Home Use IP Camera (PTZ Series) User's Manual

Version 1.2

Table of Contents

Welcome

Thank you for purchasing our IP camera!
This user's manual is designed to be a reference tool for your system.
Please read the following safeguard and warnings carefully before you use this series product!
Please keep this user's manual well for future reference!

Important Safeguards and Warnings

1．Electrical safety

All installation and operation here should conform to your local electrical safety codes.
We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.
We are not liable for any problems caused by unauthorized modification or attempted repair.

2．Installation

Please note current product does not have the power button. Please unplug all concerning power cable before your installation or any maintenance work.
Do not apply power to the IP camera before completing installation.
Do not put object on the IP module.

3．Environment

This series IP camera should be installed in a cool, dry place away from direct sunlight or strong light, inflammable, explosive substances and etc.

4. Daily Maintenance

Please shut down the device and then unplug the power cable before you begin daily maintenance work.
Use the dry soft cloth to clean the device.
If there is too much dust, please use the water to dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean the device.

Please open the accessory bag to check the items one by one in accordance with the list below.
Contact your local retailer ASAP if something is missing or damaged in the bag.

Name	Amount
IPC	1
5V power adapter	1
MD9M data converter cable	1
Wall mount bracket	1
3G or WIFI antenna （For 3G or WIFI series product only））	1
Quick Start Guide	1
CD	1

Important

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1 General Introduction

1.1 Overview

This series IP camera integrates the traditional camera and network video technology. It adopts audio video data collection, transmission, storage together. It can connect to the network directly without any auxiliary device. This series IPC uses standard H.264 video compression technology and AMR, G.711a audio compression technology, which maximally guarantee the audio and video quality.

This series IPC supports real-time monitor and listening at the same time. It supports dual-way bidirectional talk. The built-in PIR supports IR motion detect and the built-in IR compensation light supports IR night vision function. The extension wireless alarm function allows it to connect to the wireless alarm devices such as magnetic detector, smoke detector and etc via the wireless alarm box. The embedded general PTZ allows it to use conveniently without any other additional PTZ device.

It can be used alone or used in a network area. When it is used lonely, you can connect it to the network and then use a network client-end. Due to its multiple functions and various uses, this series IPC is widely used in many environments such house, office and etc.

1.2 Feature

User Management	● Different user rights for each group, one user belongs to one group.
Data Transmission	● Built-in TD-SCDMA, EVDO（CDMA2000 1X, WCDMA module support mobile data transmission. ● Embedded WIFI module to support WIFI wireless data transmission. ● Support cable network data transmission via Ethernet
Storage Function	● Support central server backup function in accordance with your configuration and setup in alarm or schedule setting ● Support record via Web and the recorded files are storage in the client-end PC. ● Support local SD card hot swap. Support short-time storage when encounter network disconnection.
Alarm Function	● Real-time video detect: motion detect, video loss, camera masking. ● Respond to local alarm input, wireless alarm input and video detect alarm input as user pre-defined activation setup (such as send out the email to the user) and exert corresponding audio prompt(allow user to pre-record audio file).
ICR Function	● System supports ICR-cut auto switch. It can automatically switch the day/night mode to realize the monitor both in the daytime and at night. ● It can filte the IR light during the daytime and switch to the general filter to guarantee the high sensitivity and clear video both in the daytime and at night. ● It supports to use the IR light to control the ICR switch. In the auto day/night mode, it can to use the day-use filter when the IR light is off. It can use the night-use filter when the IR light is on.
Network Monitor	● IPC supports one-channel audio/video data transmit to network terminal and then decode. Delay is within 500ms (network bandwidth support needed) ● Max supports 10 connections.

	● Adopt the following audio and video transmission protocols: TCP, UDP, MULTICAST and etc. ● Support web access, widely used in WAN.
Network Management	● Realize IPC configuration and management via Ethernet. ● Support device management via web or client-end.
Peripheral Equipment	● Support peripheral equipment management via RS232 port, each peripheral equipment control protocol and interface can be set freely. ● Support serial port (RS232) transparent data transmission.
Power	● External power adapter DC 5V
Assistant Function	● Log function. ● Support NTSC/PAL. ● System resources information and running status real-time display. ● Built-in IR light to support IR night vision. ● Built-in PIR support IR motion detect function. ● Built-in auto Pan&Tilt, support the pan and tilt movement. ● Support watermark technology to avoid vicious video modification. ● Support scene mode function, use can select various modes to monitor.

1.3 Specification

1.3.1 Performance

Please refer to the following sheet for IPC performance specification.

Name		Specification
Camera	Sensor Mode	1/4-inch CMOS
	Video Mode	PAL/NTSC
	Resolution	300,000 pixels
	Min Illumination	0lux（IR ON）
	Shutter	1/50（1/60）～1/1000005
	Signal Noise Ratio	≥50dB
Video	PAL：1f/s～25f/s.	PAL：1f/s～25f/s. NTSC：1f/s～30f/s
	Encode capacity	H.264 algorithm. 5 CIF
	Encode Bit Stream	VGA（640*480） QVGA（320*240） CIF（352*288/352*240） QCIF（176*144/176*128） QQVGA（160*128）
	Video Record Speed	PAL：1f/s-25f/s per channel (adjustable). NTSC：1f/s-30f/s per channel (adjustable).
IR Distance		7M
Network Capacity		Max support 10 network users to monitor simultaneously Output capacity 85Mbps
Power Consumption		≤7W

Power	DC 5V
Temperature	Working environment temperature：-10℃～50℃
	Chassis internal rising temperature is less than <20℃（When IPC is working ,the chassis internal temperature deducts environment original temperature.）
Working Environment Humidify	10%～90％
Dimension(H*W*D）	106mm*102mm*127mm
Weight	340g

1.3.2 Function Specification

Please refer to the following sheet for function specification information.

Specification		Note
CCD Video Process	White Balance	Auto adjust
	Contrast	Auto/Manual adjust.
	Bright ness	Auto/Manual adjust.
	Electrical Shutter	Auto adjust
	Mirror	Support left-right video switch.
	Flip	Support video upside down flip function.
	Scene Mode	Support scene mode setup.
Video	Resolution	VGA、QVGA、CIF、QCIF、QQVGA
	Video Compression	Standard H.264 compression format
	Motion Detection	Take 18*22 pix as a macro unit. Support 396 detection zones. Sensitivity level ranges from 1 to 6.
	Dual-stream	2-ch real-time VGA.
Audio	Bidirectional Talk	Bidirectional talk function. Delay within 200ms
	Audio Listening	Audio listening. 1-ch MIC input.
Network		WEB access via IE browser.
		PPPoE dial function
		DHCP auto get IP address
		DDNS
		SMTP email function
		NTP time synchronization.
		DNS domain parse
		IP address auto search function
		IP address filter function.
Record	Schedule	6 periods.
	Manual	Enable record function no matter schedule or alarm setup is activated or not.
	Alarm	Activate record function when alarm occurs.
	Motion Detect	Enable record function when system detects object movement.
OSD	Time Title Display	The value ranges from 0 to 255..

		O is the bottom layer and 255 is the highest layer. O means completely transparent and 255 is opaque.
	Channel Title Display	Please refer to the above information.
	Privacy Mask	Max supports 8 zones.
Storage	Network storage based on SDK	
	Local SD card storage	
Alarm	2-ch local alarm/network alarm input, 8-ch wireless alarm input	
	1-ch network alarm/local alarm output, 4-ch wireless alarm output.	
Event Management	Support motion detect or external input to exert an alarm	
	Send out image via email when activate the alarm.	
	Send out alarm notice via email or external output port. Please make sure there is anti-dither function when alarm occurs frequently.	
	Support record buffer function before or after the alarm occurs. The record time is 5 seconds and the file size is 2Mbytes.	
Control	RS232 for debug	
Device Upgrade	Network remote upgrade Support upgrade tool.	
	COM upgrade TFTP upgrade from network via COM command.	
Device Management	COM control platform View IPC running status or IPC parameter via COM port.	
	Network client-end Log in the client-end software in the PC to monitor IPC.	
Parameter Configuration	IPC provides user interface, device information, video information, COM setup, record setup, motion detection setup, alarm setup, OSD information interfaces to modify system setup.	
	IPC provides running information such as user port, log, status, user management, email setup, date modification.	
Log	System can record the important event log record Record the following information： System operation, setup operation, alarm event, record management, user management, clear log.	
Power Supply	DC 5V power supply	
RESET	Support hardware reset. System needs to reboot to activate the default setup.	
Port ESD protection	9-pin input/output port	
	Audio input/output port	
	Network port	
	5V power adapter	
9-pin I/O Port	One 9-pin I/O port	
	One audio input port	

	One audio output port
	One network interface（RJ45 10M/100M self-adaptive Ethernet port）
	One wireless network antenna port /one 3G network antenna port
	One SD card port
	One 3G card port
Others	One power status indication light.
	One network connection indication light
	IR light.
Installation	Bracket installation

1.3.3 Factory Default Setup

Please refer to the following sheet for factory default setup information.

