F Series Indoor IP Camera User's Manual

For F725/F726/F715/F665/F645/F625 series only

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

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, inflammable, explosive substances and etc.

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.

Accessory Name	F726/ F725/ F715 Series	F625/F645/F665 Series	Amount
IPC Unit	■	■	1
Lens	□	■	1
Power Adapter	■	■	1
Quick Start Guide	■	■	1
Warranty Card	■	■	1
Certificate Card	■	■	1
CD	■	■	1

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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 (wire, WIFI, 3G), 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/u audio compression technology, which maximally guarantee the audio and video quality.

This series IPC has mega pixel resolution and supports PoE and 12V DC power. It supports the wireless network application, bidirectional talk, digital water mark and etc.

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 office, bank, road monitor and etc.

1.2 Feature

User Management	● Different user rights for each group, one user belongs to one group.
Data Transmission	● Built-in USB port supports TD-SCDMA、EVDO（CDMA2000 1X）、WCDMA module so that IPC can support mobile communication data transmission. ● Built-in USB port support Wifi module so that the IPC can support the 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 file are storage in the client-end PC. ● Support local SD card hot swap. Please note SD card can only memorize the image.
Alarm Function	● Real-time respond to external alarm input(within 200MS) as user pre-defined activation setup and exert corresponding message in screen and audio prompt(allow user to pre-record audio file) ● Provide central management server management option so that system can automatically send alarm notice remotely. Alarm input can connect to various peripheral equipments. ● Provide prompt or alarm option when encounter video loss. ● Support SMS(short messaging service) function when alarm occurs.
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 protocol: HTTP, TCP, UDP, MULTICAST and RTP/RTCP and etc. ● Send some alarm data or message via SMTP. ● Support web access, widely used in WAN.
Network Management	● Realize IPC configuration and management via Ethernet. ● Support device management via web.

Peripheral Equipment	● Support peripheral equipment management, each peripheral equipment control protocol and interface can be set freely. ● Support serial port (RS232/RS485) transparent data transmission.
Power	● External power adapter ● PoE
Assistant Function	● Day/Night mode auto switch ● Auto aperture setup (For 715/F6X5 series only). ● Backlight compensation: screen auto split to realize backlight compensation to adjust the bright. ● Support video watermark function to avoid vicious video modification. ● Video format support NTSC and PAL. ● Support system resource information and running status real-time display. Support log function. ● Use IR receiver to receive the IR signal. (For F726/715/F6X5 series only). ● Electronic PTZ: electronic zoom, direction move (For F725 series only)

1.3 Specification

1.3.1 Performance

Please refer to the following sheet for IPC performance specification.

Name		Specification			
		IPC-F726	IPC-F725	IPC-F715	IPC-F6X5
Video	Standard	PAL：1f/s～12.5f/s. NTSC：1f/s～15f/s (Now it max supports 12.5f/s.)	PAL：1f/s～25f/s. NTSC：1f/s～30f/s		
	Encode capacity	One 720＋ one HD1	One 720＋ one HD1	One 720＋ one HD1	One D1+ one CIF
	Encode Bit Stream	**Main stream：** UXGA (1600*1200) **Extra stream：** D1(704*576/704*480) HD1(352*576/352*480) CIF（352*288/352*240） QCIF(176*144/176*128) QVGA(320*240) QQVGA(160*128）	UXGA (1600*1200) WSXGA(1600*1024) SXGA (1280*1024) WXGA(1280*800） XVGA(1024*768） SVGA(800*600） VGA(640*480） QVGA(320*240） D1(704*576/704*480) HD1(352*576/352*480) CIF(352*288/352*240) QCIF(176*144/176*128) QVGA(320*240） QQVGA(160*128) 720(1280*720）	1.3M（1280*960） 720（1280*720） VGA（640*480） QVGA（320*240） D1（704*576/704*480） HD1（352*576/352*480） CIF（352*288/352*240） QCIF（176*144/176*128） QQVGA（160*128）	D1（704*576/704*480） BCIF（720*288） HD1（352*576/352*480） CIF（352*288/352*240） QVGA（320*240） QCIF（176*144/176*128） QQVGA（160*128）

	Video Record Speed	PAL：1f/s～12.5f/s. NTSC：1f/s～15f/s (Now it max supports 12.5f/s.)	**UXGA/WSXGA/SXGA/ WXGA/XVGA:** 1f/s to 15f/s per channel(adjustable) **Other resolutions:** PAL：1f/s-25f/s per channel (adjustable). NTSC：1f/s-30f/s per channel (adjustable).	**1.3M resolution:** PAL：1f/s-12f/s per channel (adjustable). NTSC：1f/s-22f/s per channel (adjustable). **Other resolutions:** PAL：1f/s-25f/s per channel (adjustable). NTSC：1f/s-30f/s per channel (adjustable).	PAL：1f/s-25f/s per channel (adjustable). NTSC：1f/s-30f/s per channel (adjustable).
Network Capacity		Max support 10 network users to monitor simultaneously TCP output capacity 75Mbps UDP output capacity 85Mbps			
Power Consumption		Usually it is 4W and the max value is less than 5W.	Usually it is 3W and the max value is less than 4W.		
Power		DC 12V			
		PoE（48V DC）			
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）		58mm*69mm*139mm			
Weight		500g			

1.3.2 Function Specification

Please refer to the following sheet for function specification information.

Specification		Note			
		F725	**F715**	**F6X5**	**F726**
Lens Control	Zoom Adjustment	Manual			
	Focus Adjustment	Manual			
	Aperture Adjustment	Manual DC	Manual/Auto DC	Manual/Auto DC	N/A
CCD Video Process	Backlight compensation control	Manual On/Off			
	White balance adjustment	Auto			
	Contrast ness adjustment	Manual/Auto			
	Bright ness adjustment	Manual/Auto			
	Electronic shutter control	Auto	Manual/Auto	Manual/Auto	Auto
	Color/B&W(Day/Night) switch	Manual/Auto **Note** The color/B&W (Day/Night) switch here just an electronic switch. System removes the color elements and reserves the B&W elements. It is not a filter switch.			
Video	Resolution	UXGA、WSXGA、SXGA、WXGA、XVGA、SVGA、	1.3M、720、VGA、QVGA、D1、	D1、BCIF、HD1、CIF、QVGA、	UXGA、D1、HD1、CIF、

		VGA、QVGA、D1、HD1、CIF、QCIF、QVGA、QQVGA、720	HD1、CIF、QCIF、QQVGA	QCIF、QQVGA	QCIF、QVGA、QQVGA
	Video compression	Standard H.264 encode/decode format			MPEG4 video compression standard
	Motion Detection	Take 18*22 pix as a macro unit. Support 396 detection zones. Sensitivity level ranges from 1 to 6.			
	Dual-stream	1-ch 15f UXGA＋1-ch CIF	1-ch 25f 720＋1-ch HD1	1-ch 25f D1 ＋1-ch 25f CIF	1-ch 12.5f UXGA＋1-ch 12.5f CIF
Audio	Bidirectional Talk	Delay within 200ms			
	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 filter			
		IP address auto search function			
		Wireless Network Interface :802.11b/g			N/A
Record	Schedule Record	Support max 6 periods.			
	Manual Record	After enabling manual record, no matter system is in schedule or alarm status or not, system just begins recording.			
	Alarm Record	System automatically enables recording function when alarm occurred.			
	Motion Detection Record	When video changes, system automatically enables record operation.			
OSD	Time Title Display	There are 255 layers. 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	Local SD storage	Support high-speed card/low-speed card			
	Based on SDK network storage	Supported			
	Based on FTP network storage				
Alarm	Network alarm/local alarm output	1-ch local/network alarm output			
	Local alarm/network alarm input	1-ch local/network alarm input			
Event Management	Activate alarm via motion detection or external input	Please enable pre-record function when activating the alarm			

