Dear users, the configuration for this camera is professional, so please read the user manual carefully before using the camera.

IP Camera

(B series)

User manual

2012-11 V4.19

WANSVIEW

IP Camera www.wansview.com

Statement

If the user manual can not help you to solve the problem, please call our technology center about the solutions. We will update the content for the new functions without notice.

Notice

1、 Installation Environment

- Keep away from the places for high-temperature, heat source and direct sunlight；
- Keep away from water and when get wet, cut off the power immediately.
- Avoid to use in damp environment, the reference range for operation humidity is below 85%RH.
- Avoid to use in overheating and too cold environment, the reference range for operation temperature is -10℃~ +50℃.
- Please install it horizontally or wall mounting, avoid to strenuous vibration place and not put other equipments onto the item

2、 Transport and Handling

- The package is well-designed to ensure the security during the delivery, so please do not change the package at random.
- Do not move the ip cameras from overheated to supercooled condition frequently, otherwise it will frost and shorten the service life.
- Do not move the item when is power on, otherwise the main board might be damaged.

Notice:

1. Please check the power supply before it is working
2. Be careful not to bang the camera or subject it to strong impacts or shocks.
3. Do not directly touch the optical components for the image sensor, if necessary, please place a clean and moistened cloth with alcohol and wipe the dirt gently; When not in use, please place the dust cover on to the item to protect the image sensor.
4. Do not aim the camera directly into the sun or at other intense light sources that could affect the image quality (it is not the problem for the ip camera), also shorten the service life for the image sensor.
5. Keep away from laser when it is working, otherwise the image sensor can be damaged.
6. If the equipment is not working properly, please contact the store or the service center, do not disassemble or modify the equipment in any way. （Problems caused by unauthorized modification or repair should be at your own risk.）

Index

1 PRODUCT INTRODUCTION 4

1.1 PRODUCT SUMMARY 4
1.2 PACKAGE FOR TYPICAL PRODUCTION 4

2 INSTALLATION GUIDE 6

2.1 OPERATION OF CONNECTING TO LAN 6
2.2 STEP FOR WIFI CONNECTING 8
2.3 OPERATION OF CONNECTING TO WAN 9

3 OPERATION OF IE BROWSER 10

3.1 VIEW VIDEO 10
3.2 NETWORK SETTINGS 12
3.2.1 Basic network setting 12
3.2.2 WIFI setting 12
3.2.3 ADSL setting 12
3.2.4 UPnP setting 12
3.2.5 DDNS Setting 13
3.2.6 MSN setting 14
3.3 ALARM SETTINGS 14
3.3.1 Alarm Setting 14
3.3.2 Mail Service Setting 16
3.3.3 FTP Service Setting 17
3.4 ADVANCED 17
3.4.1 User Setting 17
3.4.2 Multi-Device Setting 18
3.4.3 Other settings 18
3.5 MAINTAIN 19
3.5.1 Device Information 19
3.5.2 Alias Setting 19
3.5.3 Time Setting 20
3.5.4 Firmware upgrade 20
3.5.5 Restore Factory Default 20
3.5.6 User browsing Log 20

4 OPERATION OF OTHER SOFTWARE 21

4.1 OTHER WEB BROWSER 21
4.2 MOBILE PHONE SOFTWARE 21
4.3 CENTRALIZATION CONTROL 22
4.4 OTHER SOFTWARE 22

5 PRODUCT FAMILY FOR NCB SERIES 23

5.1 NCB546W CARD CAMERA 23
5.2 NCB541W PTZ CAMERA 23
5.3 NCB545W PTZ CAMERA 24

5.4 NCB540W PTZ CAMERA 24
5.5 NCB547W PTZ CAMERA 25
5.6 NCB543W WATERPROOF CAMERA 26

1 Product introduction

1.1 Product summary

Thank you for choosing our company's B series IP camera, the IP Camera combines a high quality digital video camera with network connectivity and a powerful web server to bring clear video to your desktop from anywhere on your local network or over the Internet. It is very suitable for family, shops, office building and so on.

Main features for B series：

- The video is compressed by MJPEG. There are VGA/QVGA/QQVGA three video resolutions optional. User can changes some parameters according to their demands to satisfy his own visual prefer；
- Infrared LED for night vision covers 5m area, to realize 24 hours monitoring；
- Support mobile phone to view;
- Support 802.11b/g/n protocol, can build up wireless monitoring；
- Alarming record can be stored by email, FTP server. External alarm will be active when detecting unusuality;
- Built in web server，All data is transferred through one port; it is easy for user to do the network setting;
- Manufacture attached a label at the bottom of each IP Camera, it include Device ID, DDNS. When IP Camera is connected to the internet, this URL can be used to visit the device;
- Manufacturer provides free software, support Multi-view, Long time recording, video playback etc;
- Manufacturer provides free mobile phone software.

1.2 Package for typical production

Accessory / Type	Power adaptor	CD	Cable	Stand of plastic	Antenna
NCB546W Card camera	5V	√	√	√	Built-in

 NCB541W PTZ camera	5V	√	√	√	√
 NCB545W PTZ camera	5V	√	√	√	√
 NCB540W PTZ camera	5V	√	√	√	√
 NCB547W PTZ camera	5V	√	√	√	√
 NCB543W Waterproof camera	5V	√	√	√	√

Notice:

- If you choose IP camera with wireless function, so it includes wifi module inside the camera and antenna in package.
- Please check carefully if all listed items are included in the package, if anything missing, please contact vendor in time.

2 Installation guide

2.1 Operation of connecting to LAN

- Power on the IP camera（please check carefully the voltage of power adaptor, don't insert incorrect power, otherwise it will damage the device）, connect IP camera to router by network cable, meanwhile, connect computer to the same router, example of figure 1.

Figure 1

- Insert CD to computer driver, double click "BSearch_en.exe" in the CD, will pop up the interface as figure 2, please operate as the following steps:

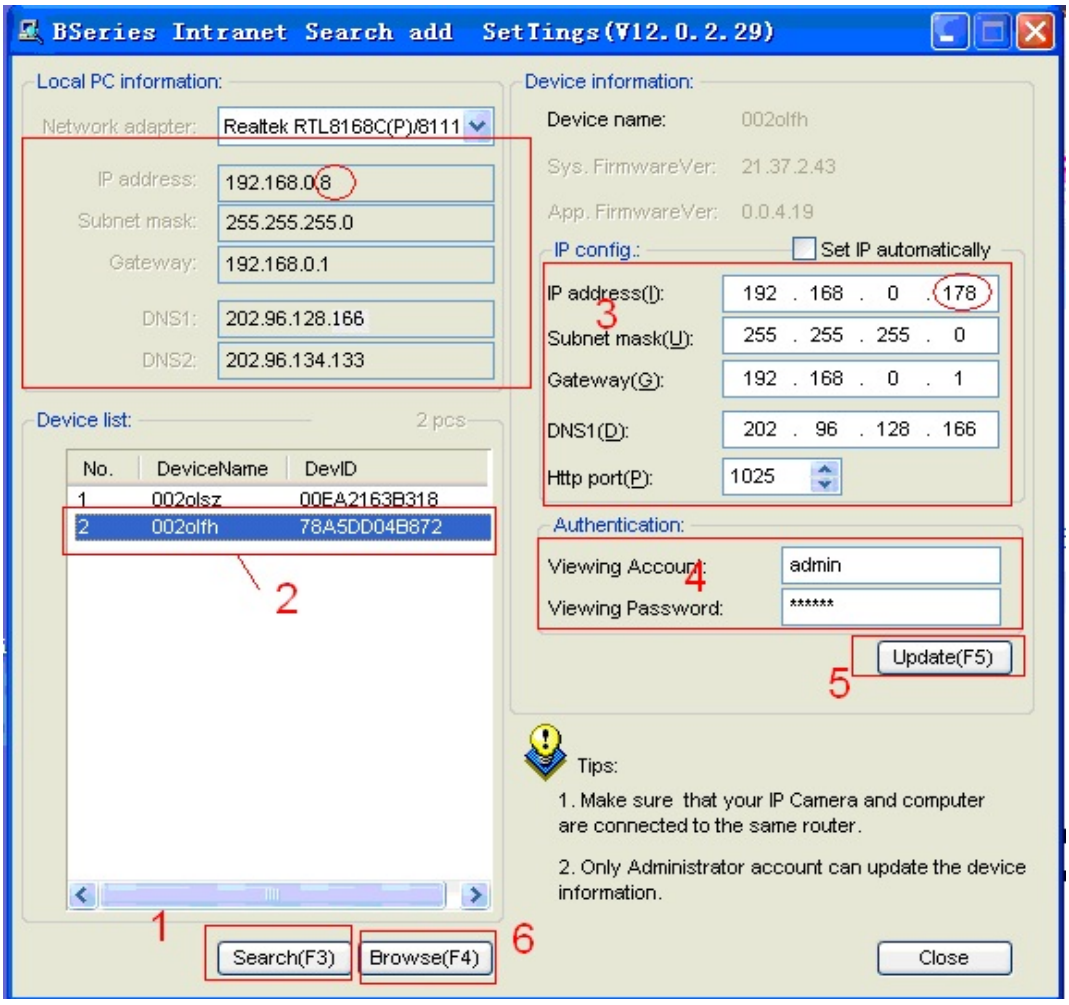

Figure 2

1) Click ‘Search (F3)’;
2) Choose a camera;
3) Change the ip address of the ip camera according to the information in the red frame on the left. The numbers in the red circle should not be the same. Http port should be a number between 80~65535;
4) Enter user name and password for the device, the default is “admin” and “123456”;
5) Click ‘update’;
6) After updating successfully, click “Search (F3)”, choose the device again and click “Browse (F4)”. Then you can run the web browser, enter user name and password and login IP camera to view the video, example of figure 3.