Function Configuration Type		**Item Name**	**Default setup**
General Setup		Date format	Y-M-D
		DST	Disable by default
		Date separator	‘ – ’
		Time format	24H
		Language	Simplified Chinese
		When HDD is full	Overwrite
		Record duration	60M
		Device No.	8
		Video type	PAL
Encode Setup	Main Stream	Channel	Channel01
		Encode mode	H.264
		Audio/Video enable	Enable audio and video
		General bit stream	General bit stream
		Resolution	VGA
		Frame rate	25
		Bit stream control	VBR
		Quality	Good
		Bit stream value	2048
		I frame interval control	50
	Extra Stream	Extension Stream	General bit stream
		Audio/Video enable	Enable audio and video
		Resolution	QVGA
		Frame rate	15
		Bit stream control	VBR
		Quality	Good
		Bit stream value	384
		I frame interval control	50
		Image Color	Brightness:50 Contrast:50 Sautratioon:50 Hue:50

		Watermark		Enable Watermark: all Watermark type: character Watermark: DigitalCCTV
		Privacy Mask		Never
		Time title		Enable. OSD transparent :128
		Channel title		Enable. OSD transparent :128
Record Setup		Channel		Ch01
		Pre-record		5 seconds.
		Time Setup	Start Time	0:00:00
			End Time	23:59:59
			Record	Period 1:Enable motion detection/alarm
			Snapshot	Period 1: Enable motion detection/alarm
			Week	Sunday
COM Setup		Option		COM01
		Function		General
		Data bit		8
		Stop bit		1
		Baud rate		115200
		Parity		None
Network Setup		Ethernet		Port 01
		DHCP		Disable
		IP address		192.168.1.108
		Subnet mask		255.255.0.0
		Gateway		192.168.0.1
		Device name		Device factory default name
		TCP port		37777
		HTTP port		80
		UDP port		37776
		Network user connection amount		10
		Network transmission QoS		Disable
		Remote host		Multiple broadcast group
		Enable		Disable
		IP address		239.255.42.42
		Port		36666
		Email setup		Enable
		Multiple DDNs		Disable
		NAS setup		Disable
		NTP setup		Disable
		Alarm server		Disable
Alarm Setup		Event type		Local input
		Alarm input		Input 01, disable
		Type		Normal open
		Setup		Period: Start time 0:00:00 End time:23:59:59 Period 1:enable Week: Sunday
		Anti-dither		0 second
		General output		Disable
		Alarm latch		10 seconds
		Record channel		1, enable

	Record latch		10 seconds
	Send email		Disable
	PTZ activation		Disable Event type: never Address: 0
	Snapshoot		Disable
Video Detection	Event type		Motion detection
	Channel		Ch01, Disable
	Sensitivity		3
	Time period setup		Period: Start time 0:00:00 End time:23:59:59 Period 1:enable Week: Sunday
	Anti-dither		5 seconds
	General output		Disable
	Alarm latch		10 seconds
	Record channel		Disable
	Record latch		10 seconds
	Send email		Disable
	PTZ activation		Event type: Never Address: 0 Disable
	Snapshot		Disable
PTZ Setup	Channel		Ch01
	Protocol		DH-SD1
	Address		1
	Baud rate		9600
	Data bit		8
	Stop bit		1
	Parity		None
Default and Backup	All		Disable
	General		Disable
	Encode		Disable
	Record		Disable
	COM		Disable
	Network		Disable
	Alarm		Disable
	Video detection		Disable
	Display output		Disable
	Channel No.		Disable
Advanced	Abnormity	Even Type	No HDD, Disable
		General Output	Disable
		Alarm Latch	10 seconds
		Send email	Disable
	User account		admin--- password: admin (reusable) 888888--- password: 888888(reusable) 666666--- password: 666666(reusable) default--- password: tluafed
	Snapshot	Channel	Ch01
		Snapshot	Scheduled

		mode			
		Frame rate	1f/s		
		Resolution	VGA		
		Quality	60%		
	Auto maintain	Auto reboot	2.00 each day		
		Auto delete old files	Never		
Camera Property	Channel		1		
	Exposure Mode		Auto		
	Day/Night Mode		Color		
	Backlight Compensation		Disable		
	Auto Aperture		N/A	Disable	Disable
	White Balance		N/A		
	Signal Type		Internal input		
	Mirror		Disable	N/A	N/A
	Flip		Disable	N/A	N/A
Camera Property	Channel		1		
	Exposure		Auto		
	Day/Night		N/A		
	BLC		N/A		
	Scene Mode		Disable		
	Signal Mode		Internal Input		
	Mirror		Disable		
	Flip		Disable		
Auto Registration	Enable		Disable		
	SN		1		
	IP		0.0.0.0		
	Port		7000		
	Device ID		none		
DNS Setup	DNS		202.101.172.35		
	Alternative DNS		202.101.172.35		
IP Filter	Enable		Disable		
	White list		Disable		
	Black list		Enable		

2 Framework

2.1 Front Panel

You can refer to the following figure for IP camera front panel information. See Figure 2-1.

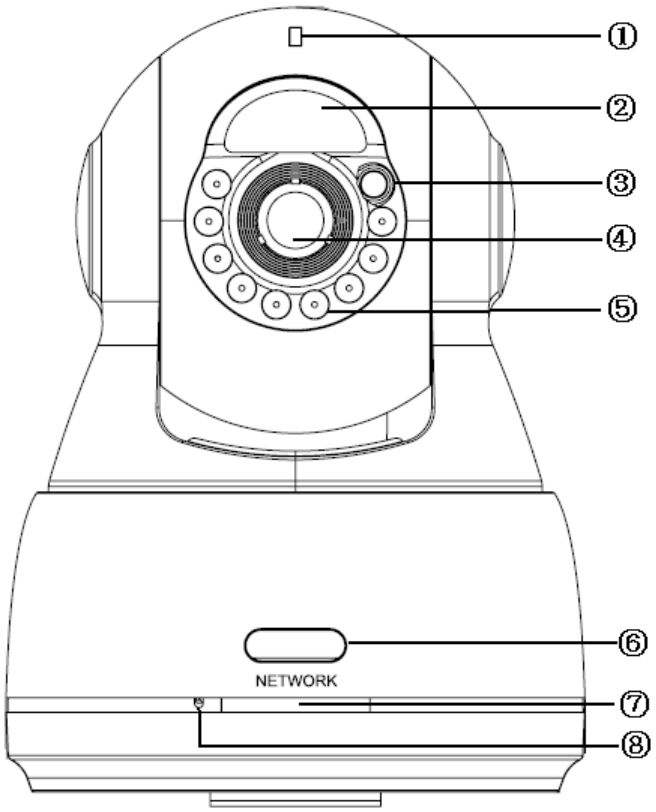

Figure 2-1

Please refer to the following sheet for detailed information.

Port	Port Name	Function
Port 1	POWER	Power indication light. When system is recording, the green light flashes. The interval is 0.5s. When system is running: The red light becomes on when system boots up. When system is running properly, the green light becomes on. When system is upgrading, the red light flashes. The interval is 0.5s.
Port 2	PIR receiver enclosure	Passive IR motion detect port. It can detect the object of the IR radiant (such as the human body or other heating object.)
Port 3	LDR(light dependent resistor)	It is to sense the environment illumination to open/close the IR light.
Port 4	/	Device lens.
Port 5	IR light	It is to send out the IR compensation light to enhance the night vision effect.

Port	Port Name	Function
Port 6	IR remote control signal receiver	It is to receive the IR remote control signal. Current device does not support this function.
Port 7	NETWORK	Network status indication light. It becomes red when network connection is OK.
Port 8	Micro phone port	The audio input of the bidirectional talk.

2.2 Rear Panel

This series IPC rear panel is shown as in Figure 2-2.

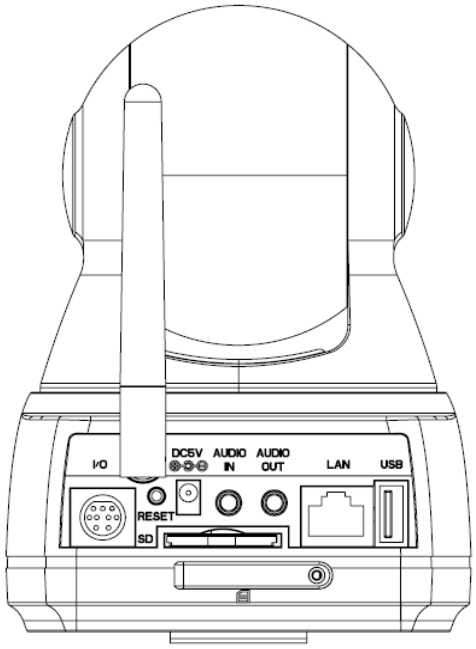

Figure 2-2

Please refer to the following sheet for detailed information.

Port Name		Function
I/O		Connect to MD9M data converter cable or wireless alarm box.
Antenna		Connect to the wireless antenna to receive the WIFI, 3G and etc wireless signal.
RESET		When the device is running properly (The power indication light is green), press REEST button for at least 5 seconds and then release, you can reboot the device.
DC 5V		Power port. Input 5V DC
AUDIO IN	Audio input 3.5mm JACK port.	Input audio signal. Receive signals from devices such as pick-up.

Port Name		Function
AUDIO OUT	Audio output 3.5mm JACK port.	Output audio signal to the device such as sound box.
SD		Connect to SD card. **Note** ● When you install the SD card, please make sure current card is not in write mode and then you can install it to the camera. ● When you remove the SD card, please make sure current card is not in write mode. Otherwise it may result in data loss or card damage. Before hot swap, please stop record /download operation.
LAN	Ethernet port	You can connect to the standard Ethernet port.
USB port		USB Port. You can connect to the USB device.
3G port		3G card port. You can insert 3G UIM card.

2.3 MD9M Data Converter Cable

The MD9M data converter cable is shown as below. See Figure 2-3.

Figure 2-3

Please refer to the following sheet for detailed information.

