



HD NETWORK CAMERA

User Manual

RS-CH772H1B-36-RF

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Introduction

Thank you for using our network camera products. Our network camera products are integrated and developed for network video monitoring, including Storage Network Bullet, Wireless Storage Network Bullet, IR Network Dome, IR Network Weather-Proof Cameras and High-Speed Network Ball. High-performance single SOC chips are used in media processor for audio/video acquisition, compression and transmission/transfer. Standard H.264 encoding algorithm is applied to ensure clear and smooth video representation and transfer performance. Embedded Web Server offers users access to real-time surveillance and remote control of front-end camera through IE browser.

The network cameras are easy to install and operate. The network cameras are applicable to large and medium-size enterprises, governmental projects, large mall, chain supermarkets, intelligent buildings, hotels, Hospitals and schools and other group customers, as well as to applications requiring remote network video transmission and monitoring.

Instructions:

- For purpose of this manual, IP camera means network camera.
- Single click means a single click on the left mouse button.
- Double click means a double-click on the left mouse button.
- The default for DHCP automatically obtain an IP address
- The default factory administrator user name for IP camera is admin (in lowercase), and the password is 123456.
- The default Web port number is 80 and the default media port number is 9000.

Statement:

Some information contained in this manual may differ from the actual product. For any problems you cannot solve with the use of this manual, please contact our technical support or the authorized dealers. This manual may be subject change without prior notice.

1. Overview

1.1 Product Description

An IP camera is a digital online surveillance camera embedded with Web server and capable of independent operation, giving user access to real-time monitoring through web browser or client software from any place across the world.

IP camera is based on the latest Hisilicon solution, an integrated media processing platform for audio/video acquisition, compression and network transmission on a single board. It is in compliance with H.264/ H265 High Profile encoding standards. Any remote user can have access to real-time monitoring by entering the IP address or domain name of the IP camera in web browser. This network camera solution is applicable to residential or business environments as well as a wide range of situations requiring remote network video monitoring and transmission. The IP camera products are easy to install and operate.

The IP cameras can be managed by several users with different authorization levels.

IP cameras allow motion detection, and send e-mail and snapshot taken in case of emergency and store the image or video snapshot in SD card for retrieval.

1.2 Operation Environment

Operating system: Windows 7/Windows 8/Windows 2008 (32/64-bit),
Windows 2003/Windows XP/Windows 2000 (32-bit)

CPU: Intel Core Duo II dual-core processor or higher

Memory: 1G or more Video memory: 256M or more

Display: 1024 × 768 or higher resolution

IE: IE 6.0 or higher version

2. Device Connection

IP camera can be connected in two ways:

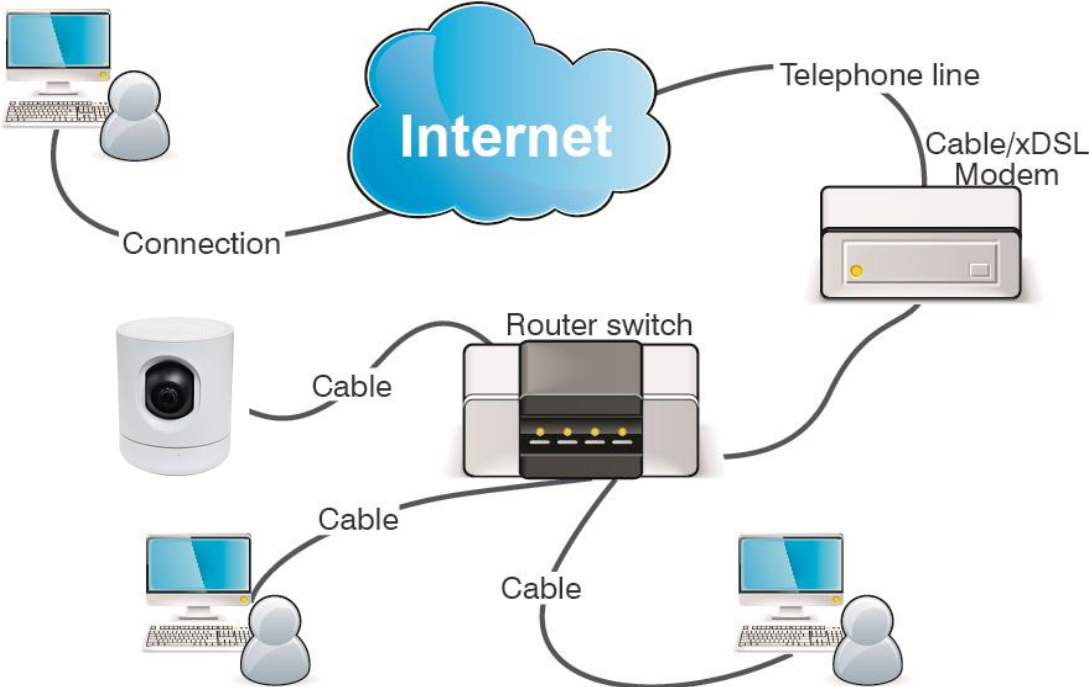
1. Connection to PC

Connect IP camera to PC via straight-through network cable, with power input connected to a DC 12V adaptor, and set the IP addresses of the PC and IP camera in one network segment. The IP camera will communicate with PC within one minute after being powered on if the network operates normally.



2. Connection to router/switch

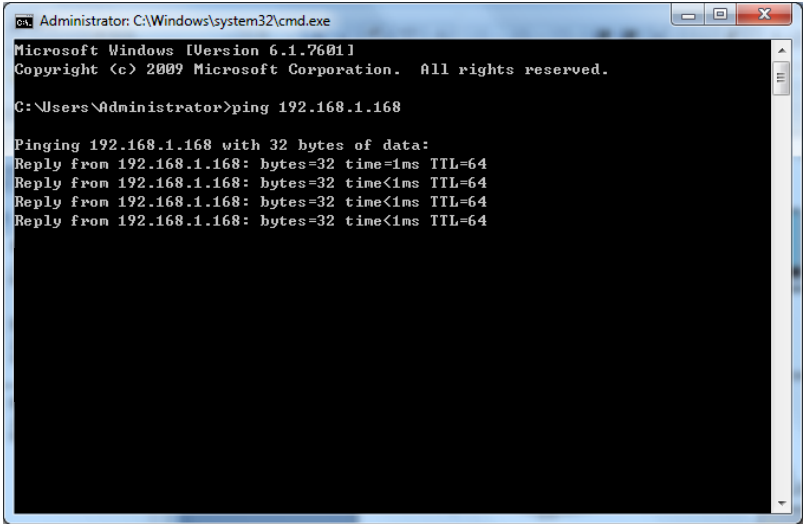
This is more commonly used in connecting the IP camera to Internet, where the camera and PC are connected to LAN ports of a router/switch, with gateway of the camera set to the IP address of the router.



3. Device Operation Instructions

3.1 Check Connection

1. The default factory IP address for IP camera is 192.168.1.125 and the subnet mask is 255.255.255.0. Allocate to your computer an IP address in the same network segment as the IP camera, for example, 192.168.1.69, and a same subnet mask as that of the IP camera.
2. Test whether the IP camera is connected properly and started normally by clicking on Start > Run and entering "cmd" and pressing ENTER, and entering "ping 192.168.1.168" in the command line window to



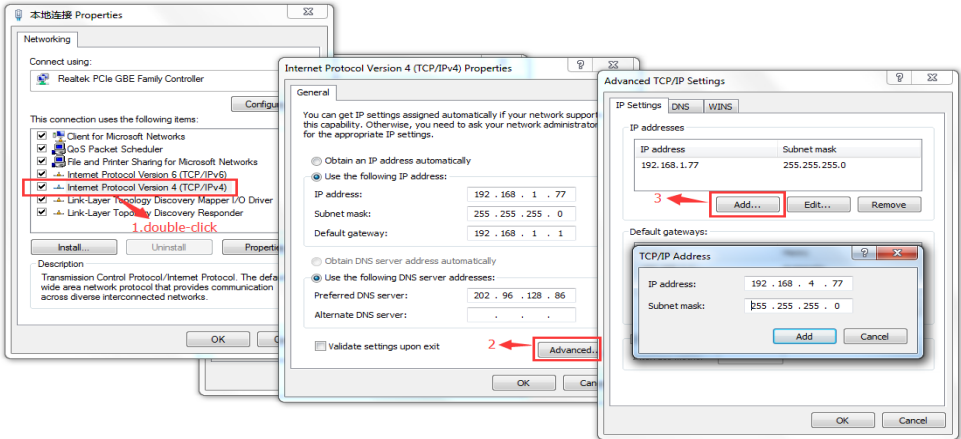
Check whether the IP camera is accessible. If the PING command is executed successfully, it indicates that the IP camera operates normally and the network is connected properly. If the PING command fails, check IP address and gateway setting of the PC and connectivity of the network.

