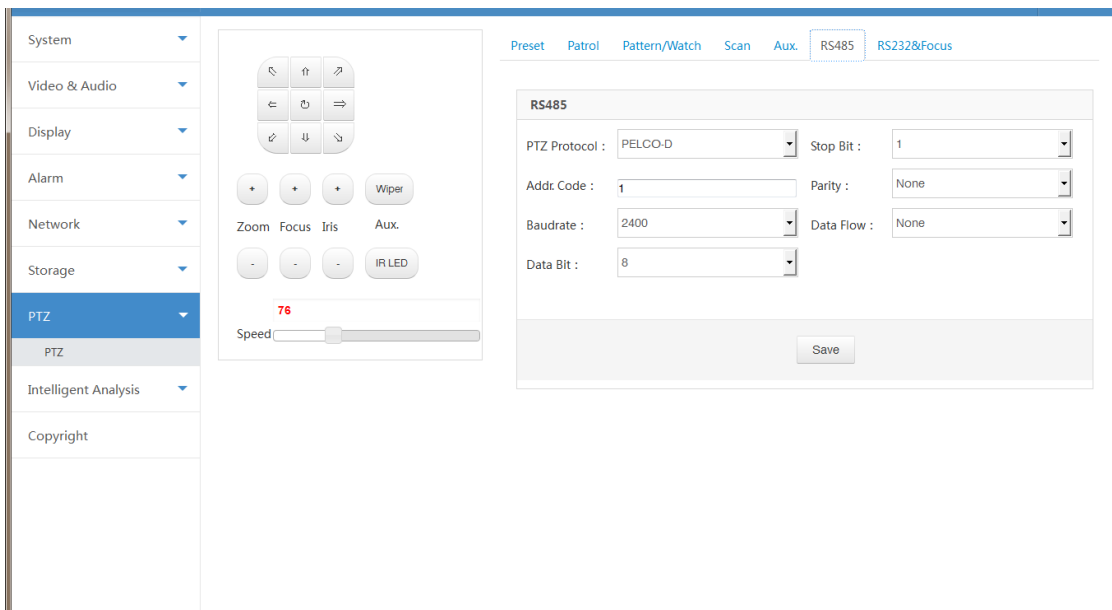
11.1.5 Aux

You can set Aux ON/OFF and Setting/Call/Remove in this page. You can also set scheduled here.



11.1.6 RS485

The RS485 serial port is used to control the PTZ of the camera. The configuring of the PTZ parameters should be done before you control the PTZ unit.



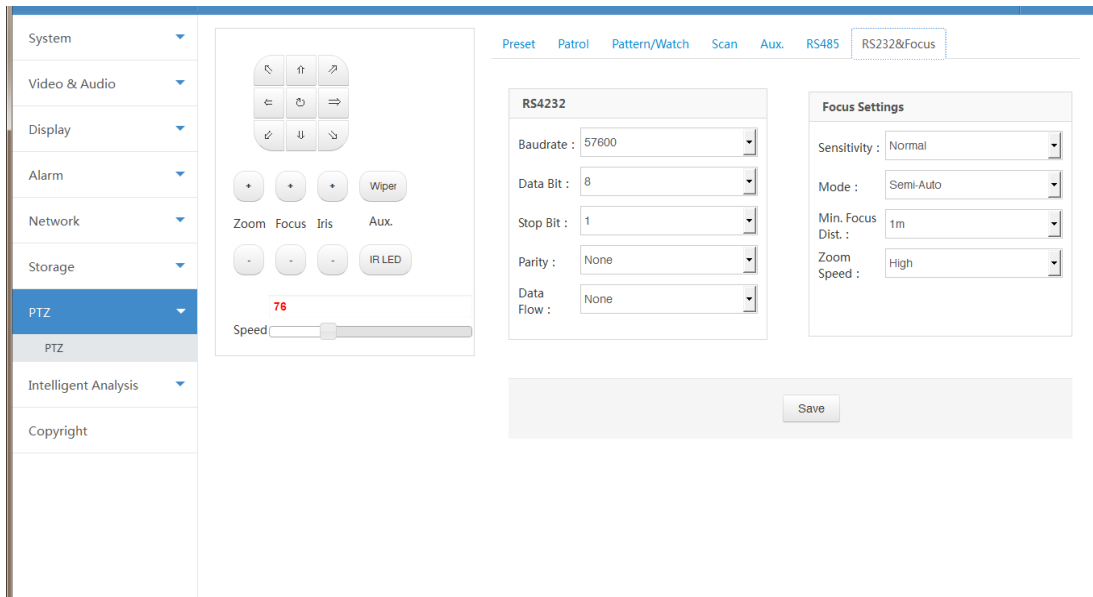
Steps:

1. Enter PTZ setting interface.
2. Set the RS485 parameters and click Save to save the settings. By default, the Baud Rate is set as 2400 bps, Addr. Code is 1, the Data Bit is 8, the stop bit is 1 and the Parity and Flow Control is None.

Note: The Baud Rate, PTZ Protocol and PTZ Address parameters should be exactly the same as the PTZ camera parameters.

11.1.7 RS232&Focus

You can set RS232 and Focus Settings of PTZ in the page



Note: If you want to connect the camera by the RS232 port, the parameters of the RS232 should be exactly the same with the parameters you configured here.

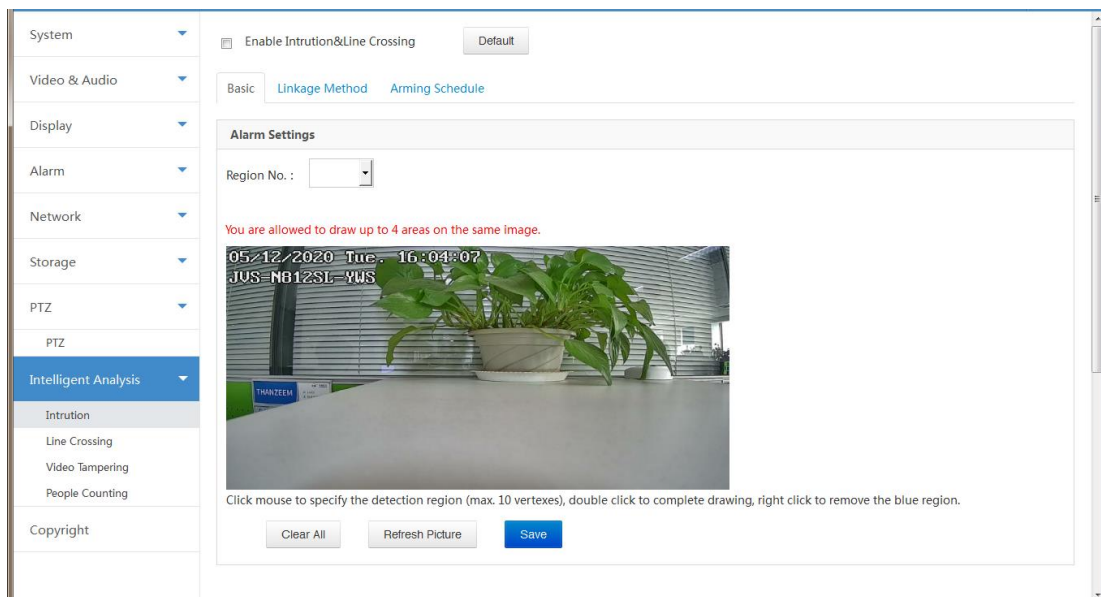
12. Intelligent Analysis

12.1 Intrusion

Regional or intrusion detection function detects people, vehicle or other objects which enter and loiter in a pre-defined virtual region, and some certain actions can be taken when the alarm is triggered.

Note: Intrusion detection function varies according to different camera models.

12.1.1 Basic



Steps:

1. Enter the Intrusion settings interface
2. Check the checkbox of Enable Intrusion & Line Crossing to enable the function.
3. Click on the live video image to specify the vertexes of the detection region and double click to complete drawing.

- Repeat the above steps to configure other regions. Up to 4 regions can be set. You can right click to clear the regions one by one or Click on Clear All button to clear all the region.
- Click Refresh Picture to refresh the live video image
- Click Save to save the settings.

12.1.2 Linkage Method

Items	Description
Show Line/ Region	Enable to show the line or region on the video display
Line Blink	Blink the line or region when an object crosses it
Mark Target	Mark the crossing target
Mark All Object	Mark all the moving targets
Send to Client	Send alarm to client software connecting the camera.
Send Alarm Email	Send an email with alarm information to a user or users when an event occurs
Start Recording	Start recording when alarm is triggered
Save	Save the settings.
Default	Restore default system settings.