	Upload video file or JPEG file via email、FTP、HTTP	Upload automatically
	Send out alarm notice via email, HTTP and external port.	Support de-jitter when alarm occurs frequently.
	Support video short time buffer storage before or after alarm	Pre-record is 2Mbytes. Buffer storage video of 5s.
Control	RS485 PTZ control	Support semi-duplex communication way.
	RS232	For debug
On-line Upgrade	Network remote upgrade	Use upgrade tool.
	COM upgrade	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 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.	
Water Mark	To avoid vicious video modification.	
Power supply	PoE (For –P series only). Comply to IEEE802.3af standard	
	DC12V power supply	
RESET	Support hardware/software/Watchdog reset. Watch dog max supports 35 seconds.	
Port ESD protection	Alarm input port	
	Analog audio input/output port. Analog video output port	
	Network port	
	12V power adapter	
Interface	One analog video output port	
	One audio input port	
	One audio output port	
	Two alarm input ports	One alarm input port / One alarm input port / Two alarm input ports
	One alarm output port	
	One network interface（RJ45 10M/100M self-adaptive Ethernet port）	
	One wireless network interface（For –W series only）	Reserved
	One remote control receiver port	

	One SD card port Support high-speed card/low-speed card.	
	One 3G card port (For 3G series only.)	Reserved
Others	One red/green running status indication light.	
	One green network receive and send indication light （Network interface seat has ）	
	One yellow network connection indication light （Network interface seat has）	
	One green wireless network receive/send indication light. (For –W series only.)	Reserved
	One RESET button	
	Auto aperture port. (DC drive mode）	Reserved
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			
			F726	F725	F715	F6X5
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	MPEG4	H.264	H.264	H.264
		Audio/Video enable	Enable audio and video			
		General bit stream	General bit stream			
		Resolution	UXGA	720	720	D1
		Frame rate	25			
		Bit stream control	VBR			
		Quality	Good			
		Bit stream value	4096	2048	2048	2048
		I frame interval control	24	50	50	50
	Extra Stream	Extension Stream	General bit stream			
		Audio/Video enable	Enable audio and video			
		Resolution	CIF			
		Frame rate	12	25	25	25
		Bit stream control	VBR			
		Quality	Good			
		Bit stream value	512			
		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		EPTZ	EPTZ	DH-SD1	DH-SD1
	Address		1			
	Baud rate		115200			
	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	Record control		Auto. Ch1 (This series device does not support this function.)			
	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	D1			
		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	N/A	Disable	Disable
	White Balance		N/A			
	Signal Type		Internal input			
	Mirror		Disable	Disable	N/A	N/A
	Flip		Disable	Disable	N/A	N/A
Auto Registration	Enable		Disable			
	SN		1			
	IP		0.0.0.0			
	Port		7000			
	Device ID		Dahua			
DNS Setup	DNS		202.101.172.35			
	Alternative DNS		202.101.172.35			

2 Framework

2.1 Rear Panel

This series IP camera real panel is shown as below. See Figure 2-1.

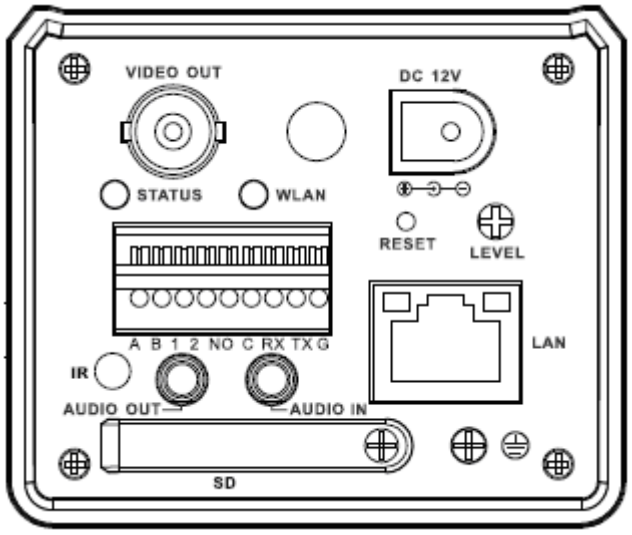

Figure 2-1

Please refer to the following sheet for detail information.

Interface Name		Connector	Function
VIDEO OUT	Video output port	BNC	Output analog video signal. Can connect to TV monitor to view video.
Wireless Antenna Port			Connect to wireless antenna to receive WIFI/3G wireless signal.
DC 12V			Power port. Input 12V DC
STATUS	Status indication light		It is to indicate camera working status: ● The red light becomes on when connect the

			camera to the power. The green light flashes and then becomes on, which means application is running normally. Now you can log in via network. ● The indication light becomes off when you reboot the system via software. ● The green light flashes when system is recording. ● The red light flashes when system is upgrading. ● The red light is on in safety mode.
WLAN	Wireless network indication light		The wireless network indication light is to display wireless network working status. The network indication light becomes green when you connect the IP camera to the wireless network.
A	RS485 port	I/O port	RS485_A port, control external PTZ

B			RS485_B port, control external PTZ
1	Alarm input port 1		Alarm input port 1. To receive the signal from the external alarm device.
2	Alarm input port 2		Alarm input port 2. To receive the signal from the external alarm device. (For F725 series only.)
NO	1-ch alarm output		Alarm output port. To output alarm signal to the alarm device. NO: Normal open alarm output end. C: Alarm output public end,
C			
RX	Transparent debug serial port		RS232_RX，RS232 receive end.
TX			RS232_TX，RS232 COM send out end.
G	GND		Ground end
RESET	RESET button		Restore factory default setup. When system is running normally (power indication light is green), press the RESET button for at least 5 seconds, system can restore factory default setup.

LEVEL	Auto aperture adjustment button		Adjust aperture level. (For F715 and F6X5 series only) Please always use nonmetal material tool to adjust.
IR	Infrared remote receiver		Receive the IR signal from the remote control. (This function does not apply to F725 series product.)
AUDIO OUT	Audio output port	Audio output 3.5mm JACK port.	Output audio signal to the device such as sound box.
AUDIO IN	Audio input port	Audio input 3.5mm JACK port.	Input audio signal. Receive signals from devices such as pick-up.
LAN		Ethernet port	Connect to standard Ethernet cable.
SD	SD card port		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 operation.

2.2 Side Panel

Please refer to the following interface for side panel dimension information. See Figure 2-2.

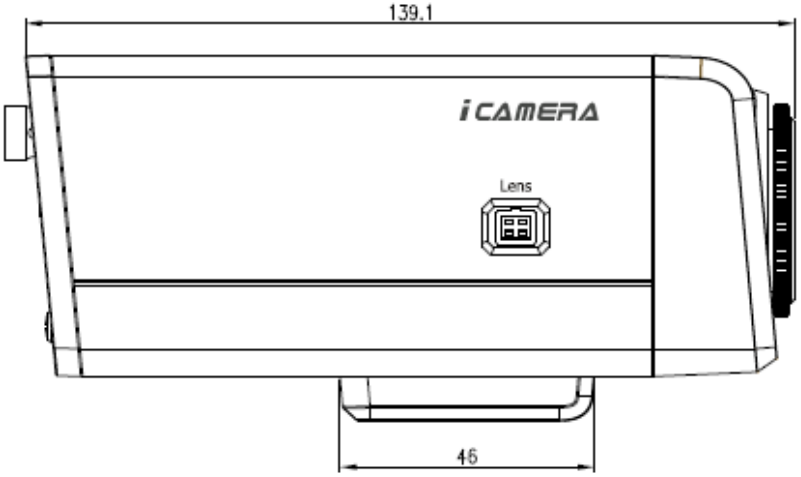

Figure 2-2

2.3 Lens

Please refer to the following interface for lens dimension information. See Figure 2-3.

