FISHEYE PANORAMIC CAMERA

PRODUCT MANUAL

V1.0

Notice

We’d like to express our gratitude for purchasing fisheye panoramic camera from our Company.

Please read this manual carefully before installation. When you start installing the camera, you are supposed to have finished reading it. If the product is damaged because the user does not operate it according to the manual, he/she cannot be entitled to guarantee service.

If you come across any problem related to the product before or during the installation, please contact us, we will provide technical support.

This manual will update constantly, please check the latest version on our website. New version will release without further notice. Our company reserves the right of interpretation of this manual.

Environmental conditions：
Operation：
Temperature： -30℃～+65℃
Moisture： 10%～95%
Storage：
Temperature： -40℃～75℃
Moisture ： 10%～95%
Power：DC12V/2A
Note：The fisheye panoramic camera is not explosion-proof, please avoid external shocks which may bring damage to the device during installation.

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1 PRODUCT OVERVIEW

1.1 INTRODUCTION

Users are always in the pursuit of easier installation, operation and maintaining of video surveillance system for security in the places like shops, offices and residential places. To meet such requirement, we provide highly integrated solution with ceiling/wall mounted IP HD fisheye panoramic camera. All functions are integrated into one camcorder camera and users are able to monitor easily with any common devices such as PC, laptop or portable device.

1.2 APPLICABLE DOMAINS

The camera can be used in outdoor areas related to municipal, energy, transportation, electricity, water and agriculture.

 Check whether the product is complete before installation. If there are contents missing, please contact our distributor.

1.3 SAFTY NOTICE

* Do not touch the camera during a lightening thunderstorm;
* Do not drop the camera;
* If abnormal smell or smoke comes out of the camera, turn off the power immediately;
* Make sure that the device is well mounted, no shaking;
* The camera cannot stand fierce collision;
* Do not rub the transparent cover of the camera in order not to damage the view;
* Pay attention to the operating conditions of the camera;
* Please contact us if you have any questions about our product.

2 FUNCTIONS

2.1 BASIC FUNCTIONS

The fisheye panoramic camera is mainly used for remote video transmission based on IP network. The product adopts H.264 hardware compression technology which enables the device to transmit high-quality video at a speed of 25 frame/sec on LAN/WAN. The camera is entirely based on TCP/IP protocol. It has a built-in Web server to support IE browser. It can be adjusted, opened, updated through network. The management and the maintenance of the camera is convenient.

2.2 ADVANCED FUNCTIONS

* Latest high-performance processor: HI3518. Support H.264 Main Profile video encoding;

* Transmission speed up to 25 fps;

* Ameliorated H.264 video compression algorithm which realizes high definition image transmission on narrowband;

* Built-in Web server, easy usage of IE browser to realize real-time monitor and control;

* Optional equipment: WIFI: 802.11b/g, wireless network;

* Remote upgrading;

* Dynamic DNS, LAN and Internet;

* Single/two-way speaker;

* Motion detection: optional region and optional sensitivity;

*Built-in watchdog, recover automatically from anomalies, automatic connection to network after outage;

* Dynamic alarm system, able to set alarm period;

* Possible to send Email, FTP pictures and trigger external alarm;

* Mobile phone access.

3 SYSTEM REQUIREMENT

Minimum hardware requirement:

* CPU: 2.4 GHz

* Memory: 2048MB

* Sound card: necessary when voice monitor and tow-way intercom are needed

* Hard drive: if video recording is needed, it should be no less than 160G

* System: 32/64 bit Windows2003, Windows XP, Win 7 and Win8

Software requirement:

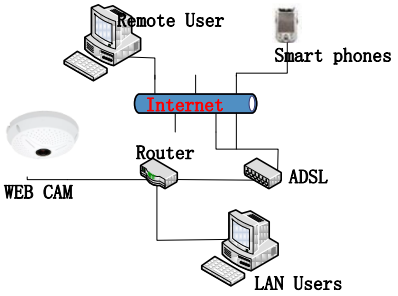
* IE 6.0 or above

* DirectX8.0 or above

* TCP／IP protocol

4 INSTALLATION

There are mainly three kinds of networking to manage the camera: remote connection, LAN connection and cable connection. Before using the camera, please follow the steps below to install the hardware and to set software correctly.



4.1 NETWORK CABLE AND POWER

Step 1: connect the network cable to the RJ45 port on the camera.
Step 2: connect the power adapter to the camera's outlet.

Warning: please choose the right power adapter, otherwise, the camera may not work.

4. 2 CONNECT NETWORK CABLE TO ROUTER OR SWITCH

Connect the other side of the network cable to a switch or to a router.

Check whether the green LED of the RJ port is on or not. If the LAN is well connected, LED will be on. If there are data transmitted, orange LED will scintillate.

Wait for about one minute. Normally, the yellow LED is always on and the green LED scintillates; this manifests that the camera is connected (in order to connect it smoothly, set the camera's IP address to the same fixed IP address of the computer which should be in the same network segment in the LAN).

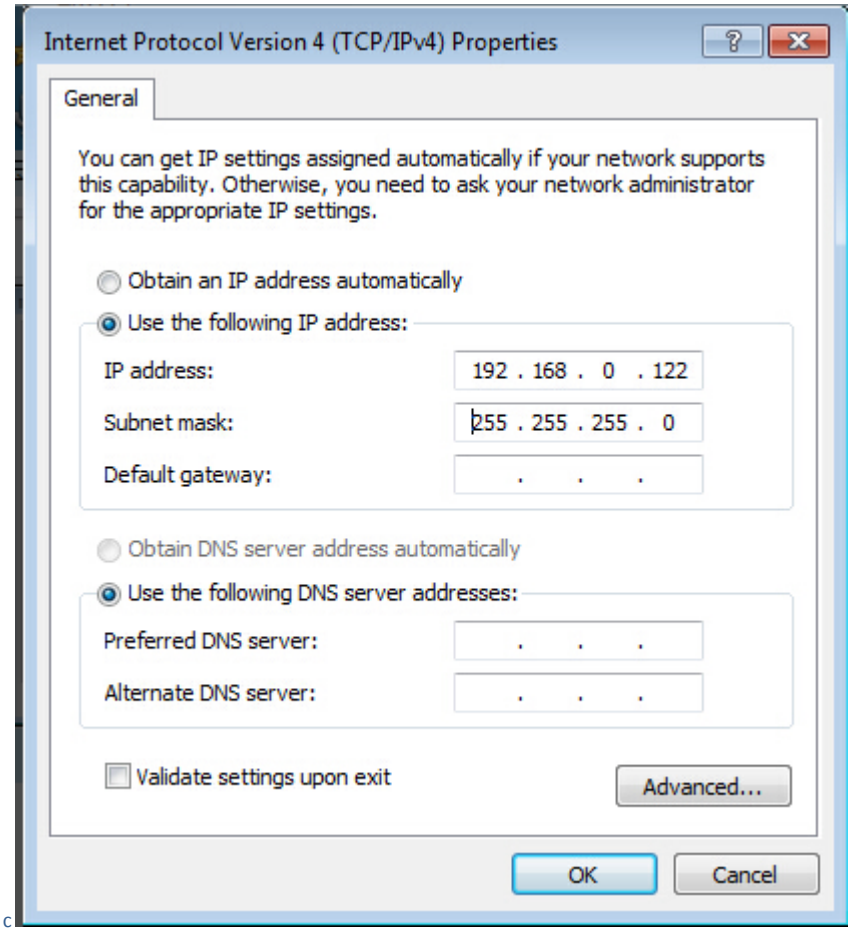
Now, the camera can communicate with user's network. It can be accessed to. User can visit its home page and start using the camera.

5 ACCESS TO THE CAMERA

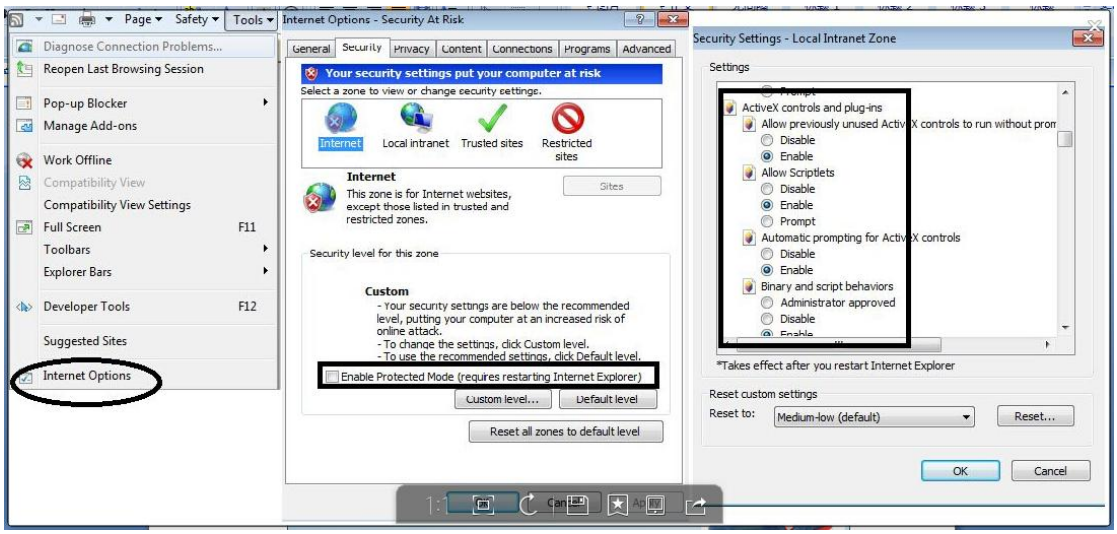
There are two ways to access to the camera:
1. via IE browser;
2. via multi-screen monitoring software.