12.1.3 Arming Schedule

You can schedule the Motion Detection Alarm in this page.

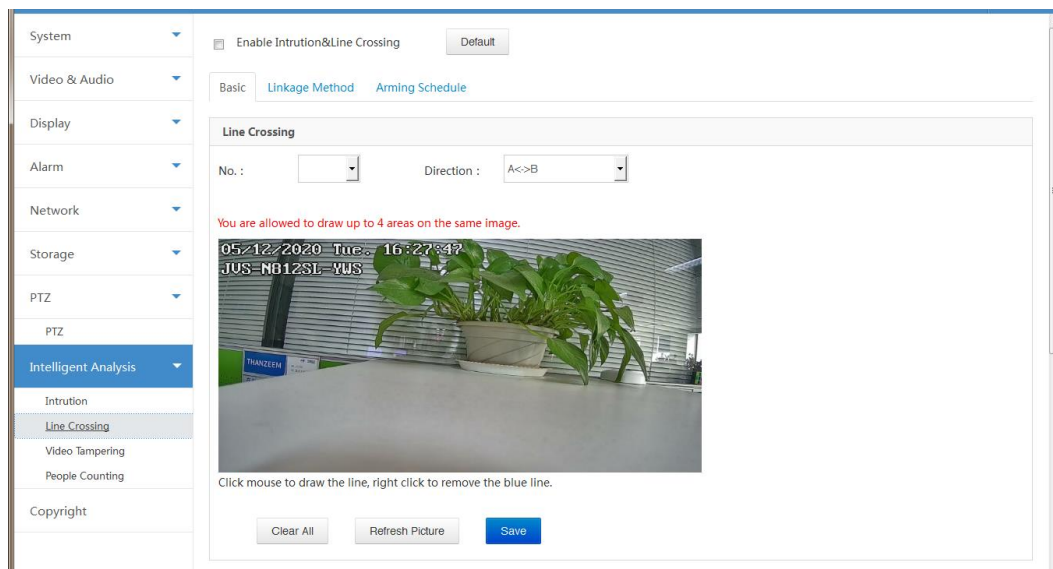
Please check [7.1.3 Arming Schedule](#) for the reference

12.2 Line crossing

Line Crossing or Cordon detection function detects people, vehicle or other objects which cross a pre-defined virtual line and some certain actions can be taken when the alarm is triggered.

Note: Line crossing detection function varies according to different camera models.

12.2.1 Basic



Steps:

1. Enter the Line Crossing settings interface.
2. Check the checkbox of Enable Intrusion & Line Crossing to enable the function.
3. Click and drag the line then click again to finish. You can locate it on the live video as desired.
4. Select the direction for line crossing detection. And you can select the directions as A<->B, A ->B, and B->A.

A<->B: Only the arrow on the B side shows; when an object going across the plane with both directions can be detected and alarms are triggered.

A->B: Only the object crossing the configured line from the A side to the B side can be detected.

B->A: Only the object crossing the configured line from the B side to the A side can be detected.

