
NETWORK CAMERA

User Manual

Network Camera

User Manual

Warranty

If the product does not operate properly in normal conditions, please let us know. We will resolve the problem for free of charge. The warranty period is 1 years. However, the followings are excluded:

If the system behaves abnormally because you run a program irrelevant to the system operation.

Deteriorated performance or natural worn-out in process of time

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. Apolarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/ accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by
13. The manufacturer, or sold with the apparatus. When a cart is used,
14. Use caution when moving the cart/apparatus combination to avoid
15. Injury from tip-over.
16. Unplug this apparatus during lightning storms or when unused for long periods of time.
17. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the



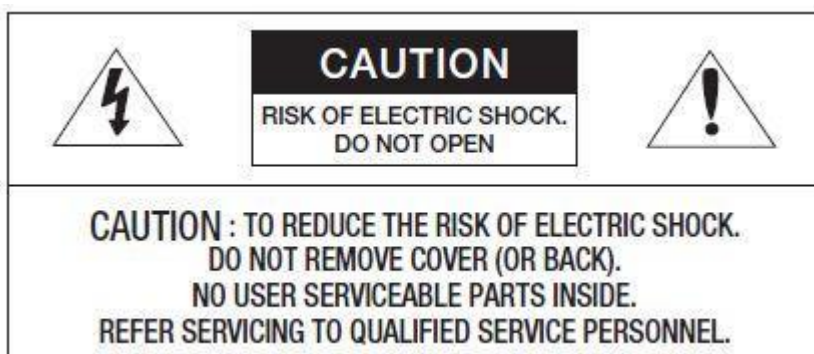
apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Battery

Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

Disconnection Device

Disconnect the main plug from the apparatus, if it's defected. And please call

a repair man in your location.

When used outside of the U.S., it may be used HAR code with fittings of an approved agency is employed.

CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

The BNC Out terminal of the product is provided for easier installation, and is not recommended for monitoring purposes.

If you keep the BNC cable connected, a risk of lightening may cause damage or malfunction to the product.

Please use the input power with just one camera and other devices must not be connected.

Please read the following recommend safety precautions carefully.

- 1 Do not place this apparatus on an uneven surface.
- 1 Do not install on a surface where it is exposed to direct sunlight, near heating equipment or heavy cold area.
- 1 Do not place this apparatus near conductive material.
- 1 Do not attempt to service this apparatus yourself.
- 1 Do not place a glass of water on the product.
- 1 Do not install near any magnetic sources.
- 1 Do not block any ventilation openings.
- 1 Do not place heavy items on the product.

User's Manual is a guidance book for how to use the products. The meaning of the symbols are shown below.

- 1 Reference : In case of providing information for helping of product's usages
- 1 Notice : If there's any possibility to occur any damages for the goods and human caused by not following the instruction
- 1 Please read this manual for the safety before using of goods and keep it in the safe place.

PRODUCT FEATURES

1 **Full HD Video Quality**

1 **Super Low Light**

1 **Super WDR**

1 **Multi-Streaming**

This network camera can display videos in different resolutions and qualities simultaneously using different CODECs.

1 **Web Browser-based Monitoring**

Using the Internet web browser to display the image in a local network environment.

1 **Alarm**

If an event occurs, the event-related video will be transferred to the email specified by the user or saved to the SD memory, or the event signal will be sent to the Alarm Out port.

1 **Video Motion Detection**

Detects a motion from the video before triggering an event.

1 **Intelligent Video Surveillance**

Network camera with IVS support intelligent functions, such as auto detection of any abnormal faults, cross-line alarm, area alarm, object left or lost alarm, counting.

1 **PoE**

Power Over Ethernet.

1 **ONVIF Compliance**

All these network camera series support ONVIF. For more information, refer to www.onvif.org.



RECOMENDED PC SPECIFICATIONS

1 CPU : Intel Core 2 Duo 2.4GHz or higher

1 Operating System : Windows XP, VISTA, 7, Mac OS

1 Resolution : 1280X1024 pixels or higher

1 RAM : 2GB or higher

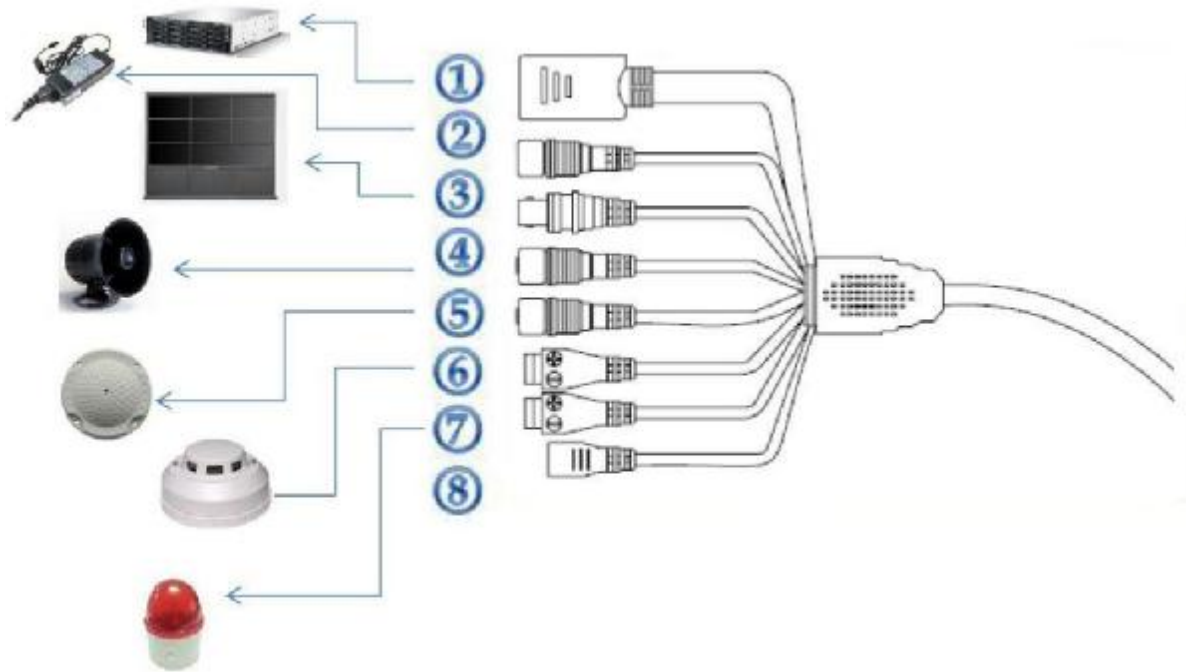
1 Web Browser : Internet Explorer 7.0 or higher.

1 If connecting to IPv6 in Windows XP, it can cause some problem.

1 It is recommended to connect to IPv6 in Windows 7.

1 Video Memory : 256MB or higher

Connecting with other devices



①	Ethernet
②	Power Supply
③	Video Out
④	Audio Out
⑤	Audio In
⑥	Alarm In
⑦	Alarm Out
⑧	Restore Factory Setting

Overview

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Operation

[Tip]: The initial IP address of the device is 192.168.1.2. Please change the IP address of your computer to the same network segment, and then access the camera via LAN. Login account: Admin Password: Admin

Please notice that the login account and password are case-sensitive.

1. Plug-in installation

When using the network video products for the first time, an ActiveX control is needed. Before downloading ActiveX, the IE settings should be done appropriately.

[1]: Using IE6

① Open IE, click "Tools - Internet Options - Security - Internet - Custom Level" (Pic.1.1), and all ActiveX controls and plug settings should be enabled (Pic.1.2).



Pic.1.1

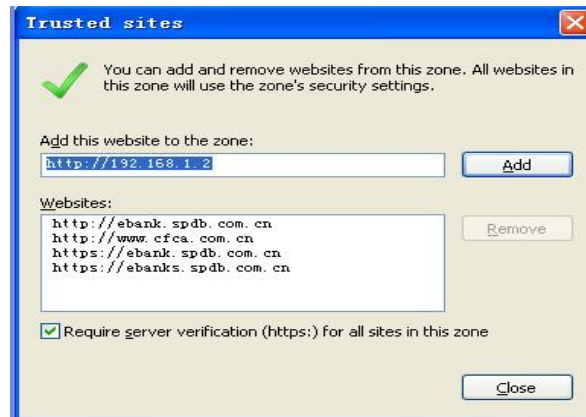


Pic.1.2

② Click "Security - Local Internet - Custom level", all ActiveX controls and plug settings should be enabled.

③ If the operating system is Windows XP, the IP address of the device should be added to "Trusted sites" (Pic.1.3) Click "Safety - Site", enter the IP address, such as: <http://192.168.1.2>, and cancel "Require server verification for all sites in this zone", then click "Add" and "OK" button to complete.

Overview

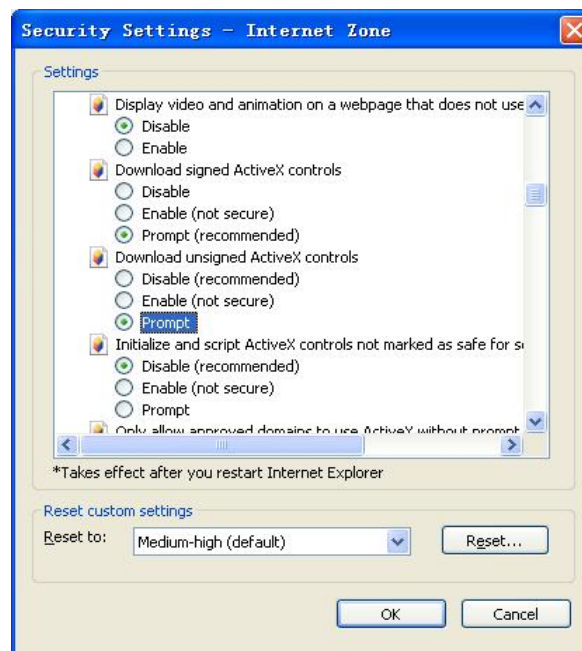


Pic.1.3

[Tip]: After the controls have been downloaded please restore security settings to "Default level".

[2]: Using IE8

① Open IE, click "Options - Security Settings" to modify the ActiveX configuration. For unsigned ActiveX controls please choose "Promote".
(Pic.1.4)

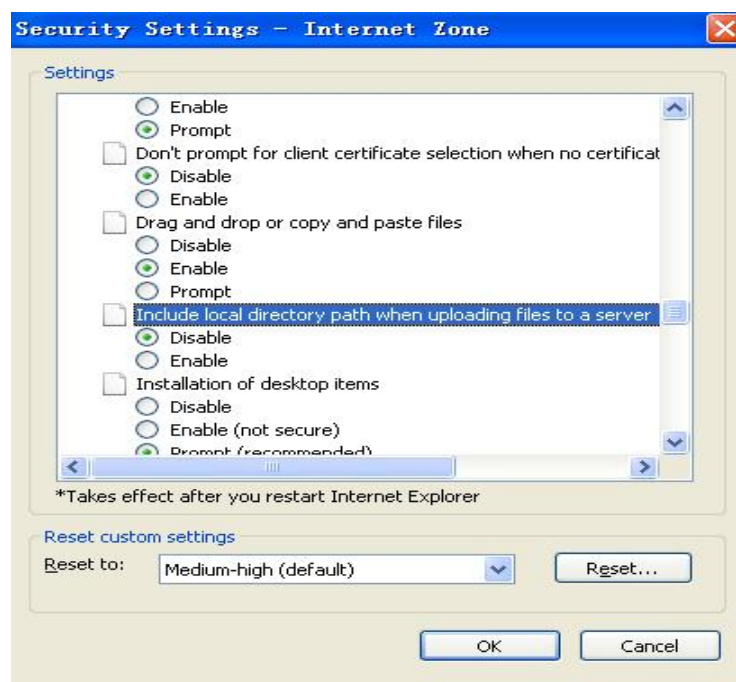


Pic.1.4.

② Open IE8, login the server, there will be a security warning, run this ActiveX control.

③ Modify authority setting, please enable the setting "Include local directory path when uploading files to a server" (Pic.1.5).

Overview



Pic.1.5.

Basic Setting Table

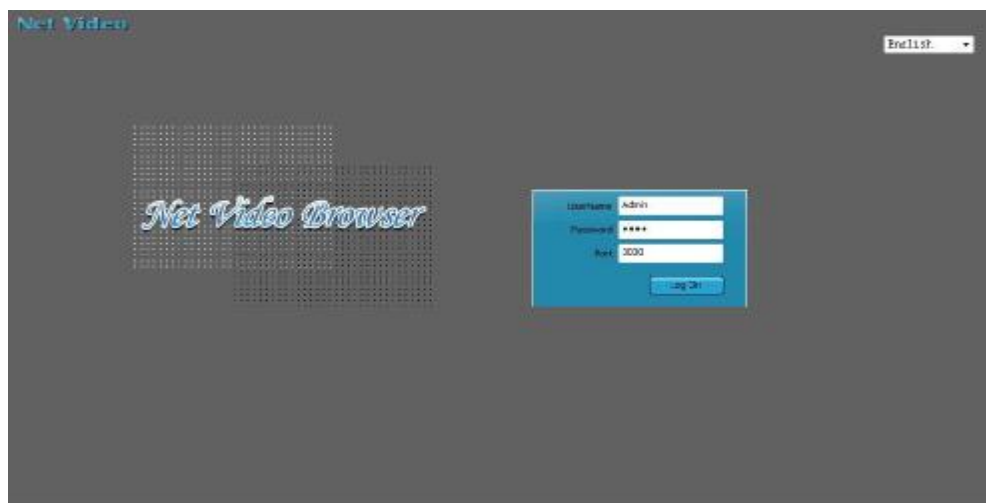
Item	Default Setting
Network	
Static IP/Dynamic IP	Static IP
IP Server Enable	Enable
IP Address	192.168.1.2
Gateway	192.168.1.1
Subnet Mask	255.255.255.0
Web Connection Port	80
RTSP Port	554
RTP Port Range	5000 ~ 5999
ID and Password	
Administrator ID/Password	Admin/Admin
User ID/Password	root/root, guest/guest
Domain of Related Server	
DDNS Server	
Stream setting	
Stream 1	H.264 1080P@30fps
Stream 2	H.264 720x576@30fps/ 640x480@30fps

Overview

<Caution>Make sure that IP address of network cameras and host in the same segment.

2. IE Long in

Enter IP address and password of device, enter login interface,Pic 2.1:

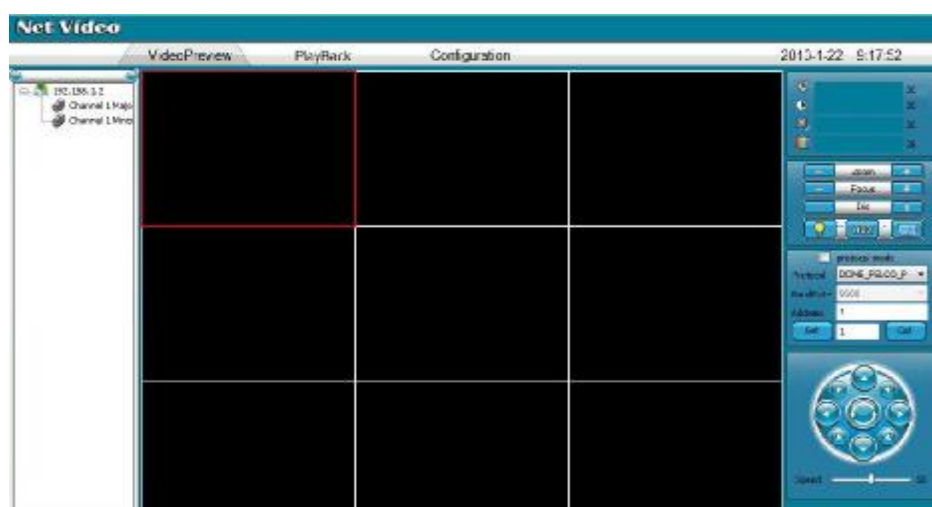


Pic2.1 Login interface

Click 【Log on】 button to enter the system.