3.2 Searching Device

Tips: IPC Device Search may be used for device searching across network segments. Before running IPC

Device Search, click on the local connection icon  at the lower right corner of the desktop;

1. Add IP addresses of several network segments in TCP/IP setting for local connection (as shown below). By running the searching tool you can search any device with IP address in the same network segment.




Note:

IPC Device Search uses multicast protocol for device searching across segments but any firewall forbids traffic of multicast data packets, so any firewall must be disabled in order that network the information on device can be

acquired.

Online device searching procedure



1. Run IPC Device Search by double clicking icon . It will search and display any online IPC and its IP address, port number, number of channels, device type and version, subnet mask, gateway, MAC address and connection pattern.

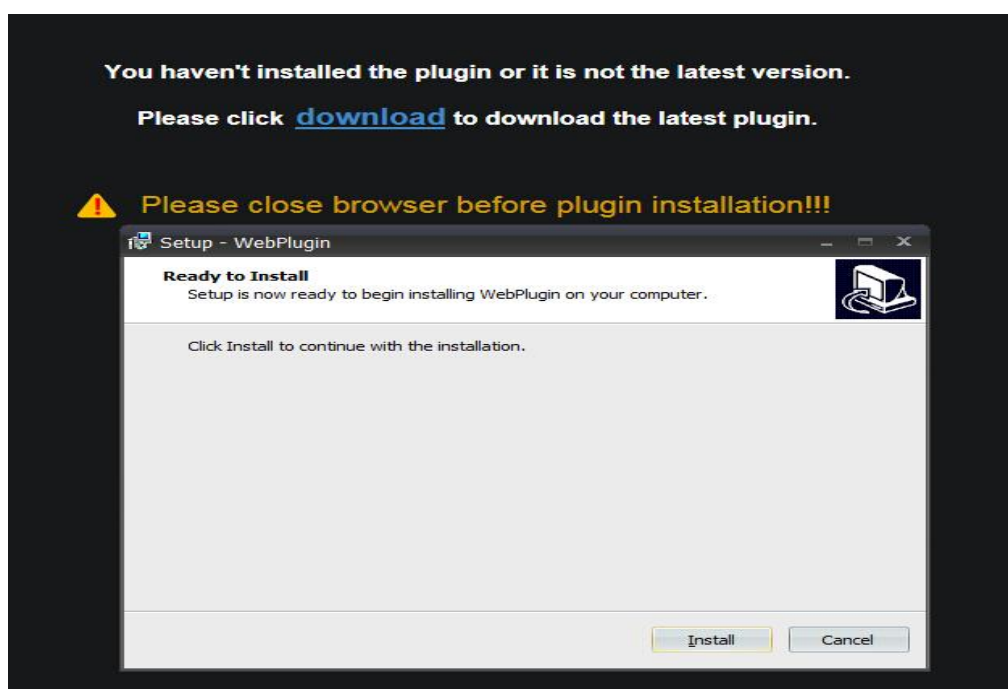
Device Search												
Search			Platform Set		Manual Setting		Device List					
No.	IP	Media Port	Channel Number	Device Type	Device Verion	Net Mask	GateWay	MACAddress	DNS1	DNS2	Web Port	Network Mode
1	192.168.1.30	9988	1	IP CAMERA	V2.0.1.0_151224	255.255.255.0	192.168.1.1	00-23-63-39-BD-D8	192.168.1.1	0.0.0.0	80	Manual
2	192.168.1.31	9988	1	IP CAMERA	V2.0.1.0_160317	255.255.255.0	192.168.1.1	00-23-63-5B-B7-66	192.168.1.1	0.0.0.0	80	Manual
3	192.168.1.34	9988	1	IP CAMERA	V2.0.1.0_160331	255.255.255.0	192.168.1.1	00-23-63-5B-B7-6A	192.168.1.1	0.0.0.0	80	Manual
4	192.168.1.36	9988	1	IP CAMERA	V1.0.1.1-151009	255.255.255.0	192.168.1.1	70-23-63-38-45-3A	182.92.131.150	8.8.8.8	80	Manual
5	192.168.1.37	9988	1	IP CAMERA	V2.0.1.0_160317	255.255.255.0	192.168.1.1	00-23-63-68-7E-9B	192.168.1.1	0.0.0.0	80	Manual
6	192.168.1.100	9000	8	DVR	V6.1.0-20151217	255.255.255.0	192.168.1.1	00-BC-BC-AA-22-23	192.168.1.1	0.0.0.0	80	Manual
7	192.168.1.103	9000	32	NVR-H5B-32	V5.2.0-20160331	255.255.255.0	192.168.1.1	00-11-22-66-52-C6	202.96.128.86	8.8.8.8	80	DHCP
8	192.168.1.106	9000	32	NVR32-3MP	V5.2.0-20150911	255.255.255.0	192.168.1.1	00-23-63-40-5C-95	202.96.128.86	8.8.8.8	80	DHCP
9	192.168.1.107	9000	32	NVR323-3MP	V5.2.0-20160307	255.255.255.0	192.168.1.1	00-11-22-66-52-C7	202.96.128.86	8.8.8.8	80	Manual
10	192.168.1.123	9988	1	IP CAMERA	V2.0.1.0_160402	255.255.0.0	192.168.1.1	00-23-63-5B-B7-64	192.168.1.1	0.0.0.0	80	Manual
11	192.168.1.125	9000	1	PLM00	V1.0.1.2-160407	255.255.255.0	192.168.1.1	00-23-63-5C-39-56	202.96.128.86	8.8.8.8	80	DHCP
12	192.168.1.166	9988	1	IP CAMERA	V2.0.1.0_160405	255.255.255.0	192.168.1.1	00-16-6C-F6-75-24	192.168.1.1	0.0.0.0	80	Manual
13	192.168.1.169	9988	1	IP CAMERA	V2.0.1.0_160408	255.255.255.0	192.168.1.1	00-23-63-5E-C0-C3	192.168.1.1	0.0.0.0	80	Manual
14	192.168.1.200	63206	1	IP CAMERA	V1.0.1.3-160411	255.255.255.0	192.168.1.1	00-2A-2B-FE-19-19	8.8.8.8	8.8.8.8	63207	Manual
15	192.168.1.201	63204	1	IP CAMERA	V1.0.1.1-160314	255.255.255.0	192.168.1.1	00-23-63-5E-C2-01	8.8.8.8	8.8.8.8	63205	Manual
16	192.168.1.242	9988	1	75 Zoom 4M	V2.0.1.0_160413	255.255.255.0	192.168.1.1	00-11-22-A3-87-55	192.168.1.1	0.0.0.0	80	Manual

3.3 Installation of Controls and Login to System

Before using IE (Internet Explorer) browser to access the IP camera for the first time, related plug-in components must be installed by following the procedure below:

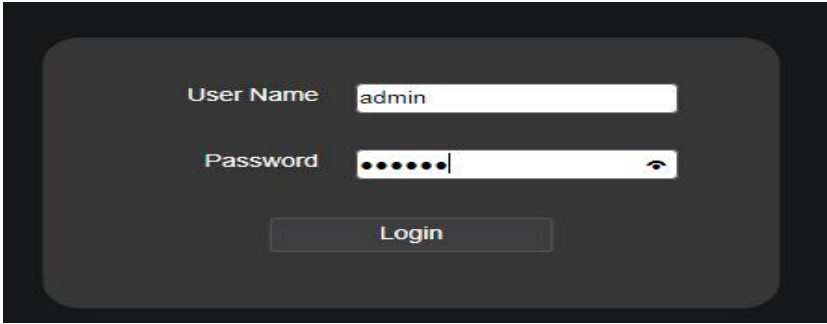
Access IP address of the IP camera to automatically load the controls from it.

In a pop-up plug-in installation dialog box, choose an installation option to perform the installation process.