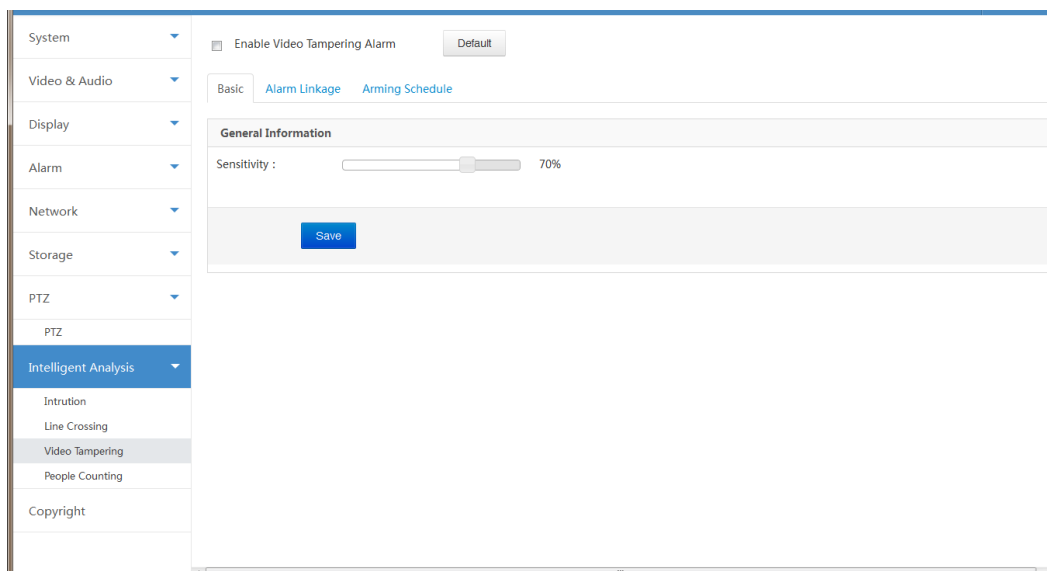
5. Repeat the above steps to configure other lines. Up to 4 lines can be set. You can right click to clear the lines one by one or click Clear All button to clear all pre-defined lines.

6. Click Save to save the settings.

For Linkage Method and Arming Schedule for Line Crossing, please refer [11.1.2 Linkage Method](#) and [7.1.3 Arming Schedule](#)

12.3 Video Tampering

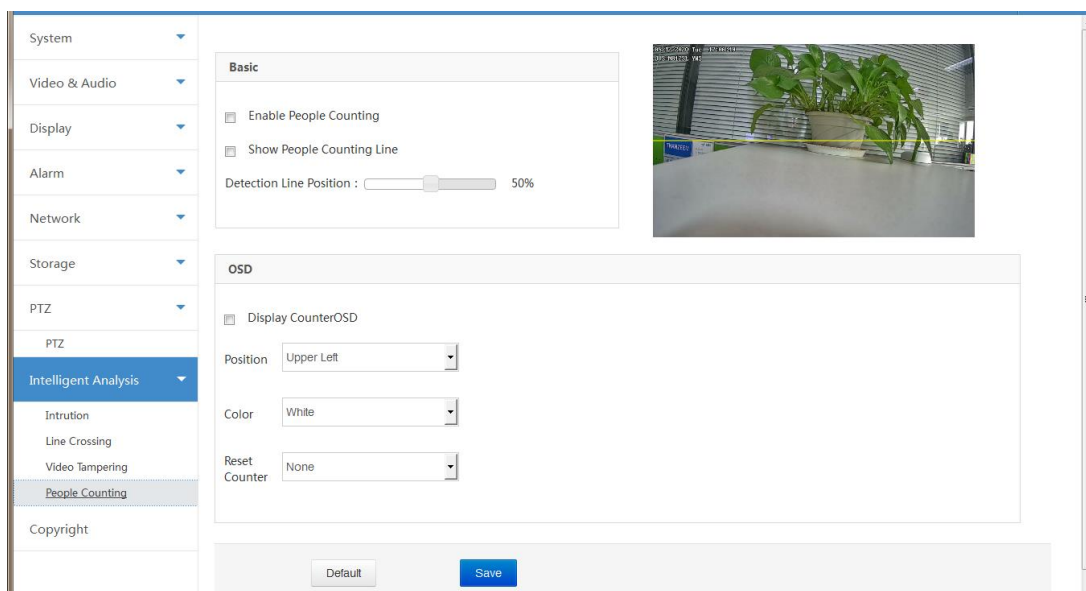
It gives alarm when someone tried to tamper the video. You can set the sensitivity here.



For Linkage Method and Arming Schedule for Line Crossing, please refer [11.1.2 Linkage Method](#) and [7.1.3 Arming Schedule](#)

12.4 People Counting

This function use to count people.



Items	Description
Enable People Counting	Check the checkbox to enable people counting function
Show People Counting Line	It displays the people counting line on the video stream
Detection Line Position	It can adjust the detection line position
Display Counter OSD	OSD show the count of the people crossed the line
Position	You can set the position of the counter. Upper Left, Upper Right, Bottom Left and Bottom Right can choose.
Color	Choose color to display the counter on the screen.
Reset Counter	It reset the counter in selected days.
Save	Save the settings.
Default	Restore default system settings.