Port Name	Cable Color	Function
Port 1	Black	CS. Current device does not support this function.
Port 2	Brown	VSS. The positive end of the 5V power.
Port 3	Red	IN1. Alarm input port 1.
Port 4	Orange	IN2. Alarm input port 2.
Port 5	Green	NC. Normal close alarm output end.
Port 6	Yellow	NO. Normal open alarm output end
Port 7	Blue	RX. Transparent debug COM. RS232_RX，RS232 COM receive end.
Port 8	Purple	TX. Transparent debug COM. RS232_TX，RS232 COM send end.
Port 9	Grey	GND. Ground end.
Port 10	Bare wire	Ground end.

2.4 Dimension

The device front dimension interface is shown as below. The unit is mm. See Figure 2-4.

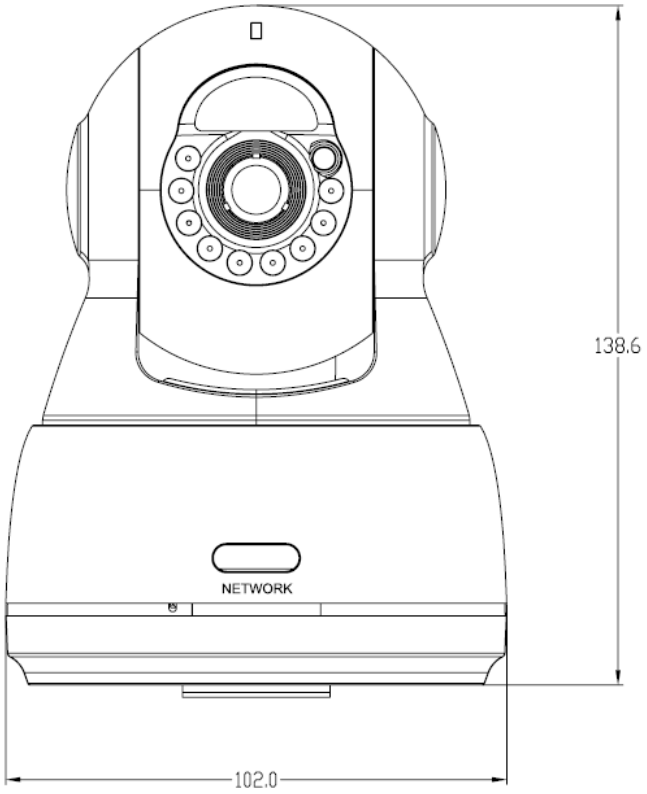

Figure 2-4

The side panel dimension interface is shown as below. The unit is mm. See Figure 2-5.

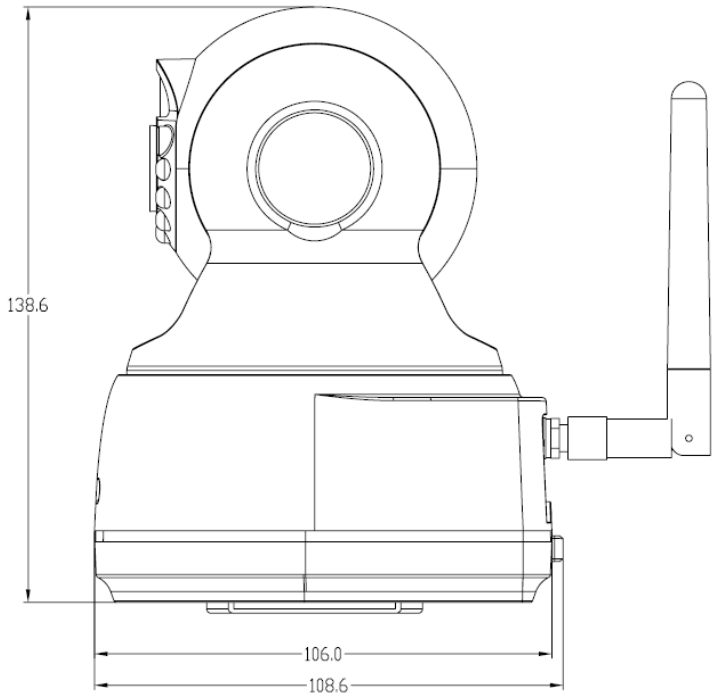

Figure 2-5

The device pedestal dimension is shown as in Figure 2-6. The unit is mm.

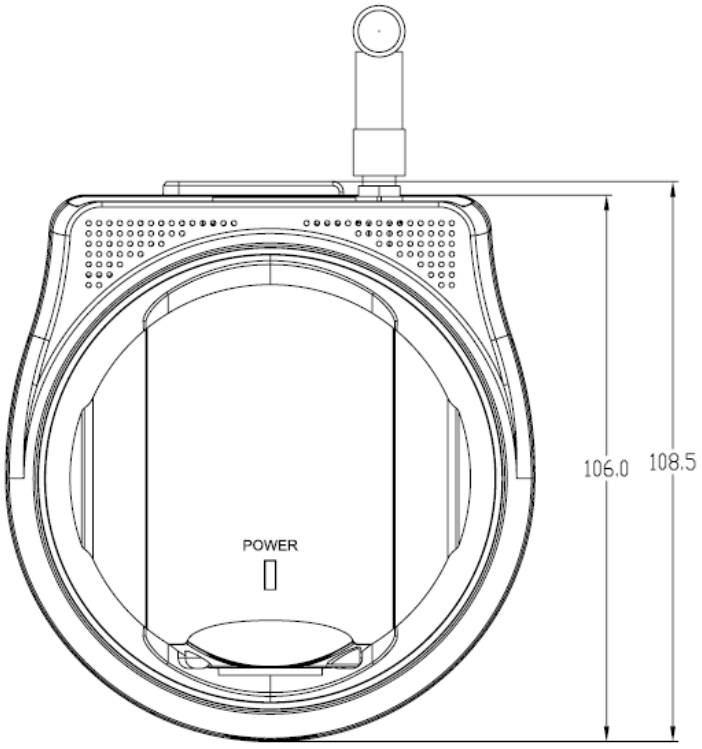

Figure 2-6

2.5 Bidirectional talk

2.5.1 Device-end to PC-end Device Connection

Please connect the speaker or the pickup to the first audio input port in the device rear panel.
Then connect the earphone or the sound box to the audio output port in the PC.
Login the Web and then enable the corresponding channel real-time monitor.
Please refer to the following interface to enable bidirectional talk.

Figure 2-7

Listening Operation

At the device end, speak via the speaker or the pickup, and then you can get the audio from the earphone or sound box at the pc-end.

2.5.2 PC-end to the device-end

Device Connection

Connect the speaker or the pickup to the audio output port in the PC and then connect the earphone or the sound box to the first audio input port in the device rear panel.
Login the Web and then enable the corresponding channel real-time monitor.
Please refer to the above interface (Figure 2-7) to enable bidirectional talk.

Listening Operation

At the PC-end, speak via the speaker or the pickup, and then you can get the audio from the earphone or sound box at the device-end.

2.6 Local Alarm Setup

The alarm interface is shown as in Figure 2-8. Please follow the steps listed below for local alarm input and output connection.
1) Connect the alarm input device to the red or orange pin of the MD9M data converter.
2) Connect the alarm output device to the green or yellow pin of the MD9M data converter. The alarm output port supports NO (normal open) alarm device only.
3) Open the Web, go to the Figure 2-8. Please set the alarm input 01 port for the red-pin (the 1st channel) of MD9M converter cable. The alarm input 02 is for the orange-pin (the 2nd channel) of MD9M converter cable. Then you can select the corresponding type (NO/NC.)
4) Set the WEB alarm output. The alarm output port of the alarm output 01 device (The green-pin or yellow-pin of the MD9M data converter cable).

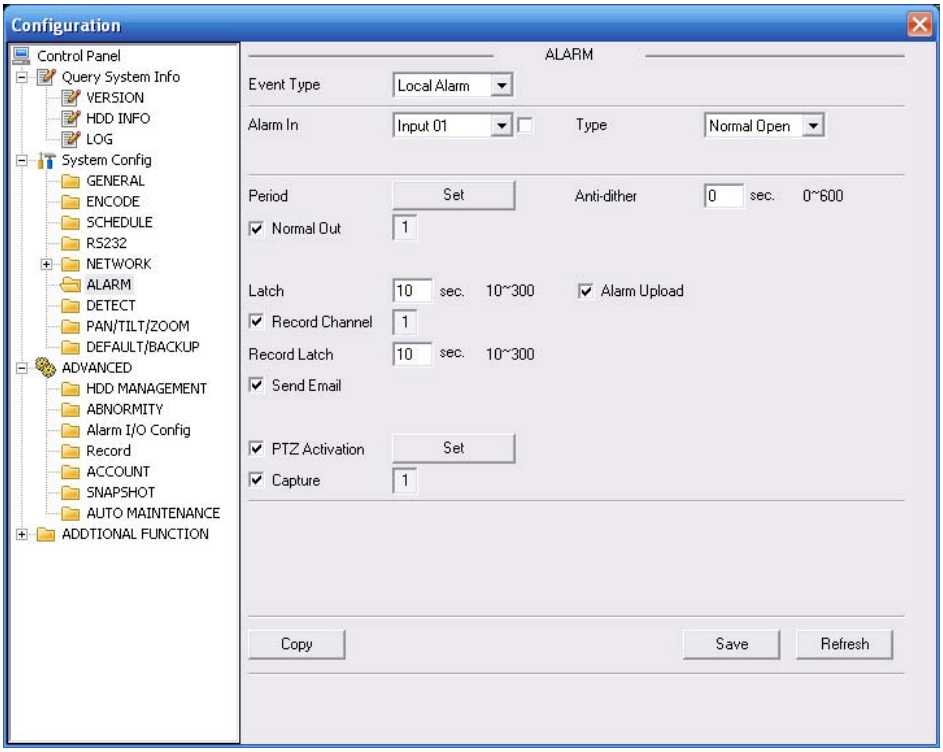

Figure 2-8

2.7 Wireless Alarm Setup

2.7.1 Version

After you connected the wireless alarm box, you can view the wireless port information. 2/4 means there are two wireless alarm input channels and four wireless alarm output channels. See Figure 2-9.