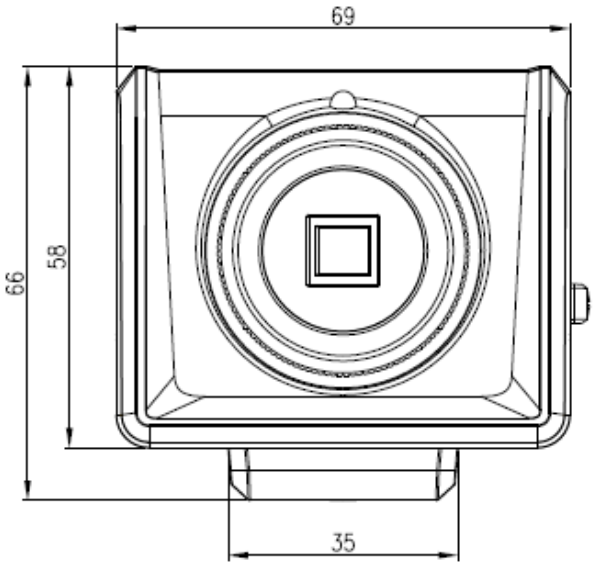

Figure 2-3

2.4 Remote Control

Please refer to the following interface for remote control information. See Figure 2-4.

Figure 2-4

Please refer to the following sheet for detail information.

Icon	Name	Function
RST	Reset device	Reserved for future use
	Emergency	Reserved for future use

Fn	Reserved	Reserved for future use
Rec	Record	Reserved for future use
	Alarm arm	Reserved for future use
	Alarm disarm	Reserved for future use
	Go to safe mode	
	Exit safe mode	Reserved for future use
	Direction buttons	Number switch/Function switch
		Number switch/Function switch
		Go to the previous
		Go to the next
Enter	Confirm/Menu button	Go to the menu or confirm current operation.
Esc	Cancel	Cancel current setup
0 ~ 9	Number 0 to number 9	Number/password/channel switch
10+	For number more than 10+	Reserved
	Input method switch	Reserved

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 2-5

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 2-5) 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.

3 Installation

3.1 Lens Installation

3.1.1 Auto Aperture Lens

Please follow the steps listed below for auto aperture lens installation. The interface is shown as in Figure 3-1 and Figure 3-2.

Remove the CCD protection cap of the device, and then line up the lens to the proper installation position. Turn clockwise until the lens is fixed firmly.

Insert the lens cable socket to the auto lens connector in the side panel.

When it is ∞, you can turn the ADJUST screw to adjust the focus circle to adjust the focal distance.

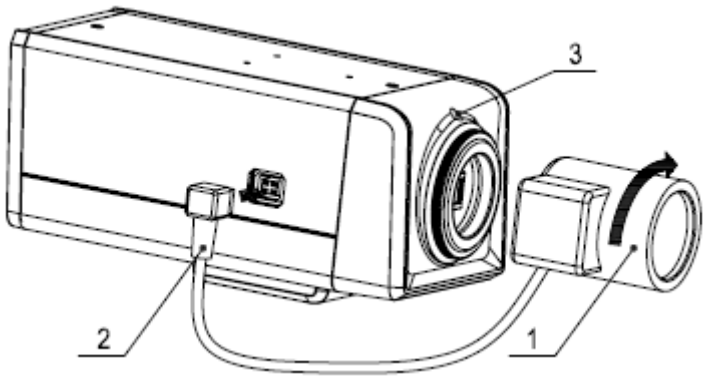

Figure 3-1

3.1.2 Manual Lens

Install C type lens

Remove the CCD protection cap; use the cross-head screwdriver to remove the screw near the focal circle. Then please turn counter clockwise to move the focal circle out for several millimeters. Now you can focus manually.

Then please use the cross-head screwdriver to fix the screw back firmly. Secure the focal circle. Finally, line up lens to the proper installation. Turn clockwise to fix the lens firmly.

Install CS type lens

Remove the CCD protection cap; use the cross-head screwdriver to remove the screw near the focal circle. Then please turn counter clockwise to move the focal circle to the end and now you can focus manually.

Then please use the cross-head screwdriver to fix the screw back firmly. Secure the focal circle. Finally, line up lens to the proper installation. Turn clockwise to fix the lens firmly.

Please note this series IPC is compatible with C type lens and CS type lens. Default setup is CS lens.

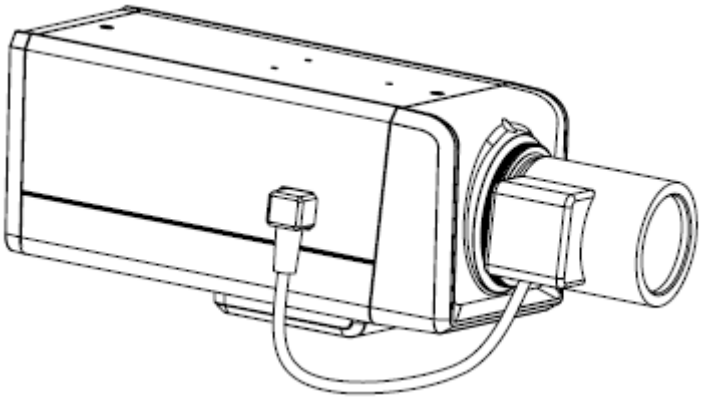

Figure 3-2

3.1.3 Remove Lens

Please follow the steps listed below to remove lens. The interface is shown as in Figure 3-3.
Turn the lens counter clockwise and then remove it from the camera.
Unplug the auto lens cable socket from the auto lens connector. If you are using the manual aperture lens, please skip to the following step.
If there is no lens, please put the CCD protection cap back to protect the CCD.

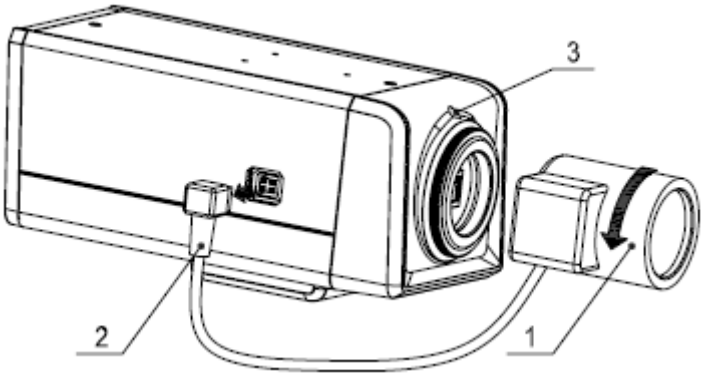

Figure 3-3

3.1.4 SD Card Installation

Please follow the steps listed below to install SD card. The interface is shown as in Figure 3-4 and Figure 3-5.
Use the screwdriver to loosen the SD card protection screw in the rear panel, and then remove the SD card protection cap from the camera.
Install the SD card to the camera according to the proper installation position.
Put the SD card protection cap back.
Use the screwdriver to fix the SD card protection cap screw firmly to secure the SD card protection cap in the camera.