Notice：

1) Please check carefully the “Local PC information” in top left corner of the interface, if the computer has several network cards, please selects the one you are using.
2) If you installed the firewall software in your PC, when you run the BSearch_en.exe, it may pop up a window to say “whether you want to block this program or not”, then you should choose not to block。
3) The default ip address is 192.168.0.178 and default http port is 80。

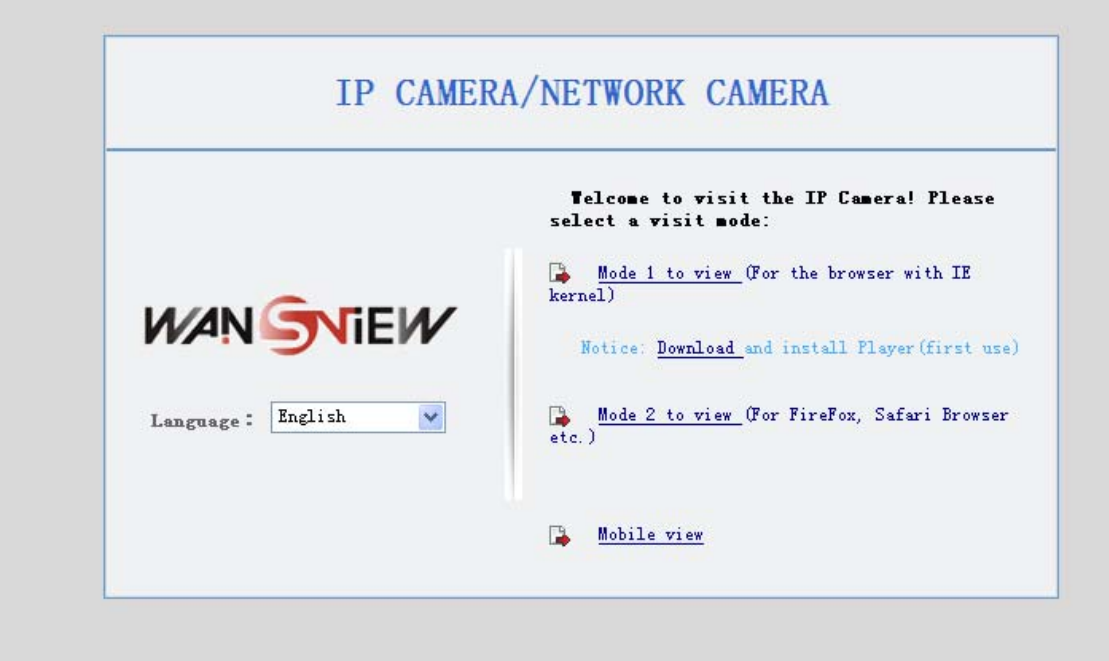

Figure 3 Interface for view video

We suggest using IE kernel browser to view the video （it can provide more functions）, but user needs to install video player before viewing the video. Click “download and install player (first use)” link, it will popup dialogue box as Figure 4, click Run, it will download player and install automatically.

Figure 4

Notice:

- You can hold on reset button on the camera for 10 seconds to restore factory default if you forget user name and password, during the process, don't disconnect the power, otherwise the camera maybe damaged;
- If the camera has status indicator LED, you can view the status of camera via the LED: slow flicker(every two seconds), indicate the camera is searching network; flicker(one to two times per second) indicate it uses wired network; fast flicker(three to four times per second) indicator it uses wireless network.

2.2 Step for WIFI connecting

After finishing the wired connection as chapter 2.1, you can connect the camera with wifi by wireless connection.

Login camera in wired connection and enter wifi setting, and then operate as the following step, example of figure 5.

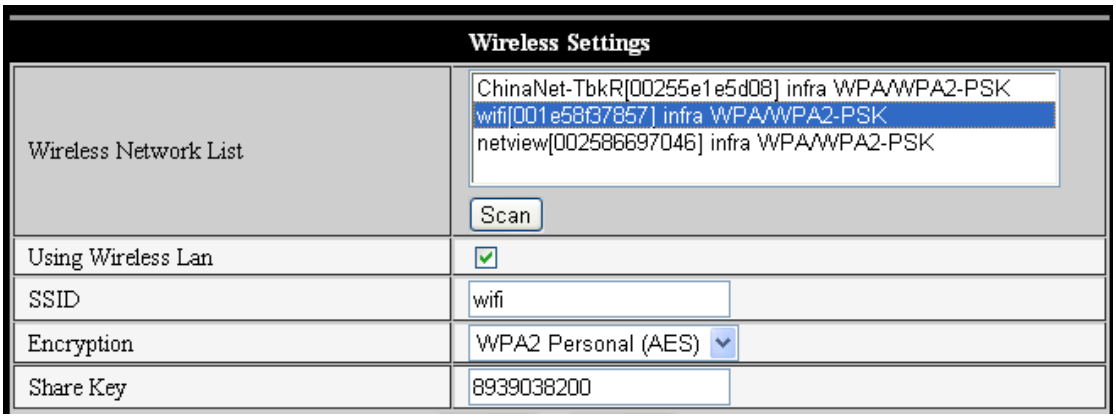

Figure 5

Enter the Wireless LAN Setting, just as Figure 5 shown, click the "Scan" button, it will show you all the wireless networks detected in the Wireless Network List column. Select one of them and tick "Using Wireless Lan", then the relevant data of the selected wireless network will be shown in the following blanks. Input the password and click "Set", then the WIFI setting is finished.

Notice：When the device is connected both WIFI and wired, it will firstly connect to the wired network, if it can't be connected, then it will changed to connect to the wifi. The IP address and port is the same, either wireless or wired network.

2.3 Operation of connecting to WAN

You should connect the LAN network first and do the port forwarding, connect as figure 6.

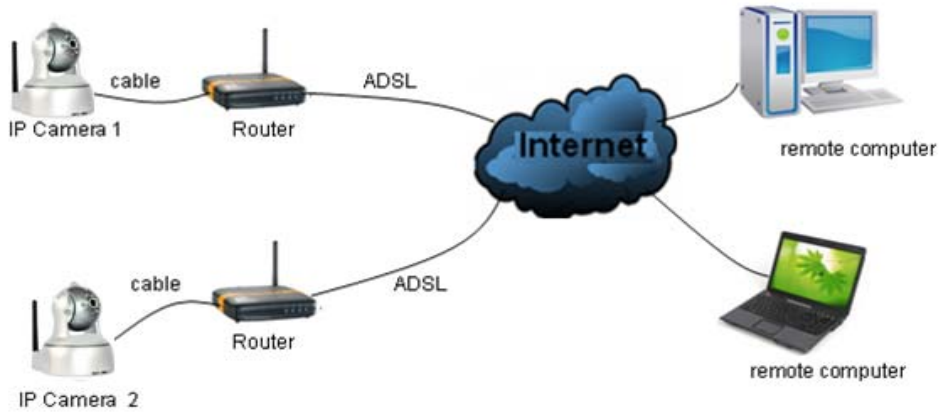

Figure 6

If visit IP Camera from WAN, you **must** do port forwarding on the router. Example of figure 7.

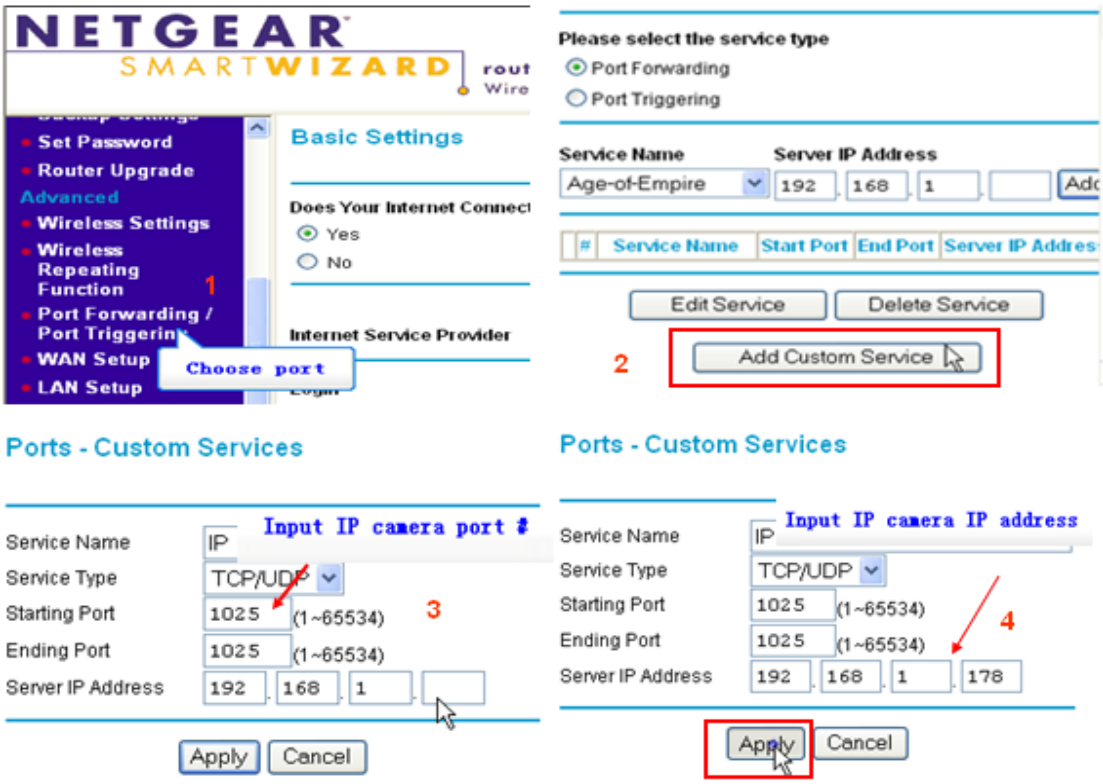

Figure 7 Router setting

Operation Steps:

1) After login the interface of the router，choose “Port Forwarding”
2) Choose “Add custom Service”
3) Input IP camera port.
4) Input IP address of IP camera，click “Apply”。（the http port and ip address should be the same as figure 2 which set by you own)

After finishing the port forwarding, you can use WAN IP address of router and http port of camera to visit the camera by remote computer as figure 6.