5.1 VIA IE BROWSER

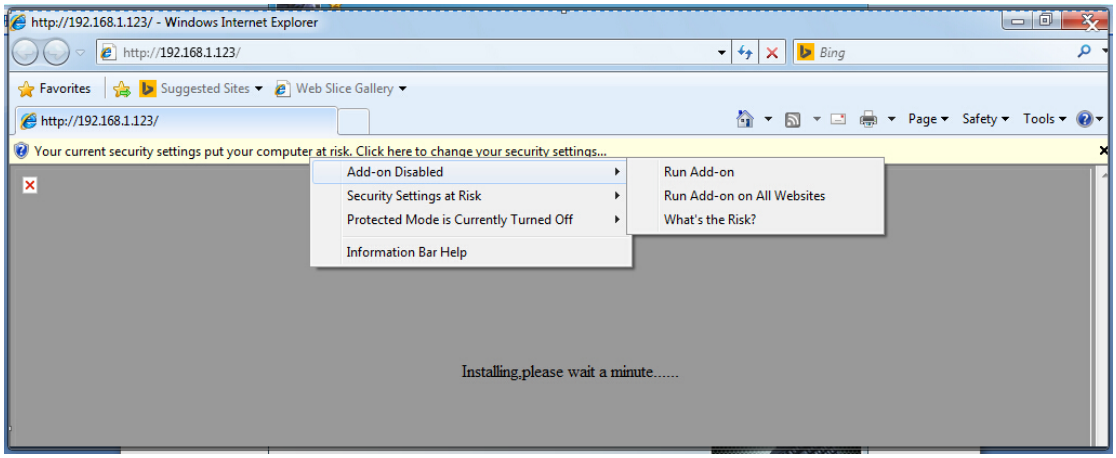
After connecting the camera and a computer into the same LAN, the computer will be able to control the camera. Set the IP address of the computer to the same as the camera's: 192.168.0.※. The default IP address of the camera is 192.168.0.123. After these modifications, use PING command to verify whether the computer and the camera can successfully communicate. If not, check power line and network cable to make sure that they are properly connected. Computer IP address setting:



Open IE browser, select “enable” or “prompt” for all the plug-ins in “ActiveX controls and plug-in” of Tools-Security-Custom level(C), set the security level to medium.



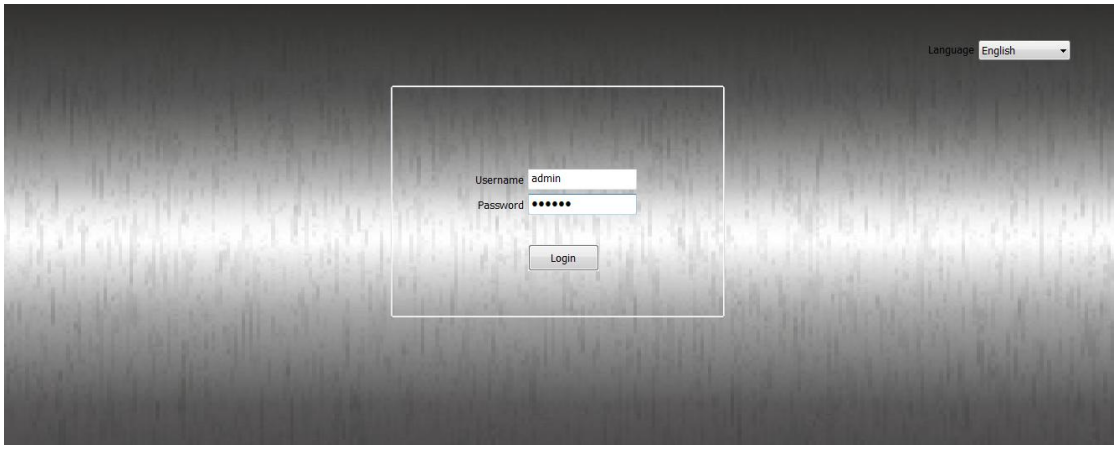
Enter the IP address of the camera in the address bar, press Enter. If it is the first visit, a plug-in will automatically install after pressing Enter button. Right-click on the “?” in the prompt bar, choose “run add-ins (R)”.



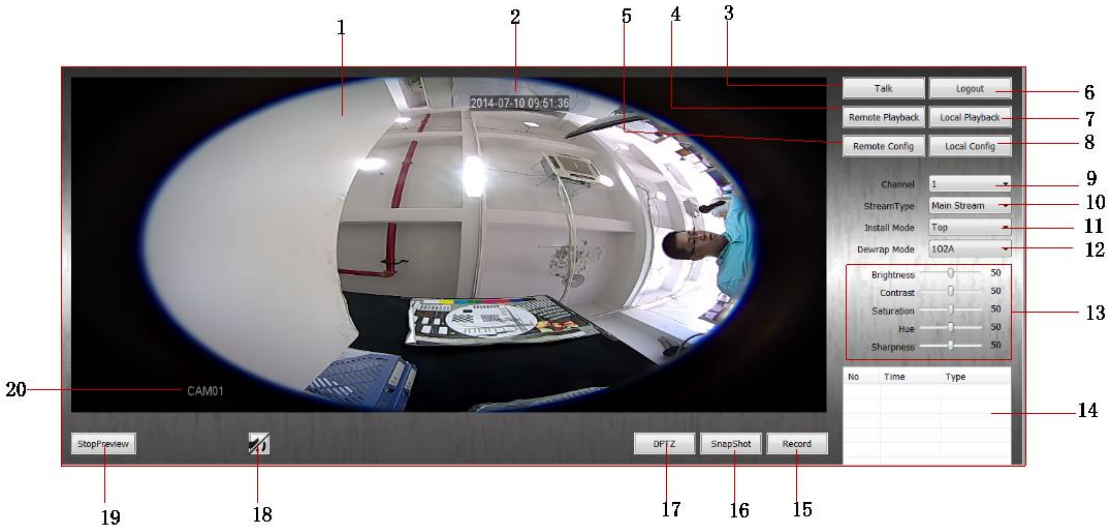
Click Run.

Click install.

After the installation, the network camera will enter the login screen. Input user name and password to enter the preview screen.



5.2 PREVIEW SCREEN



The function of each label above is as follows:

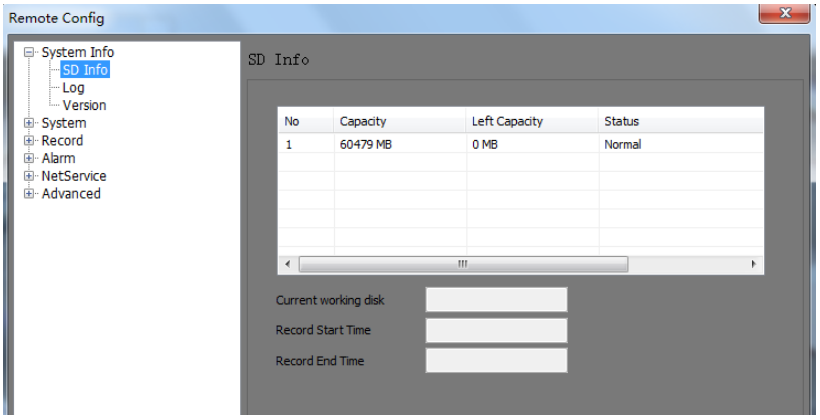
1	Real-time preview.
2	Time. If the time displayed is wrong, set it in the [general] settings in the remote configuration.
3	Voice intercom: when opened, communication between the computer terminal and the device terminal can be achieved (not for all cameras).
4	Remote replay: replay by using the SD card or TF card in the camera.
5	Remote configuration: specific parameter settings, refer to 5.4.
6	Cancellation: exit the preview screen and enter the login screen.
7	Local replay: replay the videos stored in computer.
8	Local settings: set the storage path of manually captured video.
9	Channel: one camera can only use one channel.
10	Stream: stream type can be set when previewing, choose main stream or sub stream.
11	Installation mode: choose from ceiling mounting, wall mounting and desktop mounting.
12	Unwrapping mode: 8 modes to choose from.
13	Image attributes: adjust brightness, saturation and other parameters of the camera.
14	Alarm output window: digital output of alarms.
15	Manual video recording.
16	Manual capture.
17	PTZ: click the button to unwrap the image, realize digital zoom, drag, split screen. This function requires proper settings of 11 and 12.
18	Sound.
19	Stop previewing.
20	CAM1：camera channel, it can be changed in the [export] of [remote configuration].

5.4 CAMERA SETTINGS

5.4.1 SYSTEM INFO

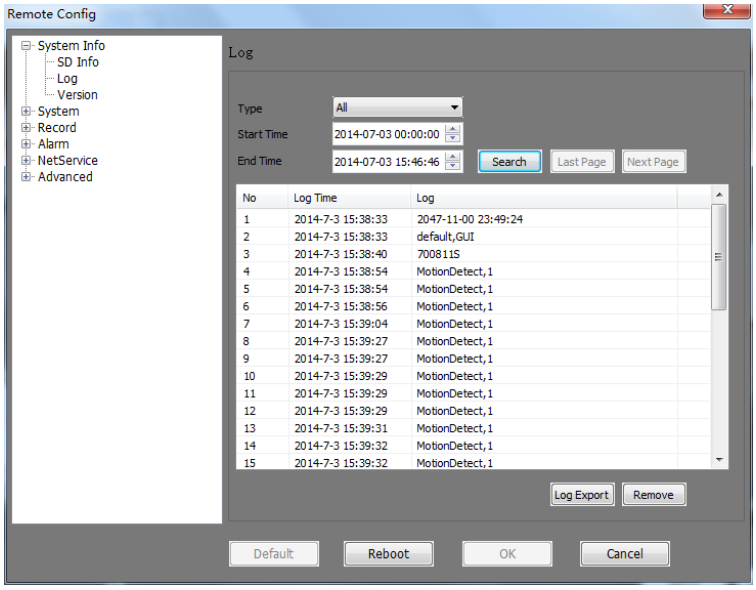
System info contains SD information, log information and version information.

Storage information, as shown below, contains the information of the SD card: capacity, record start time and record end time.



5.4.2 LOG INFORMATION

Log information contains device operating system log, user's log and so on. User can choose to export logs or to remove logs after viewing.



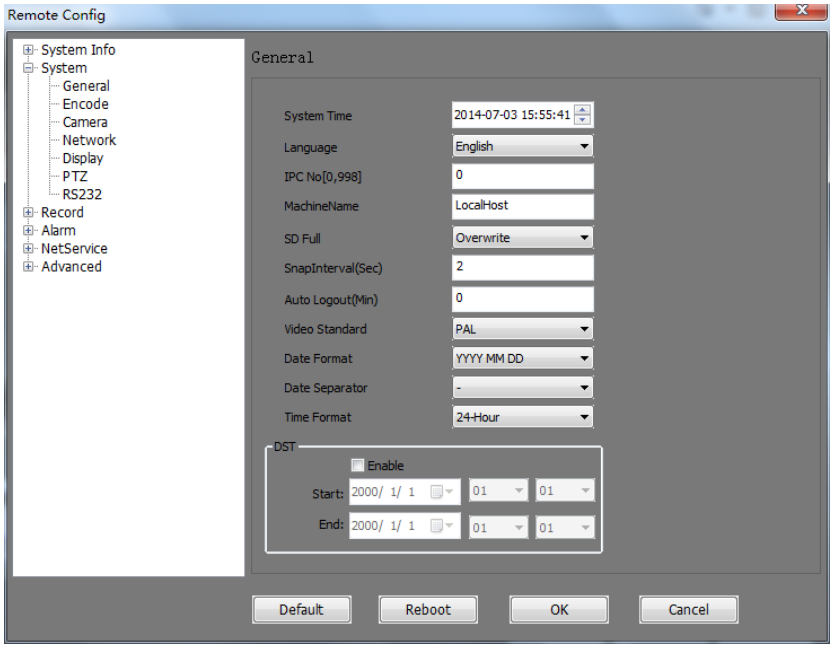
5.4.3 VERSION INFORMATION

User can view the version information of firmware, web, UUID device (for mobile phone), two-dimensional code (for mobile phone scanning) and so on.