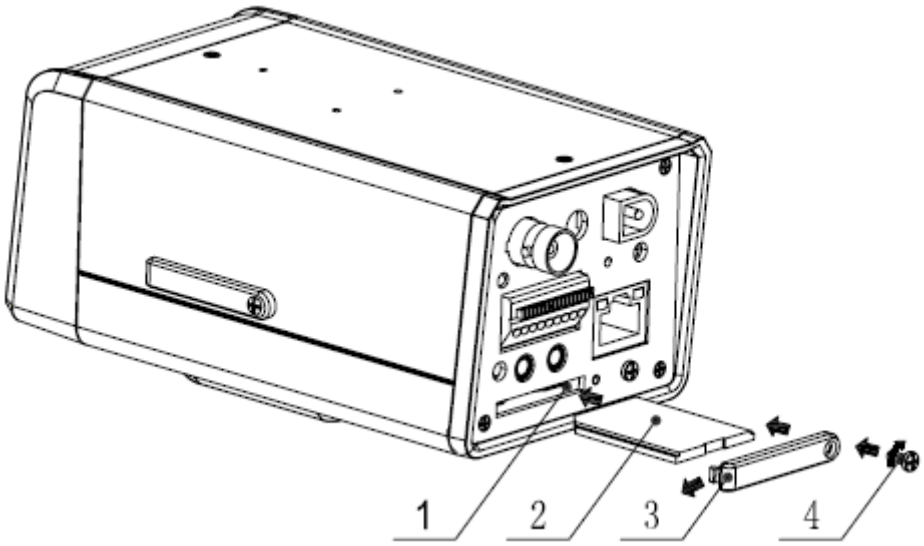

Figure 3-4

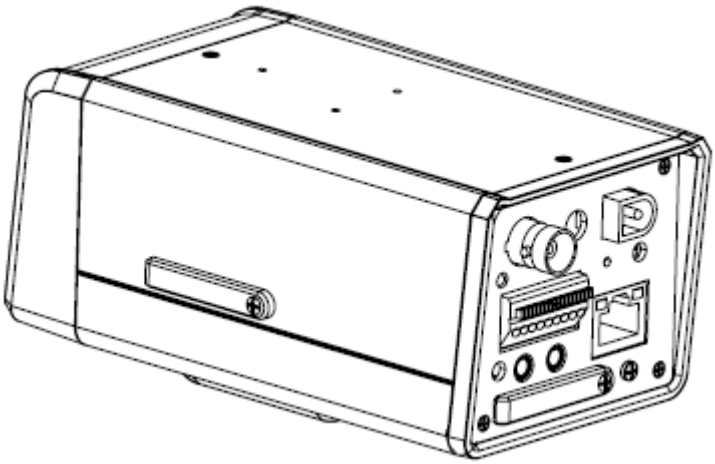

Figure 3-5

3.1.5 Remove SD card

Please follow the steps listed below to remove SD card. The interface is shown as Figure 3-6.

Use the screwdriver to loosen the screw of SD card protection cap in the rear panel. Remove the cap from the camera.

Follow the SD card direction to remove the SD card.

Insert the SD card protection cap.

Use the screwdriver to fix the screw to secure the protection cap.

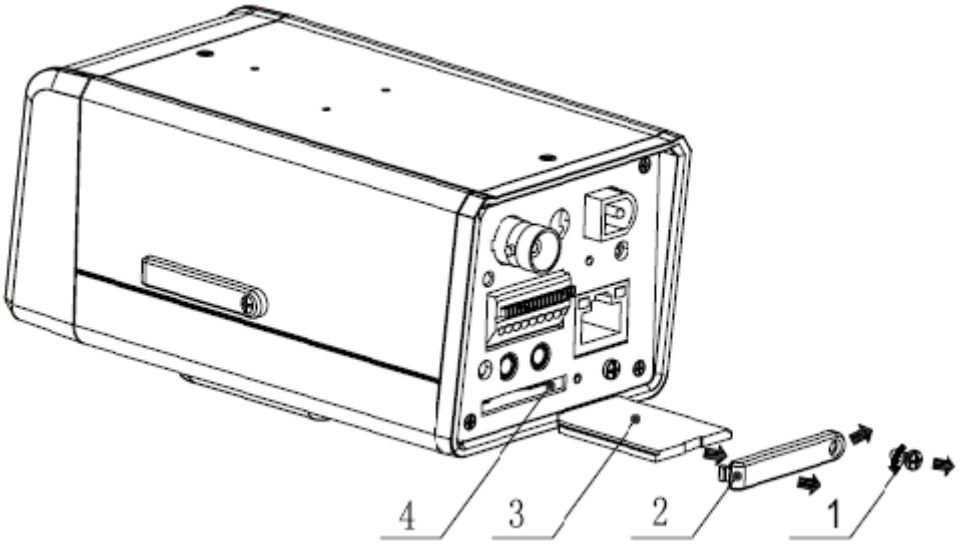

Figure 3-6

3.1.6 3G Card Installation

Please follow the steps listed below to install 3G card. The interfaces are shown as Figure 3-7 and Figure 3-8.

Use the screwdriver to loosen the 3G card protection cap screw in the side panel, and then remove the 3G card protection cap from the camera.

Install the 3G SIM 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 3G card protection cap.

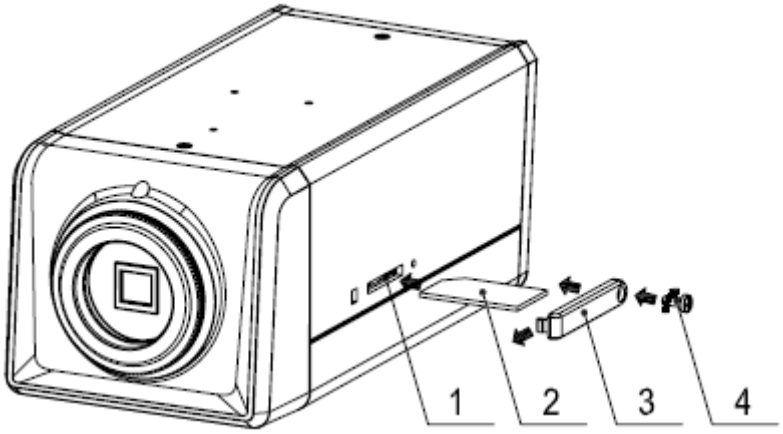

Figure 3-7

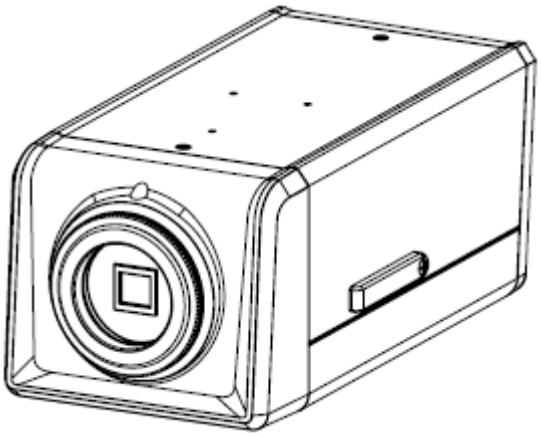

Figure 3-8

3.1.7 Remove 3G card

Please follow the steps listed below to remove 3G card. The interface is shown as Figure 3-9.

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 SIM card.

Insert the 3G card protection cap.

Use the screwdriver to fix the screw to secure the protection cap.