Notice: because the routers are different, so the interface and setting method of router are also different, how to do the port forwarding for various routers, please refer to the user manual of your router or consult with router manufacturer.

3 Operation of IE browser

3.1 View video

After installing the plug-ins, click “Mode 1 to view” link in Figure 3 to view the video (video as Figure 8).

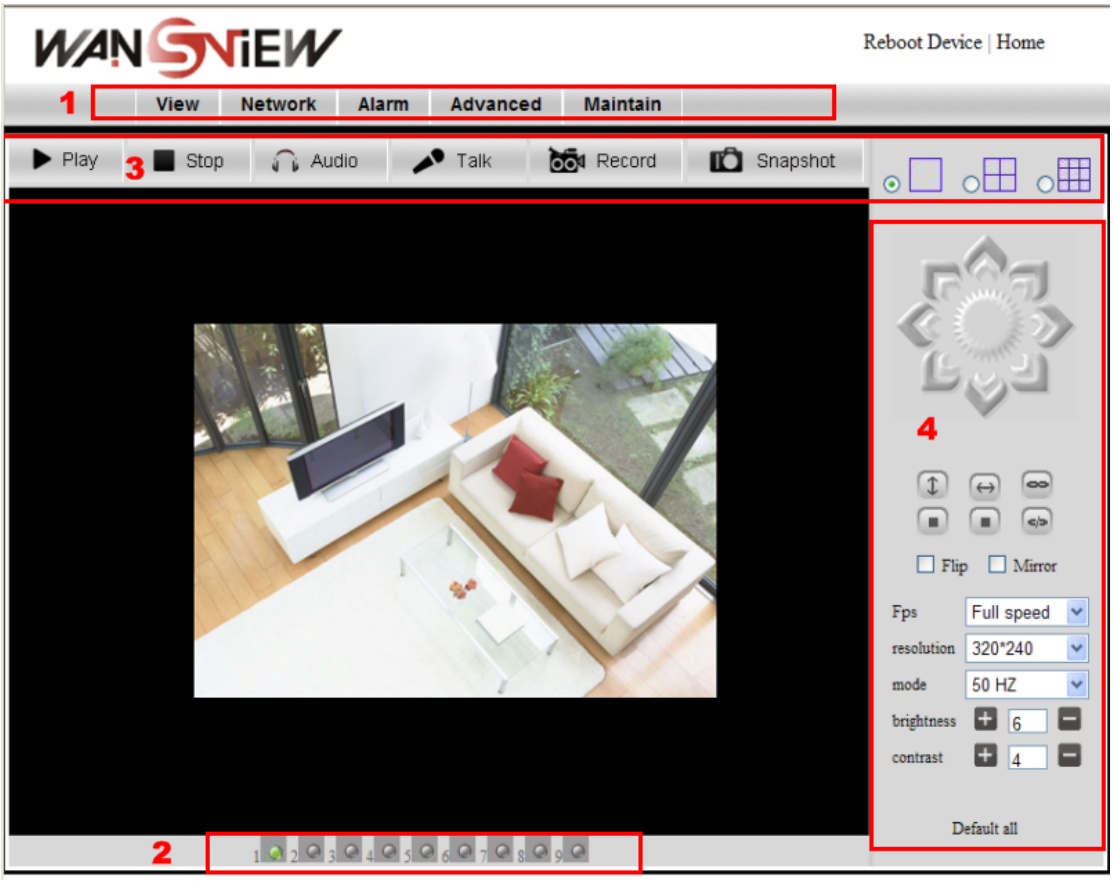

Figure 8 View video

1） Main Menu

The main menu includes the function setting of different submenu.

2） Status Displaying Area

Indicates the status for 9 devices:

- if unconnected, button is gray
- if connected, button is green
- If connected wrong, button is yellow
- If alarm , button is red

3） Multi Channel displaying area

If users added multi channel（refer to 3.4.2）, when shift to 4-Ch, 9-CH, and it will show other devices automatically. You select one device, and you can operate it by these keys: play, stop, and record, control Pan/tilt, etc.

These buttons mean play video, stop video, monitor, talk, record and snapshot. You can click these buttons to start corresponding function.

Notice: If you want to click this button

to record the video, please go to advanced—Other Settings to set the Record Path at first. Please see figure 9.

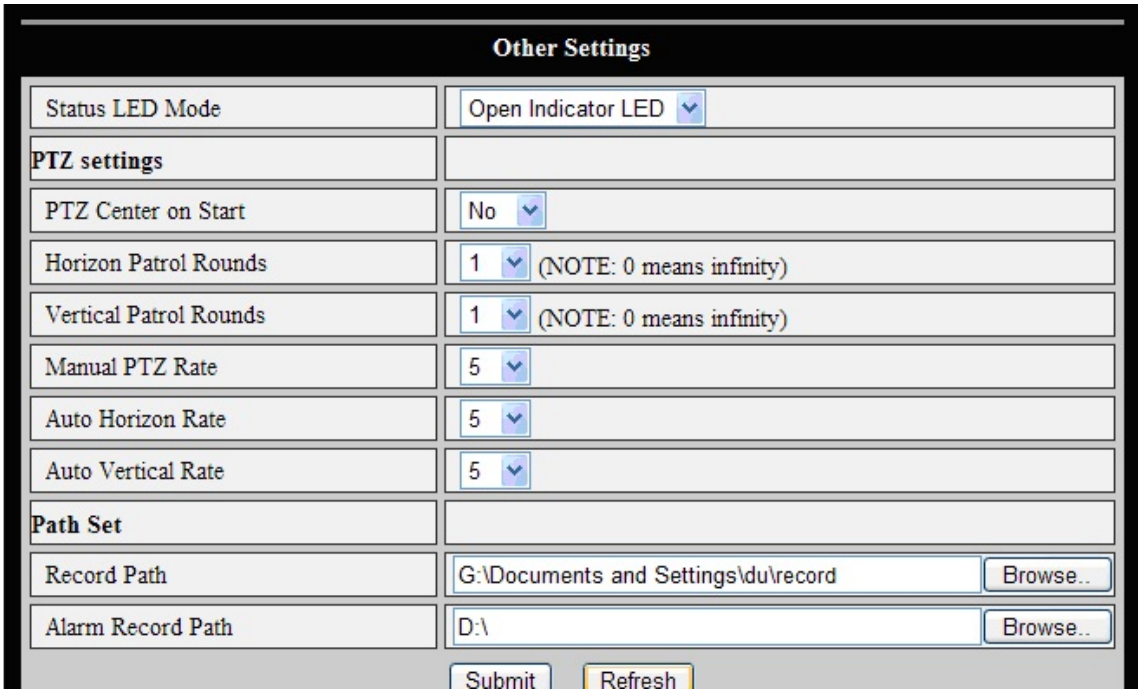

Figure 9 Other settings

4） PT and video control

In Pan/Tilt control area, user can control the position according to the arrow sign: up, down, left, right, middle, horizontal cruise, vertical cruise, and stop etc.

Means alarm output IO is normally open and normally close mode.

User can also set frame rate, resolution, brightness, contrast and other parameters of the device.

3.2 Network Settings

3.2.1 Basic network setting

The user can also enter the Basic Network Settings to set the IP address except using the search software. See below Figure 10.

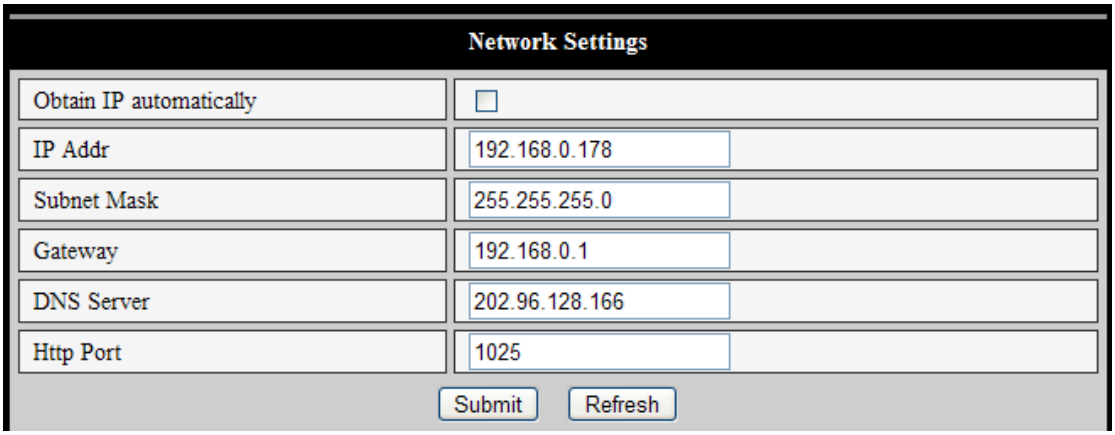

Figure 10 Network settings

3.2.2 WIFI setting

Please refer to chapter 2.2.