5.4.4 GENERAL SETTINGS

System settings include general settings, encode settings, camera parameters, network settings, display mode, PTZ settings and serial port settings.

General settings, as shown below, include: system time, language, treatment when SD card is full and so on. Click [save] after adjustments.

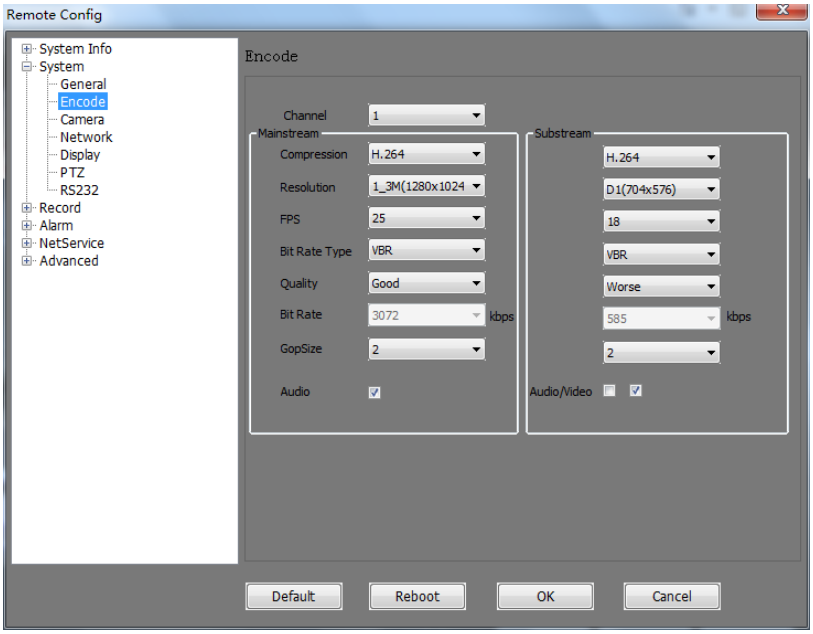


Parameter	Note
System time	Default is 01/01/2000
Language	Change the language of web interface, choose Chinese or English
IPC No.	The ID number of the camera, default is 0
Machine name	The name of the camera, it will show when users enter via telnet
SD full	Choose to cover former video or to stop recording
Snap interval	Set the time interval of snapshot, default is 2S
Auto logout	default is 0

Video standard	PAL or NTSC
Date format	Choose Chinese format or western format
Date separator	delimiter that separate year, month and day
Time format	24h or 12h
DST	adjust summer time

5.5.5 ENCODE SETTINGS

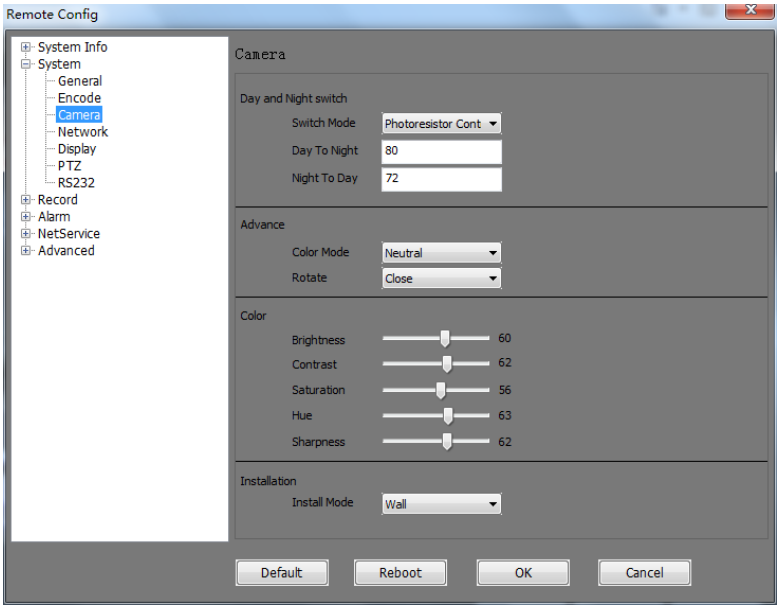
Set camera's parameters in the encode settings, including audio and video control.



Parameter	Note
Compression	H.264 standard compression
Resolution	Multiple resolutions, different resolution has different default transport stream value
Frame rate (fps)	PAL ：1~25 fps; NTSC：1~30 fps, frame rate can be customized, it should be more than 16 fps if there are objects moving frequently in the image
Stream control	Including fixed stream mode and variable stream mode. Picture quality can only be changed under variable stream, not under fixed stream.
Quality	Multiple types of picture quality. Bit rate changes in accordance with picture quality.
Bit rate type	Under variable stream mode, this value is the upper limit of the stream, under fixed stream mode, this value is fixed.
GOP size	The interval of two initial frame should range from 2 to 12 P frames, shorter interval for motion picture, and longer interval for static picture.
audio/ video	Main stream：Select [audio] to transport audio and video, otherwise, only video can be transported. Sub stream：Select two squares to transport audio and video at the same time.

5.4.6 CAMERA PARAMETERS

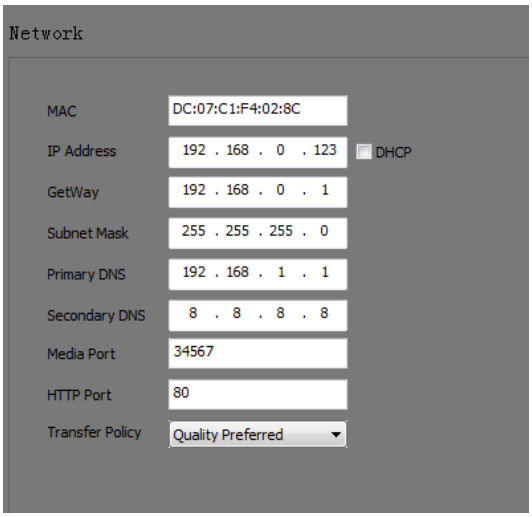
Set day and night switch, advanced features, image attributes and installation mode in the camera parameter window.



Parameter	Note
Day and Night switch	Mode: auto (CMOS control the switch), color, black and white, photoresistor(photoresistor control the switch)
Advanced features	Color mode: standard, natural, vivid. Mirroring feature is off by default. Select [horizon] to flip horizontally, select [vertical] to flip vertically.
Image attributes	Brightness: if the picture is too bright or dim, adjust this value. It ranges from 0 to 100. The recommended value is from 40 to 60. Default value is 50. Contrast: adjust this value when image contrast is not enough. The range of the value is also from 40-60. Saturation: adjust the color, this value will not affect the overall brightness of the image. Hue：Adjust the tendency of the color. sharpness：The higher the value is, the clearer the edge, the lower the value is, the obscurer the edge.
Installation mode	Wall mounting, ceiling mounting or desktop mounting. Different mounting has different unwrapping results.

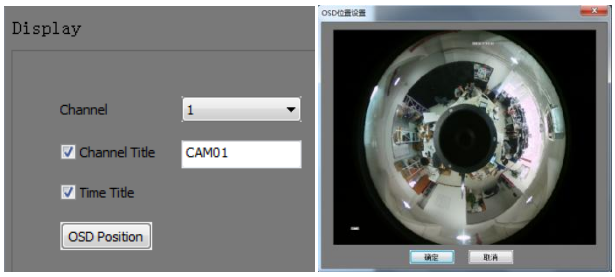
5.4.7 NETWORK SETTINGS

Set the parameters of the network, check MAC address and modify IP address, TCP, HTTP port and transfer policy in network settings.



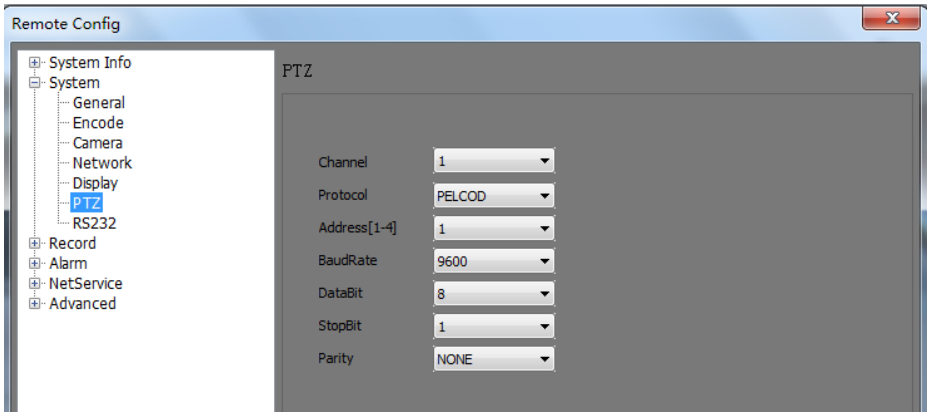
5.4.8 DISPLAY MODE

Choose whether to display channel title and time title in the preview window. Drag time title and channel title if needed via OSD, the channel title can be customized.



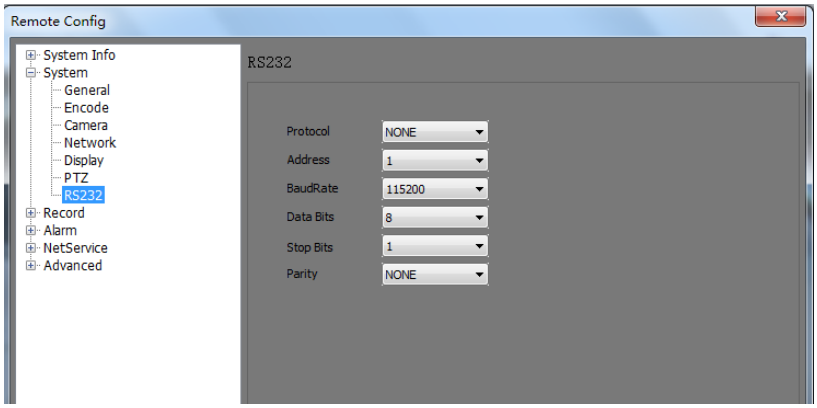
5.4.9 PTZ

Our product supports PTZ linkage. PTZ protocol supports standard PELCOD protocol and some private protocols used by other companies. User can decide which protocol to use according to their need. Parameters for PELCOD protocol:



5.4.10 RS232

RS232 settings ： When connecting the device to other devices through 232 cable, make sure that the parameters of both sides are the same in order to communicate successfully.