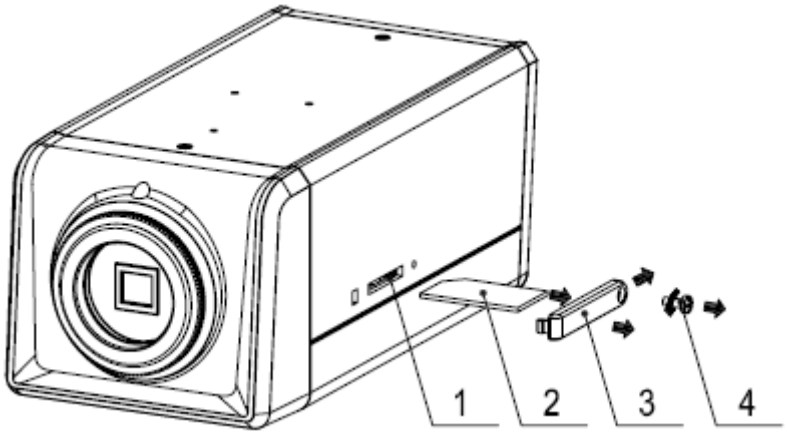

Figure 3-9

3.1.8 I/O Port

Install Cable

Please follow the steps listed below to install the cable. See Figure 3-10.

Use the small slotted screwdriver to press the corresponding button of cable groove. Insert the cable into the groove and then release the screwdriver.

Remove Cable

Please follow the steps listed below to remove the cable.

Use the small slotted screwdriver to press the corresponding button of cable groove. Remove the cable out of the groove and then release the screwdriver.

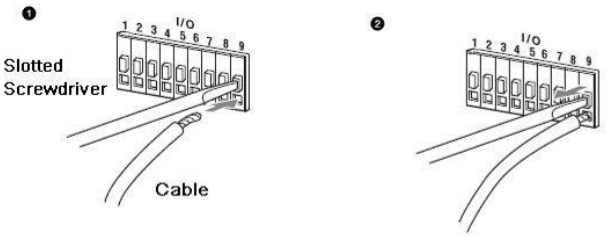

Figure 3-10

4 System Network

4.1 General Network

Please refer to Figure 4-1 for Wifi and general system connection.

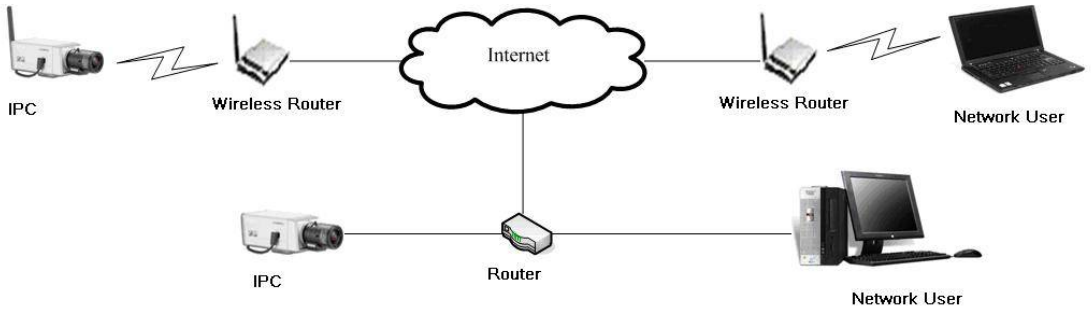

Figure 4-1

4.2 3G Network

Please refer to Figure 4-2 for 3G cable connection.

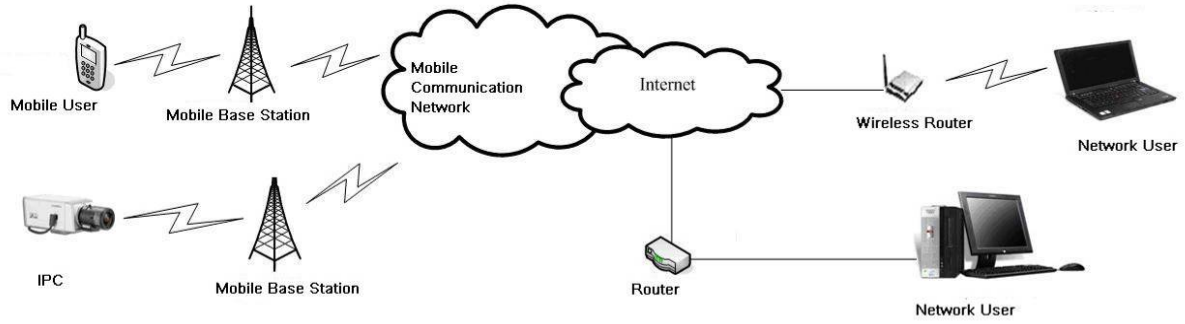

Figure 4-2

5 Quick Configuration Tool

5.1 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.

5.2 Operation

Double click the “ConfigTools.exe” icon, you can see an interface is shown as in Figure 5-1. In the device list interface, you can view device IP address, port number, subnet mask, default gateway, MAC address and etc.

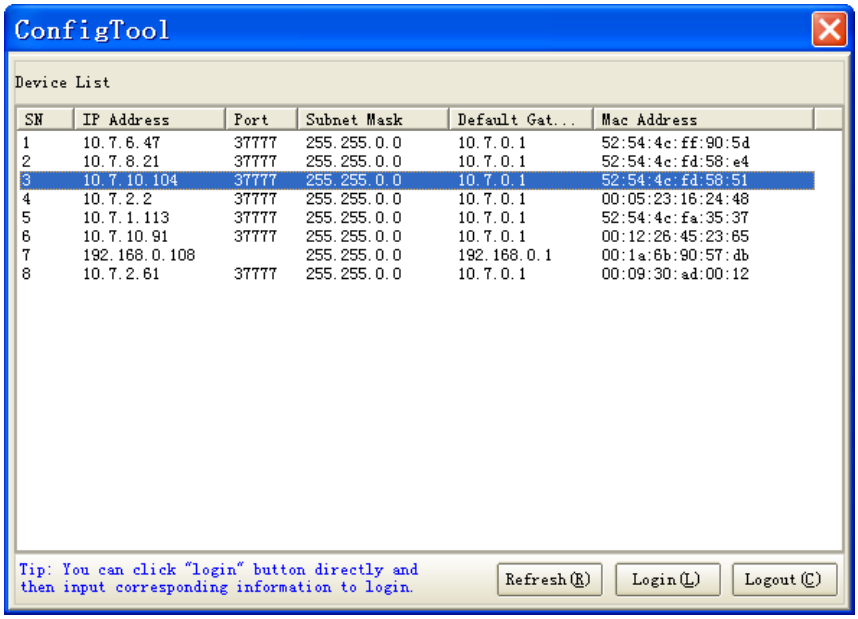

Figure 5-1

Select one IP address and then right click mouse, you can see an interface is shown as in Figure 5-2.