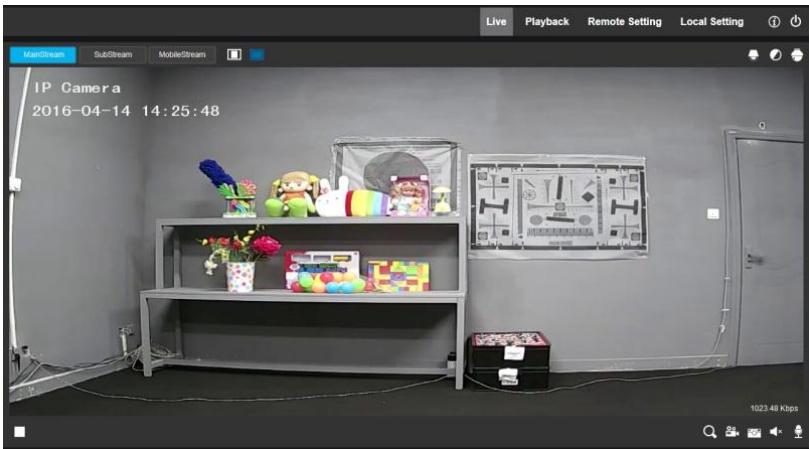


3.3.1 Preview

Operate IE and enter the IP address of the camera (http://192.168.1.125) to open a login box as shown below:



In the login box you can choose a language for the IE client. Enter your user name (admin by default) and password (123456 by default) and then press OK to open a preview frame as shown below:



Some buttons in the preview frame are described below



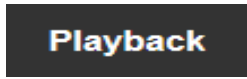
:Can be opened (breathing) on/off (breathing) wouldn't light



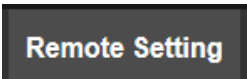
: Color setting button, for setting of color, brightness, contrast, saturation and sharpness of the frame



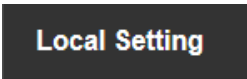
.:PTZ control yuntai function



: read the recording file from SD card, and then playback from browser



: Access to device setting menu, for customized setting of various device parameters.



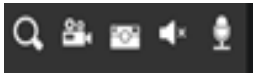
: For setting of snapshot, video file type and storage path.



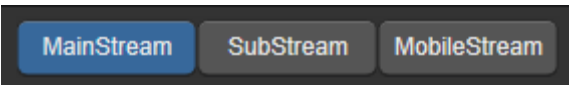
: Help information (including current user, Web browser and plug-in versions), logout button, for returning to the login page.



: Preview frame ratio adjustment, toggling between Original Ratio and Automatic Ratio.



: Preview control buttons - Zoon-In/Out, Open Video, Snap and Sound On/Off, Mircophonearranged from the left to the right.

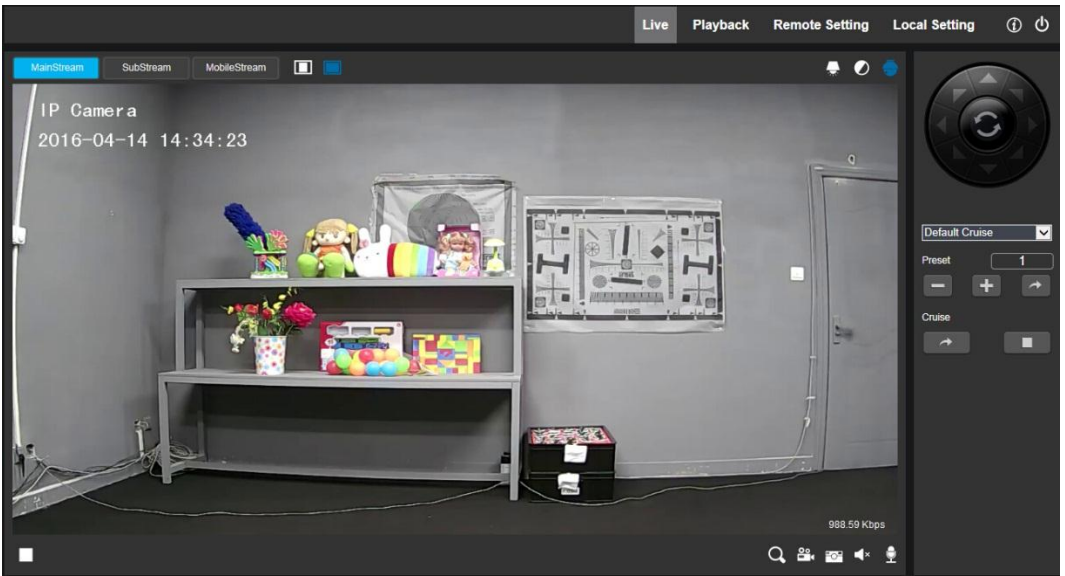


: Dynamic switching of bit stream for the preview frame.



:Yuntai control button, click on the preview page

after the diagram below:



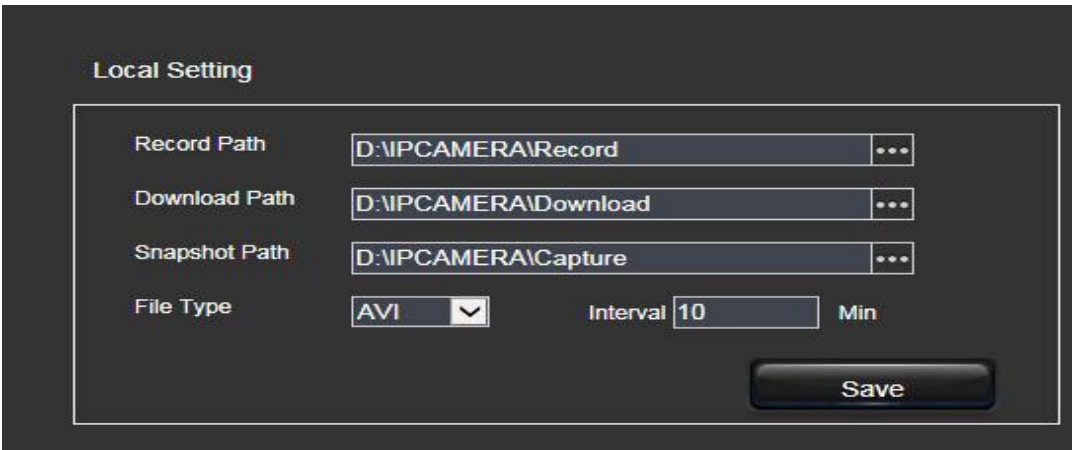
Preview page pops up a new operating page, contains the PTZ, Preset, Cruise

PTZ: on behalf of yuntai bearing (or so)

Preset: you can add, delete, call the Preset points (1-15)

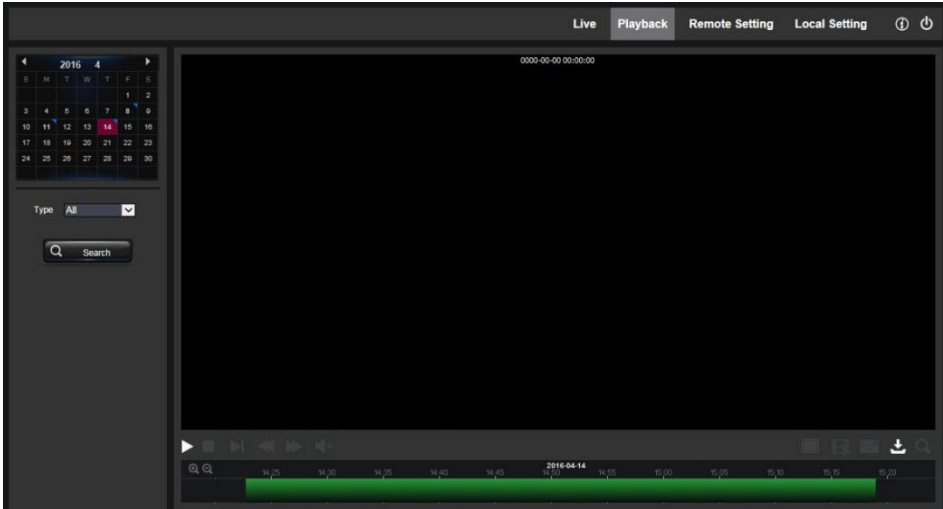
Cruise: can default, stop and Cruise mode to parallel Cruise, parallel 355 degrees

Local Setting : Click Path Configuration button to pop up the following dialog box: In this dialog box you can set video storage location, paths for download of remote file and storage of image snapshot, file type (AVI by default, in H264 encoding) and video recording duration.



3.3.2 Playback (optional function)

Click record file to playback, select the corresponding date, then click the Search to go to below page



Button function explanation:



: Record file type; ALL、Normal、 Alarm



: From left to right is play/pause, stop, frame playback(click one time, playback one Frame), slow playback, fast forward, audio control

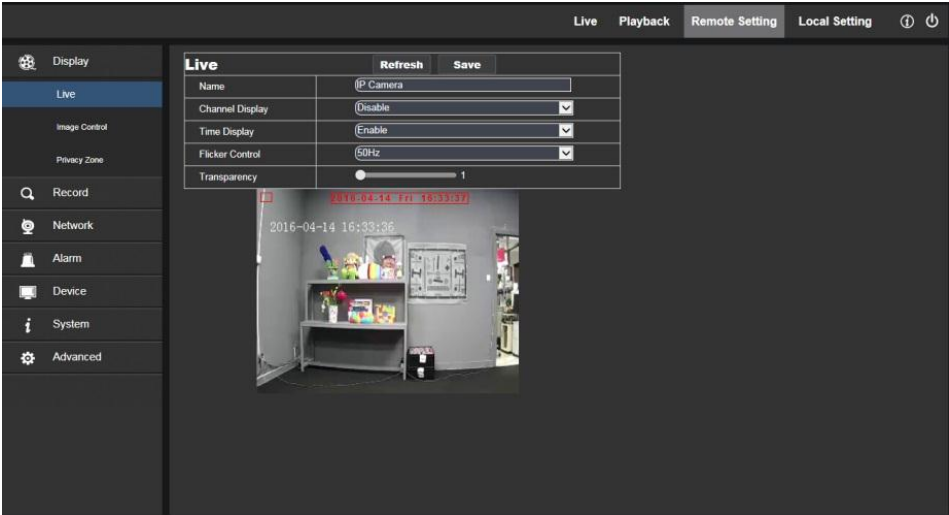


: from left to right is scale up, Video clips(need to setup in the progress bar), screenshot, video download and zoom

4 Parameter Setting

4.1 Display Configuration

Click on Parameter Setting to open the page as below (preview setting page by default):



Name of channel: name of the IP camera

Display of channel: Choose to display or conceal it. defaults to Disable

Time display: Choose to display or conceal it.