5.4.11 VIDEO RECORDING

[Record] adjusts the video that will be stored by the SD card in the camera. Select [Record] to start functional configuration.

User can adjust video length, video time and video type etc. in [record]. When the stream is limited, for example, the recording time is 60 minutes, the conversion formula is： stream size×3600÷8÷1024= MB

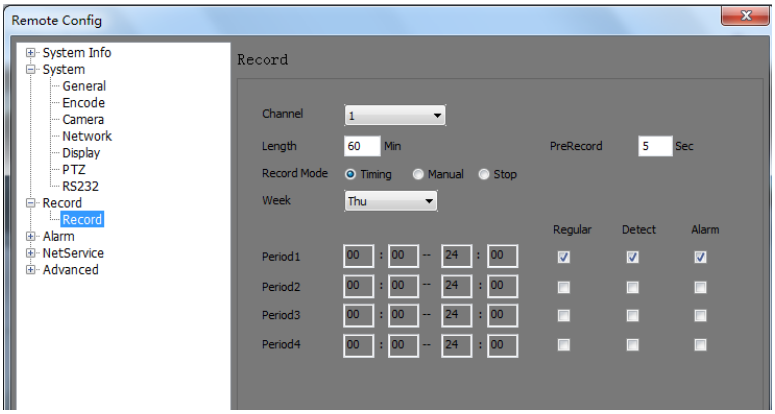
The calculation formula of the memory card:

File size/h × recording time/day × days to be saved

For example: a camera of 512kps, it records 12h/day for 15 days. The formula is as the following:

file size/h: 512×3600÷8（1 byte=8 bit）÷1024=225MB

Memory card capacity=225×12×15=40500MB≈39GB



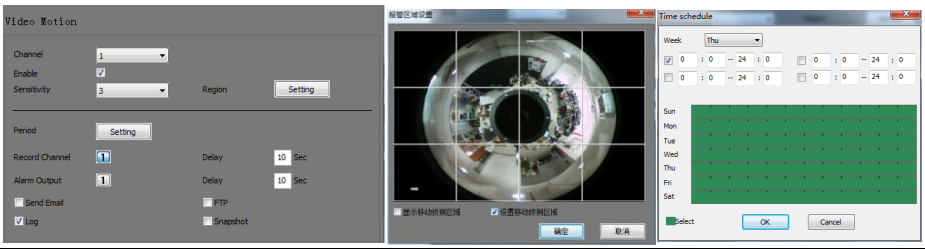
Parameter	Note
Length	The length of the video
Prerecord	The time before actual recording begins.
Record mode	Timing: choose recording time, Manual: record all the time, stop: stop recording.
Week	The displayed date is present date, choose all weekdays or one day, default is all days.
Regular	Exporting video under timing or manual record mode. Display manually recorded video when checked.

Detect	Cooperate with motion detection configuration. Start recording when motion is detected.
Alarm	Start recording when camera blind alarm is given.

5.4.12 MOTION DETECTION

Alarm management includes motion detection, video blind, alarm input, alarm output, abnormality management.

Motion detection, shown as below, is to detect moving objects and to give alarm via an external alarm device. Alarm information can also be exported in the alarm output region. When alarm is given, it will also trigger related operations as recording, picture capturing and Email sending etc. Choose the region that should be monitored in [region], the whole area is covered by a square of 4 to 3. Choose the time that motion detection is needed in [period]. Click the button beside [record channel] and [alarm output] to turn on or to turn off the linkage feature. Blue button means linkage is on, white button means linkage is off. When motion detection is on, corresponding configurations should be done in system settings. To turn on [send Email] and [FTP] function, corresponding configurations should be done in network settings.

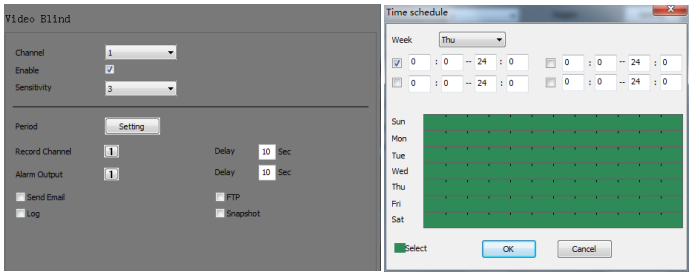


Parameter	Note
Enable	Is on, is off.
Sensibility	Sensibility ranges from 1 to 6, 1 is the lowest, 6 is the highest, default is 3.
Region	Use mouse to select the region that should be monitored.
Period	Color green shows the period that motion detection is on, color white shows the period that motion detection is off.
Record channel	Start recording when alarm is given. Is on, is off.
Alarm output	Link to external alarm device. Is on, is off.
Send Email	Is on, is off.
FTP	Is on, is off.
Log	Create log. Is on, is off.
Snapshot	Is on, is off.

5.4.13 VIDEO BLIND

Instruct the camera to give alarm when the lens is blocked. The alarm can also be given by external alarm device. It can also trigger related operations as video recording, sending Email, create log and snapshot. The device's sensibility ranges from 1 to 6. User can adjust the sensibility of the camera according their need. Set

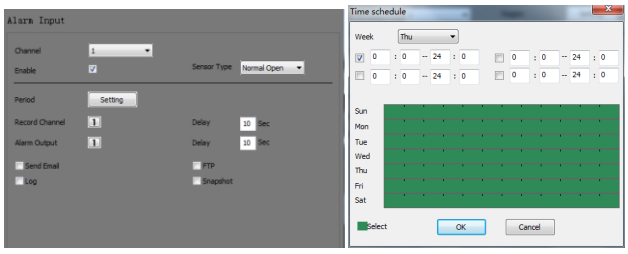
the alarm time in [period]. Click the button beside [record channel] and [alarm output] to turn on or to turn off linkage feature. Blue button means linkage is on, white button means linkage is off. When video blind feature is on, corresponding configurations should be done in the system settings. To turn on [send Email] and [FTP] function, corresponding configurations should be done in network settings.



Parameter	Note
Enable	To turn on or to turn off video blind feature. Is on, is off.
Sensibility	Range from 1 to 6. 1 is the lowest, 6 is the highest. Default is 3.
Period	Color green shows the period that video blind feature is on, color white means the period that video blind feature is off.
Record channel	Is on, is off.
Alarm output	When the alarm output is on, the device can link to external alarm device to give alarm. Is on, is off.
Send Email	Is on, is off.
FTP	Is on, is off.
Log	Create log. Is on, is off.
Snapshot	Is on, is off.

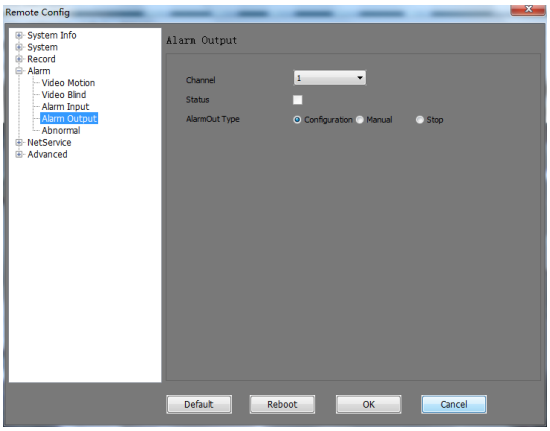
5.4.14 ALARM INPUT

The camera can be linked to external alarm input devices such as infrared sensing device which can detect outside environment. If the sensor type is [normal open], operations like sending Email will be triggered at high level (electricity). If the sensor type is [normal off], related operations will be triggered at low level. Click the button beside [record channel] and [alarm output] to turn on or to turn off linkage feature. Blue button means linkage is on, white button means linkage is off. If [record channel] is on, the camera will record when alarm is given. Select [alarm output] to give alarm in the preview screen or via an external device. Alarm period can be customized. Please refer to 5.4.13.



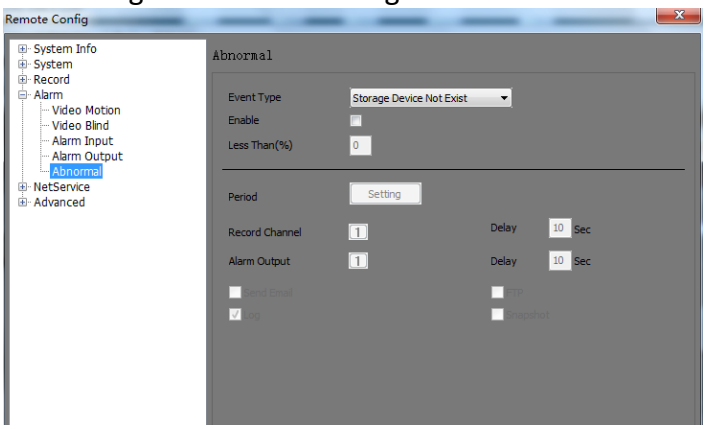
5.4.15 ALARM OUTPUT

When the motion detection feature is on, if there is an alarm given, it will be displayed in the preview window. Alarm can also be given by external devices. Choose [configuration] to detect motion and video blockage. Alarm will be given once motion or blockage is detected. Choose [manual], select status to turn on alarm output. If [status] is not selected, the alarm output is off. Choose [stop] to turn off alarm output.



5.4.16 ABNORMAL

Process abnormal states of the device, including storage device not exist, capacity shortage, fail access to SD card, IP address conflict and network anomalies. Adjust Email and FTP settings in network settings. Please refer to 5.4.13.



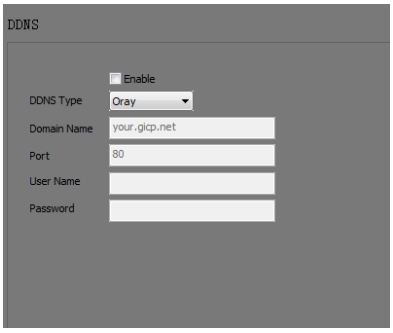
5.4.17 DDNS

Network service includes DDNS, Email, FTP, PPPOE, UPNP, WIFI and RTSP.

DDNS: use it during remote visit. Embedded device type: Oray, DynDns, NO-IP and MYQ-SEE. User can choose according to their need. Here is an example of a camera whose IP address is 192.168.100.123.