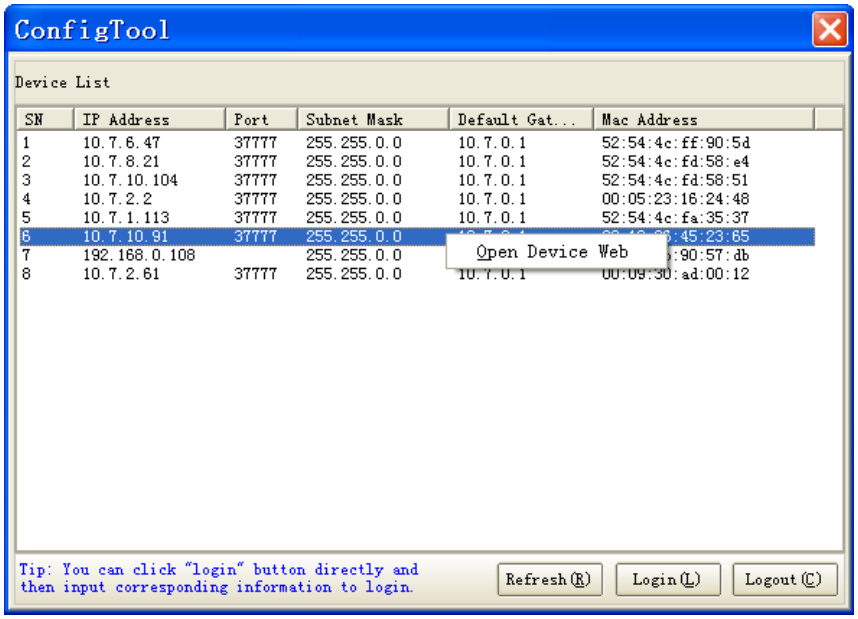

Figure 5-2

Select the “Open Device Web” item; you can go to the corresponding web login interface. See Figure 5-3.

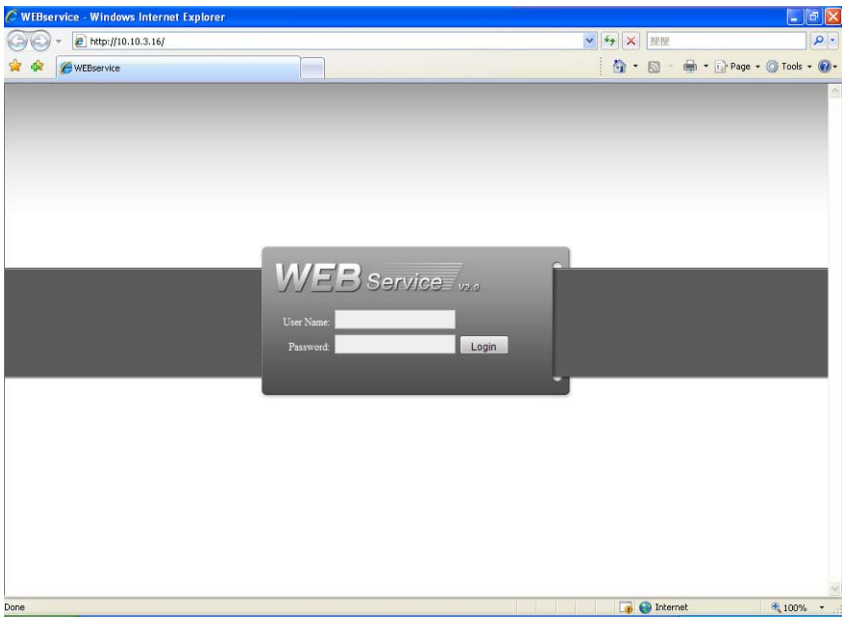

Figure 5-3

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 5-1), 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 5-4.

In Figure 5-4, 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 5-4

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

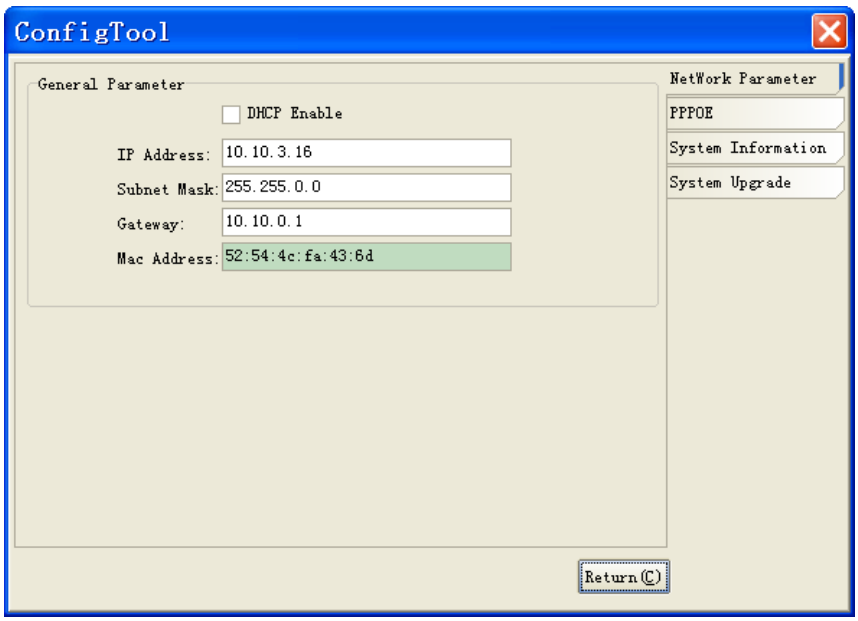
ConfigTool
General Parameter
DHCP Enable
IP Address:
10.10.3.16
Subnet Mask:
255.255.0.0
Gateway:
10.10.0.1
Mac Address:
52:54:4c:fa:43:6d
NetWork Parameter
PPPOE
System Information
System Upgrade
Return(C)

Figure 5-5

6 Web Operation

This series IPC product support the Web access and management via PC.
Web includes several modules includes 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

6.1 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.

6.2 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 6-1.

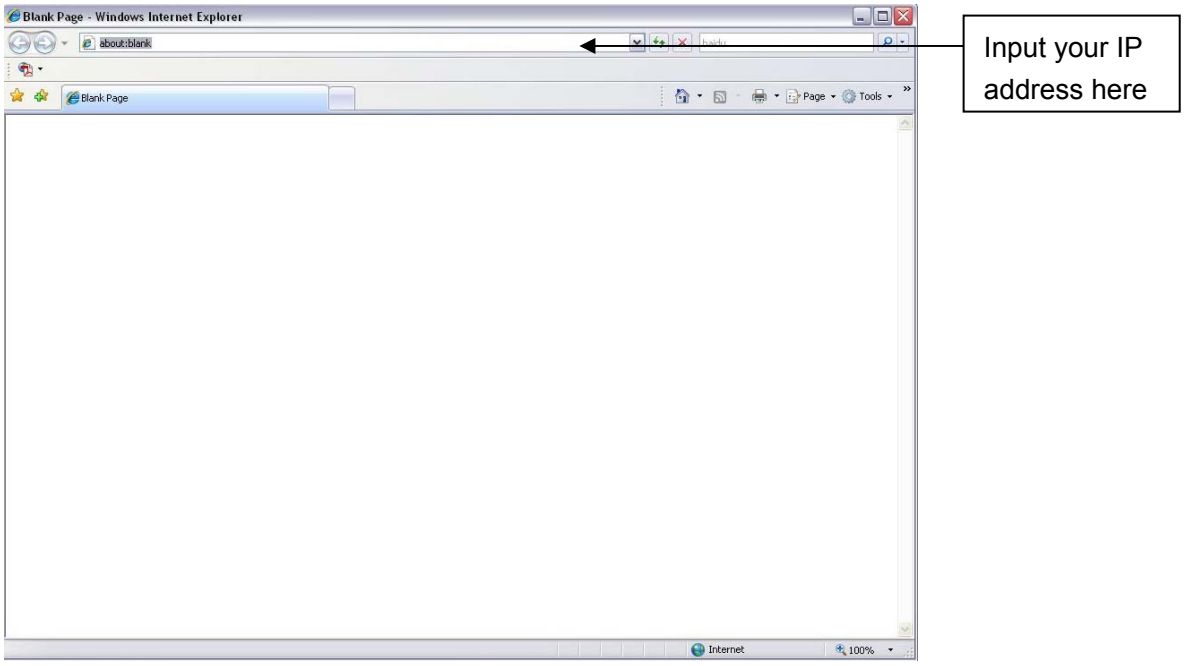

Figure 6-1

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 6-2.