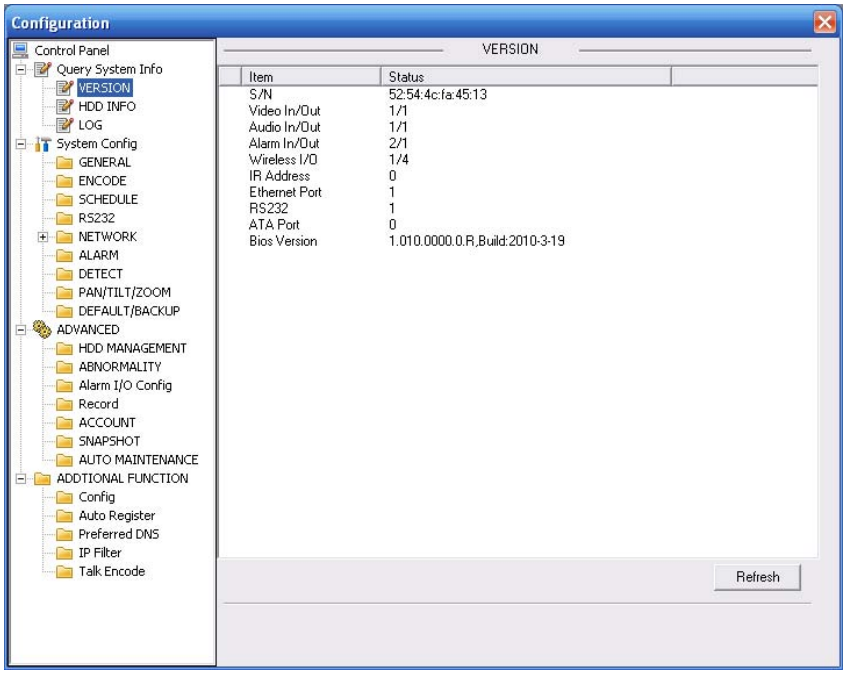

Figure 2-9

2.7.2 RS232

Please go to the RS232 interface to set the corresponding information. See Figure 2-10.
The setup is shown as below:

- RS232 COM: COM01
- Function: COM_Exalarm
- Baud rate:9600
- Data bit:8
- Stop bit:1
- Parity: None

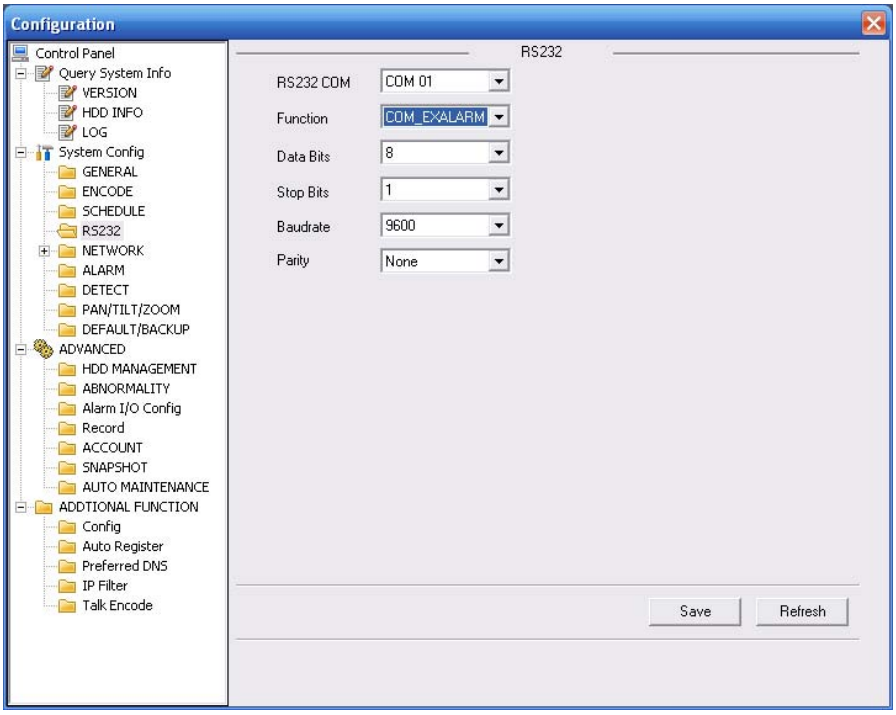

Figure 2-10

2.7.3 Alarm Setup

Important

Before you enable the wireless alarm function, please implement the successful coding of the wireless alarm input device. Otherwise you can not see the wireless output item.

Please select the event type as IR input and then select alarm input port. Check the box to enable wireless function.

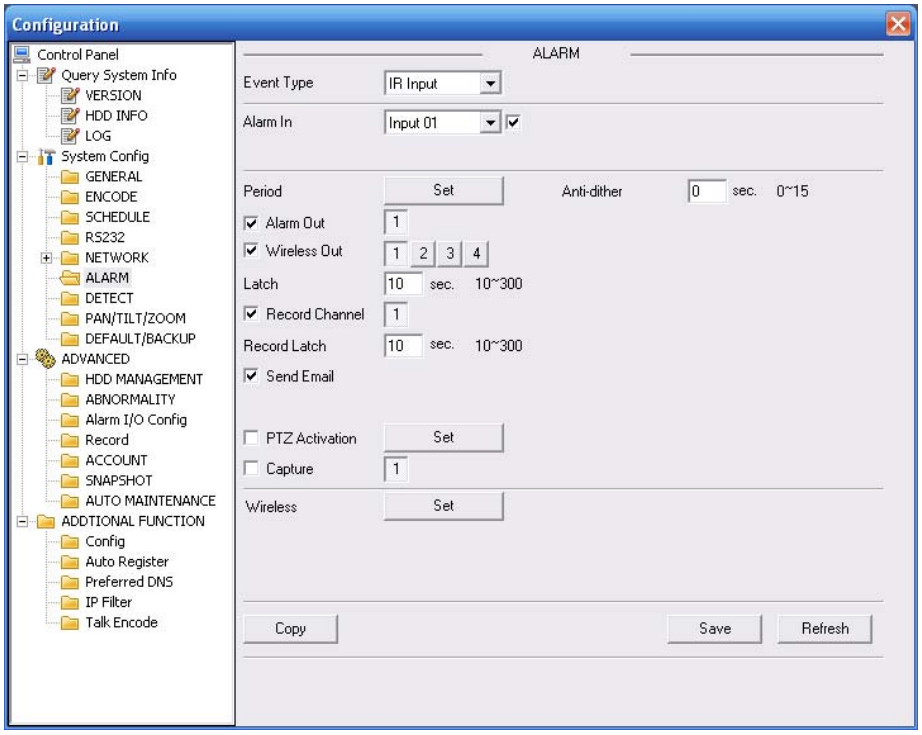

Figure 2-11

Wireless Setup

In Figure 2-11, click wireless Set button, you can see an interface is shown as in See Figure 2-12. Please follow the steps listed below.

1) Alarm input: Please select the corresponding alarm input port. System max supports 8 alarm devices. You can input the self-defined name here. After the coding, you can automatically get the address. The latch time ranges from 0 to 65535.

2) Coding: Please click the coding button of the wireless alarm box, you can see the yellow light flashes, the device can activate the wireless input device to code. After the coding, the yellow coding status indication light can prompt the corresponding dialogue box.

3) Clear the address: Please click the coding button of the warless alarm box; you can see the yellow coding status indication light becomes flash. Then please press the coding button for 5 seconds to clear all the wireless alarm device addresses.

4) Alarm output: Please select the corresponding alarm output port and then input the self-defined user name. System max supports 4 alarm output devices. Finally you can manually set the alarm output device address and then save.

5) Remote control: Select remote alarm device and then input self-defined name. Address: System can automatically get the address after coding. Please refer to the above information to coding or clear the address.

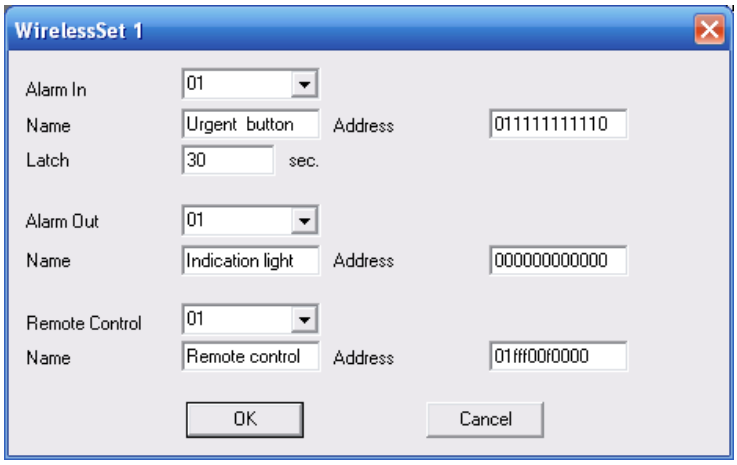

Figure 2-12

Copy

In Figure 2-11, click Copy button, you can see the following dialogue box. You can copy current setup to more channel(s). See Figure 2-13.