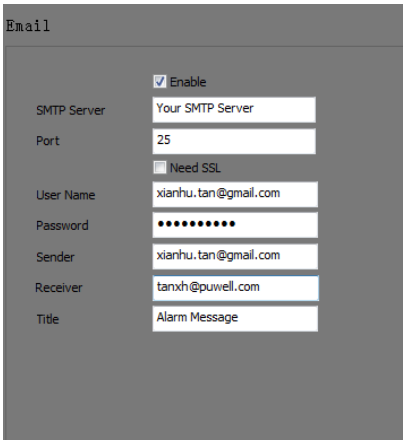
Map port on the broadband cat router, HTTP and TCP ports need to be mapped.

Adjust DDNS. After the settings, connect the camera to the mapped router. Input [test.xicp.net] to access to the camera via Internet.



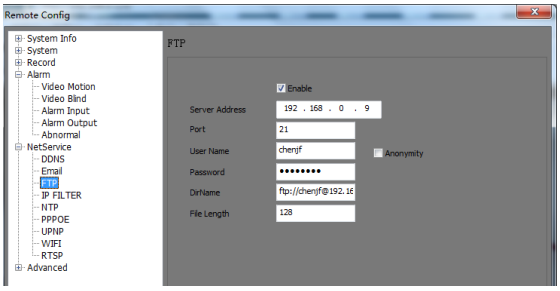
5.4.18 EMAIL

SMTP server is the server of the mailbox that send the Email. User name is the sender's Email address. Sender's name is the same as the user name.



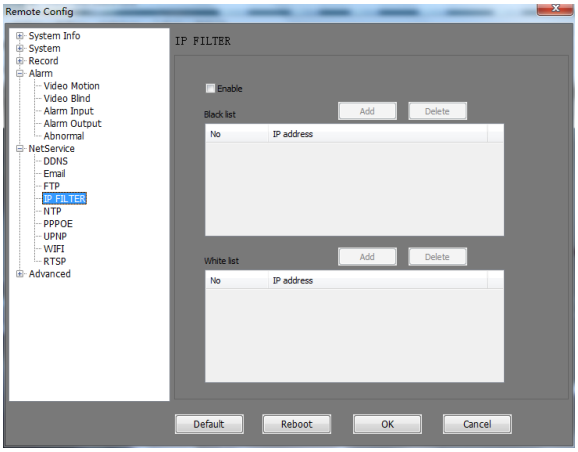
5.4.19 FTP

Upload information as alarm video, alarm snapshot, log and so on to FTP server.



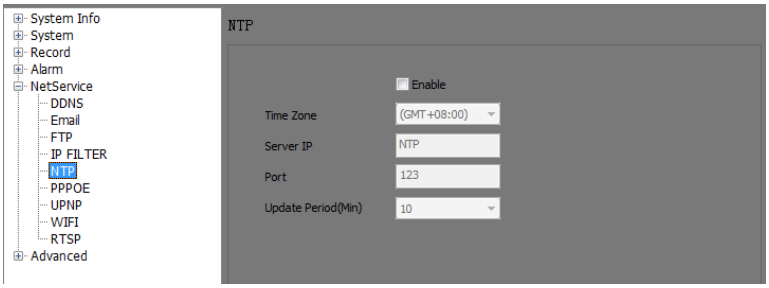
5.4.20 IP FILTER

Set black list and white list. Black list refers to the IP addresses that are banned to access to the camera. White list refers to the IP addresses that are allowed to access to the camera.



5.4.21 NTP

Network time protocol automatically synchronizes the time to the network time.



5.4.22 PPPOE

Connect the device to network cable that is linked to the broadband cat. Connect to the Internet using user name and the password given by the operator. The IP address displayed below is a fake IP address. This function demands appropriate settings of DDNS or a fixed IP address from the operator.

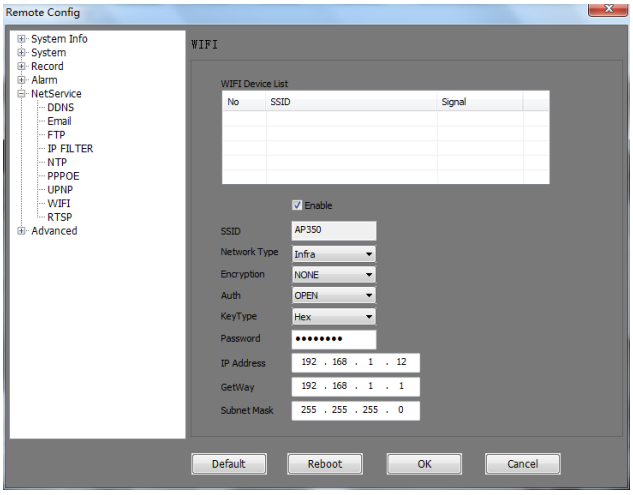
5.4.23 UPNP

Support external plug and play devices.

5.4.24 WIFI

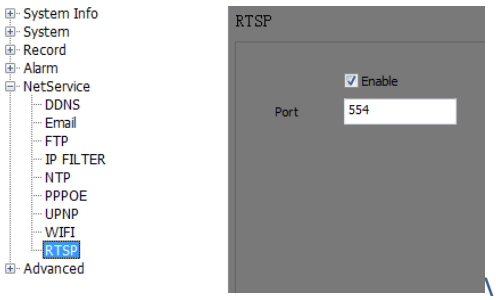
Connect to router through WIFI. Select the router that needs to be connected in the WIFI device list. Double-click to load camera's parameters. Enter password. IP address can be customized but it must be in the same network segment of the

router. Once connected, the device can be accessed to through the IP address customized here.



5.4.25 RTSP

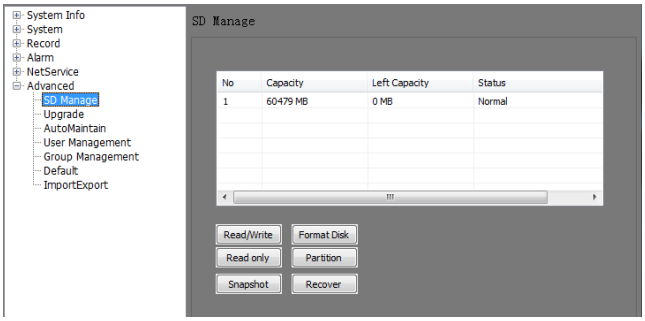
The device can be accessed to via media like VLC which support RTSP. Default port is 554. Address is: rtsp://192.168.1.126:554/user=admin&password=123456&channel=0&stream=0.sdp?real_stream



5.4.26 SD MANAGE

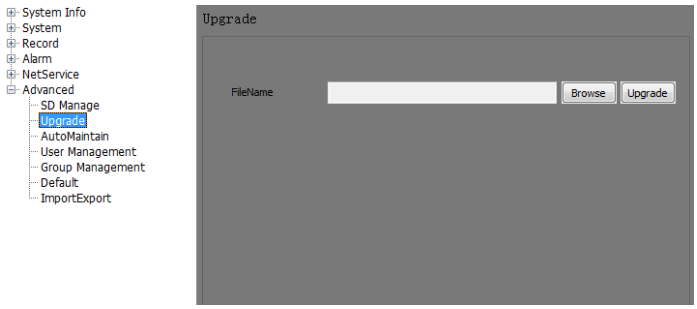
Manage tools include SD manage, upgrade, auto maintain, user management, group management, default and import/export.

SD manage, shown as below, can manage the SD card. It works for the SD card or for the TF card that is being used. User can choose read/write, disk formatting, partition, recovery and so on.



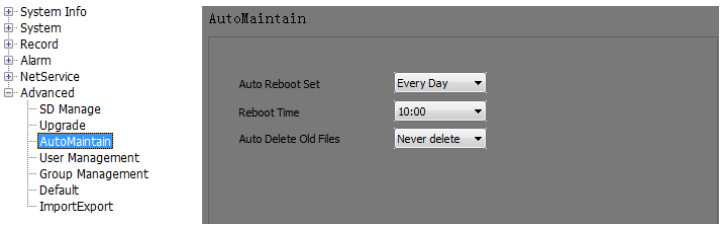
5.4.27 UPGRADE

Click [browse] to choose the new firmware and click [upgrade] to upgrade.



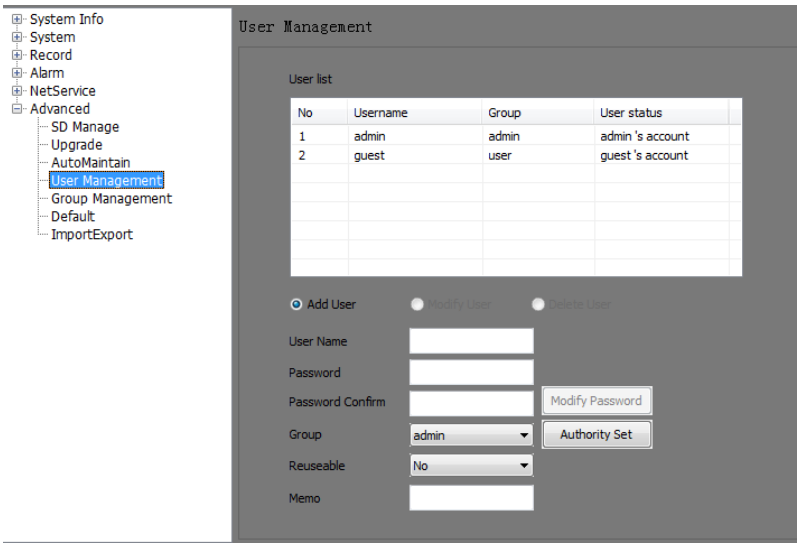
5.4.28 AUTOMAINTAIN

Set auto reboot time.



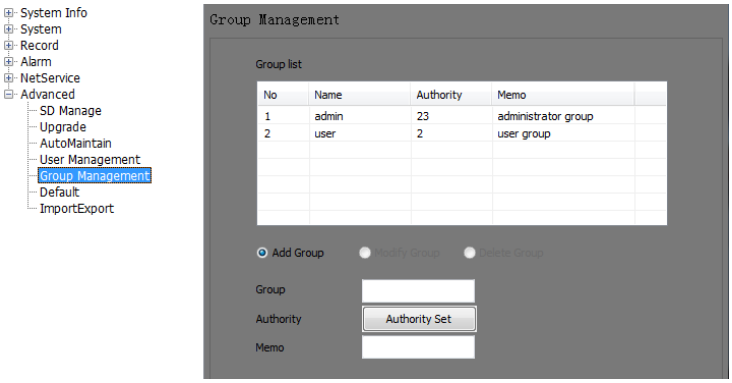
5.4.29 USER MANAGEMENT

User can add, modify, delete and change authority of other users. If the user wants to manage another user, select the user that need to be managed, for example: admin, select [modify user], click [modify password] to change password, click [authority set] to modify his/her authority.