3. Browsing interface

After log in enter into the video browsing module, as shown in Pic 3.1.

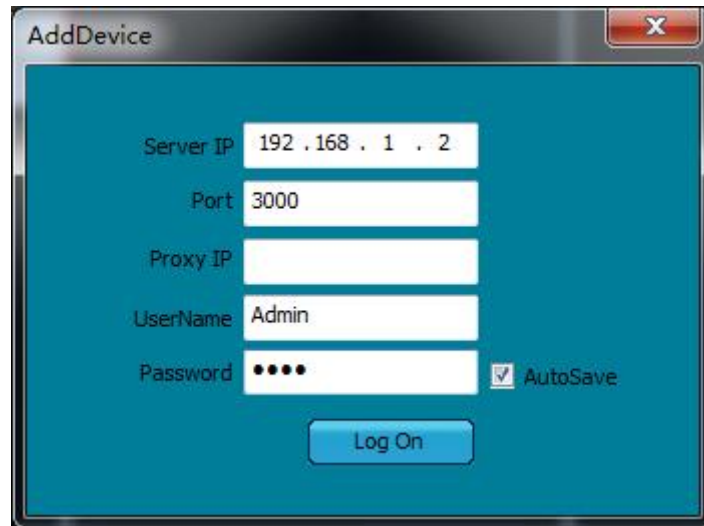


Pic 3.1 Video browse interface

Overview

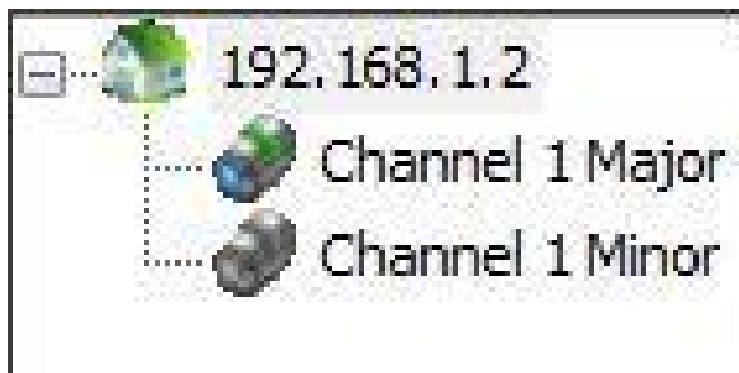
3.1 Add equipment

In the tree area, click the right mouse button will pop-up menu, click [Add Device], the system pops up the dialog box shown in Pic 3.2.

A screenshot of a Windows-style dialog box titled "AddDevice". It has a blue background and a standard Windows window border with a close button (X) in the top right corner. The dialog contains several input fields: "Server IP" with the value "192.168.1.2", "Port" with the value "3000", "Proxy IP" which is empty, "UserName" with the value "Admin", and "Password" with four black dots. To the right of the password field is a checked checkbox labeled "AutoSave". At the bottom center is a blue button labeled "Log On".

Pic 3.2 Add device interface

Input device IP, port, username, and password, click "Log On" to add equipment, new equipment added successfully will be in the tree table. As shown in Pic 3.3.



Pic 3.3 Add devices successfully

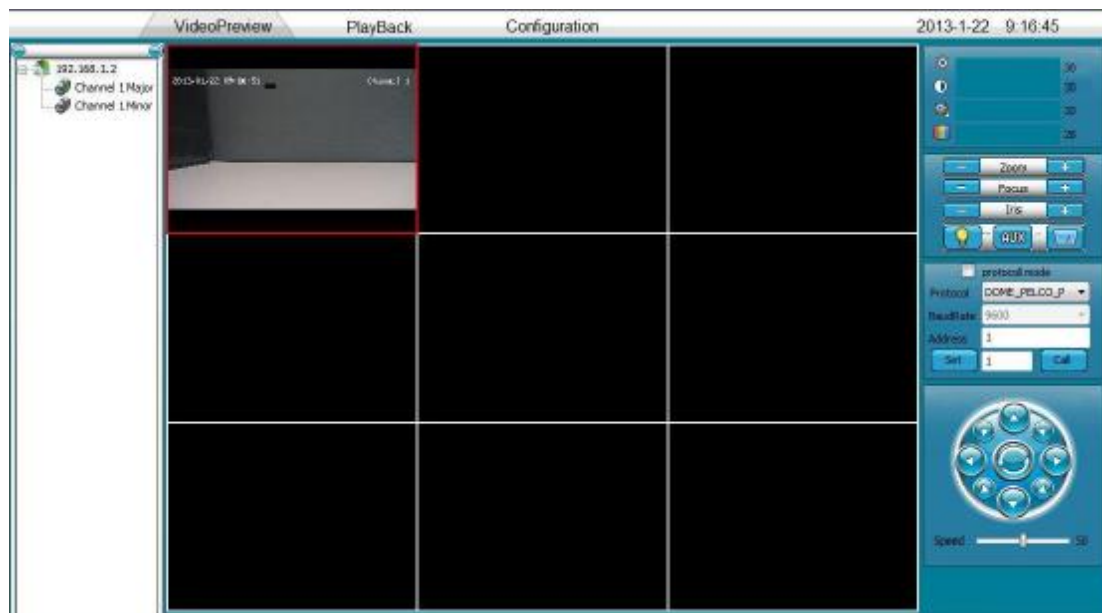
Overview

3.2 Video browsing

3.2.1 Connect the video

Double-click the stream channel connecting video, the middle of the page is the video display area, can display up to 16-screen video, use the control buttons below the video display area can modify the number of frames of the video display area or the selected video channel to capture or operate, as shown

in Pic 3.4.



Pic 3.4

: Single-screen video display.

: 4 screen display video.

: 9 screen video display.

: 16 screen video display.

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: Full-screen video of the selected channel.



: Audio player selected channel.



: Operate the video of selected channel.



: Intercom with equipment corresponding selected channel.



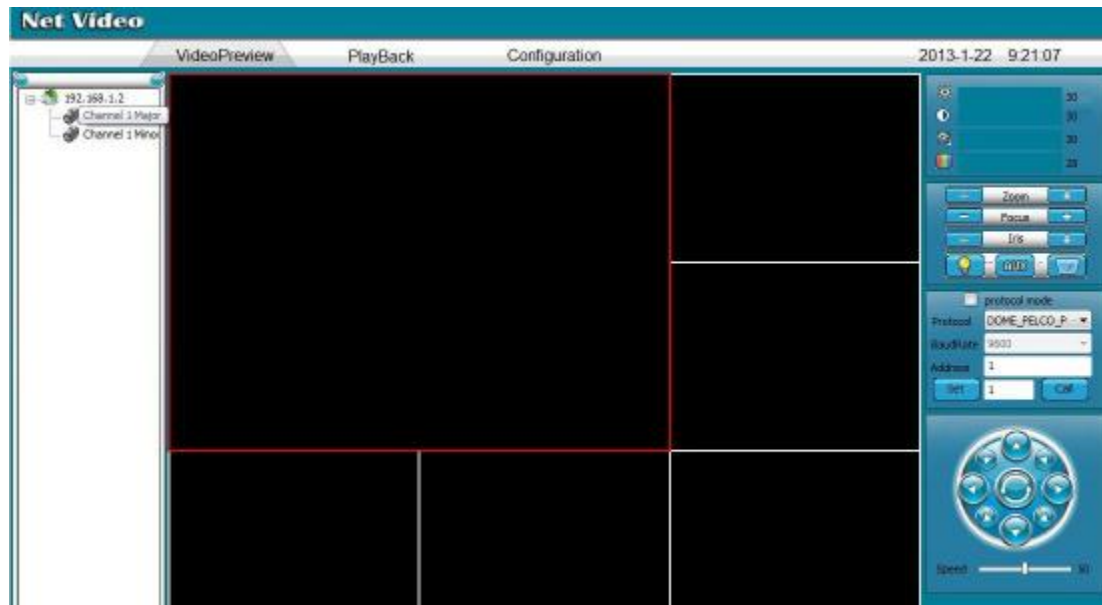
: Snapshot the selected channel.

3.2.2 Change the size of the video window

The system supports double-click to change the video size to support the small screen, single-screen, and full-screen.

3.2.3 Video Drag

The system supports the browser screen drag, right click to drag, left click to change the video display size of the window, click the right mouse button to change back to the original size.



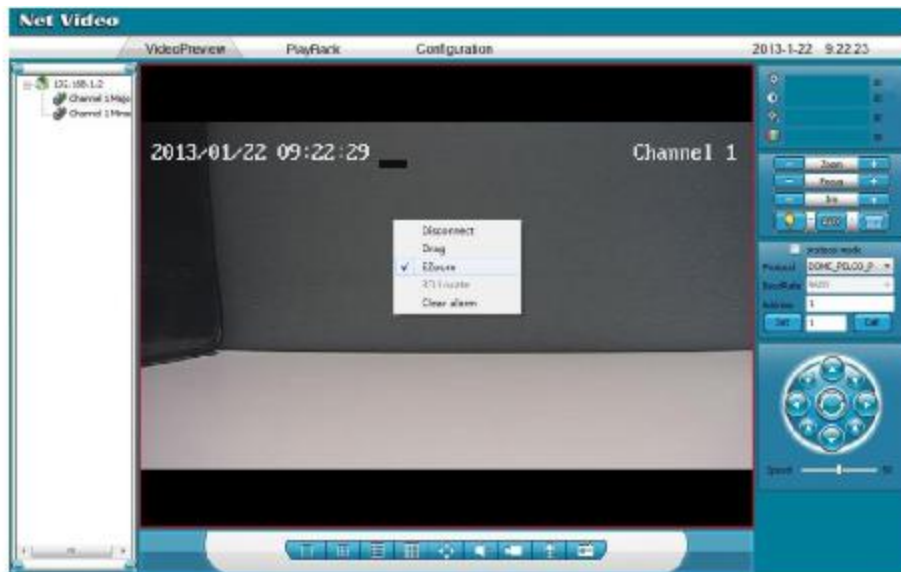
Pic 3.5 Drag to change the size of the video window

Overview

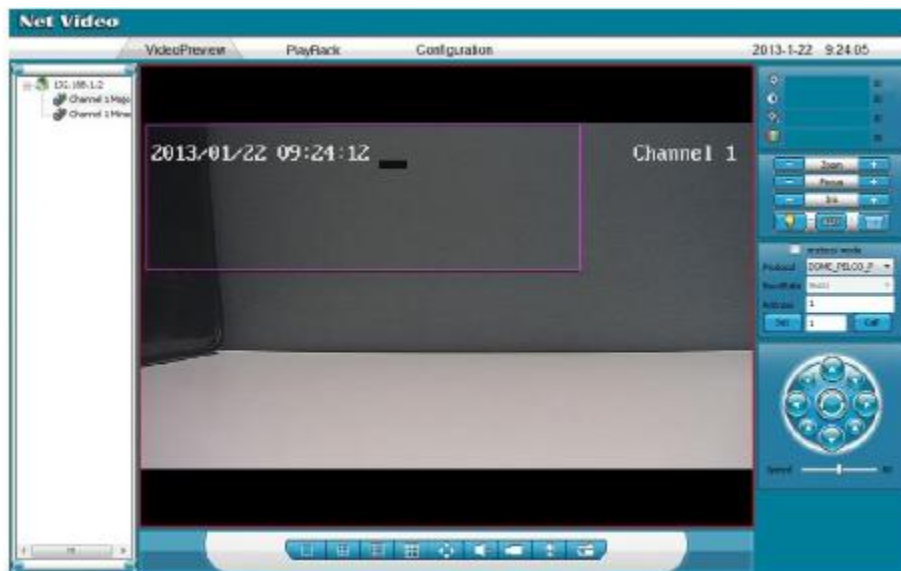
3.2.4 Electronic Amplification

The system supports electronic zoom function, click the right mouse button in the video display area in the pop-up menu, choose the electronic zoom, select a region by draw a rectangle by click left button, and the region will be amplified.

Step 1: select electronic amplification

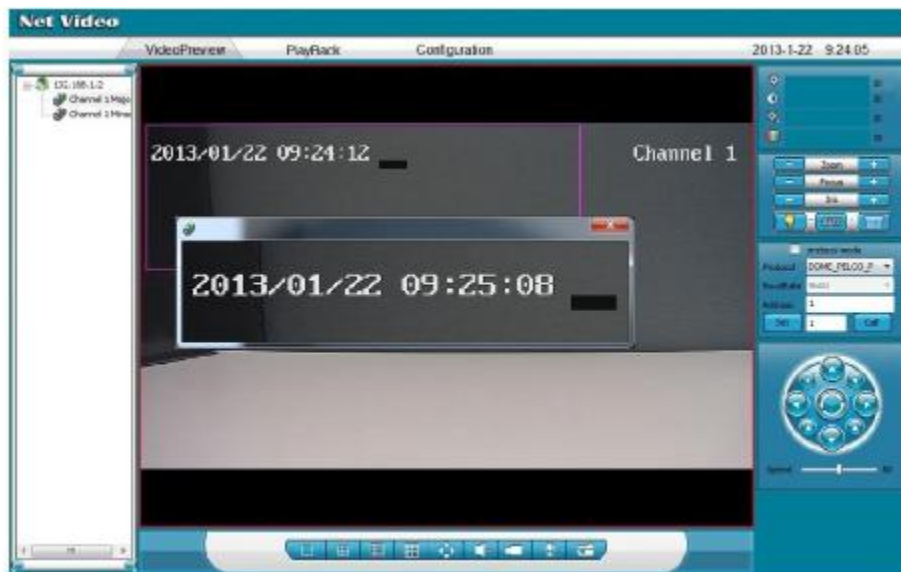


Step 2: Hold the left mouse button to draw a rectangle



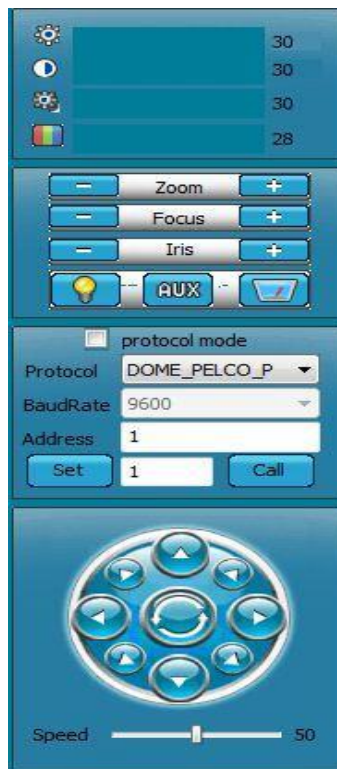
Step 3: release the left mouse button

Overview



3.3 PTZ Control

The right side of the browser interface is the the PTZ control area, as shown in Pic 3.6.



Pic 3.6 PTZ control area

Overview

3.3.1 Key Description



: Video Brightness (range 0 to 100);



: Video contrast ratio (range 0 to 100);



: Video saturation (range 0 to 100);



: Video tone (range 0 to 100);



: Lighting;



: Power;

Overview



: Wiper;

3.3.2 Function Description

PTZ control, including: the direction of rotation, speed, zoom, focus, aperture, power, lights, wipers.

Protocol support:

DOME-PELCO-D

DOME-PELCO-P

DOME-TIANDY

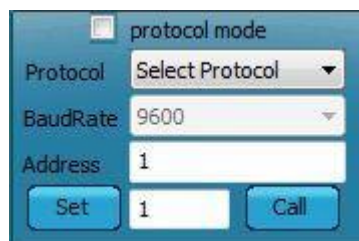
PTZ-PELCO-D PTZ-

PELCO-P PTZ-

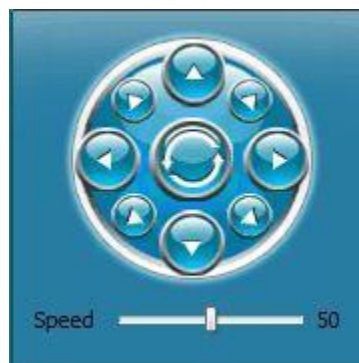
TC615-P

The baud rate can not be changed.