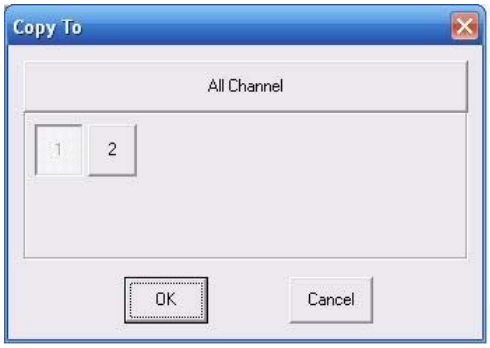

Figure 2-13

Period

In Figure 2-11, click period set button and then click set button. You can select the corresponding period(s) in the following interface. The front-end device can respond the wireless alarm in the specified period you set below. See Figure 2-14.

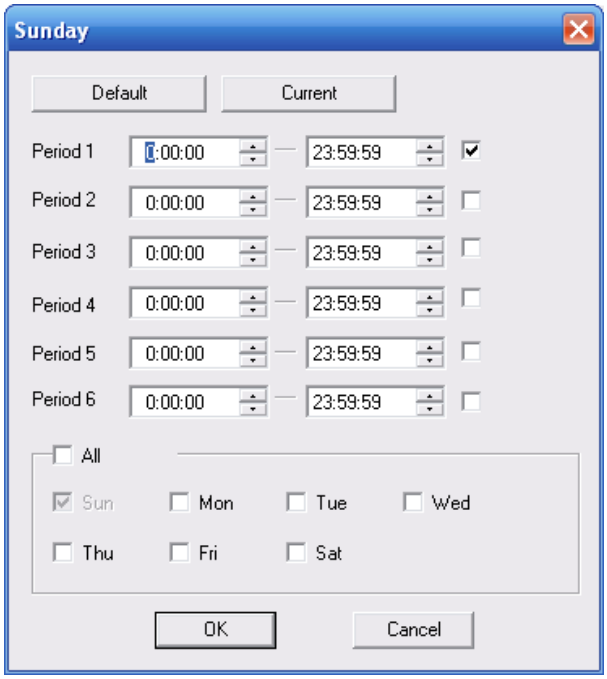

Figure 2-14

2.7.4 Motion Detect

Here you can select the wireless port for the motion detect operation. There are four options (wireless output 1 to output 4). Then you can check the box to enable wireless output function. Now you have enabled the wireless alarm output function. See Figure 2-15.

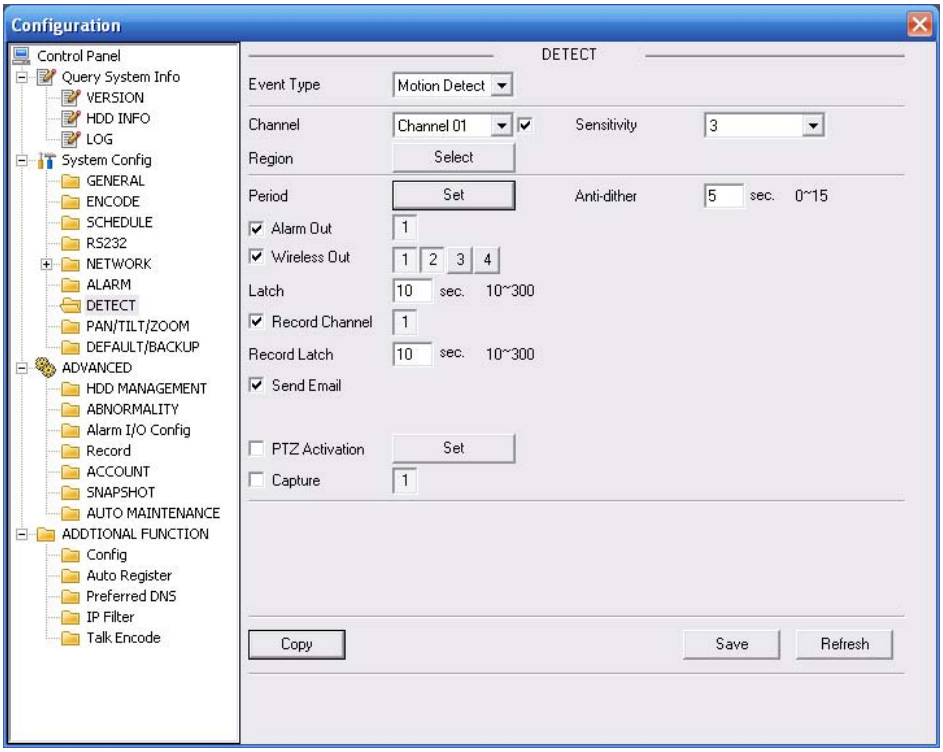

Figure 2-15

2.7.5 Alarm Output

After you selected the wireless alarm and emergency alarm type, you can see the wireless alarm information in the following interface once the device activated the corresponding alarm. See Figure 2-16.

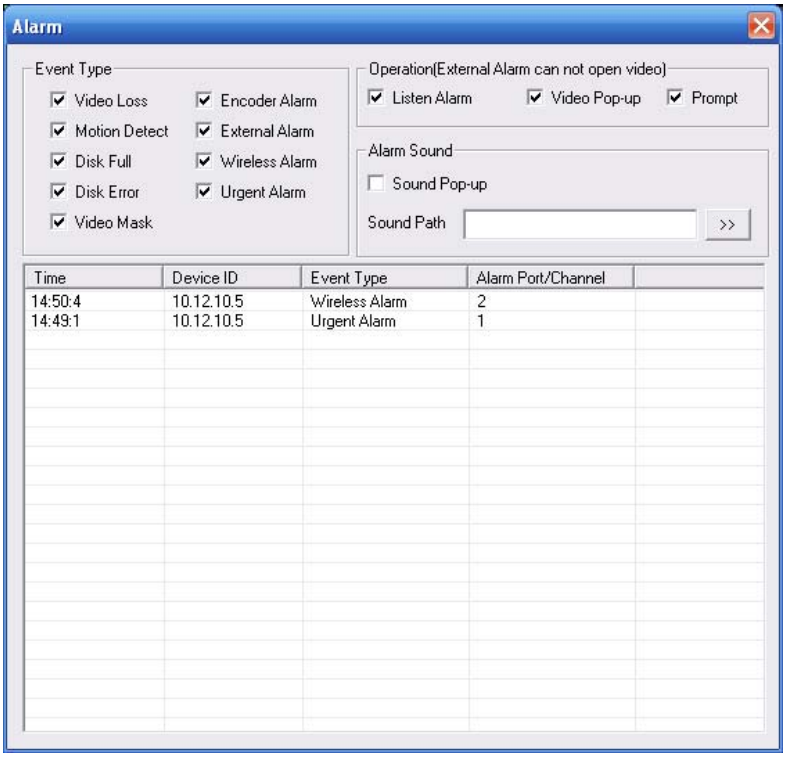

Figure 2-16

3 Installation Procedure

This series IP camera can be placed on the table directly, or use the wall mount bracket to install in the wall or ceiling. You can refer to the steps listed below:

3.1 Bracket Installation

Bracket installation interface is shown as below. See Figure 3-1.

- Dig two holes in the wall or the surface, and then input the plastic bolt to the hole and secure.
- Please put the installation holes of the bottom of the wall mount bracket to the two holes in the wall or surface (Please follow the direction shown in the Figure 3-1) and then secure firmly. Insert the two screws to the wall mount bracket to fasten the bracket.
- Put installation slot of the bottom of the device to the wall mount bracket. Put wall mount bracket to the device pedestal and then secure firmly. Finally you can turn the device clockwise to fix the device on the bracket.

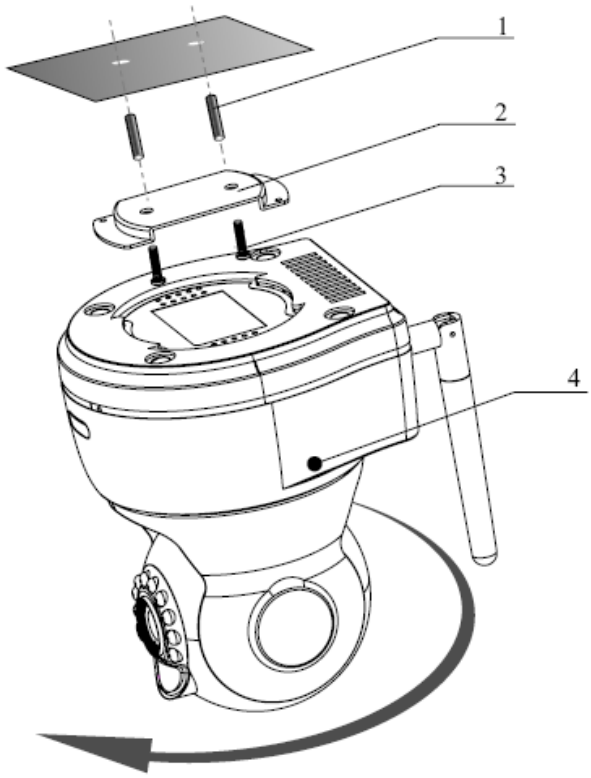

Figure 3-1

3.2 3G Card Installation

Please follow the steps listed below to install the 3G card. See Figure 3-2 and Figure 3-3.

- Use the screwdriver to loosen the 3G card protection screw in the rear panel, and then remove the 3G card protection cap from the camera.
- Install the 3G card to the camera according to the proper installation position.
- Put the 3G card protection cap back.
- Use the screwdriver to fix the 3G card protection cap screw firmly to secure the card protection cap in the camera.