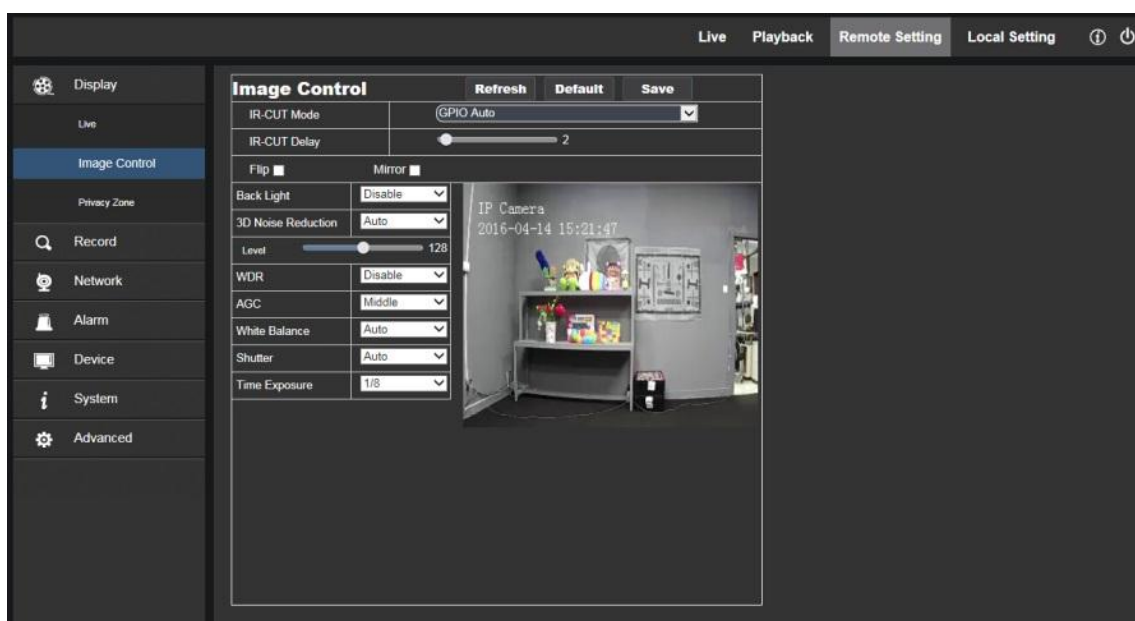
Blinking control: Choose 50Hz, 60Hz or disable it.

Transparency: Choose transparency of display of name of channel and time on the preview frame (smaller value indicates higher transparency)

OSD: the text in red color on the frame; you can locate display of the name of channel and time by dragging it in the preview frame.

4.2 Image Control

Click on Image Control in Display Configuration to open the following page:



IR-Cut Model: Classified into GPIO Automatic, Colored, and Black-White models.

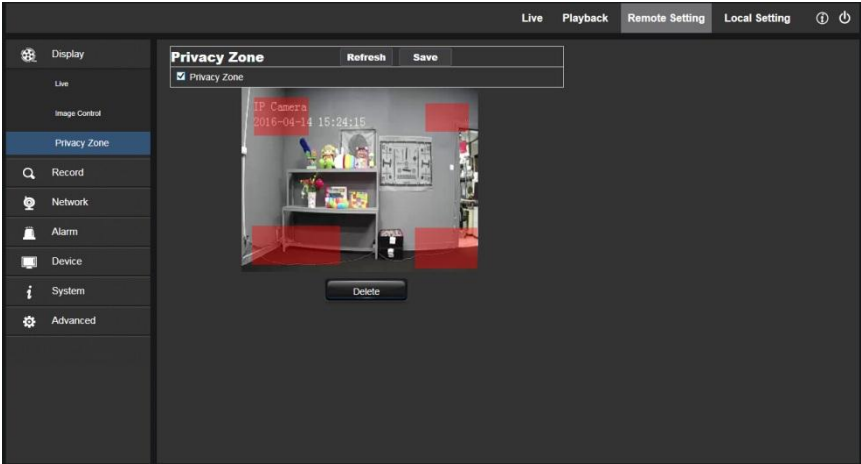
Delay: IR-cut switching delay.

Image rollovers: is there a flip horizontal and vertical flip

Image Control: backlight compensation, 3D noise reduction, WDR, automatic gain, shutter speed, exposure time and white balance.

4.3 Video Blocking

Click on Video Blocking in Display Configuration to open the following page:



Procedure of setting video blocking:

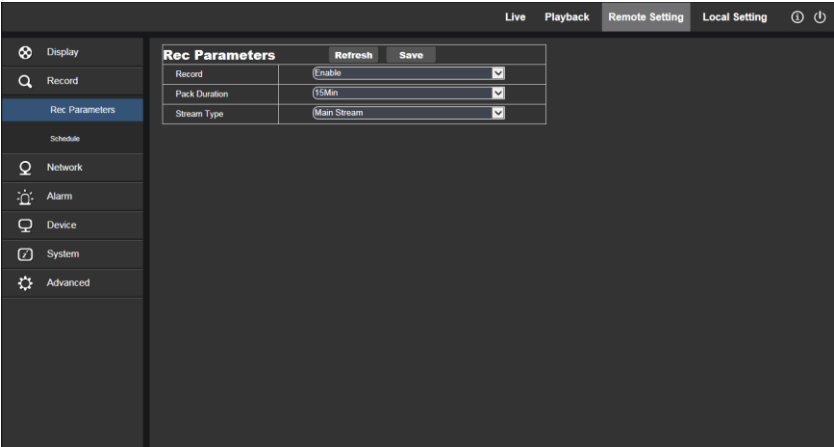
- 1. Check Enable Video Blocking
- 2. Press down and hold the left mouse button and drag out a area for video blocking (up to four areas at one time)
- 3. Click on Save to enable the video blocking area.

Remove: After clicking Refresh, choose a blocked area by clicking it and then click Remove and click Save to remove it.

5. Record Parameters

5.1. Rec Parameters

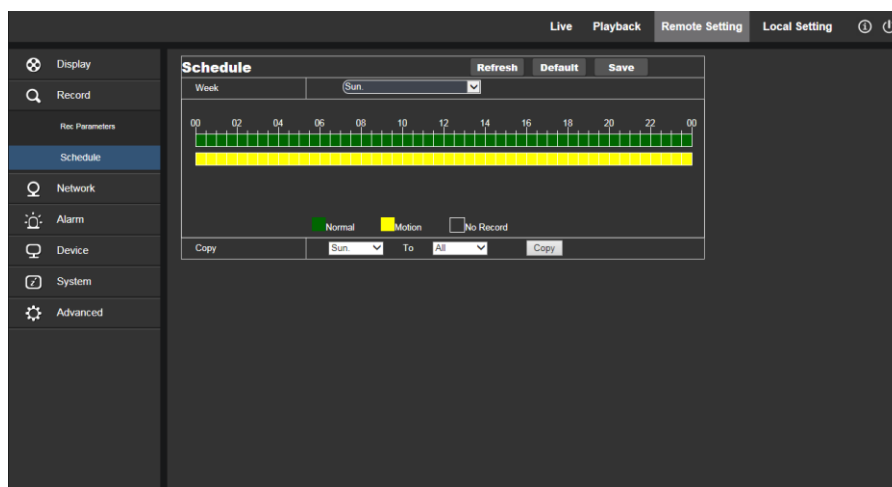
Click Rec Parameters under the menu Record, go to below page



This function is to control the record, pre record and record type (main stream and substream)

5.2. Schedule

Click Schedule under the menu Record, then go to the page as below

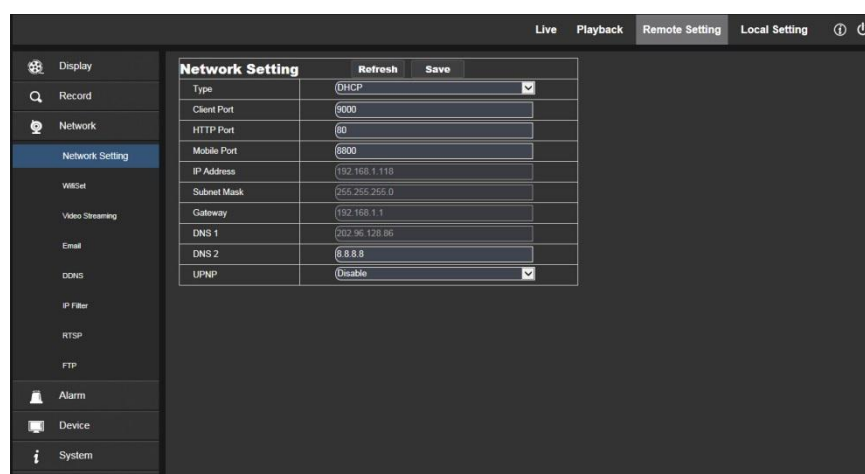


As image: one grid in the table is 30 minutes, green is normal record, yellow is motion detection alarm. User can setup according to private requirement to choose different record type and time.