3.2.3 ADSL setting

User could enable the ADSL Dialup according to the below Figure 11 (The ADSL provider will assign the user name and password to you when you apply for ADSL service.) Connect the device directly to the ADSL modem and it is connected to the Internet.

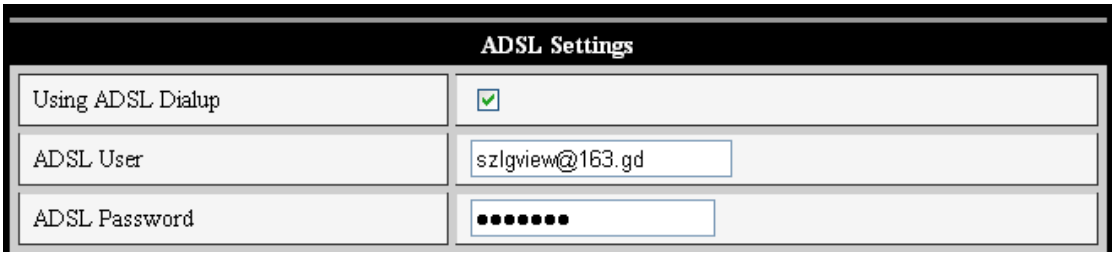

Figure 11 ADSL setting

3.2.4 UPnP setting

UPnP means plug and play, if you enable UPnP, once the IP camera is connected into the LAN, it will communicate with the router in the LAN and do the port-forwarding with open port of router automatically. In figure 12, you only tick “Using UPnP to Map Port” to finish the setting, you can check if the UPnP is successful in maintain interface.

Figure 12 UPnP settings

Before using the UPnP function, please make sure the router’s UPnP function has been

enabled. Not all the routers support UPnP perfectly. Please test if the router works well with the equipment, if not, we suggest you to disable this function and do the port-forwarding manually.

3.2.5 DDNS Setting

If doing port forwarding successfully, and visit the camera via ip address in WAN, you also can visit it via DDNS.

- **Manufacturer's DDNS**

Manufacturer puts a label of DDNS at the bottom of each IP Camera, it is unique，the manufacturer has established a DDNS system, and allotted a DDNS to every device, the user only enter the website into browser, and then view it from remote PC, example of figure 13.

Figure 13 Manufacturer's DDNS

- **Third Party DDNS**

User can also use third party DDNS, such as www.dyndns.com. User must apply a free domain name from this website and fill the info into the below blanks (Figure 14) and save the settings. Then the domain name can be used.

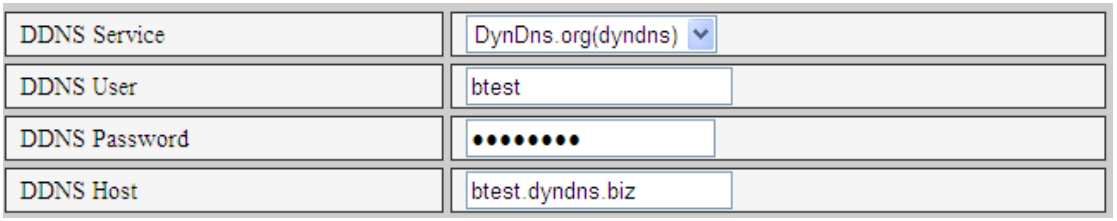

Figure 14 Third Party DDNS setting

Notice：Using the third party domain name, if the http port is not 80, the port number should be adding to the domain name with colon. Example: ***http://btest.dyndns.biz:81***.

3.2.6 MSN setting

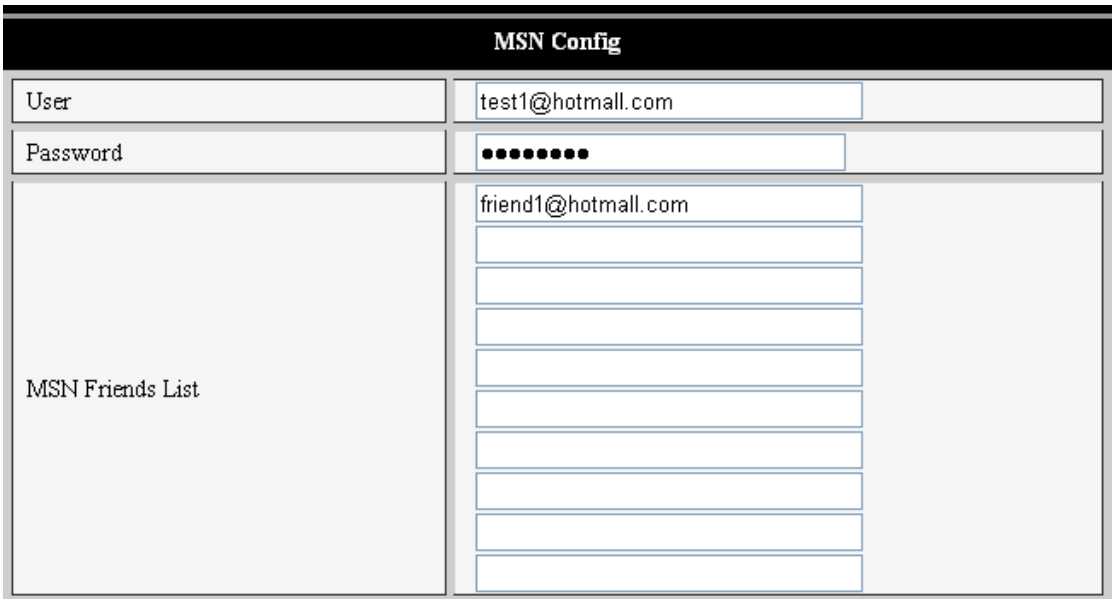

Figure 15 MSN setting

The user can apply MSN account number by himself, fill in account information in figure 15, and add friends to the number, the camera will display in friends list when it is connected, the friend only need to send “url?” to the camera, it will send its link in WAN to the friend, so the friend can use the link to visit the camera.

3.3 Alarm Settings

3.3.1 Alarm Setting

1） Alarm Detect

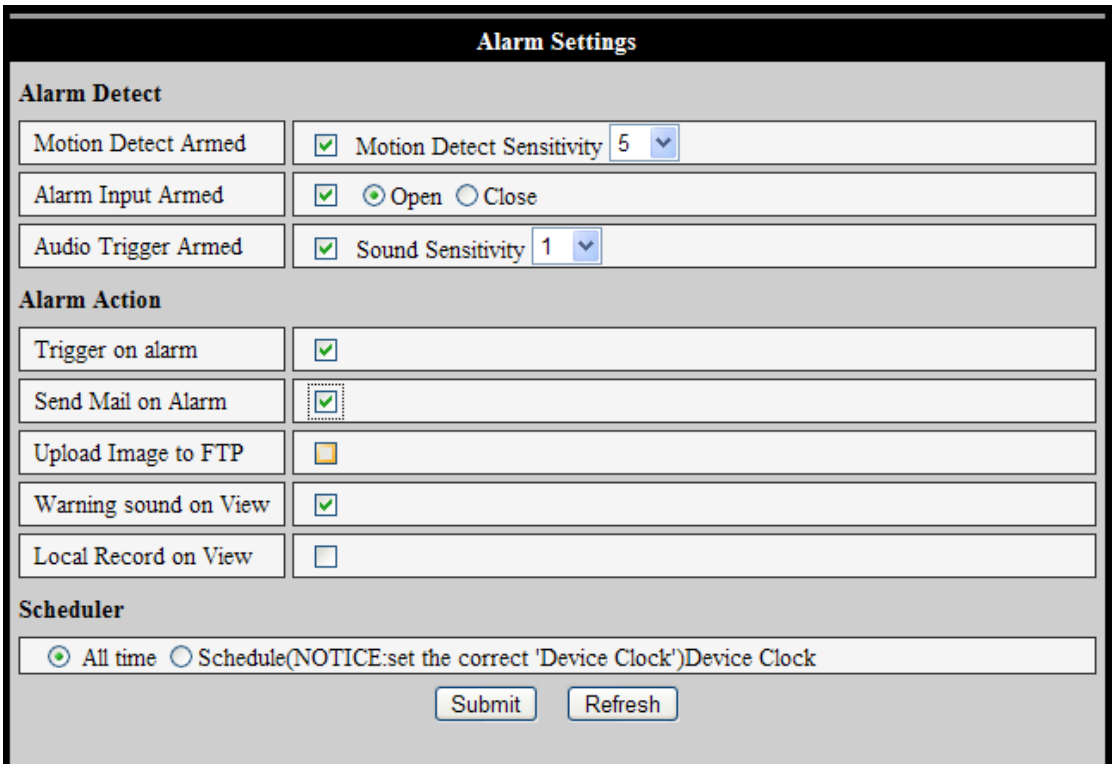

Figure 16 Alarm settings

- User can select the motion detection. If there is any motion, it will detect the motion and trigger the alarm. In the motion detect sensibility and sound sensitivity, the larger the figure, the more sensitivity.
- As showed in Figure 16, if any external alarm detector is connected, user will be able to tick “Alarm Input Armed”. If the external alarm detector is an always on switch alarm, please choose “open”. If the external alarm detector is always off switch alarm, please choose “close”.
- When active the audio alarming, the larger value, the higher sensitivity, easy to trigger alarm.