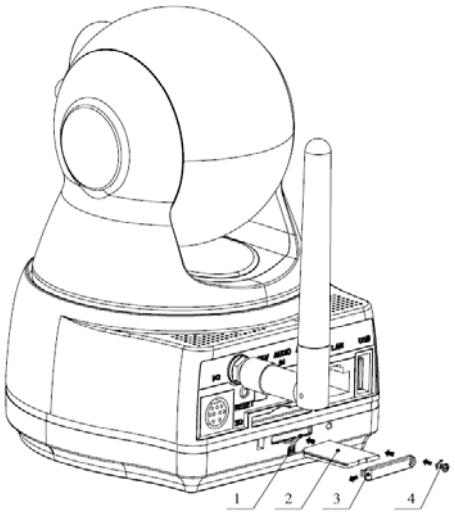

Figure 3-2

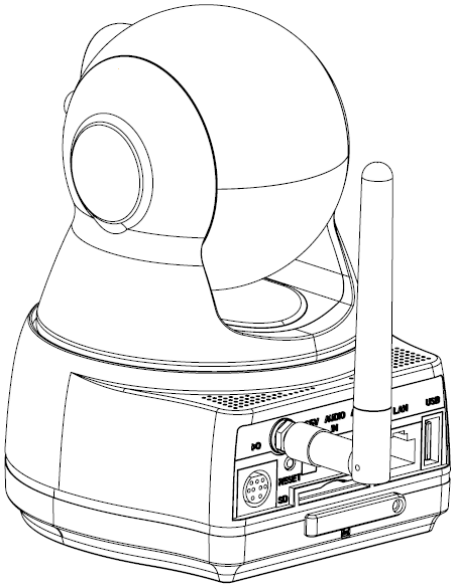

Figure 3-3

3.3 Remove 3G Card

Please refer to the steps listed below to remove the 3G card. See Figure 3-4.

- Use the screwdriver to loosen the screw of 3G card protection cap in the rear panel. Remove the cap from the camera.
- Follow the 3G card direction to remove the 3G UIM card.
- Insert the 3G card protection cap.
- Use the screwdriver to fix the screw to secure the protection cap.

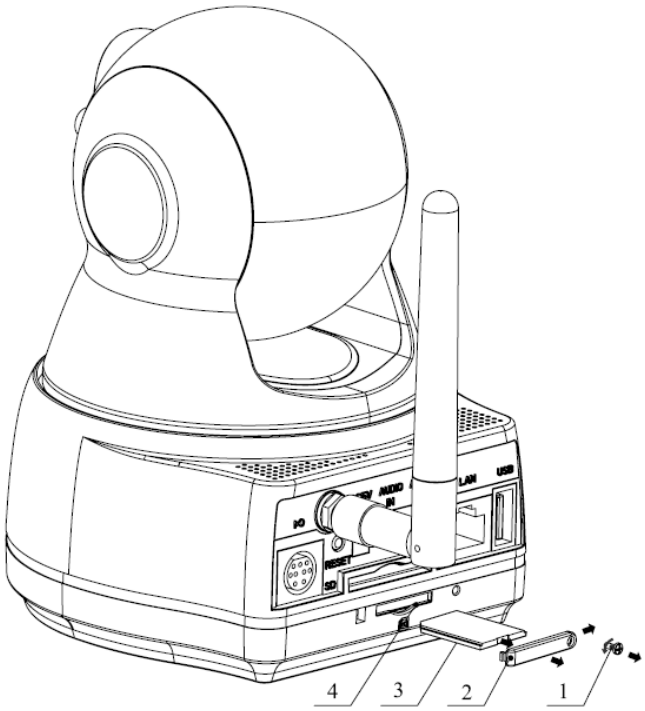

Figure 3-4

4 Quick Configuration Tool

4.1 Overview

Quick configuration tool can search current IP address, modify IP address. At the same time, you can use it to upgrade the device.

Please note the tool only applies to the IP addresses in the same segment.

4.2 Operation

Double click the “ConfigTools.exe” icon, you can see an interface is shown as in Figure 4-1. In the device list interface, you can view device IP address, port number, subnet mask, default gateway, MAC address and etc.

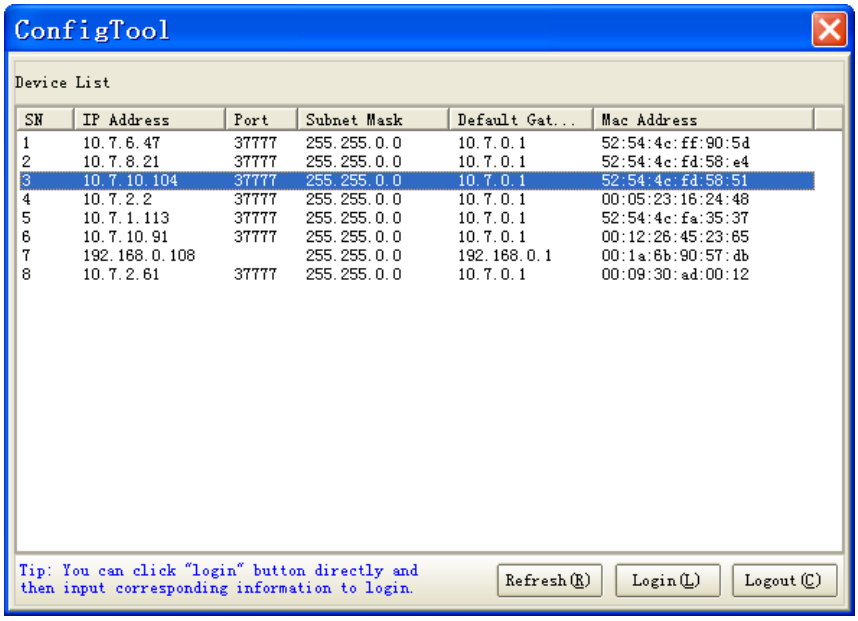

Figure 4-1

Select one IP address and then right click mouse, you can see an interface is shown as in Figure 4-2.

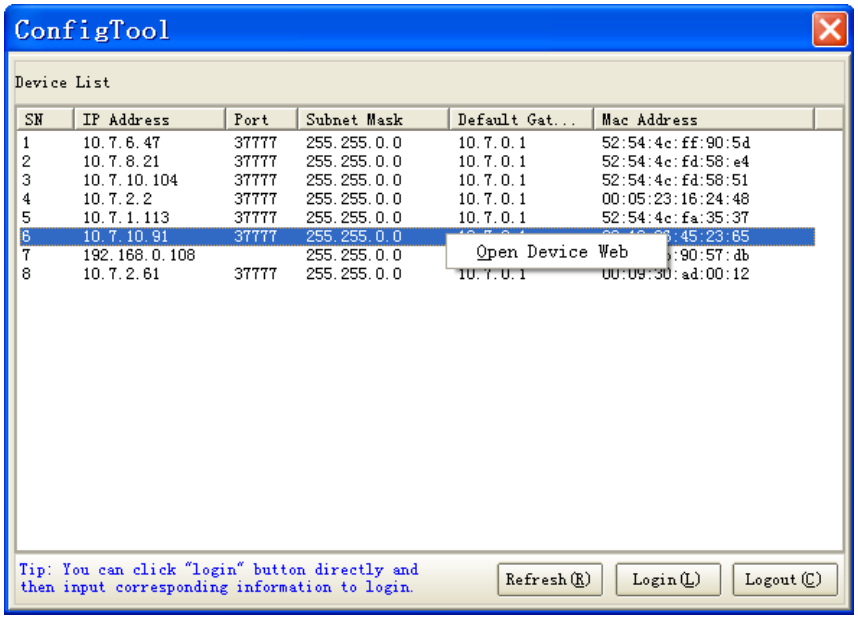

Figure 4-2

Select the “Open Device Web” item; you can go to the corresponding web login interface. See Figure 4-3.

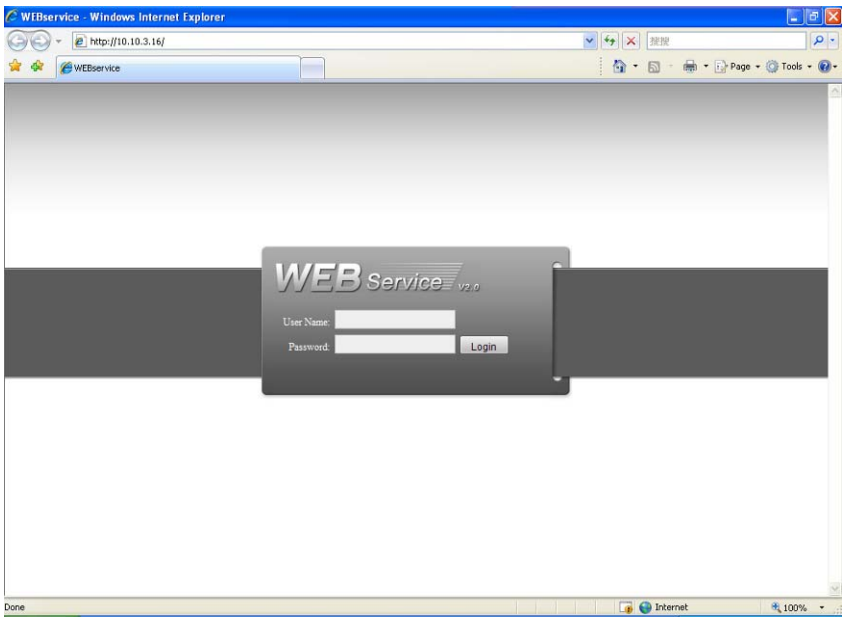

Figure 4-3

If you want to modify the device IP address without logging in the device web interface, you can go to the configuration tool main interface to set.

In the configuration tool search interface (Figure 4-1), please select a device IP address and then double click it to open the login interface. Or you can select an IP address and then click the Login button to go to the login interface. See Figure 4-4.

In Figure 4-4, you can view device IP address, user name, password and port. Please modify the corresponding information to login.