The system supports automatic identification of PTZ device; log on connected devices, the system will distribute the device protocol, baud rate and address. The system supports preset call and up to 255 preset positions.



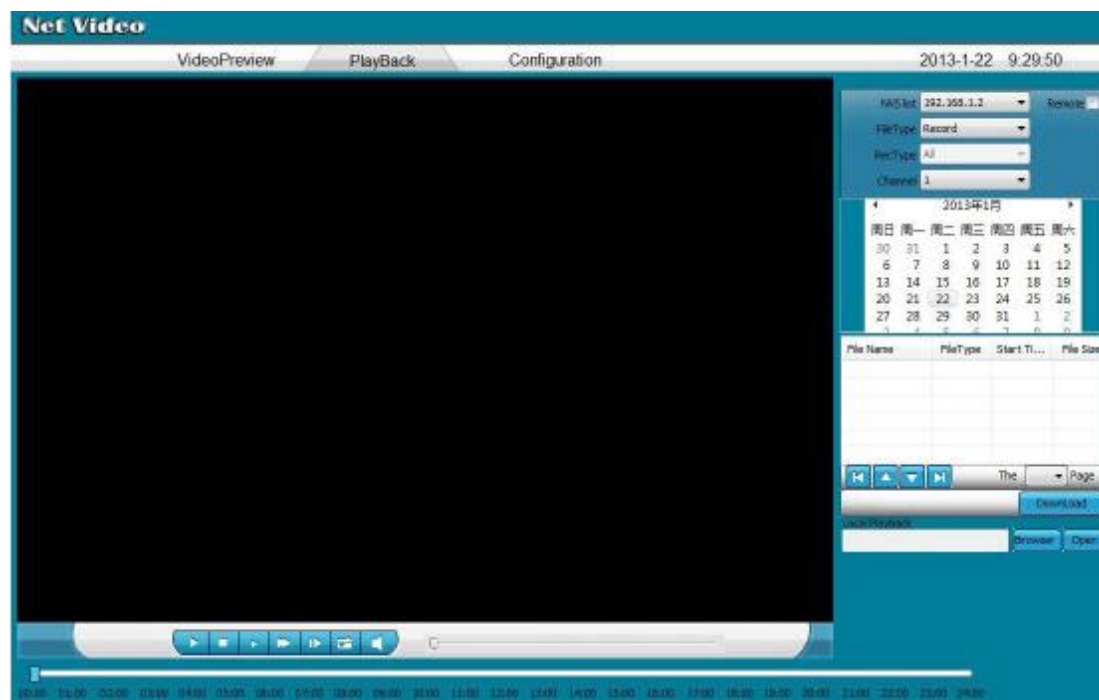
The system can be set to control the speed (range 0 to 100), and control PTZ.



Overview

4. Video playback

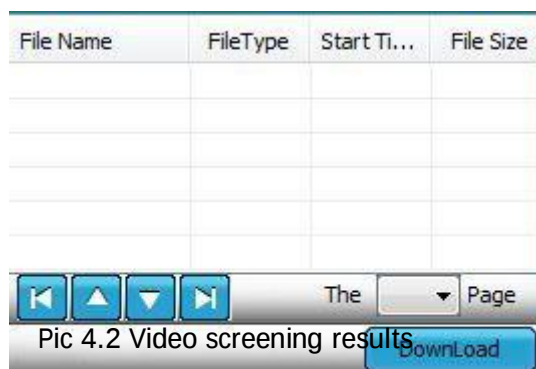
Click the video replay button in the main window into the video playback window, as shown in Pic 4.1:



Pic 4.1 Video playback window

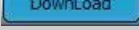
4.1 Video files list

After the above settings, qualified results will be displayed on the video file list, Pic 4.2. The list lists all the results that match the query conditions, displays video files basic information: file name, file type (remote / local), start time, file size.



Overview

Key description:

Key	Description:
	Return to home page
	Previous page
	Next page
	Last page
	Download selected remote video files to local computer

User can also select page directly through drop-down menu, to find wanted video files.

For remote video file, user can click on the download button to download the selected video file to the local PC.

4.2 Local Replay

Click browser to select a local video file, and click the Open button to start playing, as shown in Pic 4.3.

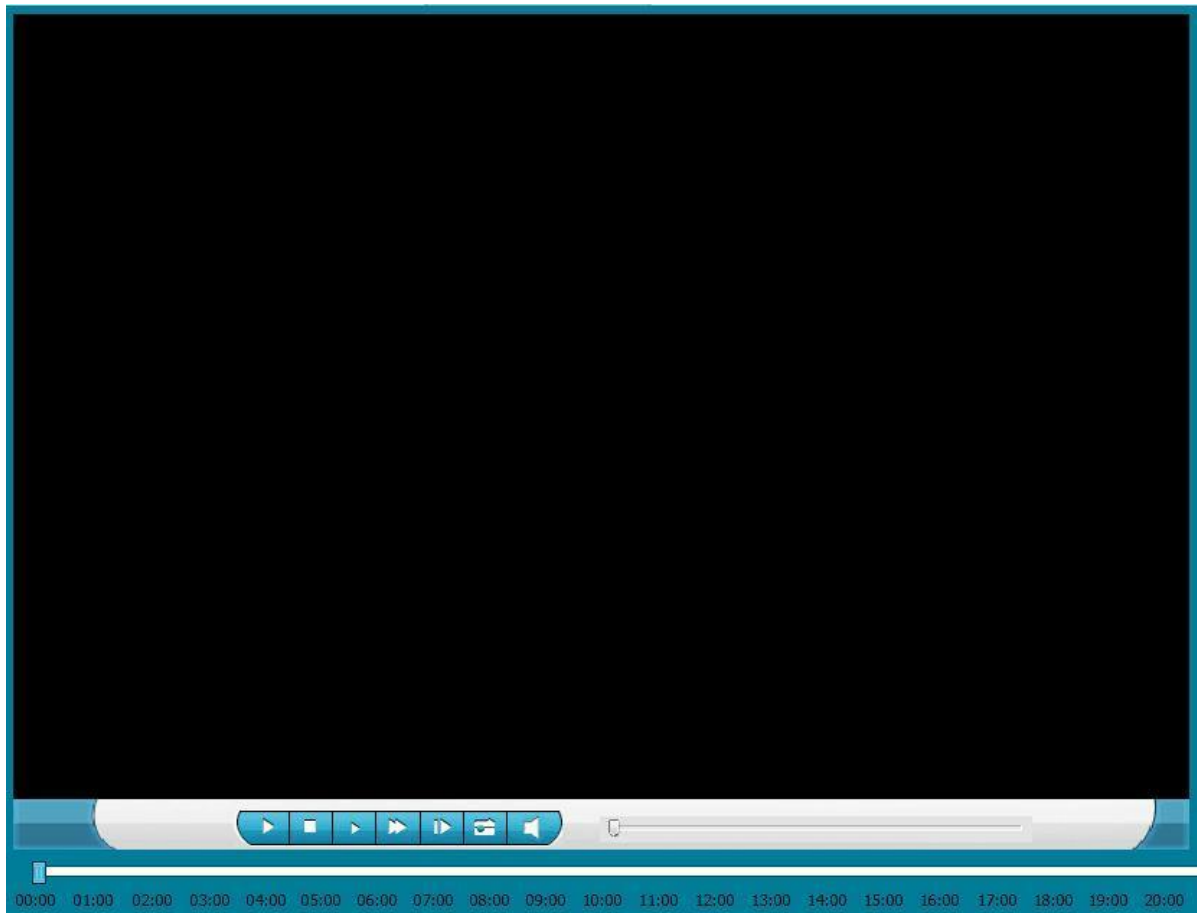


Pic 4.3 video replay

4.3 Playback Controls

Pic 4.4 shows the main window of the display and control. The videos through search or selected local file can be played in the window.

Overview

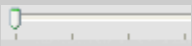


Pic 4.4 Display and control window

Key description:

Key	Description
	Play video file
	Halt
	Stop
	Single frame
	Fast forward playback speed by 2
	Slow forward playback speed divided by 2
	Snapshot, click the button to save still
	mute

Overview

	Video file playback progress bar, drag the progress bar to positioning. Note: Only playback local video can drag to positioning.
---	---

4.4 Operation of video playback

1. According to the conditions specified to search video file.
 - ① Select Server list
 - ② If user wants to search remote video file, then click remote check box, if user want to search local file then do not need to check.
 - ③ Select the file type; select a file type in the "file type" drop-down list.
 - ④ If user wants to search remote video files, then need to select video type, select a video type in the drop-down menu.
 - ⑤ Select a channel, select a video input channel.
 - ⑥ Double click on a certain day in the calendar can find all videos in that day.
2. Play

Select a file in the list of video files, click  to start playback selected file, click  to halt, click  to stop, click  to play by frame, click  double speed to play selected file, click  /2 speed to play selected file, click  snapshot the picture of select video, click  stop preview audio.

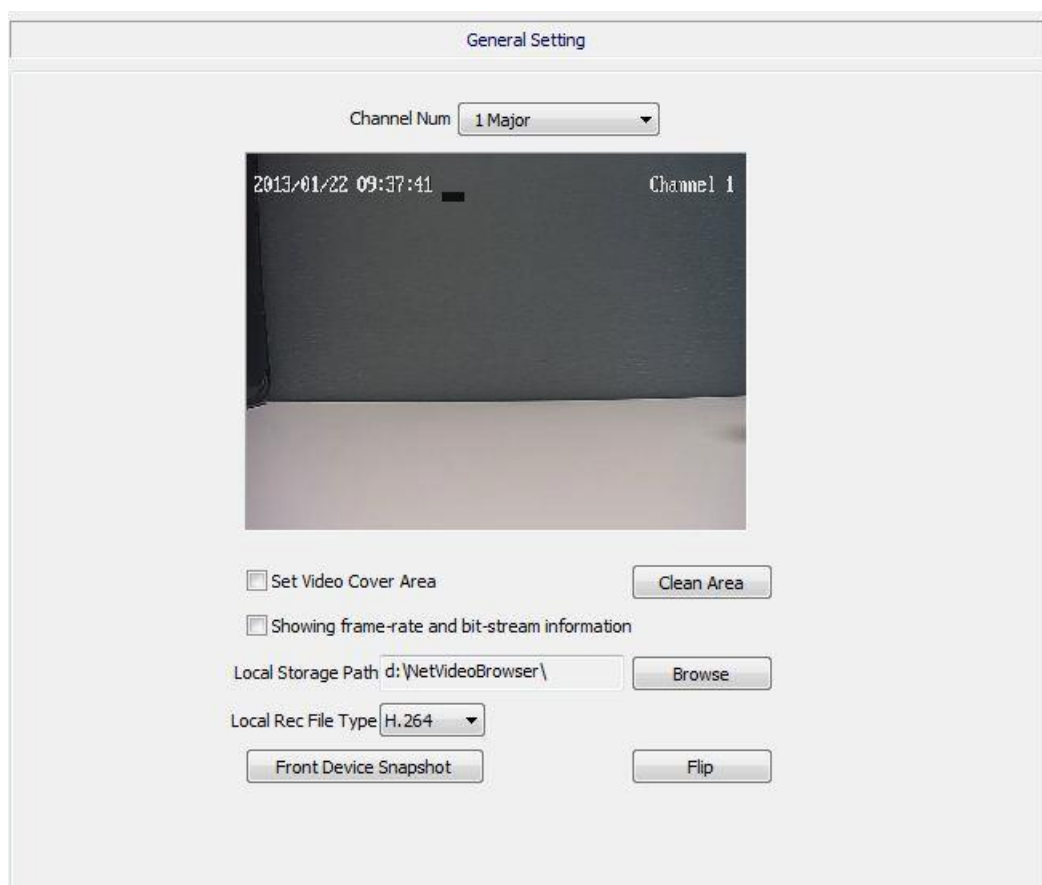
s

Overview

5 Parameters Setting

On video preview mode, click Parameters Setting, and this mode includes General Setting, Video Param, HD Setting, OSD, Alarm Setting, Network Param., Advance, PTZ and Cruising.

5.1 General Setting



Pic.5.1 General Setting

- 1 Channel Num.: Ch 1 Major and Vice
- 1 Set Video Cover Area: Select to confirm using and setting video cover area, and select Clean Area to cancel.
- 1 Showing Frame-rate and Bit-stream Information : Select to confirm displaying frame-rate and bit stream.
- 1 Local Storage Path: Set storage path of recording and snapshot.

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- 1 Local Rec. File Type: Set local recording file type, there are two types: H.264 and AVI.
- 1 Front Device Snapshot: Snapshot from front SD card or NFS

5.2 Video Param.

Video Param

Channel Num 1 Major

Video Quality Good

Frame Rate 25

Stream Type Audio Video

Prefer Mode Frame Rate

Rate 4096 Set

Resolution 720P(1280x720) Set

N/P Mode PAL Set

IFrame Rate 100 Set

Encode Mode VBR

Video Encoder H.264

Play Impression Low Delay

Extended code baseline

Pic. 5.2 Video Param.

- 1 Channel Num.: Channel 1 Major and Channel 1 Vice
- 1 Video Quality: If on Variable Bit Rate (VBR), it needs to select video quality. There are 5 levels, Best, Better, Good, Average and Worse, and image quality and bit rate is proportional.
- 1 Frame Rate: Options are 30, 25, 20, 15, 10, 5 and 1fps/s. The 30fps/s is only available when NTSC.
- 1 Stream Type: Video or Audio&Video
- 1 Prefer Mode: Quality or Frame Rate

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- 1 Rate: Can be set. When select VBR, if compress dramatic movement videos, it needs to set an upper limit. Stream rate is the limit value, and the scope is 32Kbps-8192Kbps. The bit rate setting is proportional to the resolution, if higher resolution, the set value of bit rate should be higher. For CIF, typically set as 384K-768Kbps; 2CIF, 512K-1Mbps; 4CIF, 768K-2Mbps. Concrete bit rate should be adjusted according to cameras position.
- 1 Resolution: VGA, 4CIF, 720P, 960P are optional. Higher resolution and clearer image.
- 1 N/P Mode: NTSC or PAL
- 1 I Frame Rate: It is the key frame. The video frame is composed by key frames and non-key frames. I frame rate refers to the number of video frames in the data stream includes an I-frame. If I frame rate is 100, means there is a I frame every 100 frames. I frame the frame rate and bit rate is inversely proportional, larger I frame and smaller bit rate. It is advised that I-frame rate setting value is four times of frame rate.
- 1 Encode Mode: VBR(Variable Bit Rate) or CBR(Constant Bit Rate)

The BVR means when compression video signal, it can change bit rate according to the video source. For example: decrease compression rate for stable image, otherwise, raise it. Thus, it can save the hard disk space and enhance bandwidth utilization. The main features of VBR are video quality unchanged and compressed stream adjusted according to video source. Given bit rate means that no matter what happens to the video source, video share hard disk space and The CBR means the compression bit rate is unchanged, and it can accurate estimate the hard disks space and bandwidth occupied by recordings.
- 1 Video Encoder: Support H.264 and Motion JPEG
- 1 Play Impression: Low Delay and Fluent
- 1 Extended Code: Support H.264 baseline, main profile and high profile

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5.3 HD Setting

5.3.1 HD Setting

Parameters setting as Pic.5.3, support Auto Iris, WDR (open default), BLC, Exposure Time, Shutter Speed, Gain, Gamma, Sharpness, Denoise, Bright, BLC(auto&manual), and 8 setting template can be saved.