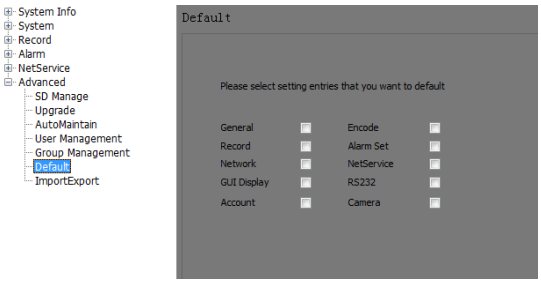
5.4.30 GROUP MANAGEMENT

User can manage every group in group management: modify password, set authority and add new group.



5.4.31 DEFAULT

Select the configuration that the user wants to default, click [save] to reset to factory settings.



5.4.32 IMPORT EXPORT

After the configuration, choose [config export] to download the back-up file. Choose [config import] to upload file to restore configuration.

6 MOBILE PHONE ACCESS

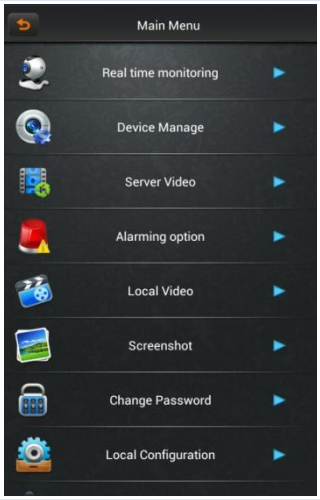
Android or IOS smart phone is available to access via 3G or WiFi hotpot.

6.1 UMEYE PRODUCT OVERVIEW

UMeye cloud server platform is the best mobile surveillance solution for the internet era. It consists of three parts that's front- end acquisition devices, platform severs and remote viewing.

6.2 THE MAIN FUNCTIONS

- Main function：
- register login, forget password
- real-time preview
- device management
- (Add, delete, modify)
- remote playback
- alarm management
- local playback
- images preview
- modify password
- the local configuration



6.3 THE APPLICATION INSTALLATION

IPhone client requires IOS 4.3 and above; Android client requires android 2.2 and above.

6.4 ATTAIN THE APPLICATION

APPLE mobile users：Search umeye in app store to install it.

Appstore software QR code：

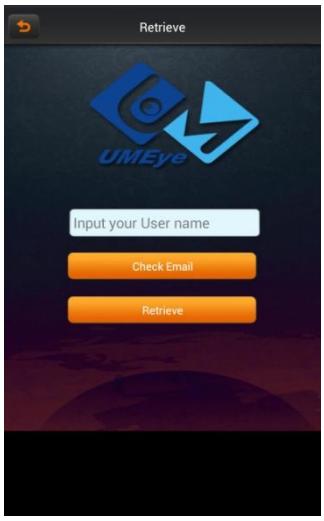
Android mobile users：Search umeye in google play to install it.

software QR code：

6.5 THE LOGIN INTERFACE INSTRUCTION

Please click UMEYE 

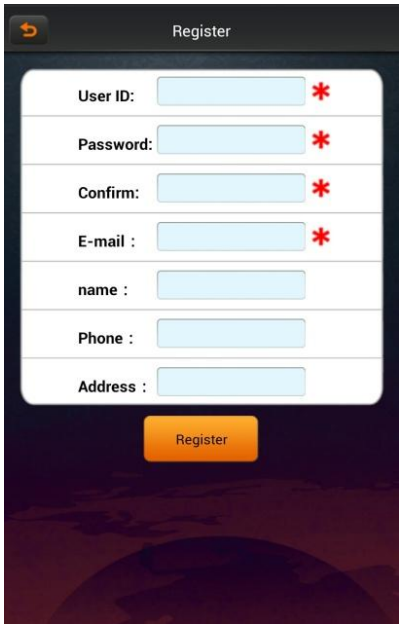
icon after the application installed, then it will run. The start programs enter login interface just like the following figure:



icon	Instruction
	set the server address, the default is: app.umeye.cn:8300
	after click, it will be save the last time login password when you login again.

- User register

The user need to register a new account at the first use, this account used as cloud storage our users' information and the related devices. Click "register" button and jump into the register interface in the login manual.



***Item must fill**

User name: User during login

password: Login password (at least 6 figures)

confirm password: re- enter the password

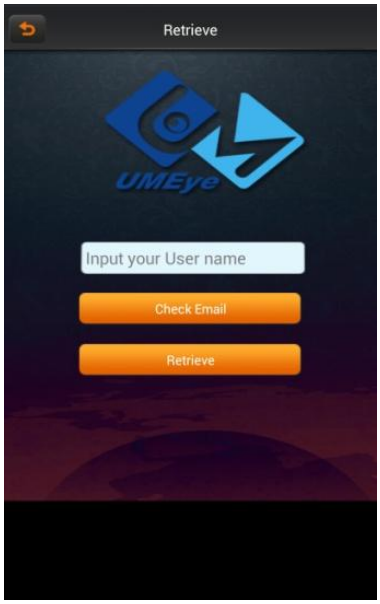
mail box: Secret keeping mailbox for when you forget password you can reset it.

Real name: Optional item can be filled or not filled.

Contact number: Optional item can be filled or not filled.

- Retrieve password

Click "retrieve password" button in the login interface then enter "retrieve password" page.



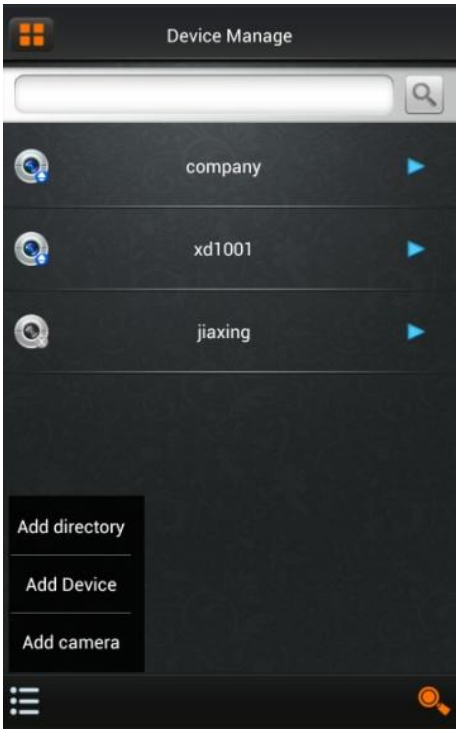
1 Input username

2 Click “retrieve password”, the system will send the retrieve password line to the certain mailbox which you set when you registered then enter the mail box to set password basic on the prompt.

3 If you forget the mail box, you can through “retrieve mailbox” to view mail address.

6.6 DEVICE MANAGEMENT

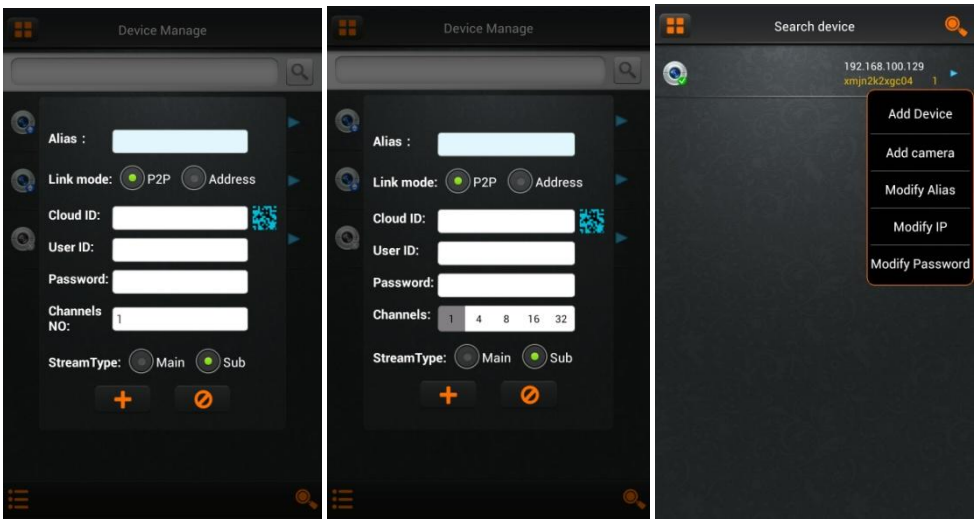
After enter the main manual select “device management” then enter management page.



icons	Instruction
	Return to the main manual
	Click it then pop up the items to modify the parameter, name etc.
	Lens
	Catalogue
	Device
	Pop up items to add catalogue, device, lens.
	search local device

6.6.1 ADD DEVICE/ LENS

Click button add manually, or click button to add LAN device just like the following figure 3.2e, it support to add catalogue, device and lens.（Note：add multi- channel device such as：dvr、nvr . Select to add devices as following figure 3.2c,. Add single lens like ipc, select to add lens as following figure 3.2d，the most difference between device and lens are channel number and channel NO.）



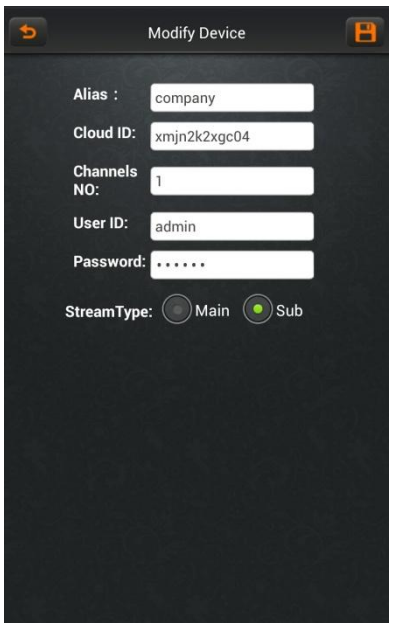
- **Name** ： it is the monitoring device's name, it can help you to identify the device location, it is recommended that you can name the device basic the device location then the name will be showed under the icon and showed in the title when playback.
- **Connection model**: P2P and ip address。P2P is used to connect by serial number; Address can be used as traditional ip address, DDNS or port to connect the device.
- **UMID**：The unique serial number of the device cloud. It can be attained by device label or LAN searching. You can also click the QR code button in the right of input box.
- **Username** ： Front- end device username, the default is admin.
- **Password** ： Front- end device password. It is match with the front- end username, the default is admin and details can be attained in label.
- **Channel number:** IPC just one channel, DVR、NVR device basic on the actual number to select.
- **Channel NO.:** set the parameter when you add the les. Ipc has one channel so fulfill 1，if you need to add one of lens of the dvr or nvr, it should depend on the certain channel to fill and start at 1.