2） Alarm action

After triggering the alarm, you can adopt several alarm mode in scheduled time, example of figure 16.

- IO interface for alarm signal output: when relay is switched on, the external alarm will begin to alarm；
- Send alarm info by email；
- Send the site pictures to the FTP server, user can also set the interval time between two pictures；
- Alarm to active audio：once the camera detects alarm, you can hear the beeps from the computer；
- Alarm to active record：once the camera detects alarm, it will launch the alarm recording and record it to the computer.

3） Scheduler

Device will trigger alarm in scheduled time. User can set schedule time to be “all the time”. Before you set “Schedule”, please go to Date and Time settings to set the correct time for the item, as shown in figure 17.

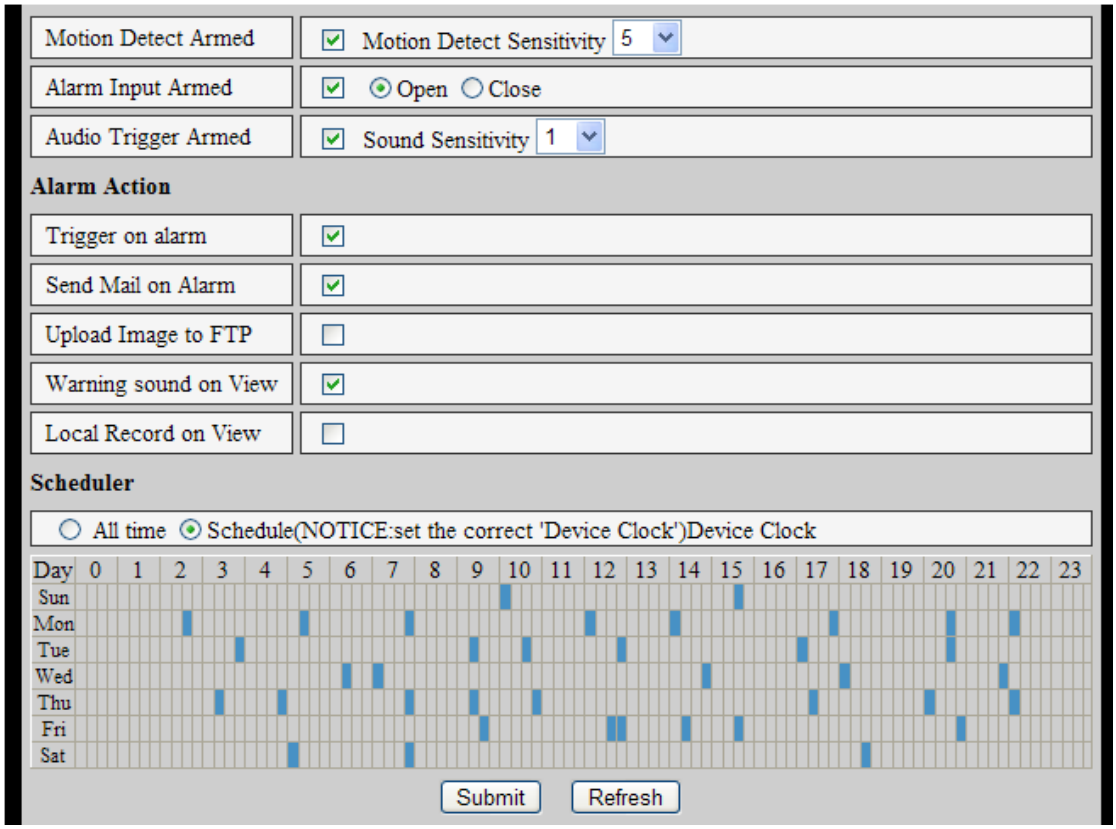

Figure 17 Schedule interface

3.3.2 Mail Service Setting

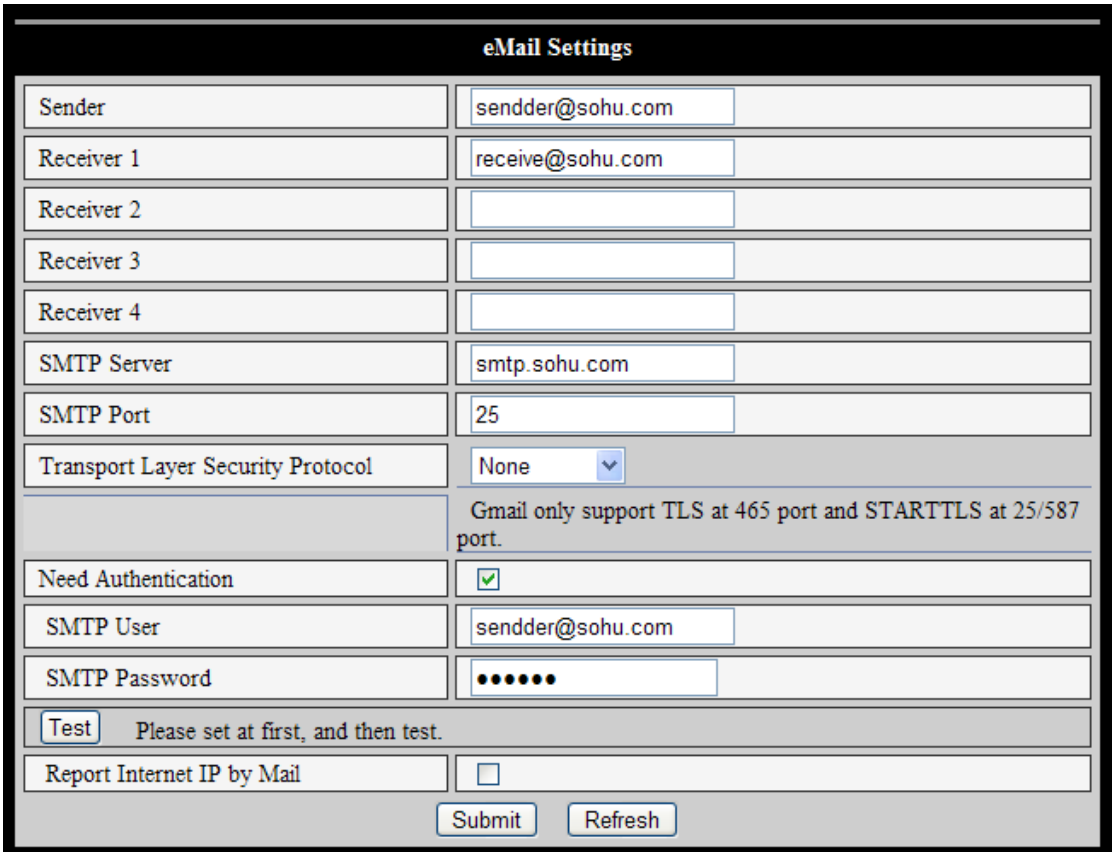

Figure 18 Mail service setting

When it detects alarming, it can send email to your appointed email box, but you need to set email service parameters correctly. Example of figure 18, click “Submit” to save these parameters, and then you can click “Test” to check if the setting is successful.（Notice：Before setting these parameters, please check if they are OK.）

When you set email service parameters correctly, can active “enable “Report Internet IP by mail”. After every restart, the device will send its Internet IP address to user’s email address. You can use the ip address to visit the device when it was mapped to internet.

3.3.3 FTP Service Setting

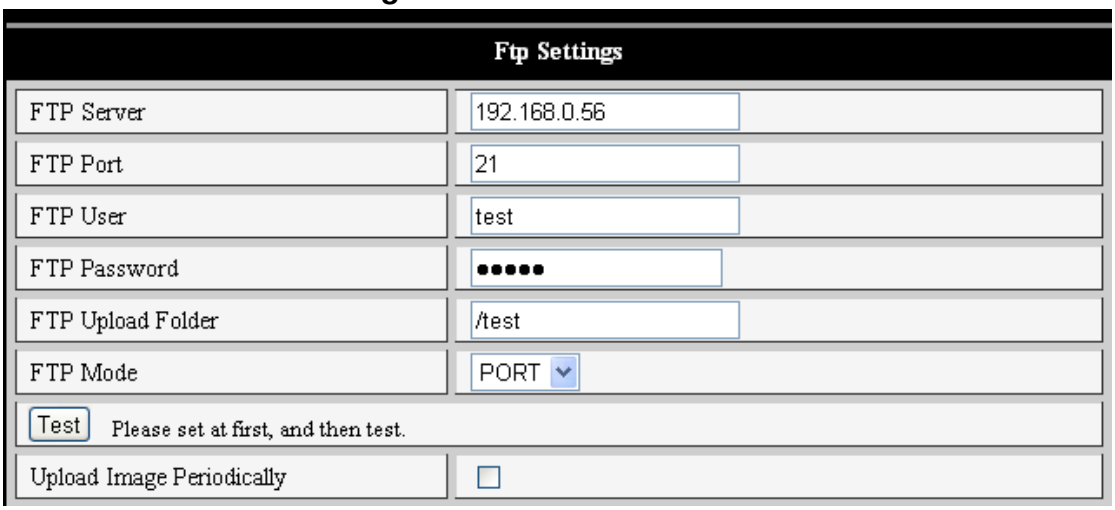

Figure 19　FTP service setting

When alarming, device will snap and send the image to FTP server, please make sure the FTP setting is correct. Above Figure 19 of FTP setting for your reference, after the setting is finished, click “Test” to check your settings are correct or not.
（Notice：For using the FTP function, you need to apply a user with authority that you can write and create submenu and some memory space）

After correct setting FTP server, you can use “upload Image Periodically” function. Even no alarm, device can also send the snap image to FTP periodically.