6. Network Parameters

6.1 Network Parameters

Click on Network Parameters in Network Parameter Menu to open the following page:



Networking mode: DHCP (Automatically Acquired), Manually Configured and PPPOE; the default is DHCP (Automatically Acquired)

Media port: Media port for IPC

Web port: Web port for IPC

Cell phone port: Port for connection of cell phone client

IP address: IP address of IPC

Subnet mast: Subnet mast of IPC

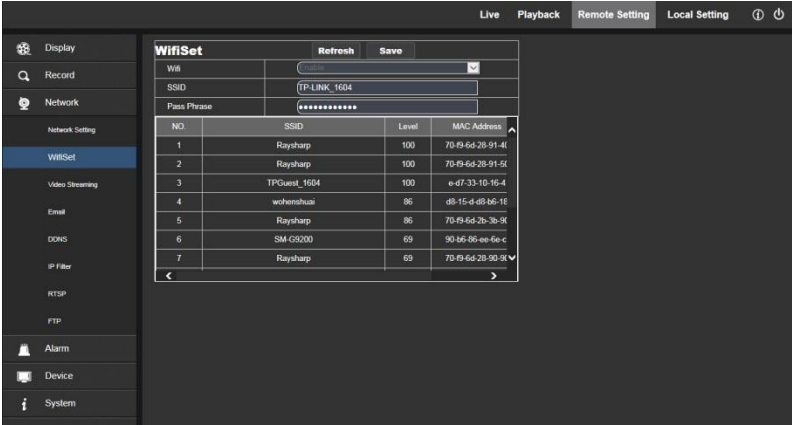
Default gateway: Default gateway of the device

Preferred/Alternate DNS server: Set DNS server

UPNP: Enable or disable UPNP function for the device (disable by default)

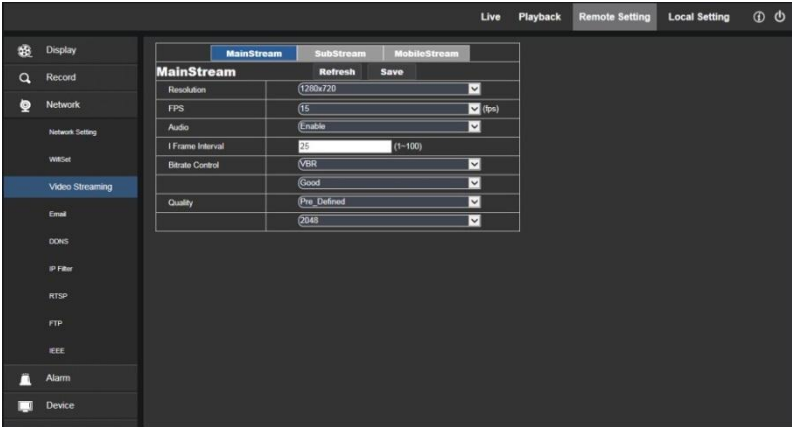
6.2 WiFiSet

LAN search and add a wifi hotspot



6.3 transcode settings

Click on Bit Stream Setting in Network Parameter Menu to open the following page:



By default the available bit streams are: main bit stream, sub-bit stream and cell phone bit steam.

You can set resolution, frame rate, video encoding, encoding level, audio, I frame interval, variable frame rate and bit stream size respectively for main bit stream, sub-bit stream and cell phone bit steam.

Resolution: Set resolutions respectively for bit streams: The highest resolution for main bit stream is 1280×720. The higher resolution for sub-bit stream is 640×480. The only resolution available for cell phone bit steam is 320×480.

Frame rate: When refresh rate is 50Hz, the maximum available frame rate is 25 fps. When refresh rate is 60Hz, the maximum available frame rate is 30 fps.

Audio: Enable audio for each bit stream.

I frame interval: Set I frame interval.

Bitrate control: Set constant or variable bitrate for bit stream.

Bit stream: Set bit stream value by choosing fixed value or customizing it.

Note: Range of main bit stream is 32-8192.

Range of sub-bit stream is 32-4096.

Range of cell phone bit stream is 32-1024.

6.4 E-Mail Configuration

Click on E-Mail Configuration in Network Parameter menu to open the following page:

Email		Refresh	Save
Email	Enable	<input checked="" type="checkbox"/>	
SSL	Disable	<input checked="" type="checkbox"/>	
SMTP Port	25		
SMTP Server	smtp.sina.com		
Sender	69429324501@sina.com		
Sender Password	*****		
Receiver 1	1890506263@qq.com		
Receiver 2	2209416633@qq.com		
Receiver 3	2509006593@qq.com		
Interval	1Min	<input checked="" type="checkbox"/>	

E-Mail Configuration: mail service setting - used with alarm function to upload images snapped to the mail server.

Enable e-mail: Enable or disable e-mail function.

Port: The default port number is 25 (mail serve port).

SMTP server: Enter the address of mail server.

Address of sender: Address of sending mailbox

Password of sender: Password of sending mailbox

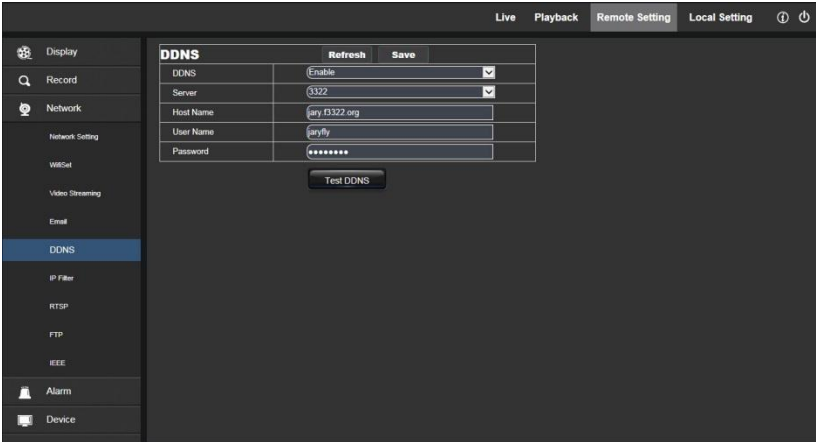
Address of recipient: Address of receiving mailbox,(can add 3 to receive email address)

Time interval: Time interval for sending mail (1 minute, 3 minute, 5 minute, 10 minute)

6.5 DDNS Configuration

Click on DDNS Configuration in Network Parameter menu to open the following page:

DDNS configuration: Dynamic DNS configuration - used with server for access from an extranet.



Enable DDNS: Enable or disable it.

Address of server: Choose "3322".