The screenshot displays the 'HD Setting' window. At the top, there's a 'Channel Num' dropdown set to 'Channel 1'. Below this is a live video feed showing a dark scene with a timestamp '2013/01/22 09:38:46' and 'Channel 1' text. To the right of the video feed are five sliders: 'Bright' (set to 128), 'Shutter' (set to 1/25), 'Gain' (set to 16X), 'Sharpness' (set to 128), and 'Gamma' (set to 2.0). Below the sliders are three dropdown menus: 'Scene mode' (set to 'Outdoor'), 'WDRstrategy' (set to 'Close'), and 'Denoise' (set to 'Normal mode'). At the bottom right is a 'Denoise Level' slider set to 64. On the left side, below the video feed, are two dropdown menus: 'Current Template' (set to 'day-outdoor') and 'Template Name' (set to 'day-outdoor'), followed by a 'Set' button. A 'Save' button is located at the bottom right of the window.

Pic. 5.3 HD Setting

5.3.2 HD Schedule

8 templates will be shown here, as Pic. 5.4, each template has a particular color. Set different time periods using different templates by controlling the

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"Settings" button at the top bar. For example: Time period: 00:00~05:40, using day-indoor(white), 05:40~14:10 using night-indoor(blue),14:10~23:59 using night-outdoor(green).

Pic. 5.4 HD Schedule

5.3.3 Color to Gray

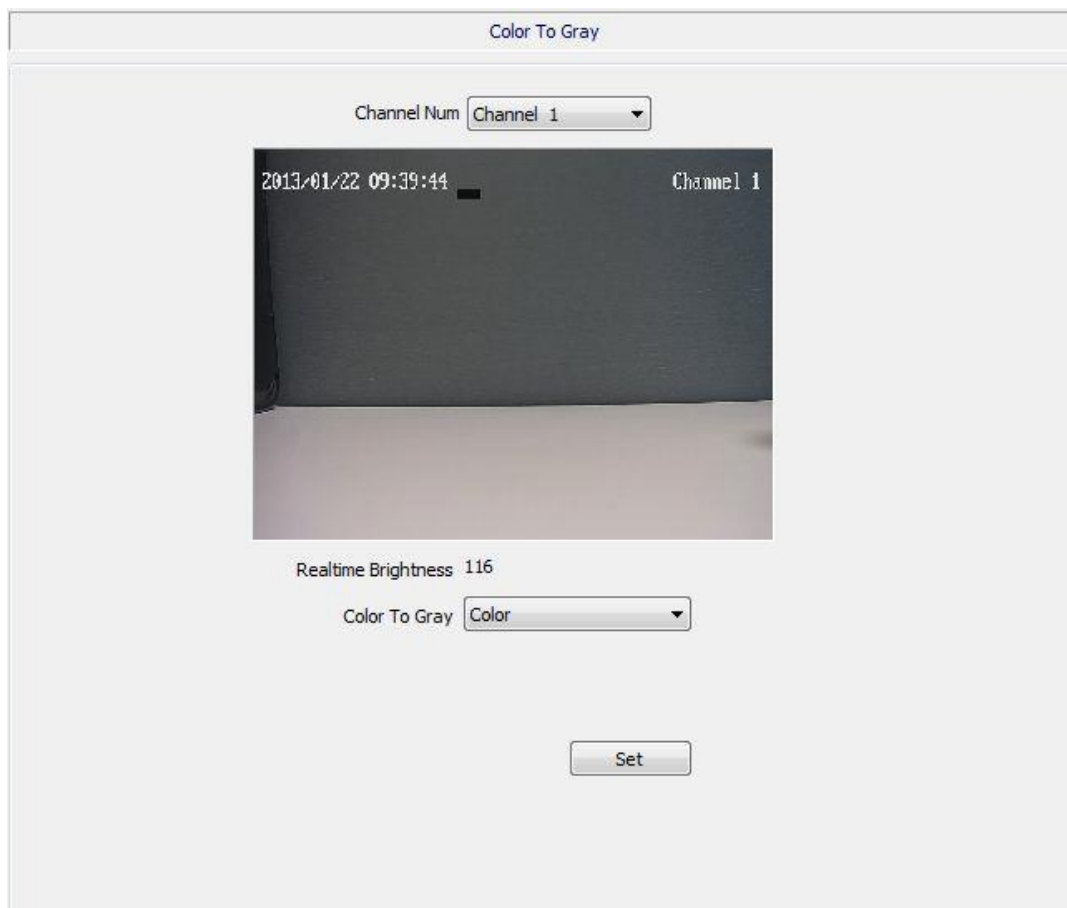
It has four modes: color, gray, internal synchronization and external synchronization, and Pic. 5.5 only showed the internal synchronization, the brightness in day and night only works in this mode.

Daytime Brightness: If real-time brightness is larger than day brightness, it will turn to color mode, and recommended value is 100.

Night Brightness: If real-time brightness is smaller than night brightness, it will turn to gray mode, and recommended value is 45.

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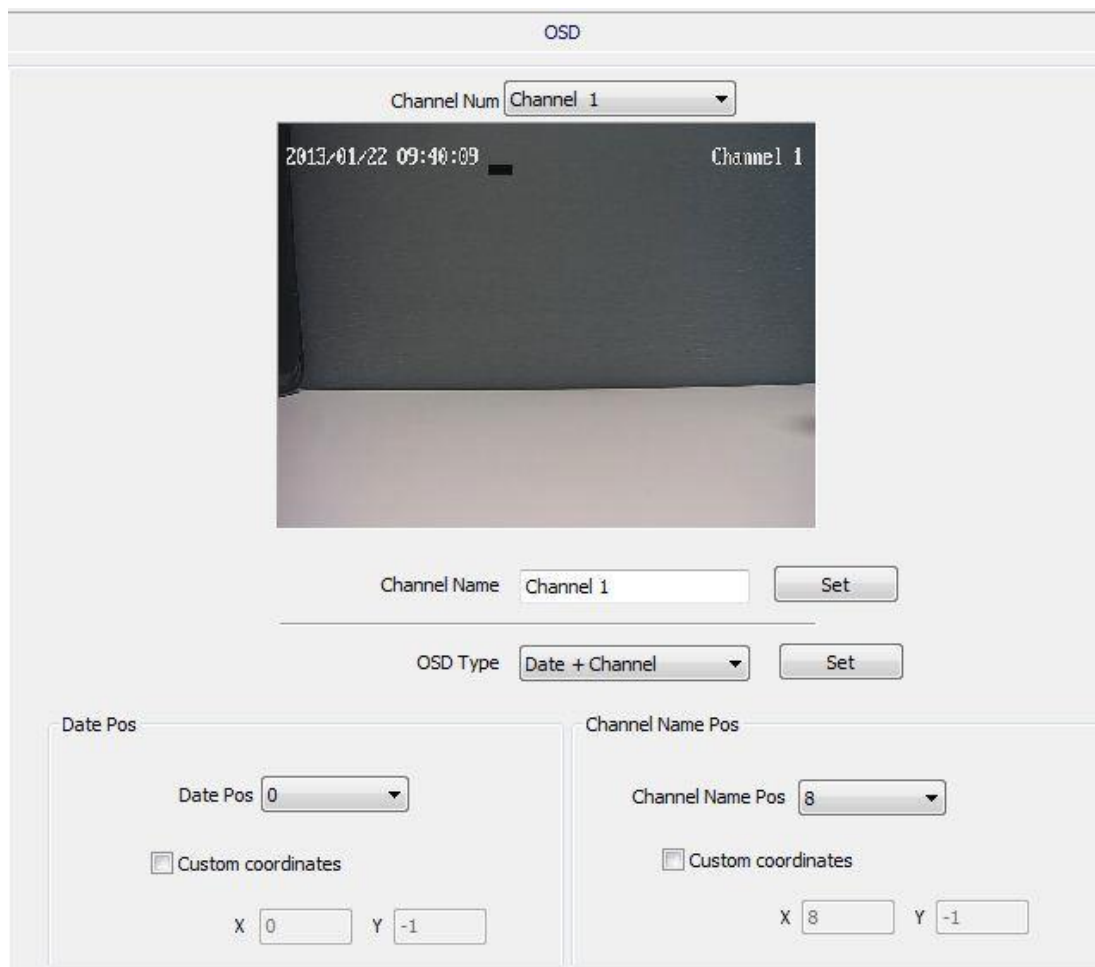
Alarm Recommended: If alarm synchronization interface (SYNC) is short-circuit, it will turn to gray mode, and short-circuit disconnected will change to color mode



Pic. 5.5 Color To Gray

Overview

5.4 OSD



Pic. 5.6 OSD

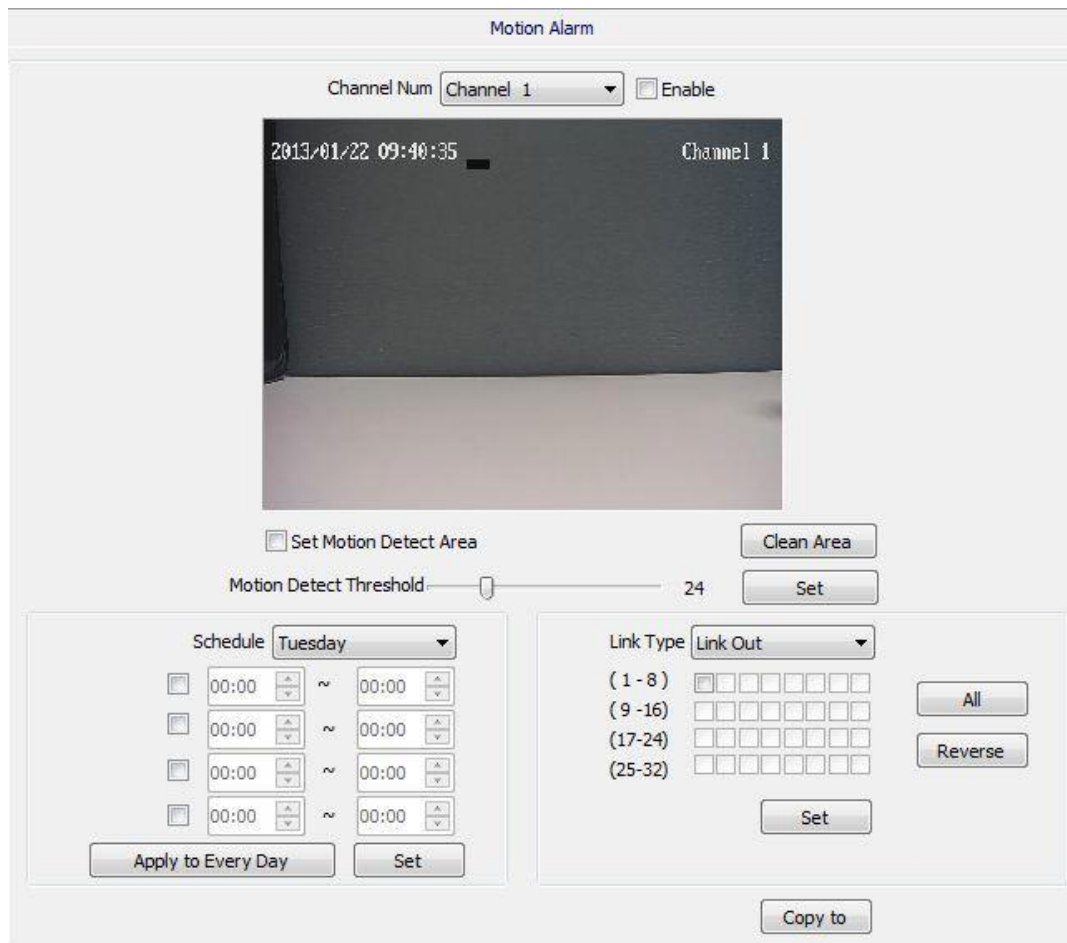
- 1 Support OSD setting to different channels
- 1 Support channel name setting. The system can set channel name for each video and display on it. When local video preview, playback and network video preview, the channel name will always display on the video. The maximum length of channel name is 32 bytes.
- 1 Support OSD type settings, there is No OSD, Time, Channel and Time+Channel four options.
- 1 Set horizontal and vertical coordinates of date position.
- 1 Set horizontal and vertical coordinates of channel name.
- 1 Set OSD content.
- 1 Set horizontal and vertical coordinates of OSD position

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5.5 Alarm Setting

5.5.1 Motion Alarm

Select 'Set Motion Detect Area' and move the mouse to video and drag it to set motion alarm area, as Pic. 5.7



Pic. 5.7 Motion Alarm

- 1 Set motion alarm for different channels.
- 1 Enable motion alarm.
- 1 Set motion alarm area and threshold.
- 1 Set motion alarm template.
- 1 Set motion alarm link out.

Overview

5.5.2 Lost Alarm

Select Channel Num. and Enable, and select date in Schedule to set, as 5.8.

Lost Alarm

Channel Num Channel 1 ☒ Enable

Schedule Tuesday

☐ 00:00 ~ 00:00
☐ 00:00 ~ 00:00
☐ 00:00 ~ 00:00
☐ 00:00 ~ 00:00

Apply to Every Day Set

Link Type Link PTZ

Link Channel Channel 1

Link PTZ Type No Link

Number

Set

Copy to

Pic. 5.8 Lost Alarm

- 1 Set motion alarm for different channels.
- 1 Enable lost alarm.
- 1 Set lost alarm template.
- 1 Set lost alarm link out, Support alarm and PTZ preset and cruising.

5.5.3 Port Alarm

Select Input and output port and Enable to set mode, as Pic. 5.9

Overview

Port Alarm

InPort 1 ☐ Enable

Mode Set ON

OutPort 1

Mode Set ON

Schedule Tuesday

☐ 00:00 ~ 00:00

☐ 00:00 ~ 00:00

☐ 00:00 ~ 00:00

☐ 00:00 ~ 00:00

Apply to Every Day Set

Link Type Link Out

(1 - 8) ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

(9 - 16) ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

(17-24) ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

(25-32) ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

All

Reverse

Set

Copy to

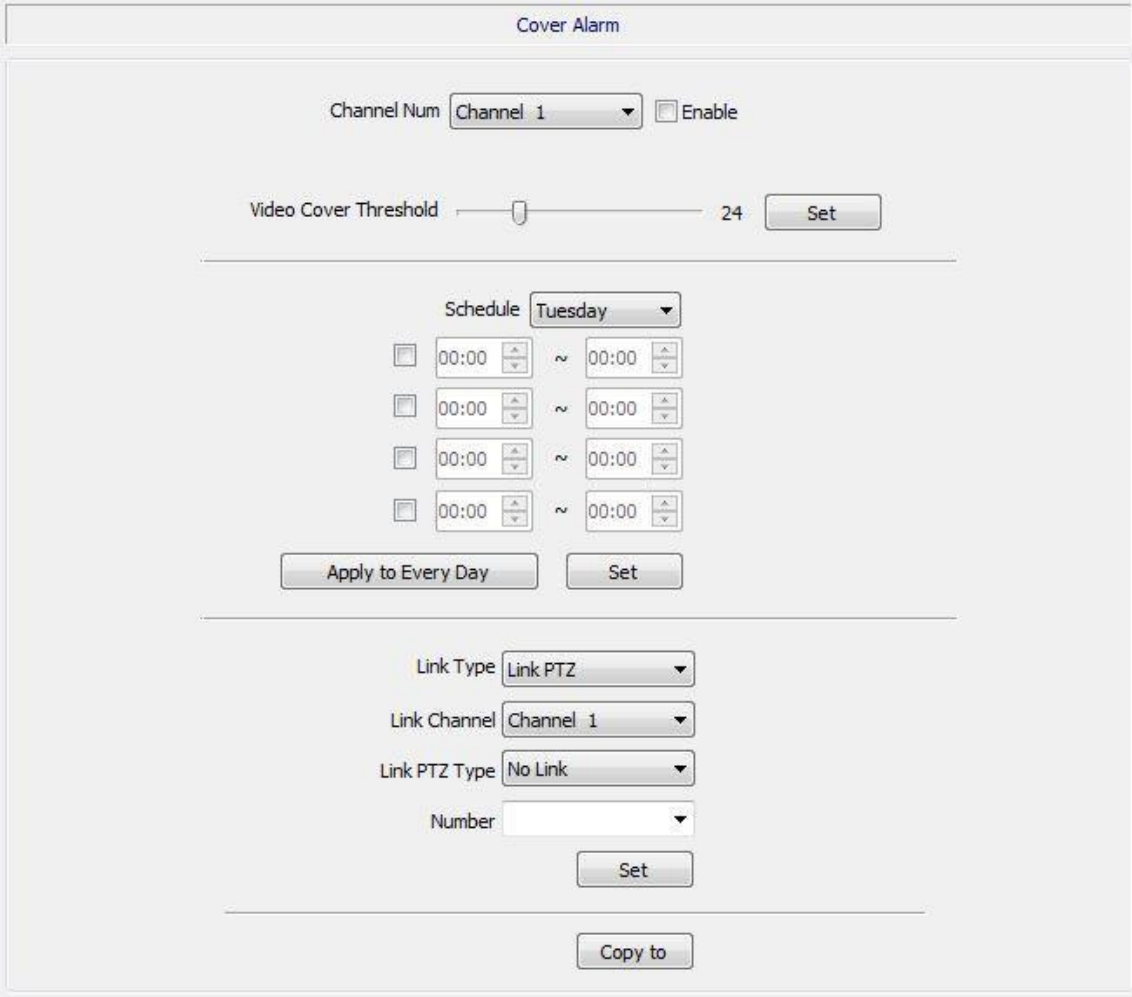
Pic. 5.9 Port Alarm

- 1 Enable motion alarm.
- 1 Set input and output port alarm trigger type.
- 1 Set port alarm template.
- 1 Set port alarm link out, Support alarm and PTZ preset and cruising.