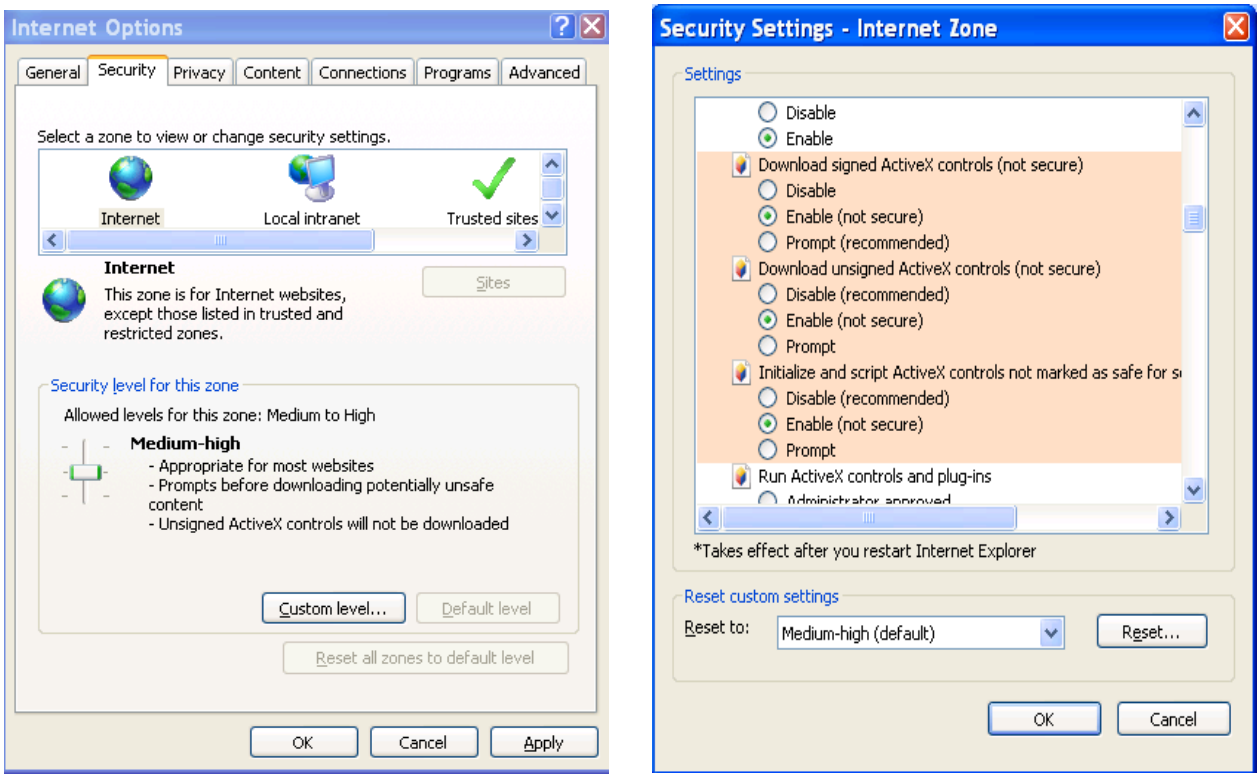

Figure 6-2

After installation, the interface is shown as below. See Figure 6-3.

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.

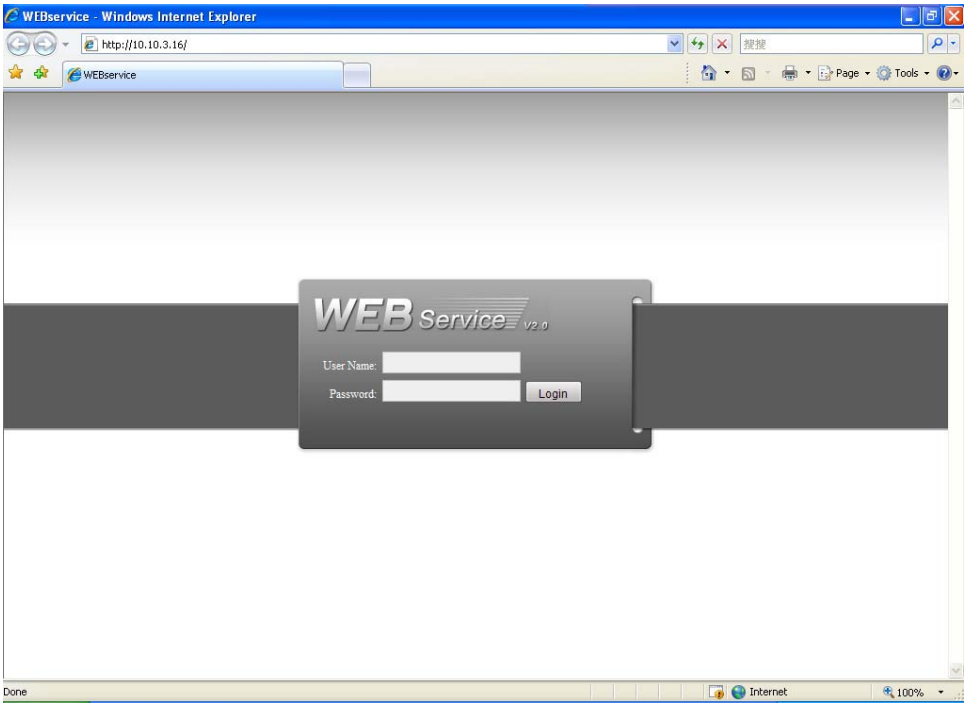

Figure 6-3

After you logged in, you can see the main window. See Figure 6-4.

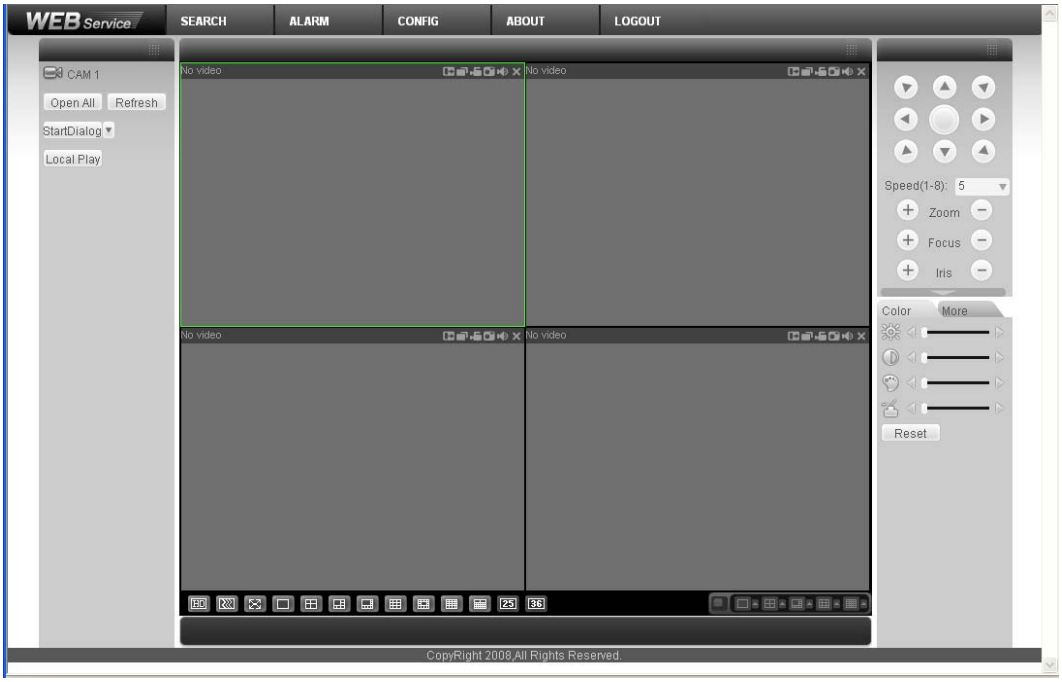

Figure 6-4

Please refer to the *F Series IPC Web Operation Manual V2.0* included in the resource SD for detail operation instruction.