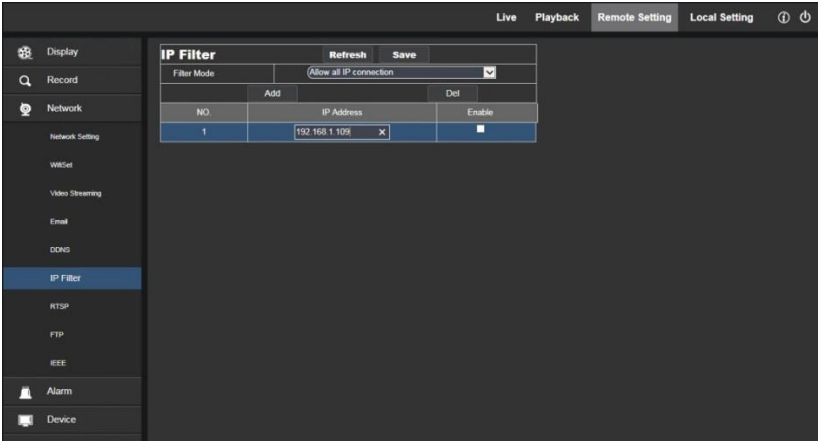
Name of host: Enter the name of active server

User name: Name of the user

Password: Password of the user

6.6 IP Filtering

Click on IP Filtering in Network Parameter menu to open the following page:



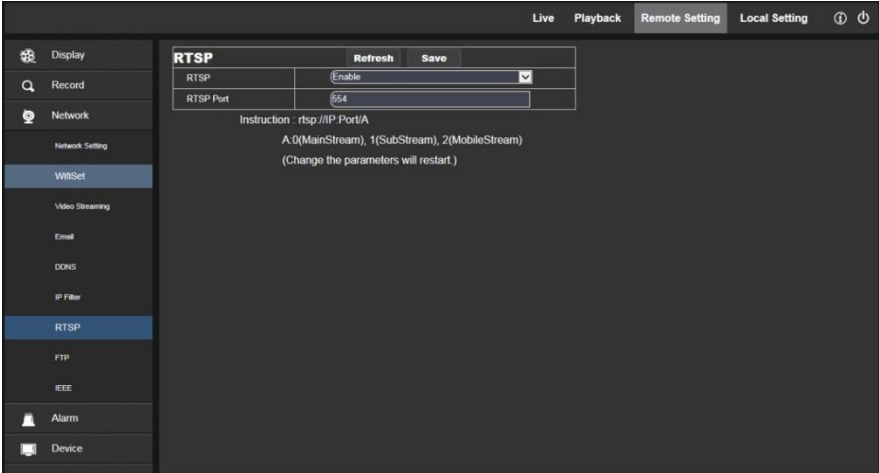
Filtering mode: Three modes are available (Allow all IP connections, Allow all IP connections as set, Forbid IP connection as set).

Add: Add any allowed or forbidden IP address

Delete: Delete any IP address added previously

6.7 RTSP

Click on RTSP in Network Parameter menu to open the following page:



RTSP Enabling: Enable or disable RTSP. RTSP is enabled by default. After it is disabled, it will not be found with ONVIF.

RTSP Port: The default port number is 554, and can be changed to another value between 1024 and 65535. Modification to the parameter will restart the system.

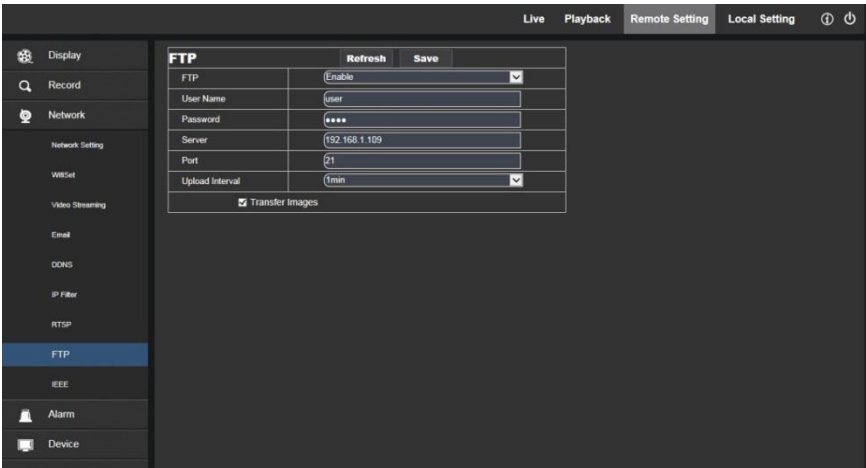
Operation Instructions:

For IP cameras of 3MP/4MP Series: rtsp://IP:Port/ch00/A A:0 (main bit stream), 1(sub-bit stream), 2 (cell phone bit stream)

For IP cameras of 2MP Series: rtsp://IP:Port /A A:0 (main bit stream), 1(sub-bit stream), 2 (cell phone bit stream)

6.8 FTP

Click on FTP in Network Parameter menu to open the following page:



FTP: FTP service setting - used with alarm function to upload images or videos snapped to the FTP server.

FTP:Enable or disable it.

User name:The user name for access to FTP service

Password:The password for access to FTP service

FTP Server: Enter the address of FTP server.

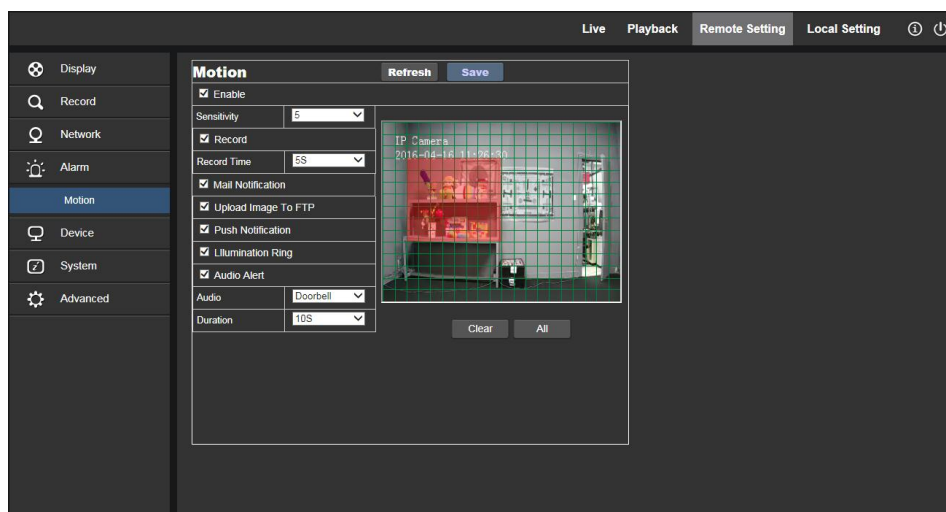
Port:FTP service port number; the default number is 21.

Transmit Image: Check it to transmit image

7. Alarm Parameter

7.1 Mobile Detection

Click on Mobile Detection in Alarm Parameter menu to open the following page:



Procedure of setting Mobile Detection:

1. Check Enable Mobile Detection.
2. Press down and hold the left mouse button and drag out an area for mobile detection.
3. Set the sensitivity for mobile detection (ranging from 1 to 8; larger value indicates higher sensitivity).
4. Used with SMTP to enable mail delivery.
5. Click on Save to apply the settings.
6. Record: Record time (5s.10s.20s.30s)
7. Mail Notification
8. Upload image To FTP

- 9. Push Notification
- 10. Liiumination Ring
- 11. Audio Alert: Audio (**Doorbell** . Ringtone Siren) default for the door bell ring
Duration: 10s.30s.60s

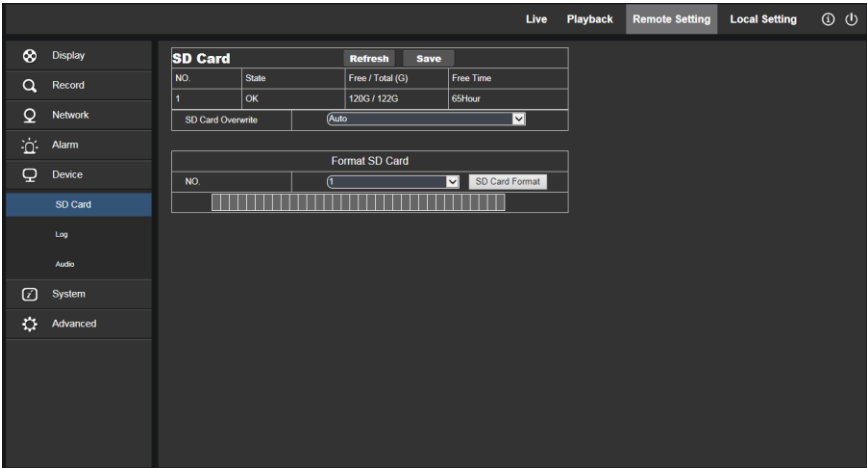
(Note: When any object moves within the target area, a letter "M" in green color will be displayed on the preview frame)

8. Device

It includes SD Card (optional function) Logs and Audio. Their interfaces and functions are described below.