5.5.4 Cover Alarm

Select Channel Num. and enable, and set video cover threshold, as Pic. 5.10.

Overview



The image shows a 'Cover Alarm' configuration window. At the top, there is a 'Channel Num' dropdown menu set to 'Channel 1' and an 'Enable' checkbox. Below this is a 'Video Cover Threshold' slider set to 24, with a 'Set' button. The middle section is titled 'Schedule' and has a dropdown menu set to 'Tuesday'. It contains four rows of time selection controls, each with a checkbox, a time field (all set to 00:00), and a tilde symbol. Below the schedule section are 'Apply to Every Day' and 'Set' buttons. The bottom section is for linking, with 'Link Type' set to 'Link PTZ', 'Link Channel' set to 'Channel 1', 'Link PTZ Type' set to 'No Link', and a 'Number' dropdown. It includes a 'Set' button and a 'Copy to' button at the very bottom.

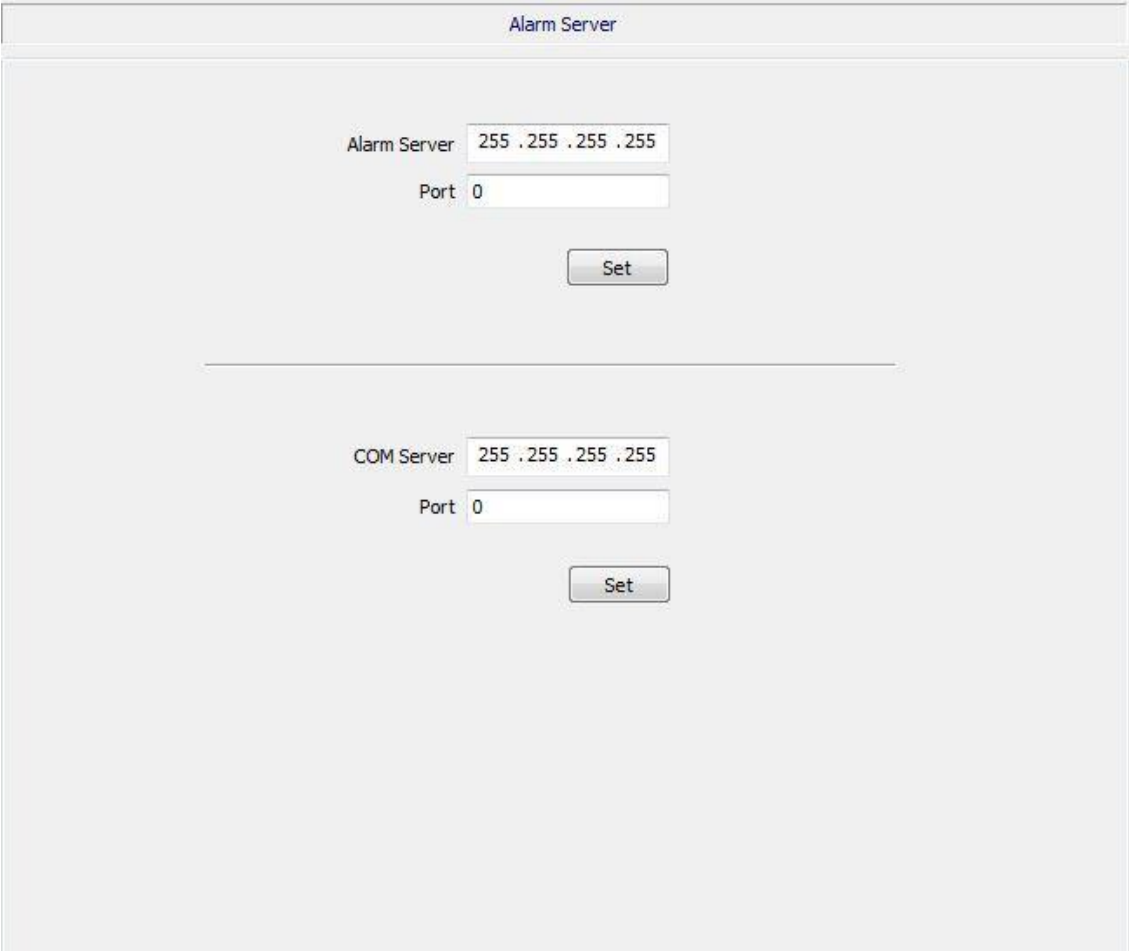
Pic. 5.10 Cover Alarm

- 1 Set cover alarm for different channels.
- 1 Enable cover alarm.
- 1 Set cover alarm threshold.
- 1 Set cover alarm template.
- 1 Set motion alarm link out. Support alarm and PTZ preset and cruising

5.5.5 Alarm Server

Input alarm server address and set alarm port, as Pic. 5.11

Overview



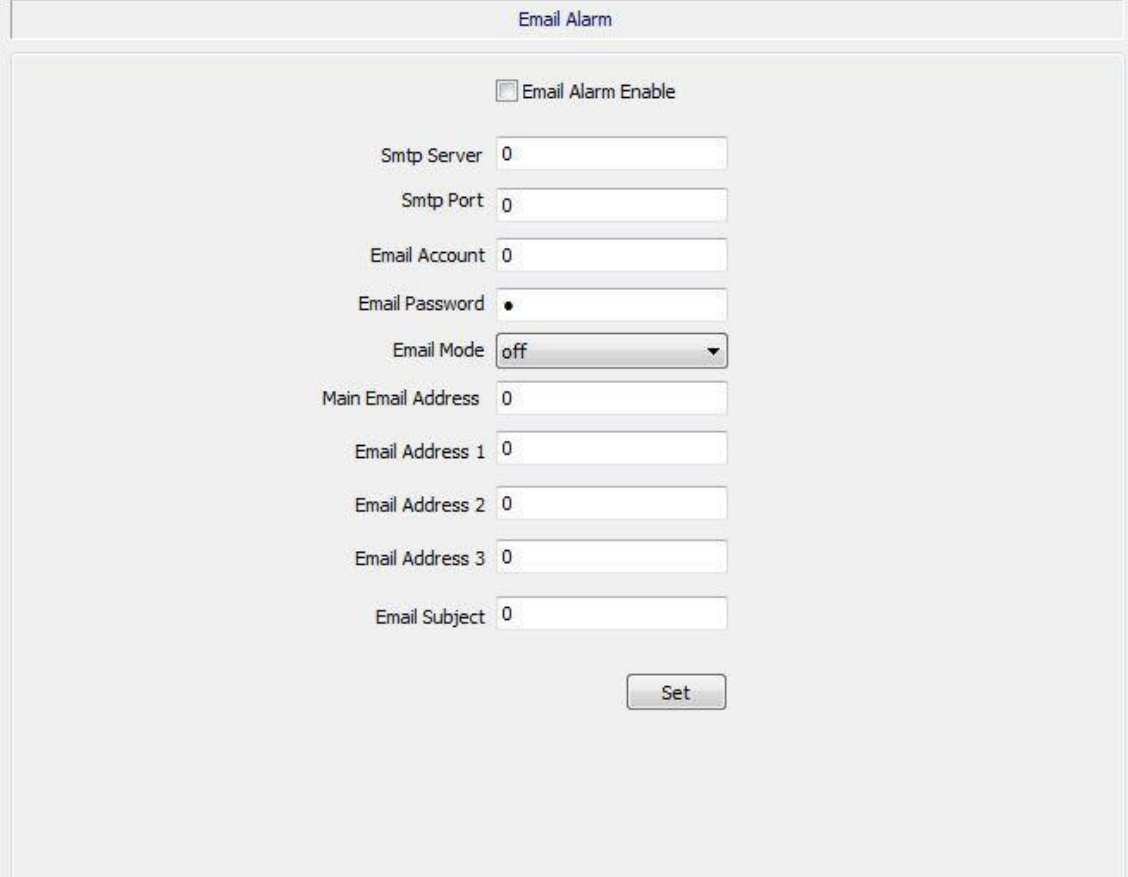
The screenshot shows a software window titled "Alarm Server". Inside, there are two configuration sections separated by a horizontal line. The top section is for the "Alarm Server" and contains an IP address field with the value "255 . 255 . 255 . 255" and a "Port" field with the value "0". Below these fields is a "Set" button. The bottom section is for the "COM Server" and contains an IP address field with the value "255 . 255 . 255 . 255" and a "Port" field with the value "0". Below these fields is another "Set" button.

Pic. 5.11 Alarm Server

- 1 Set alarm sever IP and port
- 1 Set COM server IP and port.

Overview

5.5.6 Email Alarm



Email Alarm

☐ Email Alarm Enable

Smtp Server 0

Smtp Port 0

Email Account 0

Email Password •

Email Mode off

Main Email Address 0

Email Address 1 0

Email Address 2 0

Email Address 3 0

Email Subject 0

Set

Pic. 5.12 Email Alarm

- 1 Set email SMTP server and port.
- 1 Set email account and password.
- 1 Set email address, max 4.
- 1 Set email subject

5.6 Network Parameter

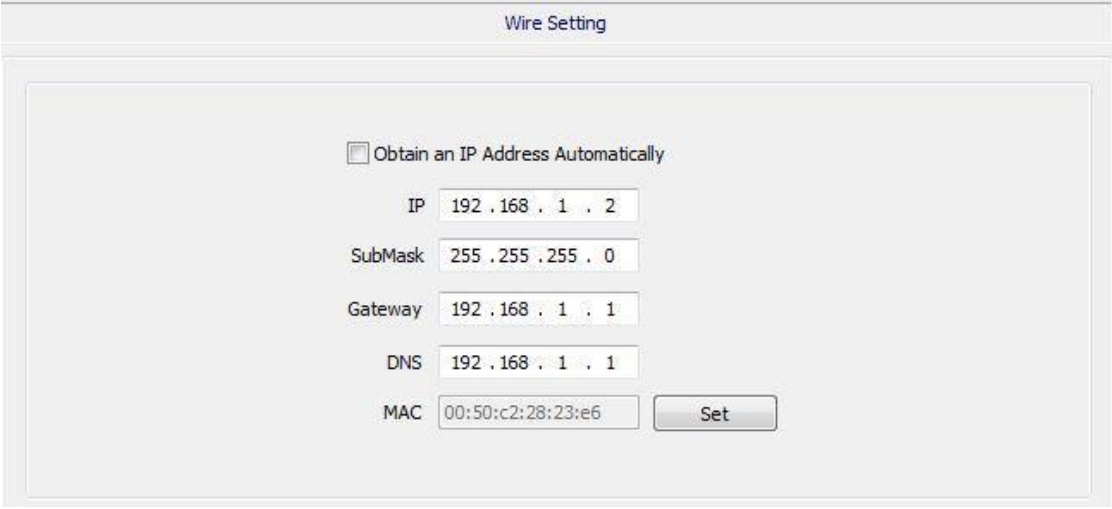
Support Wire Setting, WEB Port, Registration Center, DDNS Setting, PPPOE Setting, FTP and NTP Setting.

5.6.1 Wire Setting

Support IP address, Sub Mask, Gateway, DNS and MAC. IP address can be

Overview

obtained automatically or manually.

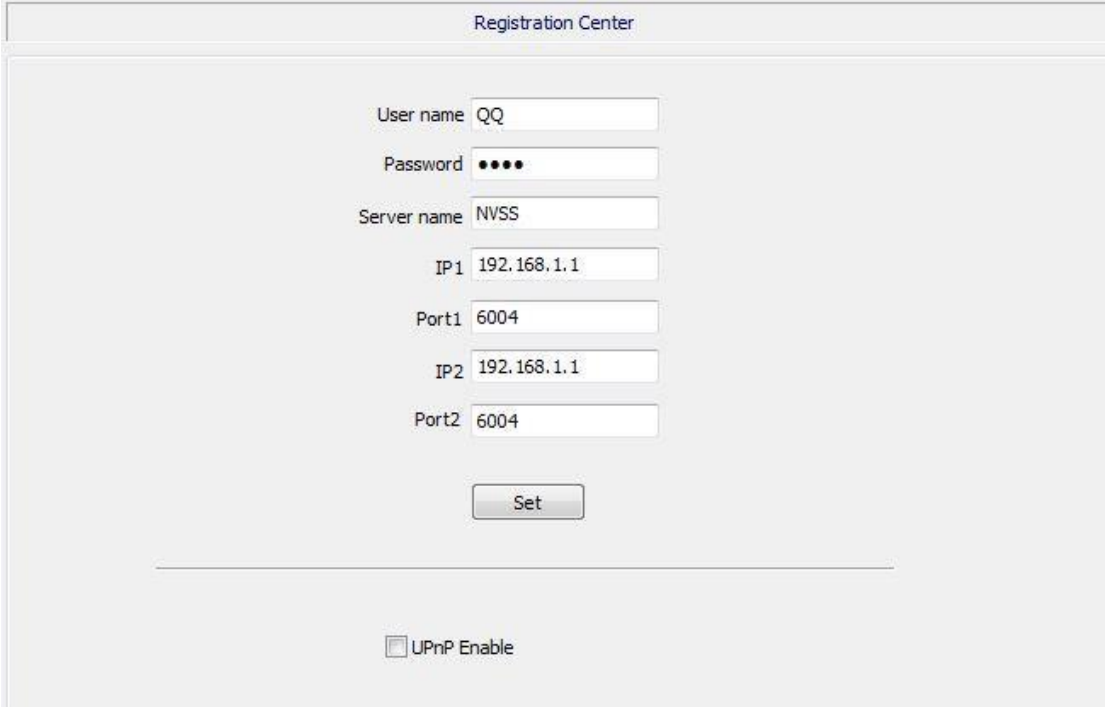


The 'Wire Setting' dialog box contains a checkbox labeled 'Obtain an IP Address Automatically' which is unchecked. Below this are six text input fields: 'IP' with '192.168.1.2', 'SubMask' with '255.255.255.0', 'Gateway' with '192.168.1.1', 'DNS' with '192.168.1.1', and 'MAC' with '00:50:c2:28:23:e6'. A 'Set' button is located to the right of the MAC field.

Pic. 5.13 IP Setting

5.6.2 Registration Center

Support User Name, Password, Server Name, IP and Port setting.