3.4 Advanced

3.4.1 User Setting

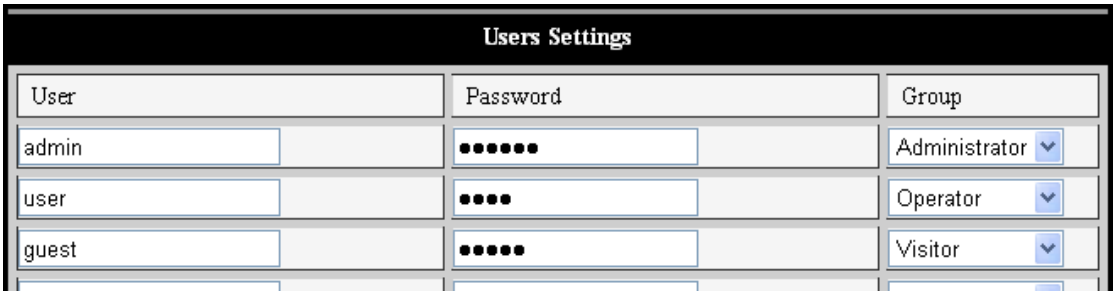

Figure 20 User setting

3.4.2 Multi-Device Setting

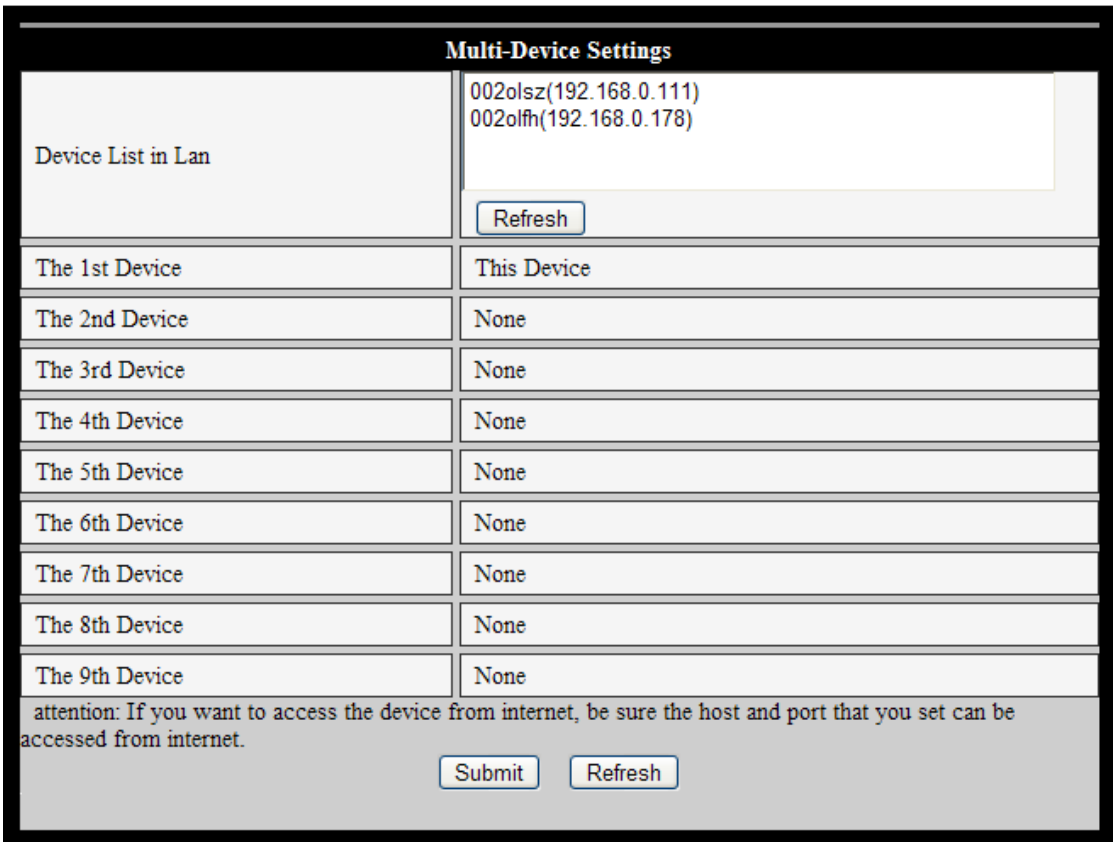

Figure 21 Multi-device setting

As Figure 21, User can add 9 devices the maximum to view the device simultaneously. Click “refresh” button to check the device in the LAN. When click a device, will popup setting dialogue box and input the device info, as figure 22 and click “save” to add device. After that, must click “Submit” button in figure 21 to save device.

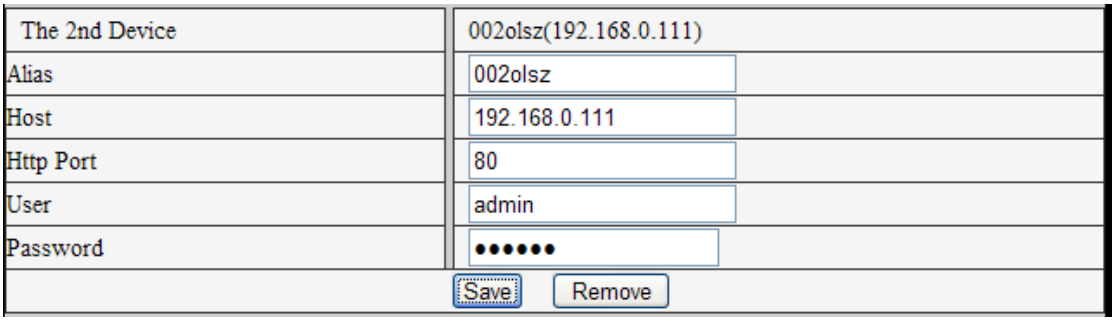

Figure 22 Add device

3.4.3 Other settings

You can choose open or close indicator LED. If set PTZ center on start ‘Yes’, when start device, Pan/Tilt will move to center and then stop. You can also set the Horizontal patrol rounds and vertical patrol rounds, when you click patrol on the ‘view’ interface, it will round according to your setting rounds. You can also set PTZ speed, 0 means fastest.