8.1 SD Card (optional function)

Click SD Card under the menu Device, then go to below page



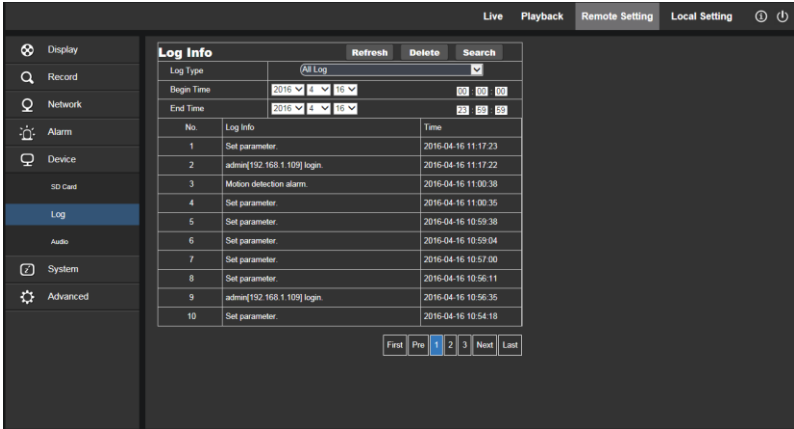
Insert SD card to device, system will auto detect the total capacity and balance capacity of SD card and give The information of time to record

SD Card Overwrite:when the capacity of SD card is 0, new record will overlap previous record(this function is default on)

SD Card Format: to format SD card

8.2 Logs

Click on Logs in Device menu to open the following page:



Log Type: Eight types of logs are available - system logs, network logs, parameter logs, alarm logs, user logs, recording logs, storage logs and all logs). Choose the starting and ending date/time for retrieval.

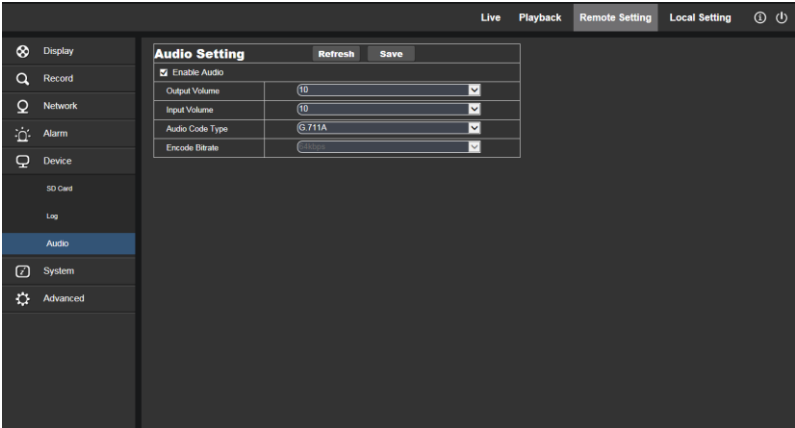
Click on "Search" to retrieve and display related logs in the table below.

Click on "Delete" to delete all device logs.

Click on "Refresh" to refresh the logs selected.

8.3 Audio

Click on Audio in Device menu to open the following page:



Procedure of setting Audio:

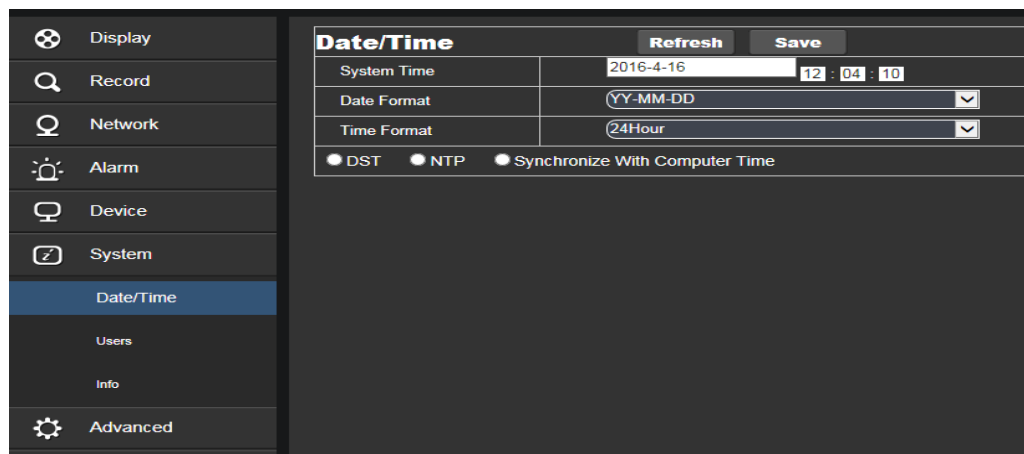
Check Open Audio option to access audio setting, and set audio input/output volume (ranging 0~10), and then click on Save to save the parameters set.

9. System Parameters

System parameters include Basic Information, User Configuration and System Information. Their interfaces and functions are described below.

9.1 Basic Information

Click on Basic Information in System Parameters mnu to open the following page:

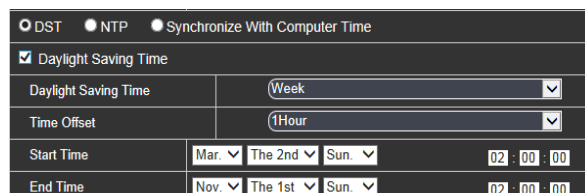


The device time, system time, date format and time format contained in the basic information can be manually set and saved.

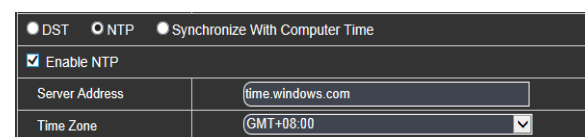
Three automatic time correction functions are provided in this device.

DST: Check Daylight Savings Time (DST) option to enable DST correction.

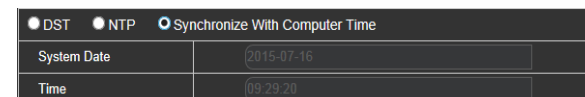
The device will correct the time based on the time deviation as set.



NTP: Check Enable NTP option, input the address of time server and choose a time zone and then save the setting. The system will correct time in accordance with the time server.

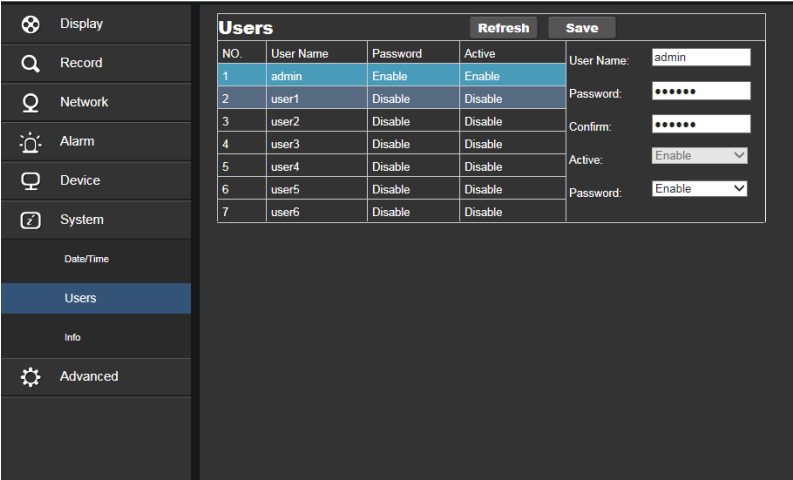


Sync with PC Time: The device will use PC as a time server to correct time.



9.2 User Configuration

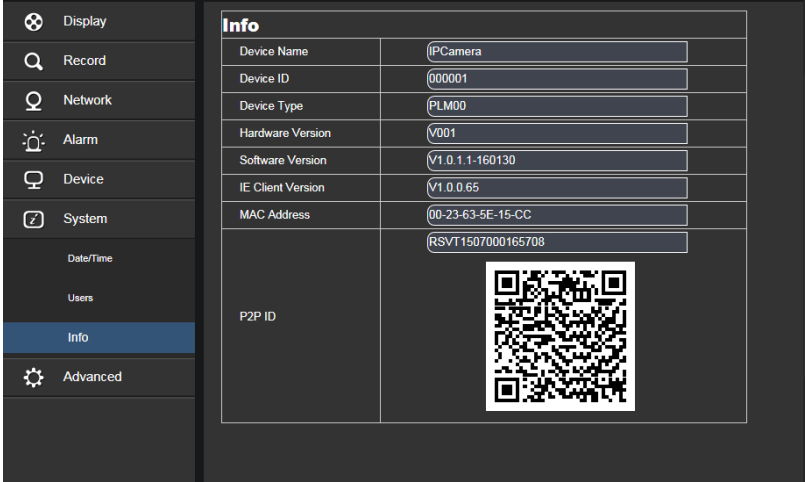
Click on User Configuration in System Parameters menu to open the following page:



Here you can set user access authority and login password.