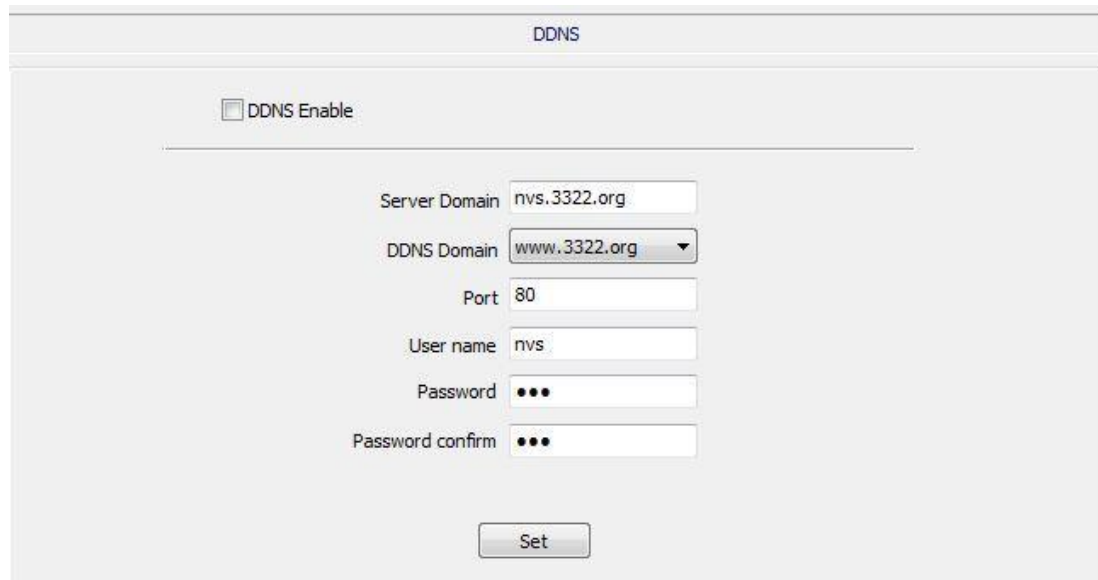
The 'Registration Center' dialog box features several text input fields: 'User name' with 'QQ', 'Password' with four dots, 'Server name' with 'NVSS', 'IP1' with '192.168.1.1', 'Port1' with '6004', 'IP2' with '192.168.1.1', and 'Port2' with '6004'. A 'Set' button is positioned below these fields. At the bottom of the dialog, there is a checkbox labeled 'UPnP Enable' which is unchecked.

Pic. 5.14 Registration Center

Overview

5.6.3 DDNS

Support Server Domain, DDNS Domain, Port, User Name and Password setting.

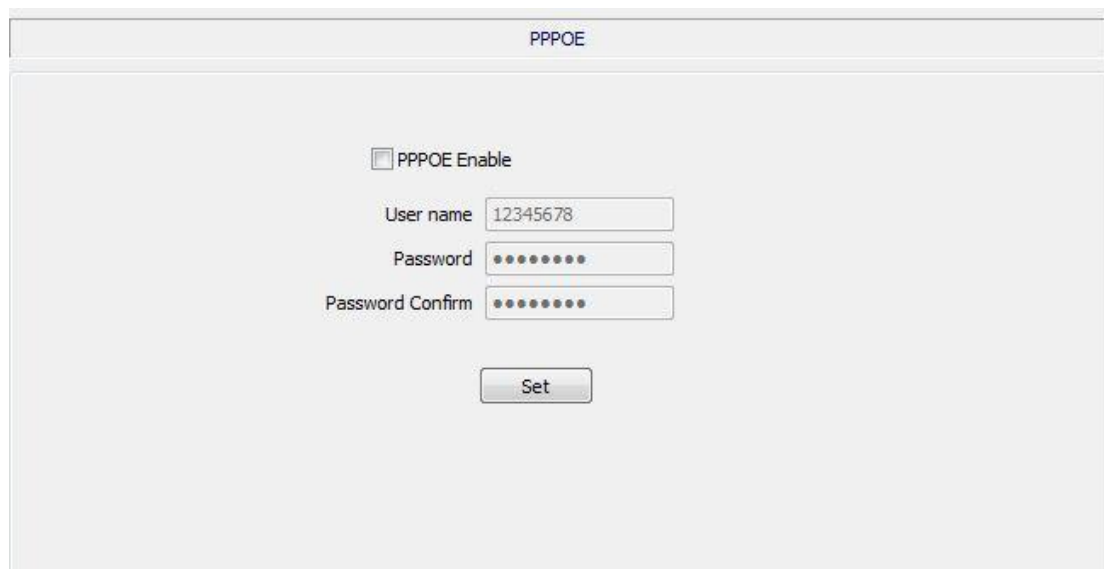


The screenshot shows a web interface titled "DDNS". At the top, there is a checkbox labeled "DDNS Enable". Below this, there are several input fields: "Server Domain" with the value "nvs.3322.org", "DDNS Domain" with a dropdown menu showing "www.3322.org", "Port" with the value "80", "User name" with the value "nvs", "Password" with three dots, and "Password confirm" with three dots. At the bottom, there is a "Set" button.

Pic. 5.15 DDNS

5.6.4 PPPOE

Set user name and password.



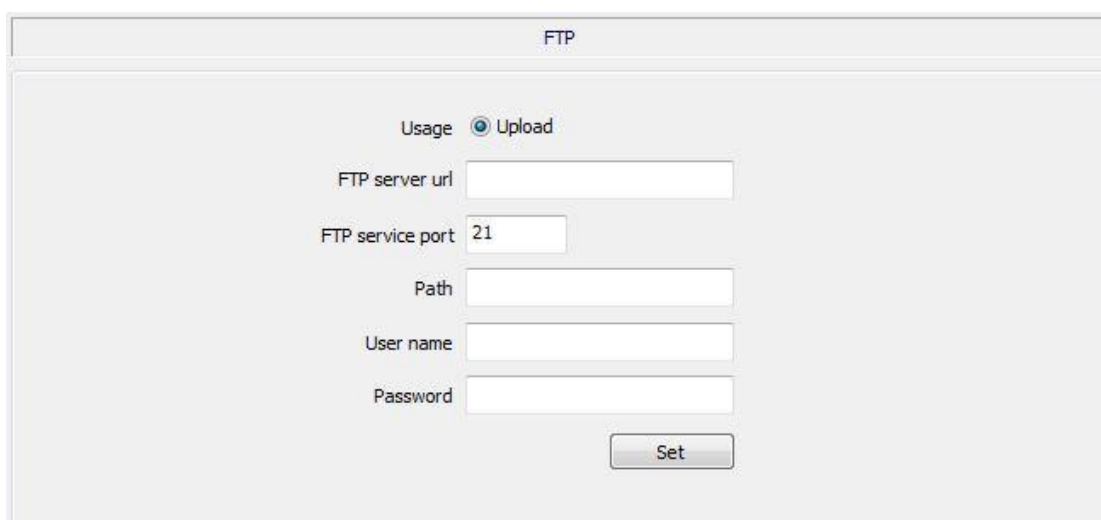
The screenshot shows a web interface titled "PPPOE". At the top, there is a checkbox labeled "PPPOE Enable". Below this, there are three input fields: "User name" with the value "12345678", "Password" with ten dots, and "Password Confirm" with ten dots. At the bottom, there is a "Set" button.

Pic. 5.16 PPPOE

Overview

5.6.5 FTP

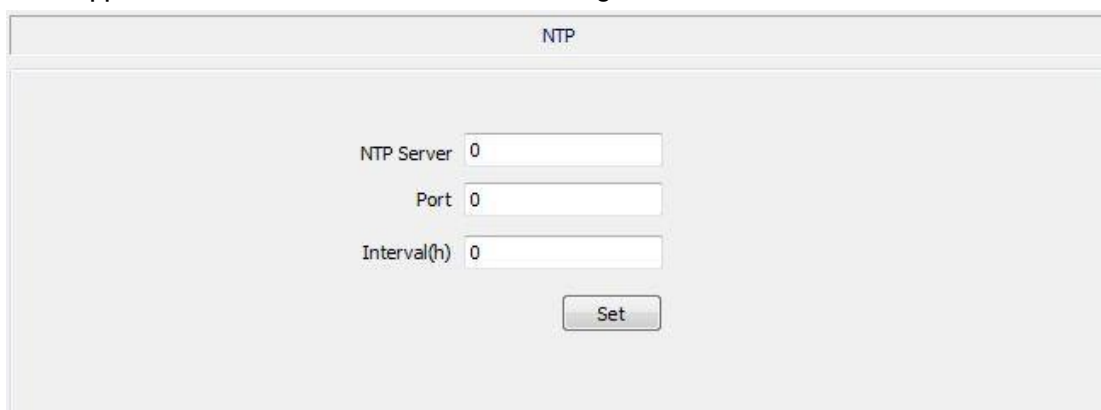
Support FTP Server Url, FTP Port, Path, User Name and Password setting. Upload support automatically and manually, also recorder and picture timing.

A screenshot of a web-based configuration window titled "FTP". Inside the window, there is a "Usage" section with a radio button labeled "Upload" which is selected. Below this, there are five input fields: "FTP server url", "FTP service port" (containing the value "21"), "Path", "User name", and "Password". At the bottom right of the form is a "Set" button.

Pic 5.17 FTP

5.6.6 NTP

Support NTP Server, Port and Interval setting.

A screenshot of a web-based configuration window titled "NTP". Inside the window, there are three input fields: "NTP Server" (containing the value "0"), "Port" (containing the value "0"), and "Interval(h)" (containing the value "0"). At the bottom right of the form is a "Set" button.

Pic. 5.18 NTP

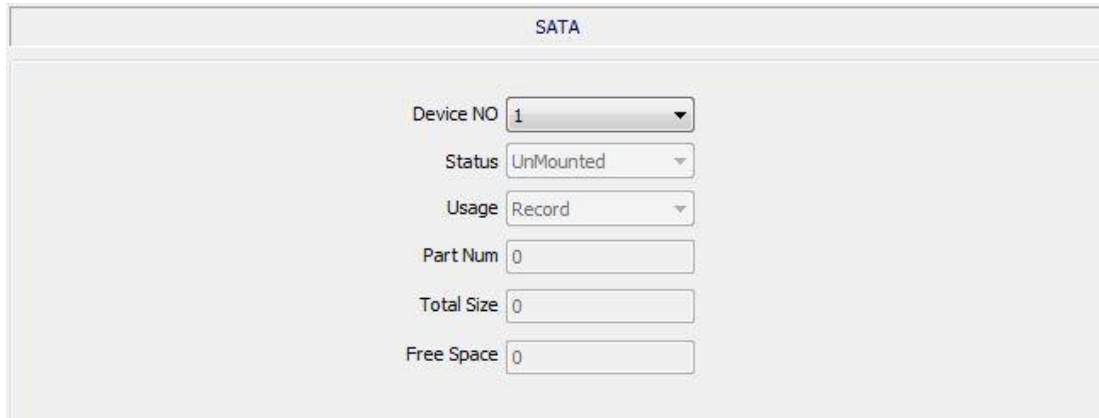
5.7 Front Storage

Front storage contains SATA, USB/SD, NFS, Record Policy, Pre-record, Storage Policy and Snapshot.

Overview

5.7.1 SATA

It contains Device No., Status, Usage, Part Num., Total Size and Free Space.



The screenshot shows a window titled "SATA". Inside, there are several input fields and dropdown menus arranged vertically. The fields are labeled "Device NO", "Status", "Usage", "Part Num", "Total Size", and "Free Space". The "Device NO" dropdown is set to "1". The "Status" dropdown is set to "UnMounted". The "Usage" dropdown is set to "Record". The "Part Num", "Total Size", and "Free Space" text boxes all contain the value "0".

5.19 SATA

5.7.2 USB/SD

Support Device No., Status, Usage, Total Size, Free Space and Initialize Disk setting.



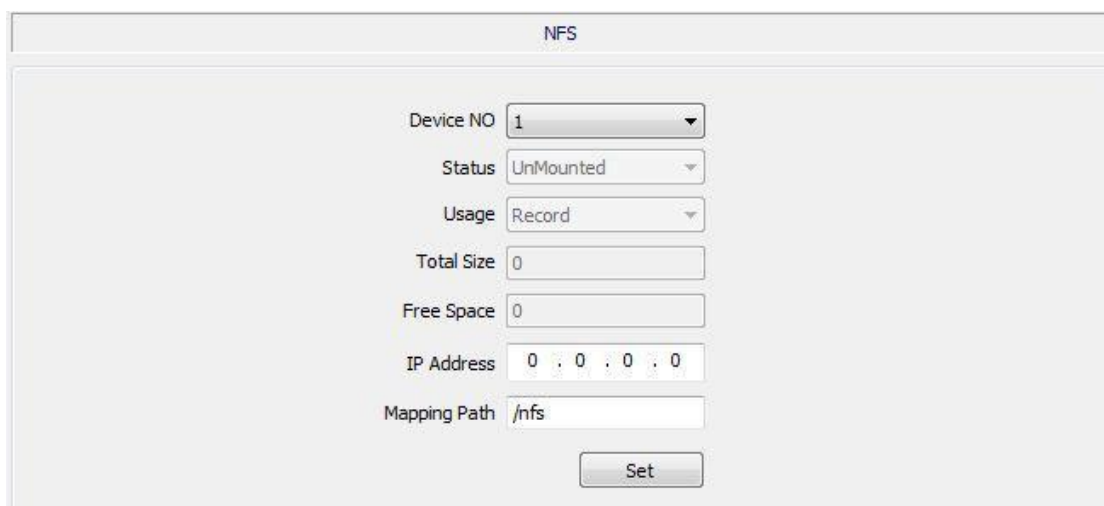
The screenshot shows a window titled "USB/SD". Inside, there are several input fields and dropdown menus arranged vertically. The fields are labeled "Device NO", "Status", "Usage", "Total Size", and "Free Space". The "Device NO" dropdown is set to "1". The "Status" dropdown is set to "UnMounted". The "Usage" dropdown is set to "Record". The "Total Size" and "Free Space" text boxes both contain the value "0". At the bottom right of the form, there is a button labeled "Initialize Disk".

Pic. 5.20 USB/SD

5.7.3 NFS

Support Device No., Status, Usage, Total Size, Free Space, IP address and Mapping Path setting.

Overview



The image shows a software window titled "NFS". Inside the window, there are several configuration fields arranged vertically. Each field consists of a label on the left and a control element on the right. The fields are: "Device NO" with a dropdown menu showing "1"; "Status" with a dropdown menu showing "UnMounted"; "Usage" with a dropdown menu showing "Record"; "Total Size" with a text input field containing "0"; "Free Space" with a text input field containing "0"; "IP Address" with a text input field containing "0 . 0 . 0 . 0"; and "Mapping Path" with a text input field containing "/nfs". Below these fields, centered, is a button labeled "Set".