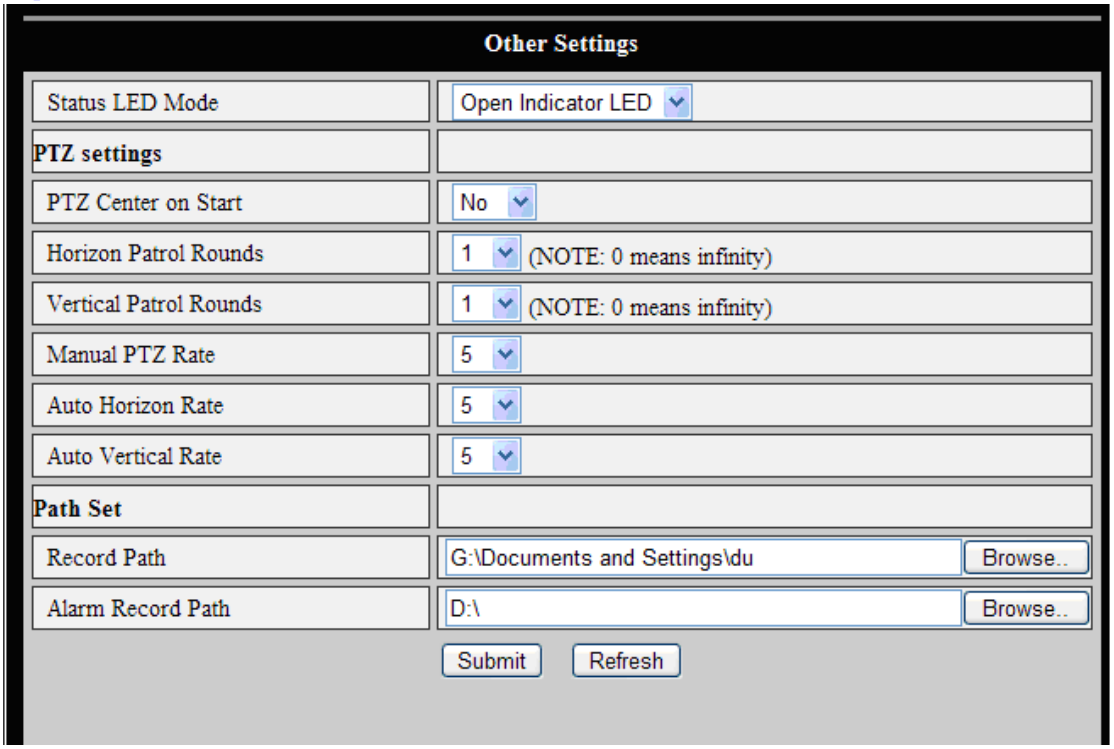

Figure 23 Other setting

3.5 Maintain

3.5.1 Device Information

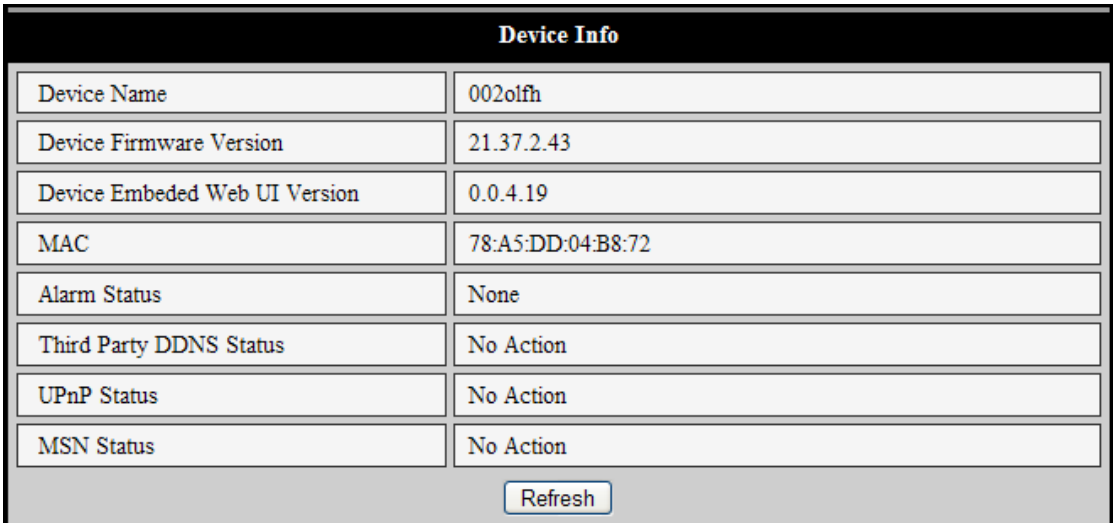

Figure 24 Device information

3.5.2 Alias Setting

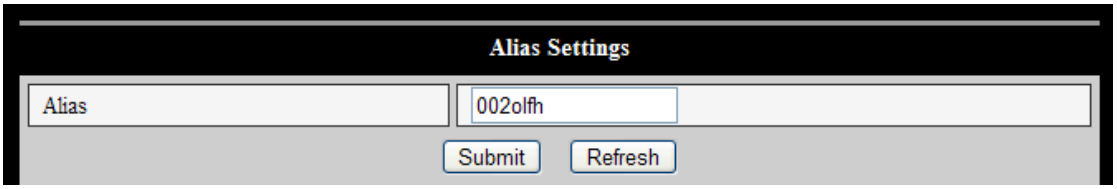

Figure 25 Alias setting

3.5.3 Time Setting

If the device is connected to the Internet, you enable the NTP server to correct the time and need to select the correct time zone. Otherwise you should use the PC's time to correct its time.

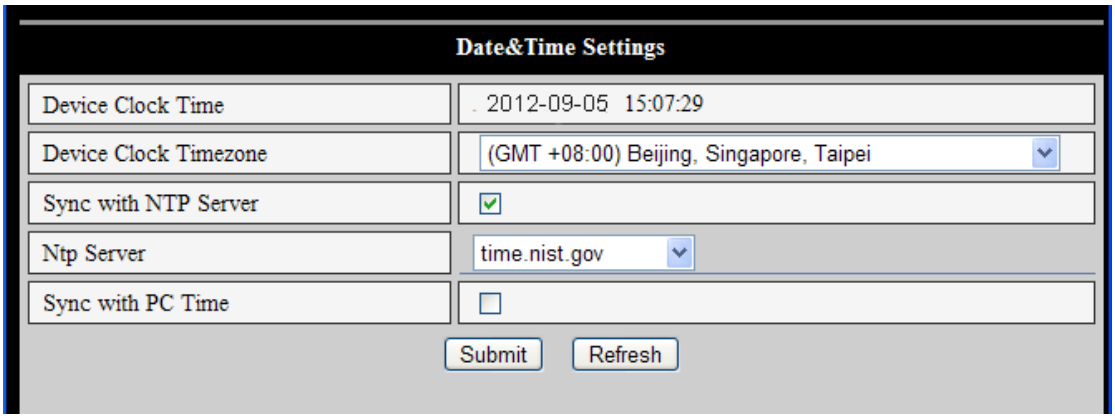

Figure 26 Date and time settings

3.5.4 Firmware upgrade

Figure 27 Upgrade firmware

The camera runs two kinds of firmware, one is system firmware, another is application firmware, can upgrade them respectively.

3.5.5 Restore Factory Default

Click "Restore Factory Default", it will pop up a dialogue to confirm if you really want to restore the factory default. After confirmation, the system will restore the factory default and reboot.

3.5.6 User browsing Log

After enter the log interface, you can view who and when the device is visited.

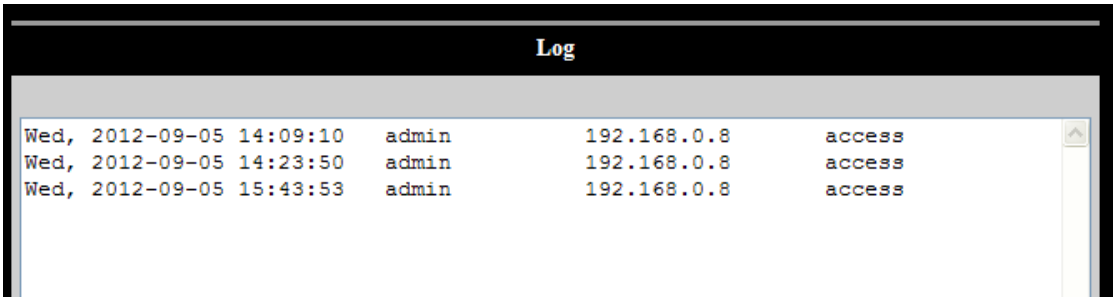

Figure 28 Visit log

4 Operation of other software

4.1 Other web browser

Except IE browser, you can visit the camera by Firefox, Safari, Chrome, Opera browser etc, please select “Mode 2 to view” when using these browser (example of figure 3).

You can use “Mac search and setting tool” in CD to search the camera and set IP address of camera in Mac computer. Because the camera supports bonjour protocol, so you can view the camera in LAN and visit it directly in safari browser, example of figure 29.

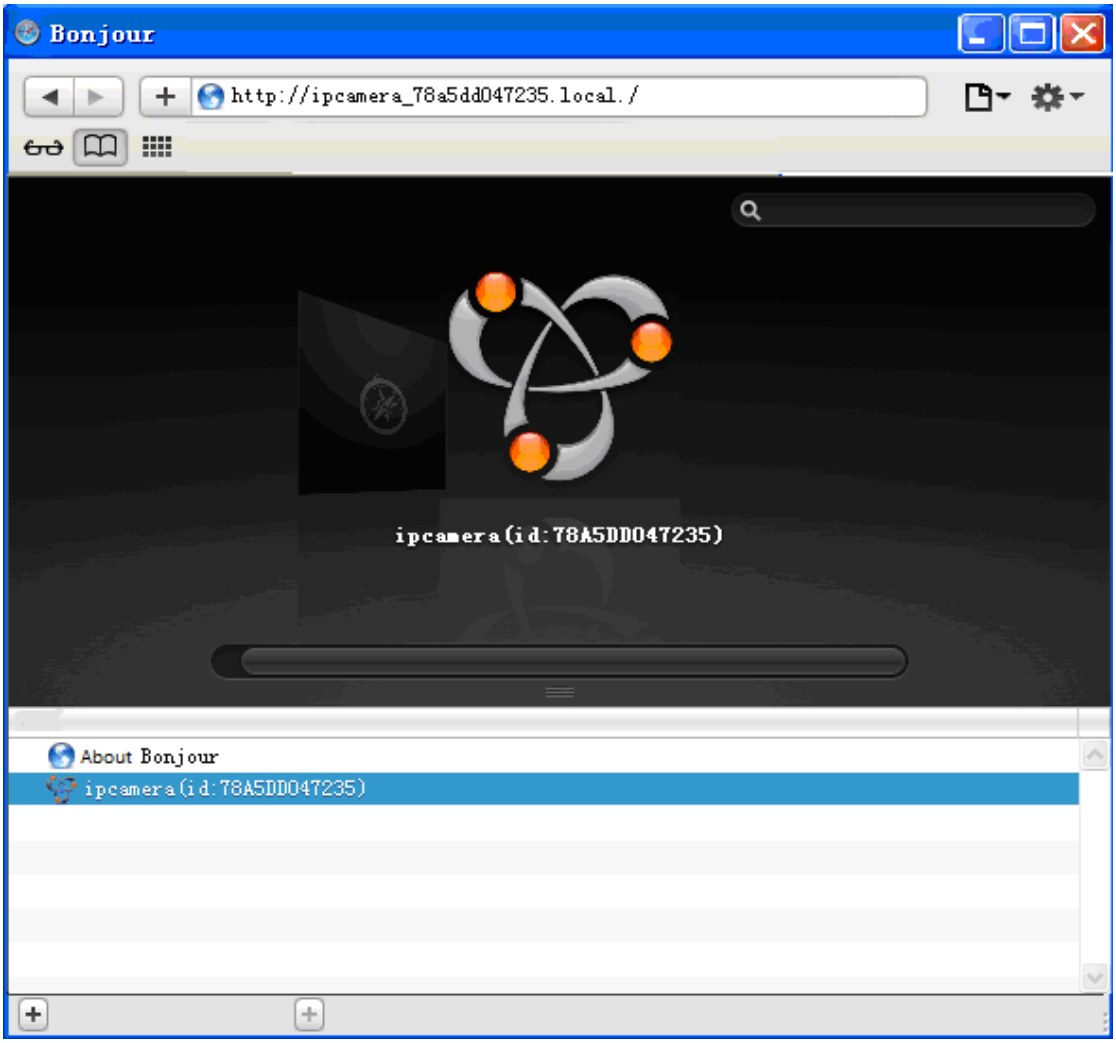

Figure 29

4.2 Mobile phone software

For more information, please see the user manual for mobile phone in attached CD, or download the latest software and user manual in our website.