9.3 System Information

Click on System Information in System Parameters menu to open the following page:



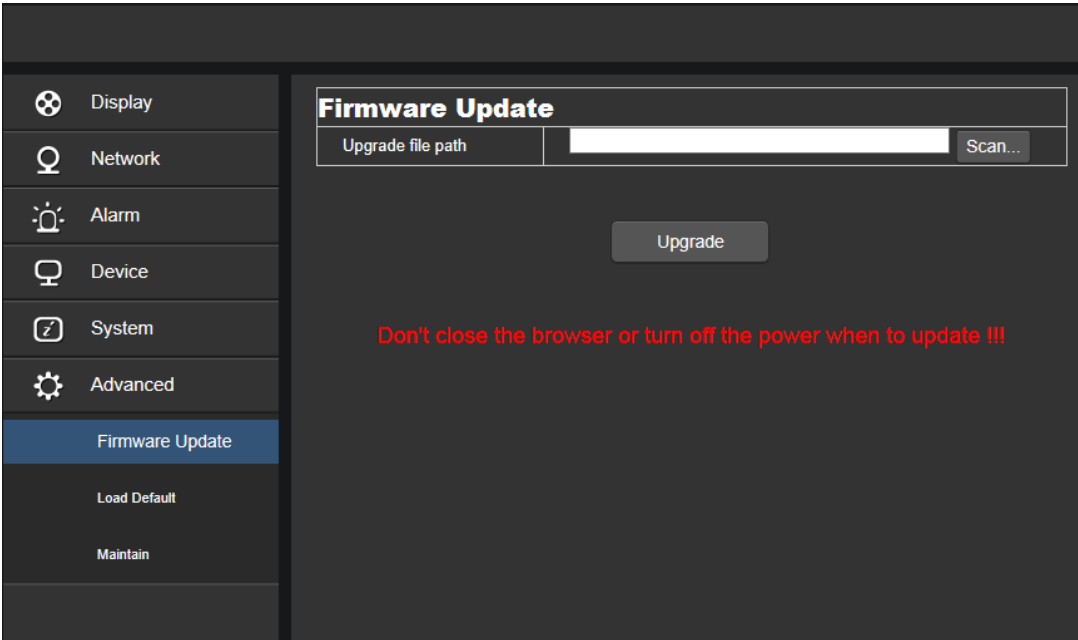
Here some system information on the device will be displayed, including device type, MAC address and software version.

10. Advanced

It includes System Update, Default Parameters and System Maintenance. Their interfaces and functions are described below.

10.1 System Update

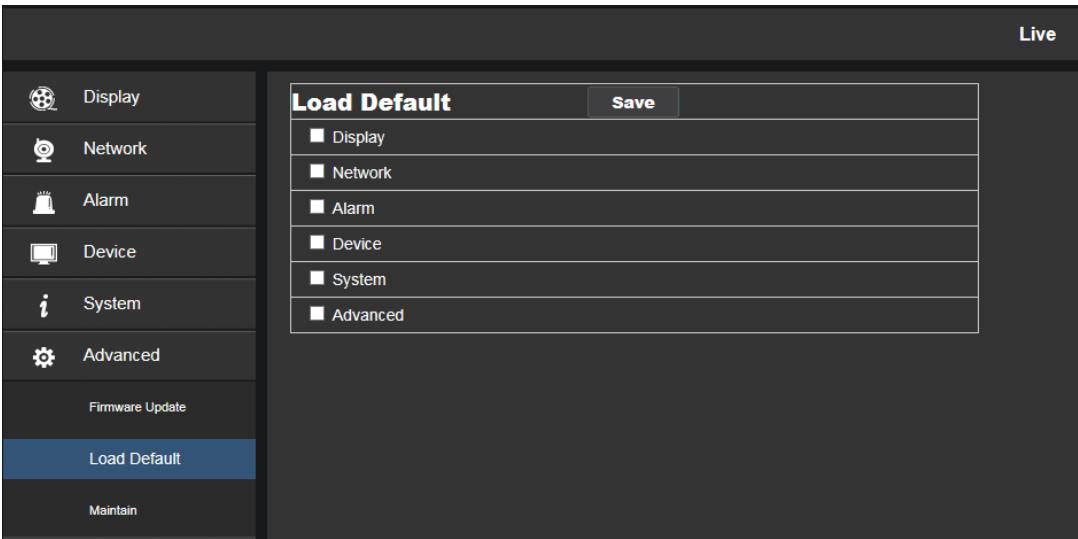
Click on System Update in Advanced menu to open the following page:



Update will be unavailable if the update files do not match the target device.

10.2 Default Parameters

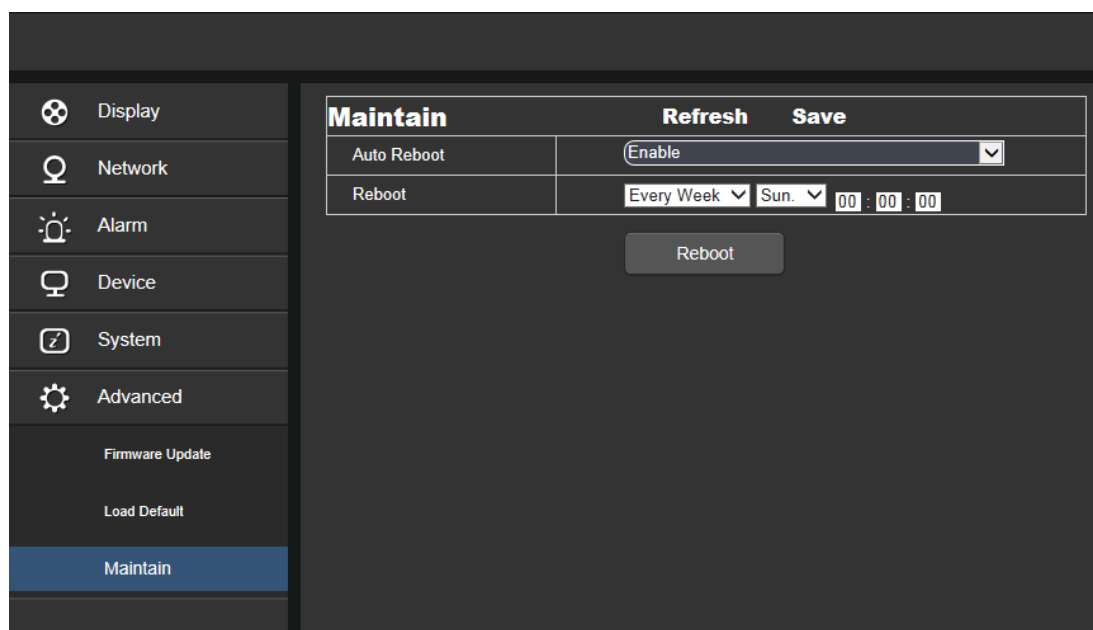
Click on Default Parameters in Advanced menu to open the following page:



Check relevant options and click on Save to recover the default factory settings for the options as checked.

10.3 System Maintenance

Click on System Maintenance in Advanced menu to open the following page:



Here you can set regular restart or manual restart of the device.

FCC Statement

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

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 radio/TV technician for help

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.

Warranty Card

Dear User:

Thanks for purchasing our product, in order to offer you better after sales service. Please fulfill the Warranty Card and Product Registration Card carefully, then send the completed card to franchiser or our Exclusive Sales Agent.

Product Description: _____

Product Model No.: _____

Date of Purchase: _____

Invoice(P/O) No.: _____

User Name: _____

Telephone: _____ FAX: _____

Address: _____ E-Mail: _____

Franchiser or exclusive sales agent: _____

Telephone: _____

Warranty Record	Repair Date	Repair Item	Person

Remark: 1)Presentation of Warranty items, please refer to back.

2)The card will be valid after 15 days of purchase when the franchiser or Exclusive sales agent chop.

----- Cut along the dashed -----

Product Registration Card

Product Description: _____

Product model No.: _____

Date of Purchase: _____

Invoice(P/O) No.: _____

User Name: _____

Telephone: _____ FAX: _____

Address: _____ E-Mail: _____

Franchiser or exclusive sales agent: _____

Telephone: _____

Product Warranty Presentation

Warranty Period:

Since the date of purchase. Exchange service after 3 months of purchase, repair service after 1 year of purchase.

Warranty items:

- 1 Before you use the product ,please read <User s Manual> carefully.
- 2 You can share the Warranty service after you buy our product and send the completed card to our franchiser or exclusive agent.
- 3 Based on the Warranty items ,you can share free charge repair service only when you show the card under right operation of the product.
- 4 Please reserve /keep the Warranty card carefully if you need us repair the product.
- 5 you are charged for repairing under below condition
 - 1)Beyond the Warranty period
 - 2)no detailed fulfill information with scratches.
 - 3)wrong operation under high temperature/pressure,deep;strong electrimagnetic interference.
 - 4)Do not follow the instruction manual or wrong operation
- 6 we will ignore product, under below condition.
 - 1)Dismental repair by themselves.
 - 2)Problem caused by software or virus.
- 7The card is only valid in China domain.

----- Cut along the dashed -----

Your suggestion on our product is highly appreciated. We will keep tracing and developing to product high quality product for you.

Thanks for your co-operation

Yours Suggestion	
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