After fill the settings, click the button to save it then click return to "device lists" interface. Turn back "device lists" interface, it support to view the

related device name, icon, device online status (icon is color  means online, otherwise, icon is gray  means off line)

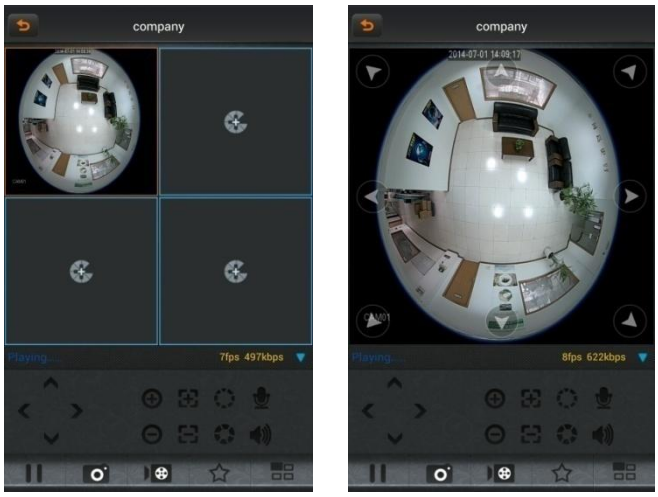
6.6.2MODIFY、DELETE DEVICE/ LENS

Click edit button on the right of the device  can pop up the modify menu like figure 3.3f， to modify the device name, connection parameter and remove operation; The connection parameter like UMID, username, password, channel number/no, stream type and so on that can be modify. After you modify saved in the following figure 3.2g:



6.7 REAL-TIME PREVIEW

Enter the real-time preview from the main interface, and you will see all device lists of all logged account. Click bottom-right button  can switch to the favorite lists (this list is the preview collection at the time of the camera). Click to view the real-time camera which you want. As follows:



Click the button  of the playing window to select a different camera, double-click the playing screen can zoom in the playback windows as shown in figure 3.3b. It support full screen to view when horizontal screen. Click the screen can pop up PTZ control as showed in figure 3.3c.

Figure 3.3c

Video motoring interface key features instruction as showed in the following figure:

Icon	Instruction
	Turn back to the main interface
	PTZ left and right control
	PTZ up and down control
	zoom in, zoom out

	zoom large or shrink
	aperture zoom
	open/ close intercom
	open/ close listening
	pause/ player
	snapshot
	open/close record
	favorite
	single or four screens switch

6.8 REMOTE PLAYBACK

The mobile client support to access remote device and request the records from hardware devices. The devices which should have storage and remote playback function. Click the camera which need to playback then click “done” after select search type, time, it will list remote video lists then click the list items to playback：

Figure 3.4a

Figure 3.4b

Figure 3.4c

6.9 ALARM MANAGEMENT

Access to “alarm management” in the main interface and select the camera which need alarm management.

Icon	Instrucion
	Unguard
	Guard
	Click then pop up Manu items
	Set up defense, start alarm
	withdraw defense, cancel alarm
	set alarm notice way
	View alarm records

6.9.1ALARM RECORDS

Click button  to select “alarm records” and enter to record lists. It displays all alarm records for open guard of the device.

icons	Instruction
	return to alarm management
	edit alarm information
	play the selected camera
	delete alarm records
	unguard, cancel alarm
	Page up
	Page down
	search alarm records

6.10 LOCAL PLAYBACK

After mobile phone client record, the videos clips will save in the mobile phone directly.

6.10.1PLAY RECORDS

Click a section of records, such as: 20130910145429.mp4 will play.

6.10.2DELETE

Click to edit button "  ", local playback lists and video lists will become to edition state

Figure 3.6b

Select record options which need to delete, click button  will delete the selected records.

6.11 BROWSE IMAGES

All images of album are captured from the mobile phone real-time preview. Also, you can view these images, save and delete in bulk. Specific steps same as section 3.6.

6.12 MODIFY PASSWORD

Enter the main manual “modify password” option to modify the user password that’s login account password. Modify interface as shown in figure 3.8a.

input the original password then input new password. Click button to save it.

Figure 3.8a

6.13 LOCAL CONFIGURATION

Enter the main manual “local configuration” option, into the interface as follows figure 3.9a：

Functions	Instruction
PTZ step	camera PTZ rotation rate setting
Do not disturb model	alarm information prompt switch
Alarm voice	alarm voice switch

Click button to save the current

6.14 LOGOUT

Click on the “logout” to exit the current account and return to the login interface.

6.15 LANGUAGE SWITCHING

The software language will be changed if mobile phone operating system language has been changed. For example, the mobile operation system language change to English, the application client language will replace the language as English.

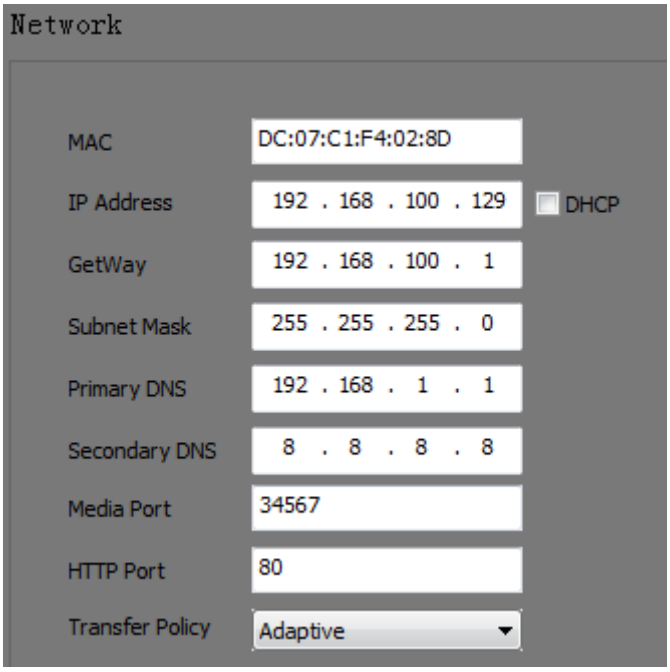
7 MORE INFORMATION

7.1 ROUTER MAPPING

SETTING METHOD 1

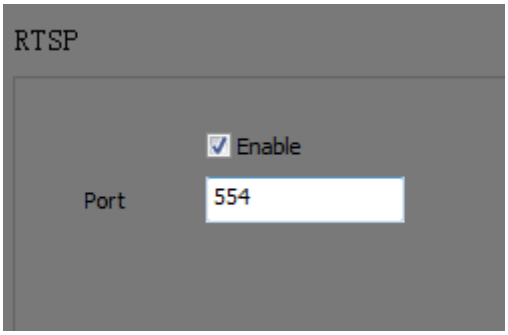
Step1: Open the IE explorer， input the IP address of the IP camera, the default IP address of the camera is 192.168.0.123. And input the user account and password to login, the default account is admin, password is 123456. Then open the configure window.

Step 2: Open the network setting, click the Ethernet setting, modify and confirm the IP and DNS, and save. Please make sure the IP camera could access from the LAN network.



IP camera network setting

Step 3: Media stream setting



IP camera media stream setting

Authentication---Enable

Media Access Port---554

Media Access Protocol---TCP

Meadia Port---34567

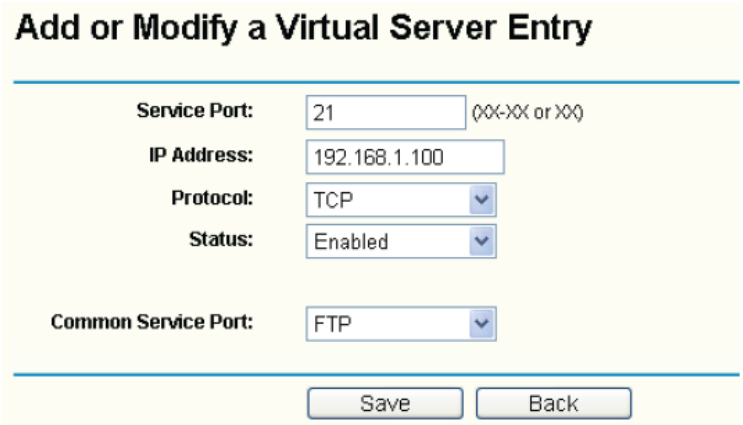
Http Port---80

Save the setting and the camera setting is finish.

Notice: These 3 ports need to be configured on the Network Router, and the Access Protocol must be TCP protocol.

NETWORK ROUTER SETTING

Step 1: Open the explorer to login the router setting window. Click the NAT or Forwarding, then open the Virtual Server setting window, click ADD.



Add new entry

Service Port: 554

IP Address: 192.168.100.129

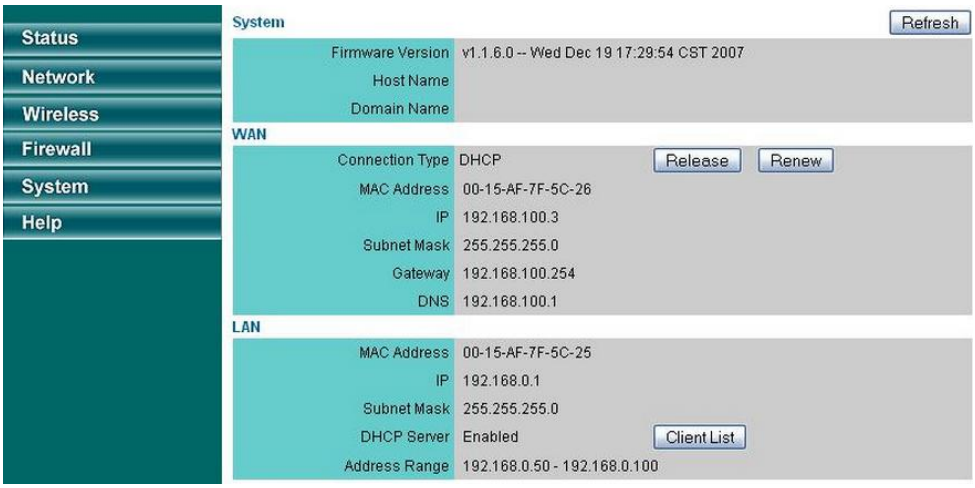
Protocol: TCP/ All

Status: Enabled

Common Service Port: no select.

Click Save. Then add the 80, 34567 ports as the same way. And you could refer to the router manual for the detail setting.