Please note the port information here shall be identical with the port value you set in TCP port in Web Network interface. Otherwise, you can not login the device.

If you are use device background upgrade port 3800 to login, other setups are all invalid.

Figure 4-4

After you logged in, the configuration tool main interface is shown as below. See Figure 4-5.

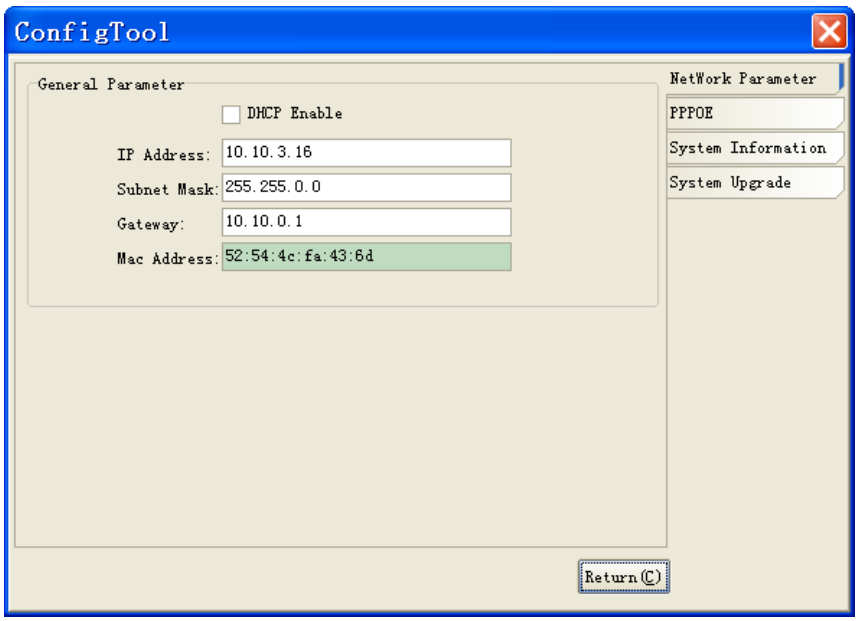
ConfigTool
General Parameter
DHCP Enable
IP Address:
10.10.3.16
Subnet Mask:
255.255.0.0
Gateway:
10.10.0.1
Mac Address:
52:54:4c:fa:43:6d
NetWork Parameter
PPPOE
System Information
System Upgrade
Return(C)

Figure 4-5

5 Web Operation

This series IPC product support the Web access and management via PC.
Web includes several modules: monitor channel list, record search, alarm setup, system configuration, PTZ control, monitor window and etc.
IP camera factory default setup:

- IP address: 192.168.1.108.
- User name: admin
- Password: admin

5.1 Network Connection

Please follow the steps listed below for network connection.

- Make sure the IPC has connected to the network properly.
- IPC IP address and PC IP address shall be in the same network segment. IPC default IP address is 192.168.1.108. If there is router, please set the corresponding gateway and subnet mask.
- Use order ping ***.***.***.***(* IP camera address) to check connection is OK or not.

5.2 Login and Main Interface

Open IE and input IP camera address in the address bar.
For example, if your camera IP is 192.168.1.108, then please input http:// 192.168.1.108 in IE address bar. See Figure 5-1.

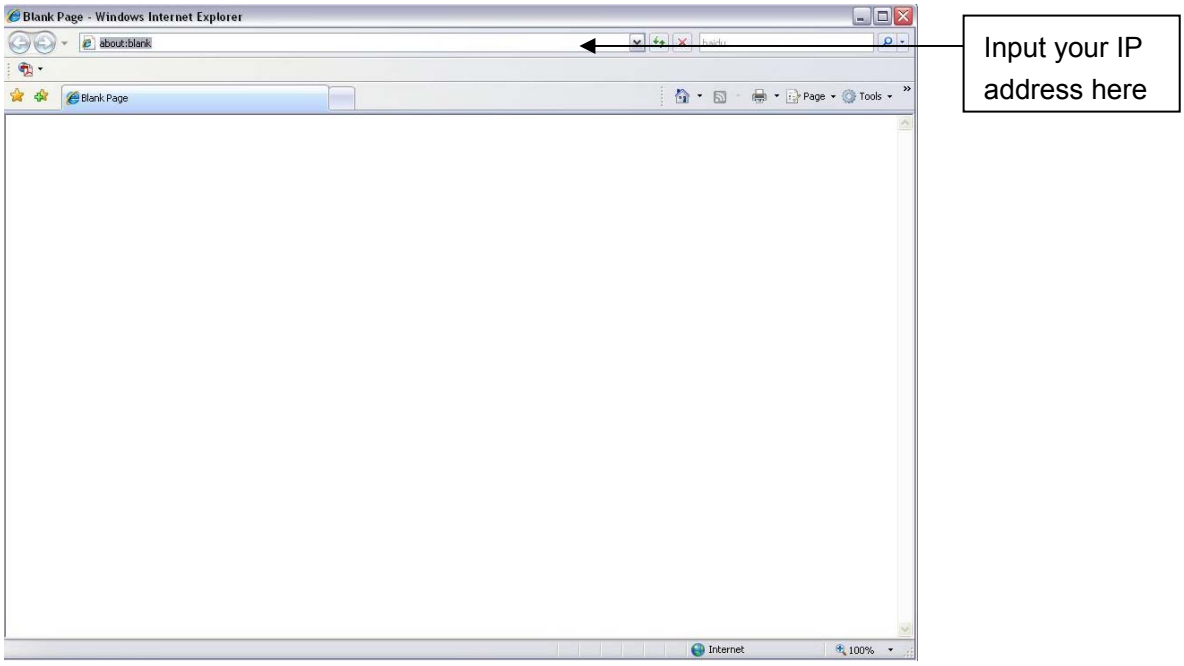

Figure 5-1

System pops up warning information to ask you whether install control webrec.cab or not.
Please click OK button, system can automatically install the control. When system is upgrading, it can overwrite the previous Web too.
If you can't download the ActiveX file, please check whether you have installed the plug-in to disable the control download. Or you can lower the IE security level. See Figure 5-2.

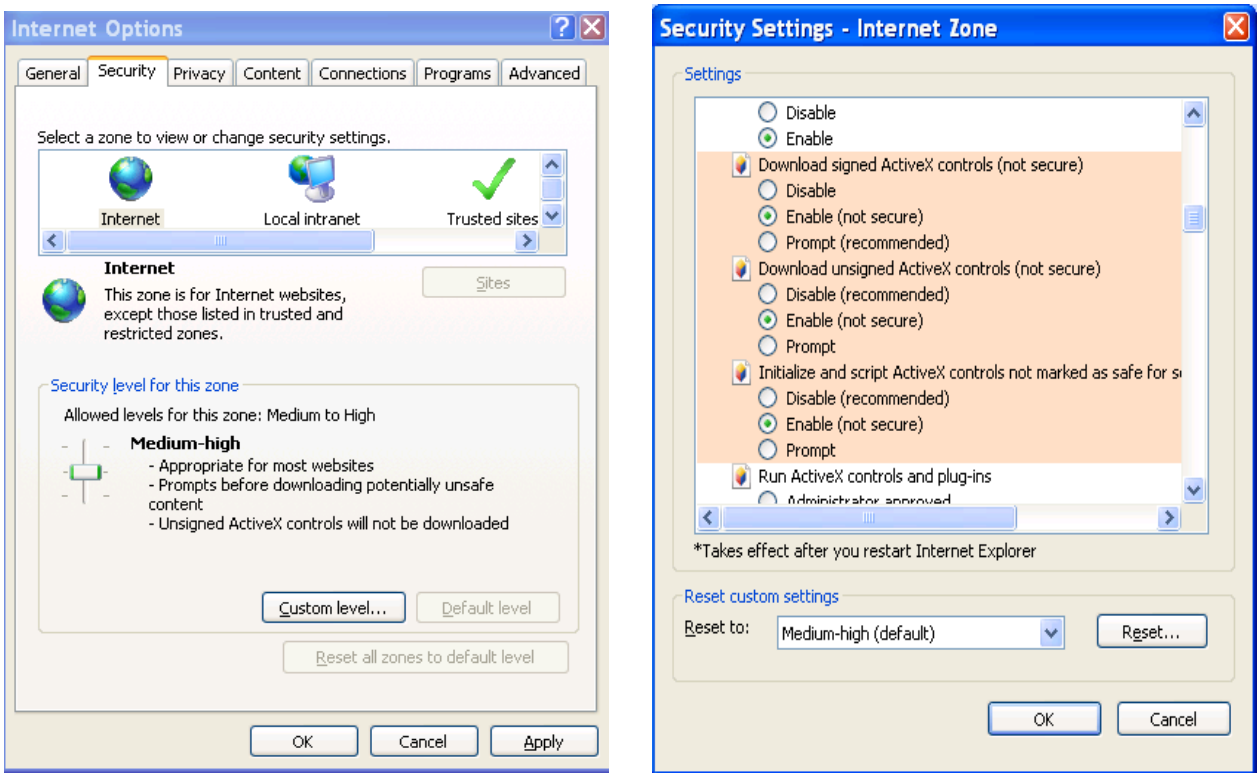

Figure 5-2

After installation, the interface is shown as below. See Figure 5-3.

Please input your user name and password.

Default factory name is admin and password is admin.

Note: For security reasons, please modify your password after you first login.