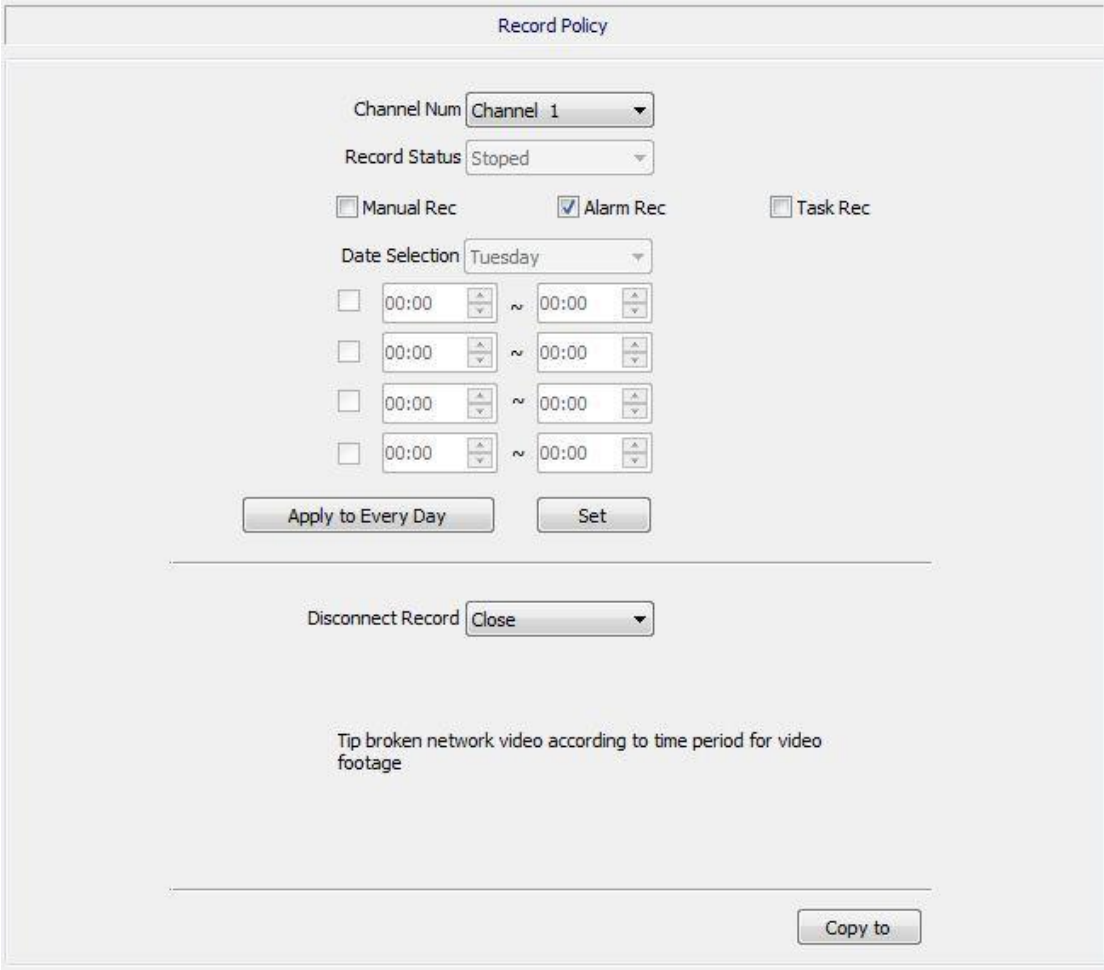
Field	Value
Device NO	1
Status	UnMounted
Usage	Record
Total Size	0
Free Space	0
IP Address	0 . 0 . 0 . 0
Mapping Path	/nfs

Pic. 5.21 NFS

5.7.4 Record Policy

Support Alarm Record, Manual Record, Task Record, Channel Num and Record Status.

Overview



The 'Record Policy' window contains the following elements:

- Channel Num:** A dropdown menu currently showing 'Channel 1'.
- Record Status:** A dropdown menu currently showing 'Stoped'.
- Recording Options:** Three checkboxes: 'Manual Rec' (unchecked), 'Alarm Rec' (checked), and 'Task Rec' (unchecked).
- Date Selection:** A dropdown menu currently showing 'Tuesday'.
- Time Ranges:** Four rows of time selection. Each row has an unchecked checkbox, a time input (00:00), a tilde (~) separator, and another time input (00:00). Each time input has up and down arrow buttons.
- Buttons:** 'Apply to Every Day' and 'Set' buttons are located below the time ranges.
- Disconnect Record:** A dropdown menu currently showing 'Close'.
- Tip:** A text message: 'Tip broken network video according to time period for video footage'.
- Copy to:** A button located at the bottom right of the window.

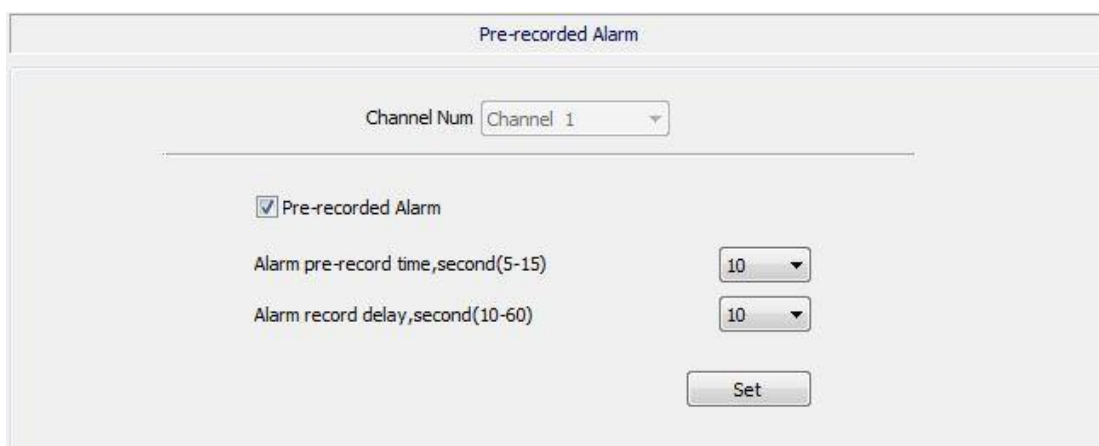
Pic. 5.22 Record Policy

5.7.5 Pre-recorded

Support Channel Num., Alarm Pre-record Time and Alarm Record Delay setting.

There are 5, 10 and 15 seconds optional, for Alarm Record Delay, there are 10, 15, 30 and 60 optional.

Overview



The screenshot shows a window titled "Pre-recorded Alarm". At the top, there is a "Channel Num" dropdown menu set to "Channel 1". Below this, there is a checkbox labeled "Pre-recorded Alarm" which is checked. Underneath the checkbox, there are two settings: "Alarm pre-record time,second(5-15)" with a dropdown menu set to "10", and "Alarm record delay,second(10-60)" with a dropdown menu set to "10". At the bottom right of the window is a "Set" button.

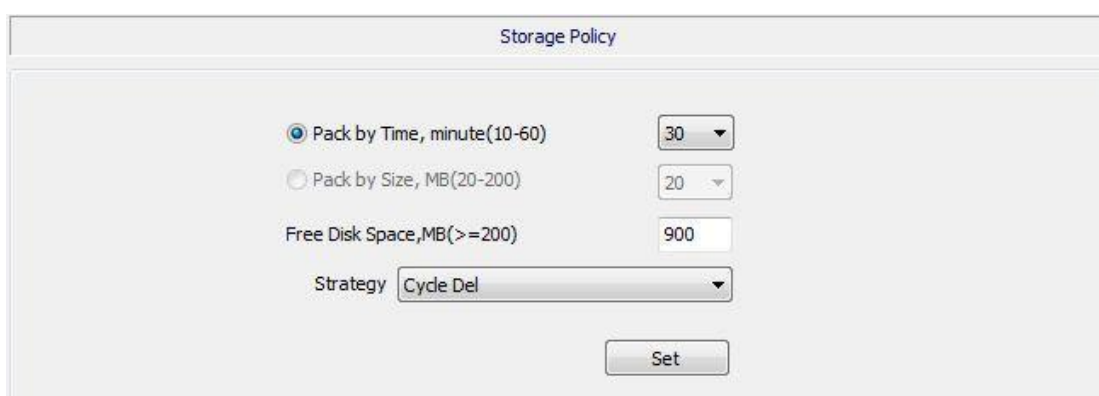
Pic. 5.23 Pre-recorded Alarm

5.7.6 Storage Policy

Support Pack Type (by time or by size), Free Disk Space(more than 200M) and

Saving Strategy setting. The Pack By Time has 10, 20, 30 and 60 optional.

Saving Strategy has Stop Record and Cycle Del(Except Alarm File)



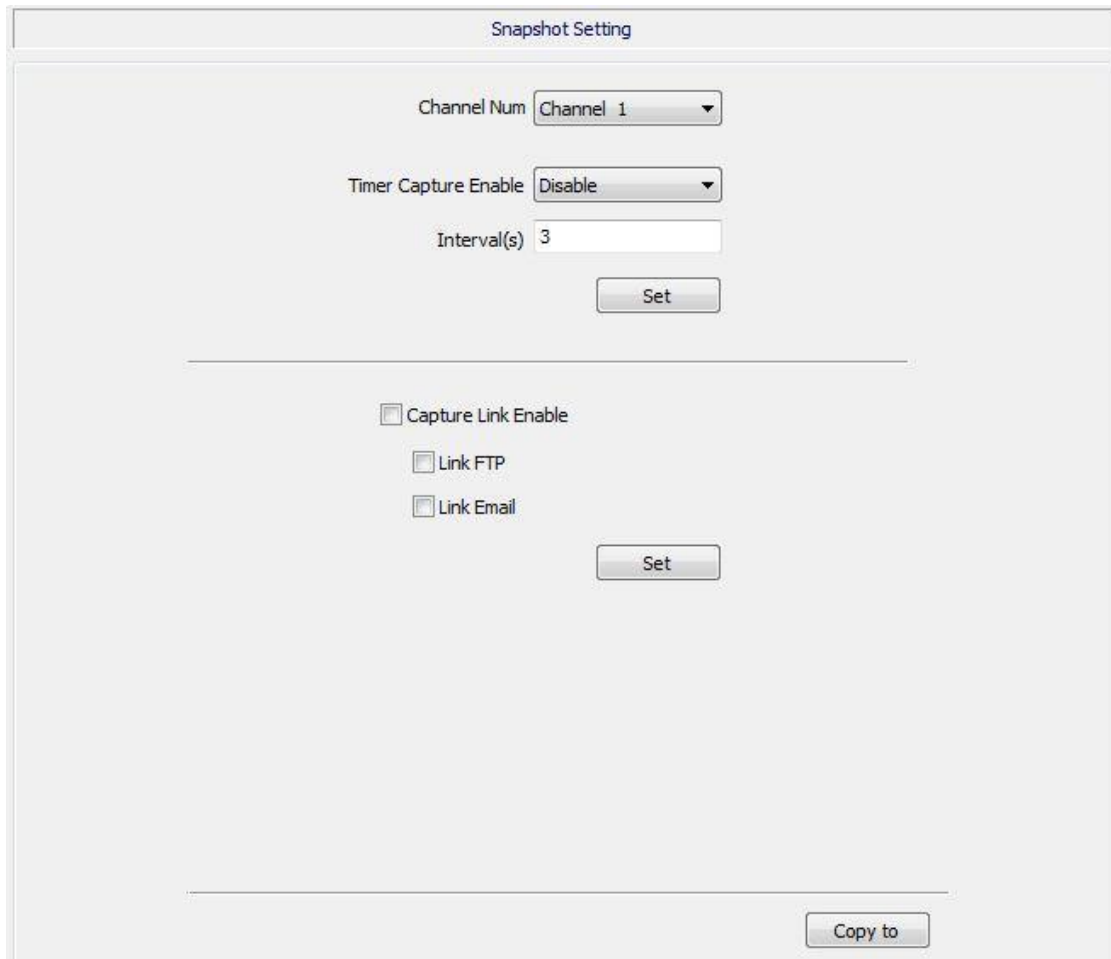
The screenshot shows a window titled "Storage Policy". It contains two radio buttons: "Pack by Time, minute(10-60)" which is selected, and "Pack by Size, MB(20-200)". To the right of these radio buttons are two dropdown menus; the first is set to "30" and the second to "20". Below these, there is a text input field for "Free Disk Space,MB(>=200)" containing the value "900". Underneath this is a dropdown menu for "Strategy" set to "Cycle Del". At the bottom right is a "Set" button.

Pic. 5.24 Storage Policy

5.7.7 Snapshot Setting

Select Channel Num and enable Timer Capture, then set Interval, and click Set to complete.

Overview



The screenshot shows a 'Snapshot Setting' dialog box with a light gray background. At the top, the title 'Snapshot Setting' is centered. Below the title, there are three main sections. The first section contains a 'Channel Num' dropdown menu set to 'Channel 1', a 'Timer Capture Enable' dropdown menu set to 'Disable', and an 'Interval(s)' text input field containing the number '3'. A 'Set' button is positioned below these fields. The second section, separated by a horizontal line, contains three checkboxes: 'Capture Link Enable', 'Link FTP', and 'Link Email'. A 'Set' button is located below these checkboxes. The third section, also separated by a horizontal line, contains a 'Copy to' button at the bottom right.

Pic. 5.25 Snapshot Setting

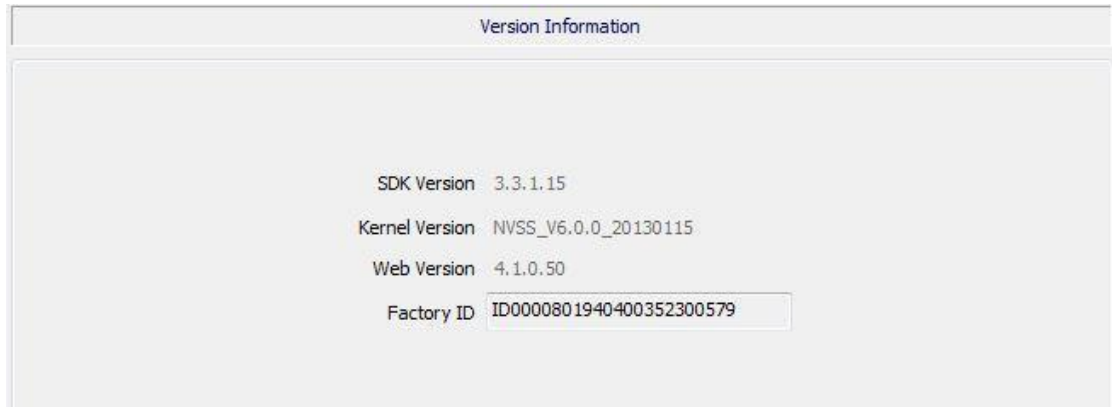
5.8 Advance

Support Version Information, System Information, PU, SIP, Access Platform, User Management, Upgrade and Log Management setting.

5.8.1 Version Information

It will show SDK Version, Kernel Version, Web Version and Factory ID information, as Pic. 5.26

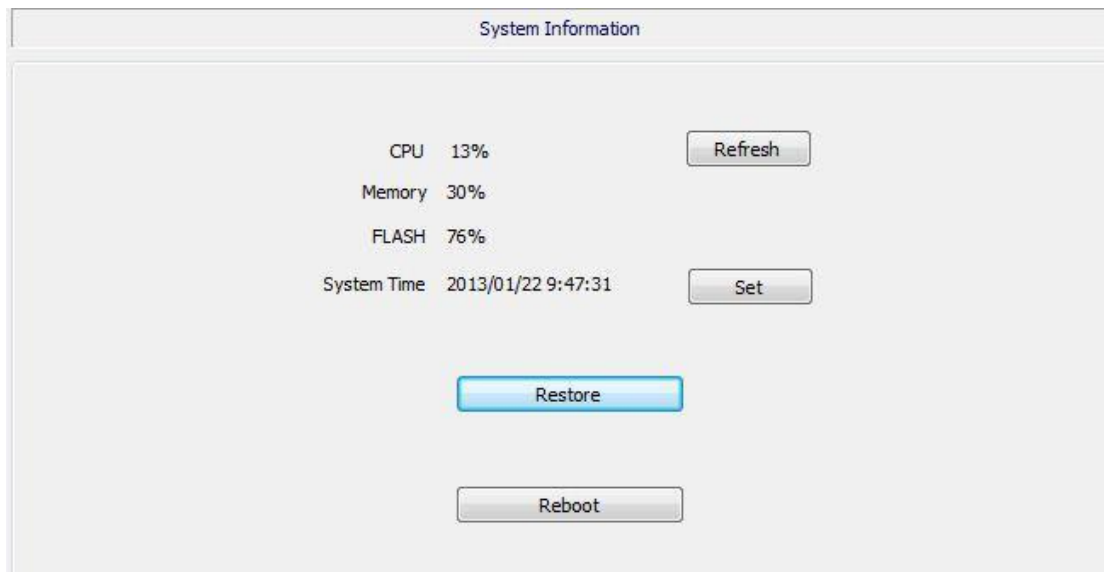
Overview



Pic. 5.26 Version Information

5.8.2 System Information

It will show CPU, Memory, Flash and System Time information.