Step 2: Open the running Status of the Router,



Running Status

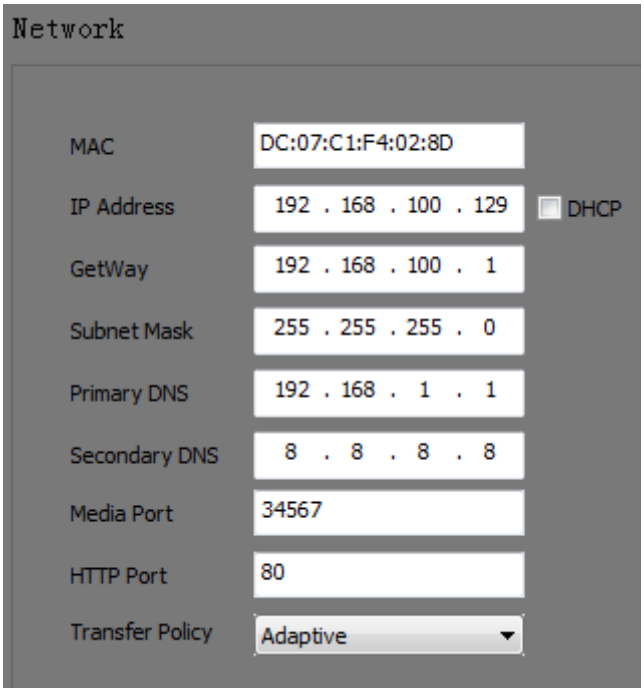
Find the WAN IP address.

Step 3: Open the IE Explorer and input the WAN IP address, then you could access the IP camera.

SETTING METHOD 2

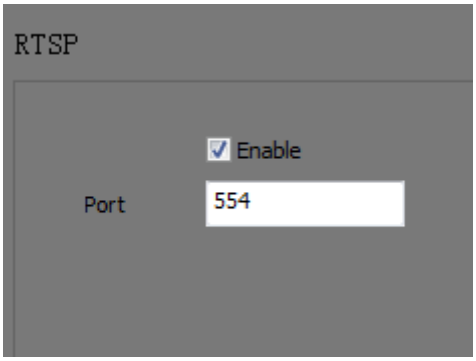
Step1: Open the IE explorer， input the IP address of the IP camera, the default IP address of the camera is 192.168.0.123. And input the user account and password to login, the default account is admin, password is 123456. Then open the configure window.

Step 2: Open the network setting, click the Ethernet setting, modify and confirm the IP and DNS, and save. Please make sure the IP camera could access from the LAN network.



IP camera network setting

Step 3: Media stream setting



IP camera media stream setting

Authentication---Enable

Media Access Port---554

Media Access Protocol---TCP

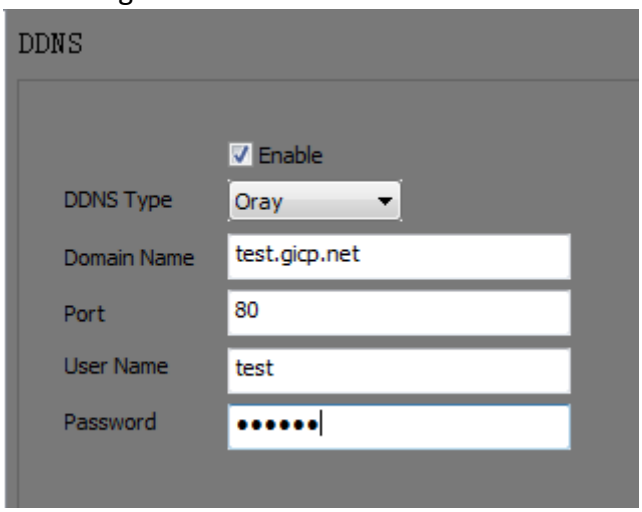
PTZ Control Port---34567

Web Access Port---80

Save the setting and the camera setting is finish.

Notice: These 3 ports need to be configured on the Network Router, and the Access Protocol must be TCP protocol.

Step 4: DDNS Setting



DDNS Setting

Enable DDNS: Enable

DDNS: Select a DDNS service at drop-down menu.

DDNS Server: Auto fill according the DDNS service selected.

DDNS Domain: Input the name of your DDNS account. If you don't have a DDNS account, please apply one on the relative website.

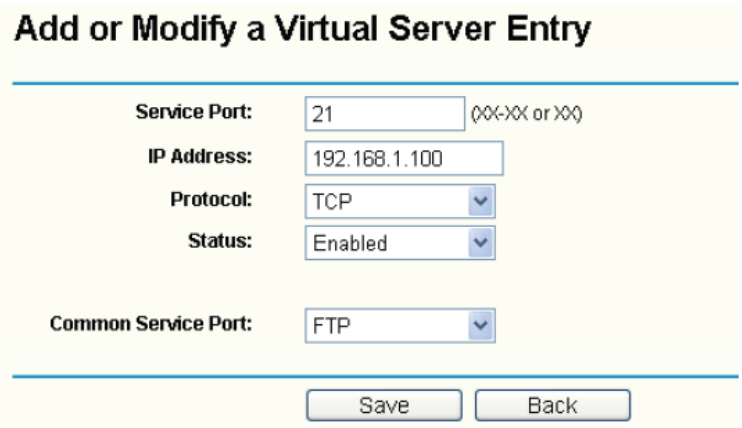
Refresh Time. Select the time.

Username, Password: According your DDNS account.

Then save the DDNS setting.

NETWORK ROUTER SETTING

Step 1: Open the explorer to login the router setting window. Click the NAT or Forwarding, then open the Virtual Server setting window, click ADD.



Add new entry

Service Port: 554

IP Address: 192.168.100.129

Protocol: TCP/ All

Status: Enabled

Common Service Port: no select.

Click Save. Then add the 80, 34567 ports as the same way. And you could refer to the router manual for the detail setting.

Step 2: Open the IE Explorer and input the DDNS Domain, then you could access the IP camera.

8 ANNEX ： TECHNICAL SPECIFICATIONS

8.1. HF-XD TECHNICAL SPECIFICATIONS

Item		HF-XD	HF-XD-I
Optical parameters	Lens	Fisheye lens, f=1.16mm, F=2.0	
	Field of view	Horizontal 185°	
	Iris	Fixed	
	Sensor	1/3" progressive scan CMOS	
	Pixels	1.3 megapixel	
	Sensibility	0.15Lux@F2.0(color)/0.015Lux@F2.0(black and white)	
	Infrared illumination	--	Omni-directional infrared illumination 3W@850nm
	Day and night switch	Auto switch IR Cut Filter	
Image	Rotation	Vertical and horizontal	
	Adjustment	Brightness, saturation, sharpness, contrast,Tone	
	Maximum resolution	1280×1024	
	Video code	H.264 Dual stream	
	Video stream	100Kbps~6Mbps	
	Maximum fps	25fps	
Audio	Microphone	Built-in	
	Pickup distance	6 Meters	
	Audio code	G.711	
Panoramic Features	Panoramic display	360° panoramic expansion-view,180° 2 split-view, 90° 4 split-view Longitude and latitude correcting view(wall mounted)	
	PTZ	Digital PTZ	
Alarm	Motion detection	20X15 Regional detecting, Sensibility 1-6 adjustable	
	Alarm output	Motion detection	
	Alarm reaction	Alarm Record/Image Snapshot, Alarm Video/Image Upload(FTP/Email)	
network	Protocol	TCP/IP，HTTP，DHCP，DNS，RTSP，FTP，SMTP，NTP，PPPOE	
	compatibility	ONVIF 2.0	
Port	Communicate port	RJ 45×1 10M/100M Ethernet.	
	Electricity port	Φ 5.5-2.1mm round DC outlet	
	Local storage	UP to 128G SD card	UP to 128G Micro SD card
General parameters	Power Supply	DC12V±10%,1A	
	Power consumption	<6W	
	Operating condition	-15℃~+50℃@ humidity 10%~ 95%	
	Storage condition	-40℃~+75℃@ humidity 10%~ 95%	
	EMC	CE，FCC	
	Housing	Plastic（White）	Plastic（Black）

	Protection class	IP50
	Product size	Φ148×53 mm
	Package size	183×183×75mm
	Weight	Net weight：0.5kg
	Optional Function:	Wifi;POE

8.2. HF-TA TECHNICAL SPECIFICATIONS

Item		HF-TA1001	HF-TA-1101
Optical parameters	Lens	1/3" Fisheye lens, f=1.29mm, F=2.0	
	Field of view	Horizontal 185°	
	Iris	Fixed	
	Sensor	1/3" progressive scan CMOS	
	Pixels	1.3 megapixel	
	Sensibility	0.15Lux@F2.0(color)/0.015Lux@F2.0(black and white)	
	Infrared illumination	Omni-directional infrared illumination 3W@850nm	
Image	Rotation	Vertical and horizontal	
	Adjustment	Brightness, saturation, sharpness, contrast,Tone	
	Maximum resolution	1280×1024	
	Video code	H.264 Dual stream	
	Video stream	1024Kbps~5120Kbps	
	Maximum fps	25fps	
Audio	Microphone	Built-in	
	Pickup distance	6 Meters	
	Audio code	G.711	
Panoramic Features	Panoramic display	360° panoramic expansion-view,180° 2 split-view, 90° 4 split-view Longitude and latitude correcting view(wall mounted)	
	PTZ	Digital PTZ	
Alarm	Motion detection	20X15 Regional detecting, Sensibility 1-6 adjustable	
	Alarm output	Motion detection	
	Alarm reaction	Alarm Record/Image Snapshot, Alarm Video/Image Upload(FTP/Email)	
network	Protocol	TCP/IP，HTTP，DHCP，DNS，RTSP，FTP，SMTP，NTP，PPPOE	
	compatibility	ONVIF 2.0	
Port	Communicate port	4 pin Socket Connector 10M/100M Ethernet.	RJ 45×1 10M/100M Ethernet.
	Electricity port	Φ 5.5-2.1mm round DC outlet	
	Local storage	UP to 128G SD card	
General parameters	Power Supply	DC12V±10%,1A	
	Power consumption	<6W	
	Operating condition	-15℃~+50℃@ humidity 10%~ 95%	
	Storage	-40℃~+75℃@ humidity 10%~ 95%	

	condition	
	EMC	CE，FCC
	Housing	PC，White
	Protection class	IP50
	Fireproof class	UL94V-2
	Product size	Φ100×36.6 mm
	Package size	135×125×70mm
	Weight	Net weight：0.2kg
	Optional Function:	Wifi;3G

*Design, Specifications are subject to change without notice.