4.3 Centralization Control

IPCMonitor is a free software offered by factory, several devices on LAN and WAN can be browsed at the same time. The software also supports snapshot, video record, alarming and so on. The interface is as figure 30.

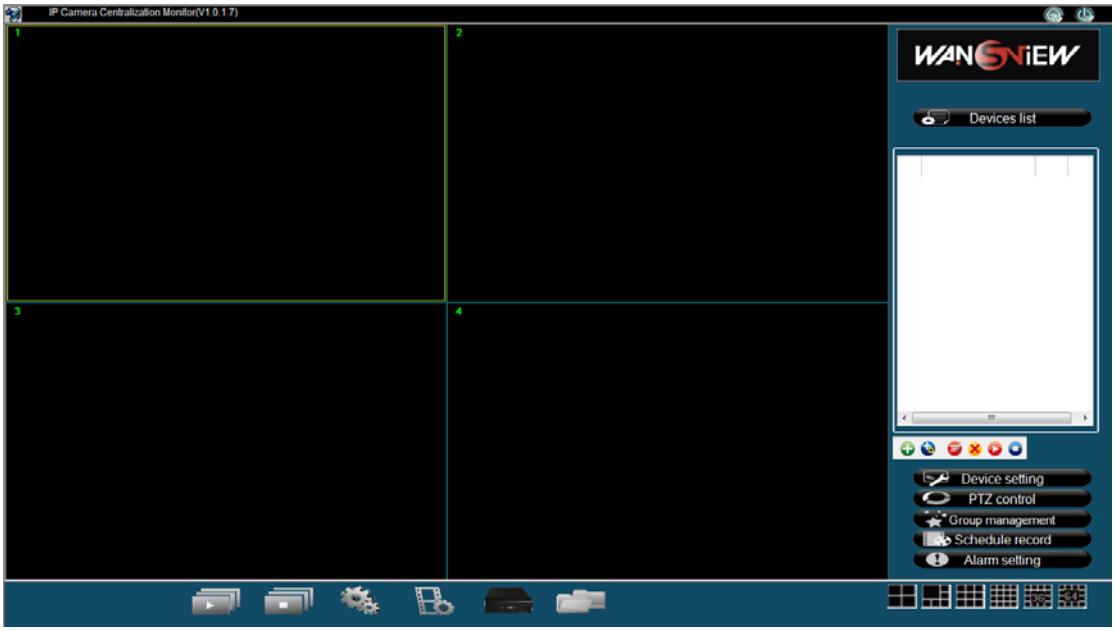

Figure 30

For more information, please refer to the <<IPCMonitor User Manual>> in CD.

4.4 Other software

You can use the VLC software etc to play video, visit it as the following URL format:

http://IP address:port/videostream.asf?user=user name&pwd=password

http://IP address:port/videostream.cgi?user=user name&pwd=password

For example：

http://192.168.0.178/videostream.asf?user=admin&pwd=123456

5 Product family for NCB series

5.1 NCB546W Card camera

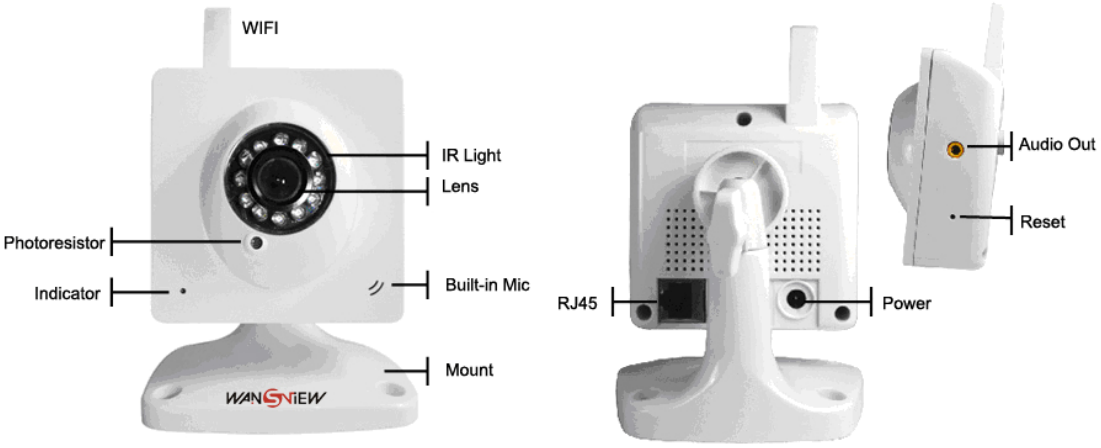

Figure 31

The camera adopts 300K pixels CMOS sensor, 3.6mm lens, built in MIC, 12 pieces IR LED, audio out port. It uses 5V power adaptor.

5.2 NCB541W PTZ camera

Figure 32

The camera adopts 300K pixels CMOS sensor, 3.6mm lens, built in PTZ and MIC, 10 pieces IR LED, audio out port, alarm in/out port. It uses 5V power adaptor.

5.3 NCB545W PTZ camera

Figure 33

The camera adopts 300K pixels CMOS sensor, IR cut, 3.6mm lens, built in PTZ and MIC, 8 pieces IR LED, audio out port, alarm in/out port. It uses 5V power adaptor.

5.4 NCB540W PTZ camera

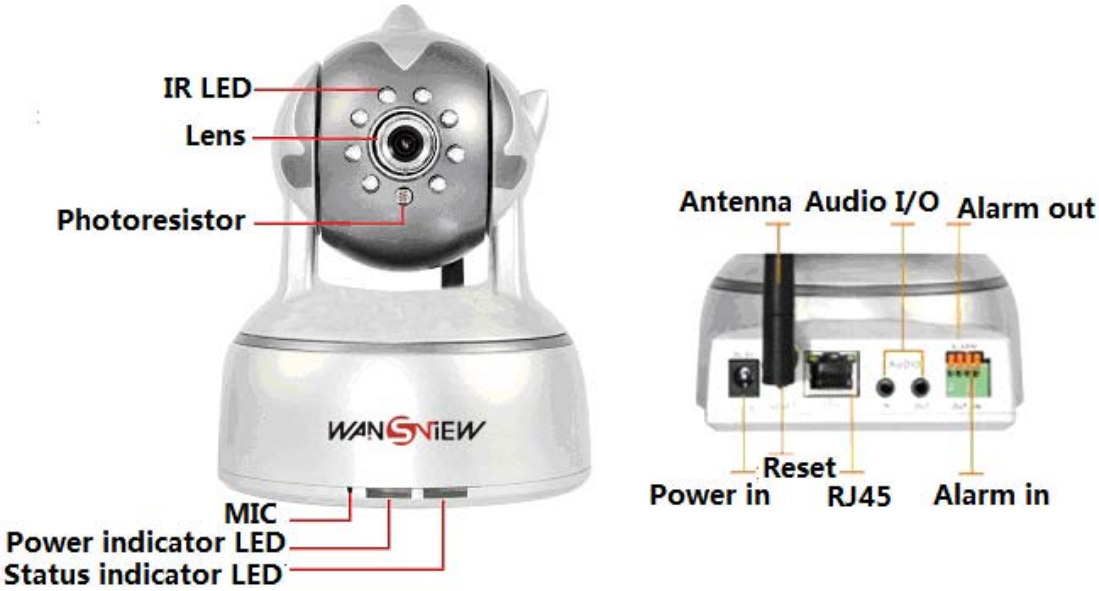

Figure 34

The camera adopts 300K pixels CMOS sensor, IR cut, 3.6mm lens, built in PTZ and MIC, 8 pieces IR LED, audio in/out port, alarm in/out port. It uses 5V power adaptor.

5.5 NCB547W PTZ camera

Figure 35

The camera adopts 300K pixels CMOS sensor, IR cut, 3.6mm lens, wifi module, built in PTZ, speaker and MIC, 10 pieces IR LED, audio out port. It uses 5V power adaptor.

The camera have a slide switch, you can put switch to AP on or AP off mode.
The RJ45 interface will be disabled when the switch is located AP on, the device is like as wireless router, it can connect with computer and mobile phone directly via wifi, example of figure 36.

Figure 36

The camera is connected to internet by network cable or wifi when switch was located AP off.

5.6 NCB543W Waterproof camera

Figure 37

The camera adopts 300K pixels CMOS sensor, 4mm IR lens, 36pcs IR LED. It uses 5V power adaptor.

Statement：

1. This manual may be different with your using camera, if you have any questions of the manual, please contact our technical support.
2. This manual will be updated periodically; the company reserved the right to without prior notice.