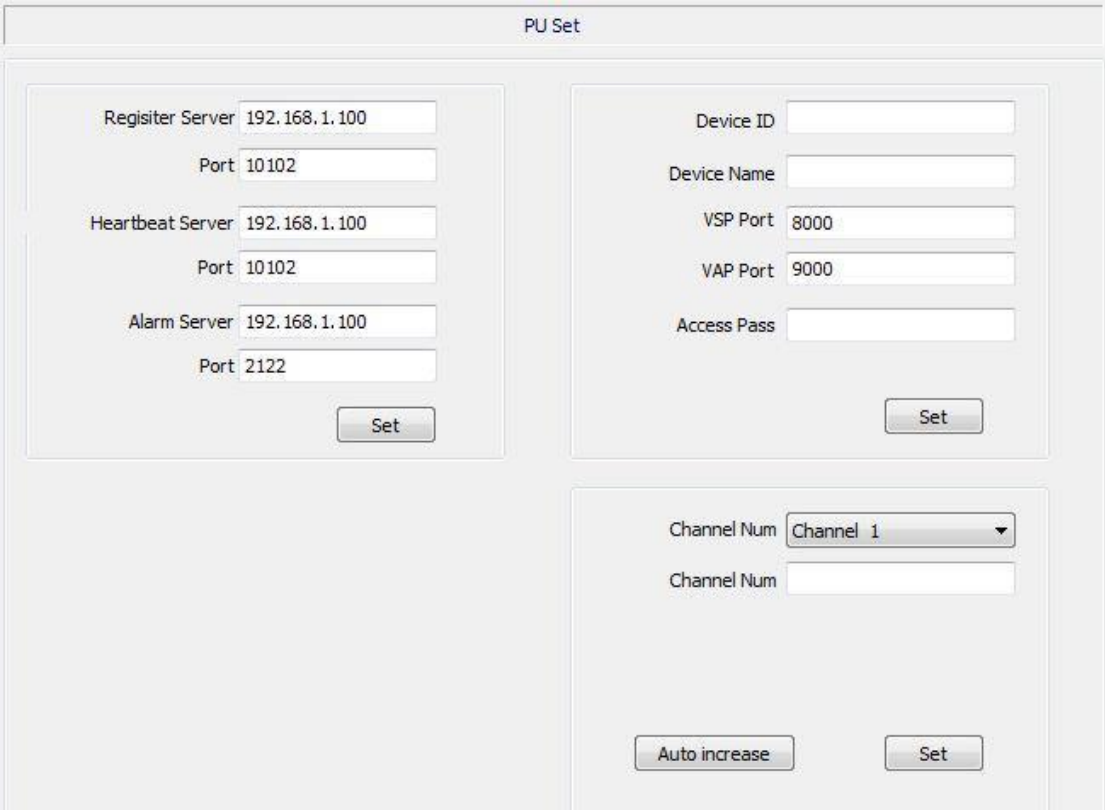


Pic. 5.27 System Information

5.8.3 PU Set

- 1 Set Channel Num.
- 1 Set Register Server, Heartbeat Server, Alarm Server and corresponding port.
- 1 Set Device ID, Device Name, VSP Port, VAP Port and Access Pass.

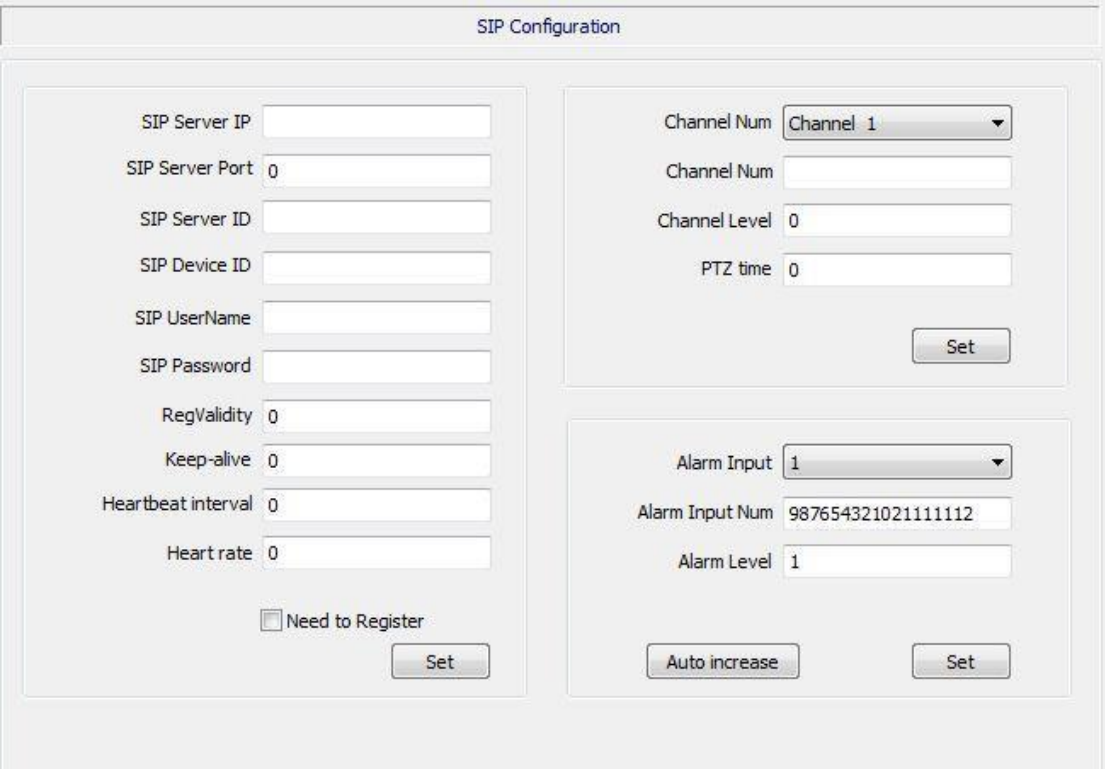
Overview



The 'PU Set' configuration window is divided into three main sections. The top-left section contains fields for 'Register Server' (192.168.1.100), 'Port' (10102), 'Heartbeat Server' (192.168.1.100), 'Port' (10102), 'Alarm Server' (192.168.1.100), and 'Port' (2122), with a 'Set' button below. The top-right section contains fields for 'Device ID', 'Device Name', 'VSP Port' (8000), 'VAP Port' (9000), and 'Access Pass', with a 'Set' button below. The bottom-right section contains a 'Channel Num' dropdown menu (set to 'Channel 1'), an empty 'Channel Num' text field, an 'Auto increase' button, and a 'Set' button.

Pic. 5.28 PU Set

5.8.4 SIP Configuration



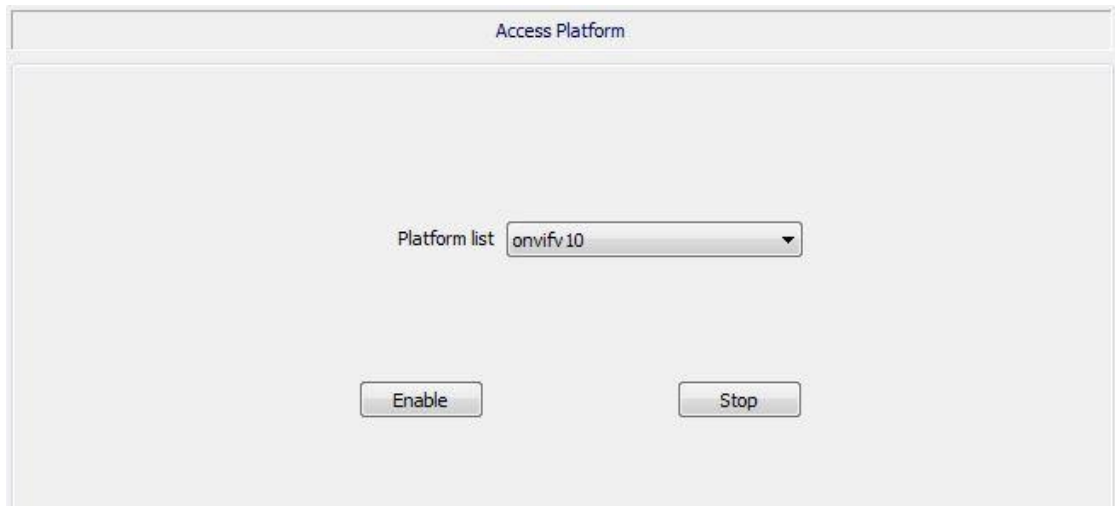
The 'SIP Configuration' window is divided into three main sections. The top-left section contains fields for 'SIP Server IP', 'SIP Server Port' (0), 'SIP Server ID', 'SIP Device ID', 'SIP UserName', 'SIP Password', 'RegValidity' (0), 'Keep-alive' (0), 'Heartbeat interval' (0), 'Heart rate' (0), and a 'Need to Register' checkbox, with a 'Set' button below. The top-right section contains a 'Channel Num' dropdown menu (set to 'Channel 1'), an empty 'Channel Num' text field, 'Channel Level' (0), 'PTZ time' (0), and a 'Set' button below. The bottom-right section contains an 'Alarm Input' dropdown menu (set to '1'), 'Alarm Input Num' (98765432102111112), 'Alarm Level' (1), an 'Auto increase' button, and a 'Set' button.

Overview

Pic. 5.29 SIP Configuration

5.8.5 Access Platform

Select platform list and click 'Enable'. If select 'Stop', the device will restart.

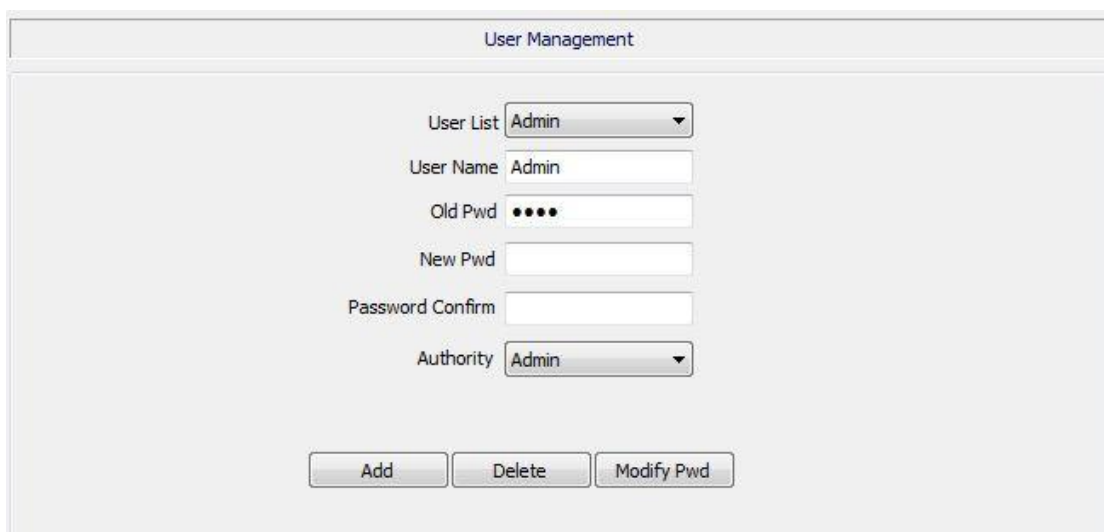


The 'Access Platform' window features a title bar with the text 'Access Platform'. Below the title bar, there is a label 'Platform list' followed by a dropdown menu currently showing 'onvifv10'. At the bottom of the window, there are two buttons: 'Enable' on the left and 'Stop' on the right.

Pic. 5.30 Access Platform

5.8.6 User Management

Support add and delete user. And the user authority contains Admin, View, View+Control and View+Control+Set, it can set password for new user.



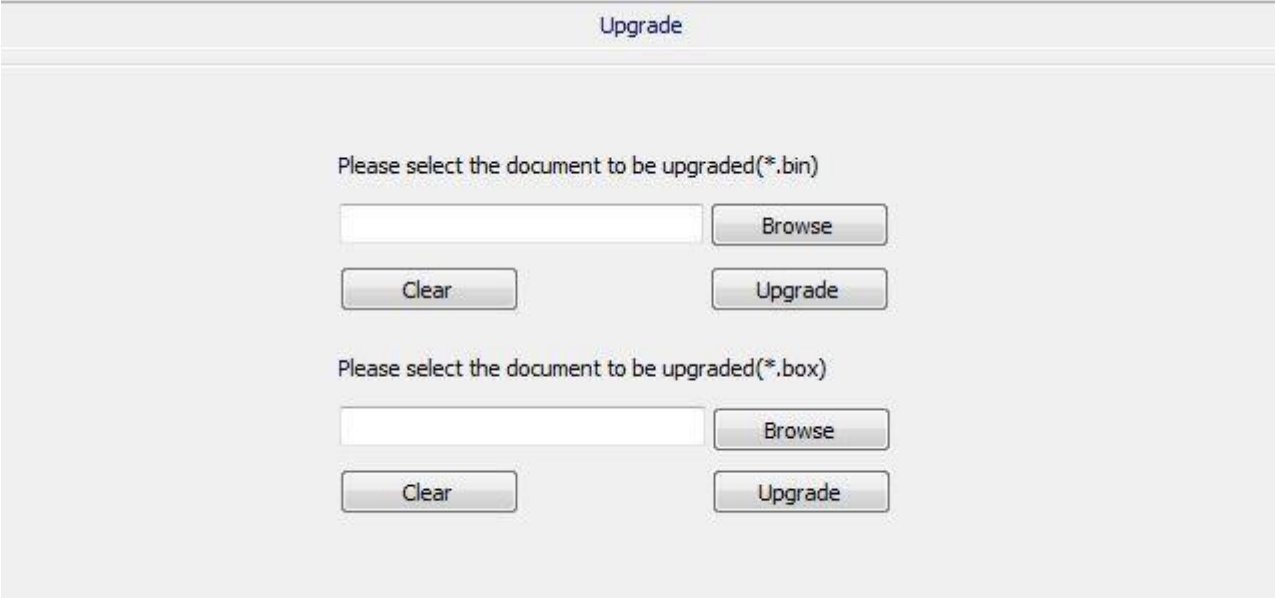
The 'User Management' window has a title bar labeled 'User Management'. The main area contains several form fields: 'User List' (a dropdown menu with 'Admin' selected), 'User Name' (a text box with 'Admin'), 'Old Pwd' (a password box with four dots), 'New Pwd' (a text box), 'Password Confirm' (a text box), and 'Authority' (a dropdown menu with 'Admin' selected). At the bottom, there are three buttons: 'Add', 'Delete', and 'Modify Pwd'.

Pic. 5.31 User Management

Overview

5.8.7 Upgrade

The system support .bin to upgrade kernel and .Box to upgrade web. Click [Browse] and select .bin or .box file, then select [Upgrade Kernel] or [Upgrade Web], and the system will restart after completion.



The screenshot shows a web interface titled "Upgrade". It contains two identical sections for file selection. The first section is for ".bin" files, with the prompt "Please select the document to be upgraded(*.bin)". It features a text input field, a "Browse" button to its right, a "Clear" button below the input, and an "Upgrade" button to the right of the "Clear" button. The second section is for ".box" files, with the prompt "Please select the document to be upgraded(*.box)". It also features a text input field, a "Browse" button to its right, a "Clear" button below the input, and an "Upgrade" button to the right of the "Clear" button.

Pic. 5.32 Upgrade

5.8.8 Log Management

Query log information according to channel, type and time.

[illegible]

Pic. 5.33 Log Management

6.0 Supplement

6.1 Clod Start on Low Temperature

If the temperature is lower than -30 degree, please reheat for 3-5 minis.

6.2 Lightning Level

4KV electrostatic protection

Power port: mold 4KV, differential mode 2KV.

Network port: common mode 4KV.

Overview

The electrostatic: contact 6KV, air 8KV.

6.3 The Braids Lines Traces

In order to prevent water from braids line, please note braid line traces.