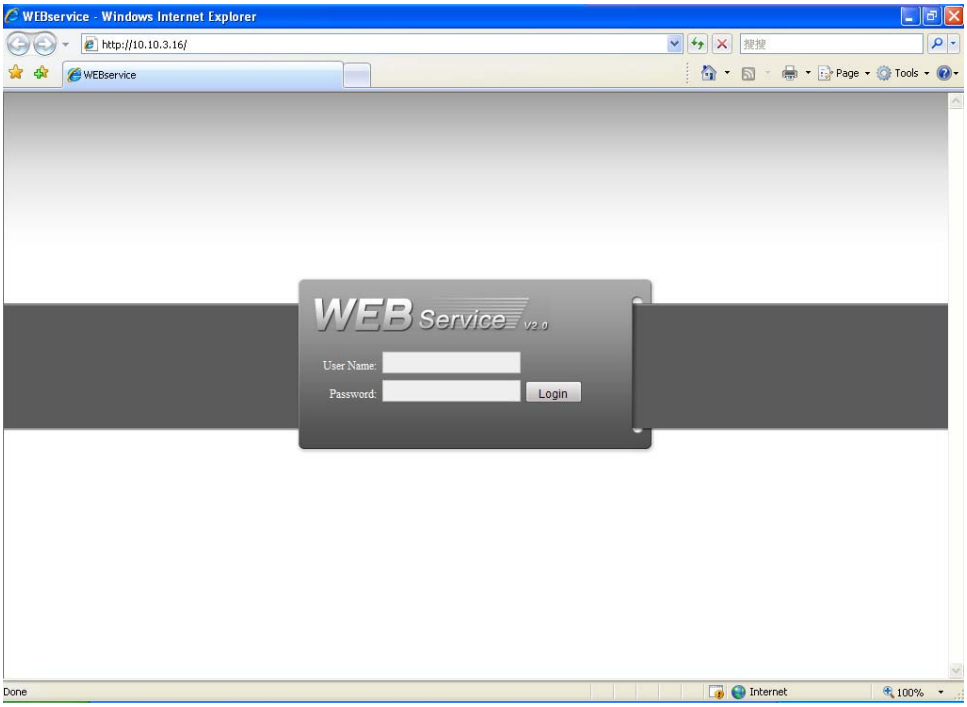

Figure 5-3

After you logged in, you can see the main window. See Figure 5-4.

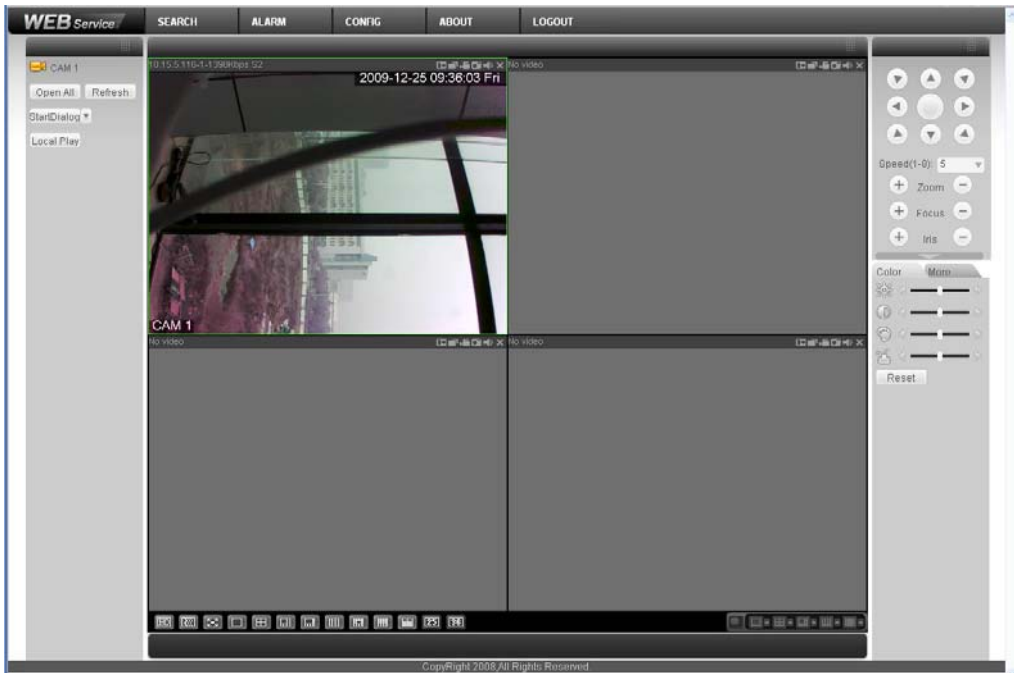

Figure 5-4

Please refer to the *Web Operation Manual included* in the resource CD for detailed operation instruction.

6 Network Connection

6.1 3G Connection

Please refer to the following figure for 3G cable connection. See Figure 6-1.

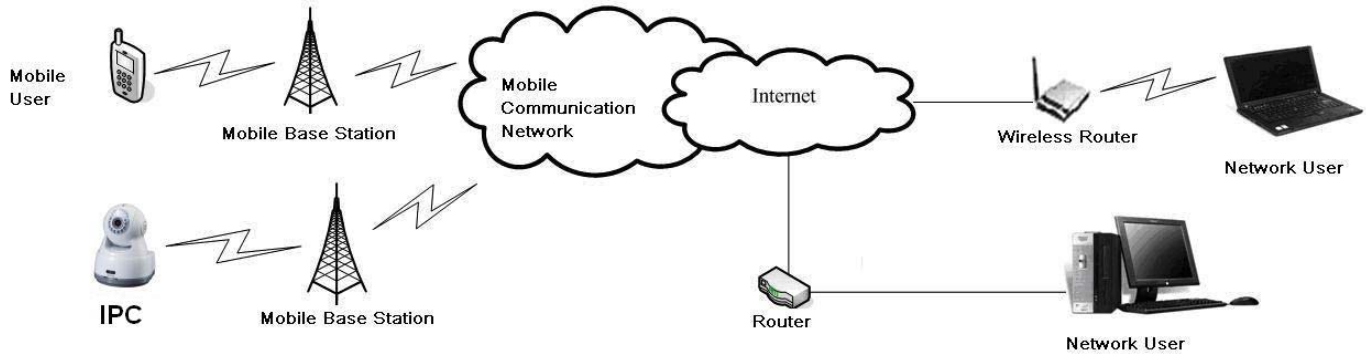

Figure 6-1

6.2 WiFi and Common Connection

Please refer to the following figure for WiFi and common connection. See Figure 6-2.

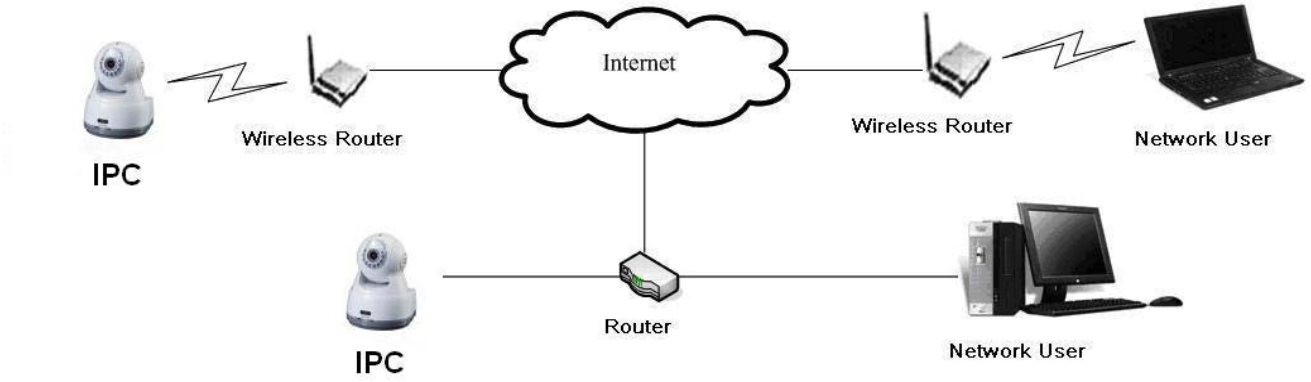

Figure 6-2

7 FAQ

Bug	
I can not boot up the device.	Please click RESET button for at least five seconds to restore factory default setup.
SD card hot swap	Before draw out SD card, please stop record or snapshot first and then wait for at least 15 seconds to remove the SD card. All the operations before is to maintain data integrity.
SD card write times	Do not set the SD card as the storage media to storage the schedule record file. It may damage the SD card duration.
I can not use the disk as the storage media.	When disk information is shown as hibernation or capacity is 0, please format it first (Via Web).
I can not upgrade the device via network.	The status indication light is shown as red when network upgrade operation failed. You can use port 3800 to continue upgrade.
Recommended SD card brand	Kingston 4GB、Kingston 1GB、Kingston 16GB、Transcend 16GB、SanDisk 1G、SanDisk 4G Usually we recommend the 4GB (or higher) high speed card in case the slow speed results in data loss.
General PTZ operation	If you want to use the general PTZ, please select the protocol as DH-SD1 or DH-SD2.
Audio function	Please use active device for the audio monitor input, otherwise there is no audio in the client-end.

Appendix Toxic or Hazardous Materials or Elements

Component Name	Toxic or Hazardous Materials or Elements					
	Pb	Hg	Cd	Cr VI	PBB	PBDE
Circuit Board Component	○	○	○	○	○	○
Device Construction Material	○	○	○	○	○	○
Wire and Cable	○	○	○	○	○	○
Packing Components	○	○	○	○	○	○
Accessories	○	○	○	○	○	○

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

Note

- **The general series product does not have the wireless network and 3G function. WIFi function is for –W series only. 3G function is for 3G product only.**
- **This manual is for reference only. Slight difference may be found in the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website or contact your local service engineer for more information.**