7 GUI Operation

Connect the IPC to the monitor and then boot up the device. You can use the monitor to view the analog video output, and use the remote control to realized network setup, encode setup and etc.
Note:
Please use the remote control to highlight the item, and then you can implement the setup.

7.1 Main Menu

Line up the remote control to the IR port in the rear panel. Click Enter button to go to the software menu operation interface. See Figure 7-1.
Use the left/Right button in the remote control to select the item you desire and then click Enter button to go to the sub-menu. Click ESC button to exit current interface.

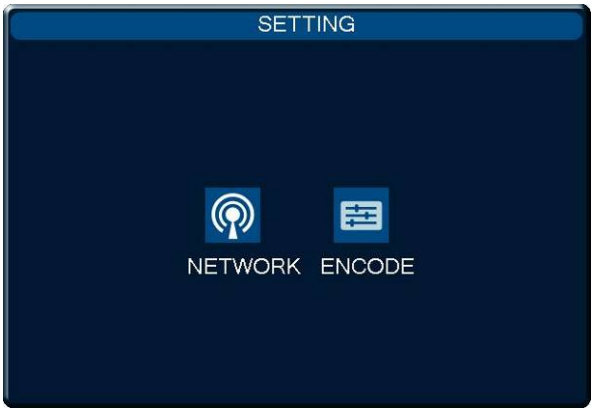

Figure 7-1

7.2 Network Setup

Network setup interface is shown as below. See Figure 7-2 and Figure 7-3(For –W series only).
Please use the Left/Right button to select the item you want to set, use the number or Up/Down key to set the value. For item of only one option, please move the cursor to highlight the corresponding parameter and then click Enter button to save current modification.
Please follow the steps listed below.

- Firstly, move the cursor to the port item and then select the corresponding network card (Figure 7-2). For –W series product, ff you want to use the wireless network, you need to enable port 02 and then highlight the “preferred” item (Figure 7-3).
- Secondly, click the Right button in the remote control to move the cursor to DHCP item and then click Enter button to enable DHCP function.
- Thirdly, click the Right button to move the cursor to the IP address item, click Up/Down button or click number button to set the value you desire. Click Right button you can go on the next setup. Click Left button you can go to the previous setup. Click Enter button to save current modification.
- Finally, after you completed all setups, highlight the Save item and then click Enter button in the remote control to save the latest modification. If you want to cancel current setup, please highlight the Cancel button and then click the Enter button in the remote control or you can just click the ESC button in the remote control directly.

You can set one item and then save it for security, or you can complete all setups and then save all modifications at the same time.

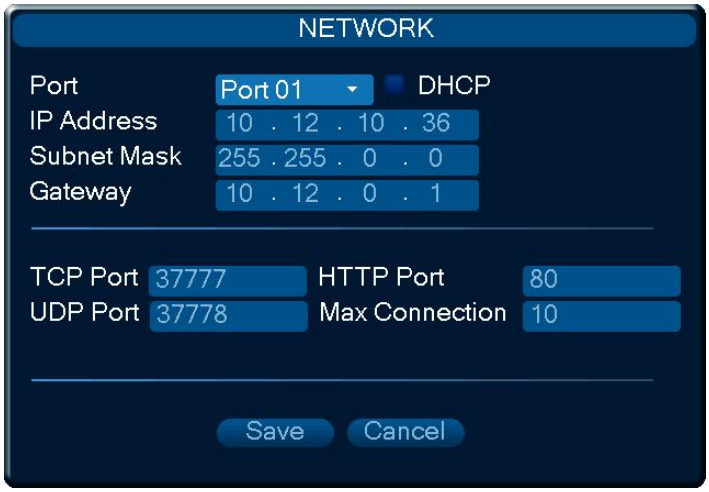

Figure 7-2

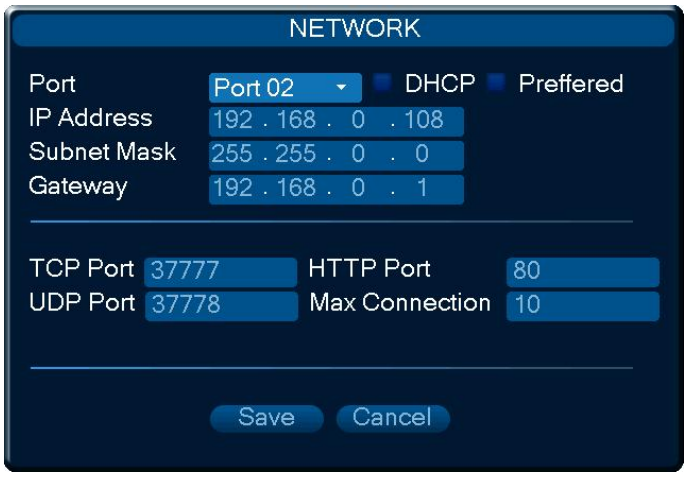

Figure 7-3

7.3 Encode Setup

Encode setup interface is shown as below. See Figure 7-4.

Please use the Left/Right button to select the item you want to set, use the number or Up/Down key to set the value. Please click Enter button in the remote control to save current modification. Click ESC button you can go back to the main interface without saving current modification. Please follow the steps listed below.

- Firstly, move the cursor to the “channel” item and then select the corresponding channel number. Please note you can not modify the channel here.
- Secondly, click the Right button in the remote control to move the cursor to “compression” and “Main stream” item, and then click Enter button to select main stream type and compression mode. Please note you can not modify extra stream here.
- Thirdly, click the Right button to move the cursor to “Audio”/”Video” item, click Enter button to enable corresponding function.
- Fourthly, click the Right button to move the cursor to “Resolution” item, click Up/Down button to select the corresponding value. You can follow the operation here to set other items.

- Finally, after you completed all setups, highlight the Save item and then click Enter button in the remote control to save the latest modification. If you want to cancel current setup, please highlight the Cancel button and then click the Enter button in the remote control or you can just click the ESC button in the remote control directly.

You can set one item and then save it for security, or you can complete all setups and then save all modifications at the same time.

Figure 7-4

8 Wireless Network Access Setup (For W Series Only)

Please note this chapter is for W series only.

8.1 Wireless Router Setup

Please follow the steps listed below for wireless router setup. The following setup interface is based on TL-WR340G/TL-WR340GD 54M Wireless Router. See Figure 8-1.

- Please modify your PC IP address so that your PC is in the same segment of the wireless router. Please make sure you can access the wireless router.
- Open the wireless router setup interface. The SSID is the ID of the wireless router in the network. You can input a self-defined name for your reference.
- Please check the box to enable wireless security function and then select WEP security type. It includes WEP64 bit and WEP128bit. The WEP key format can be ASCII or hex. Finally you can set the detail WEP encryption password. These passwords are for you go login the wireless router. System max supports 4 groups. You can skip current step if your wireless router does not support encryption function.
- Click save button to save current setup.

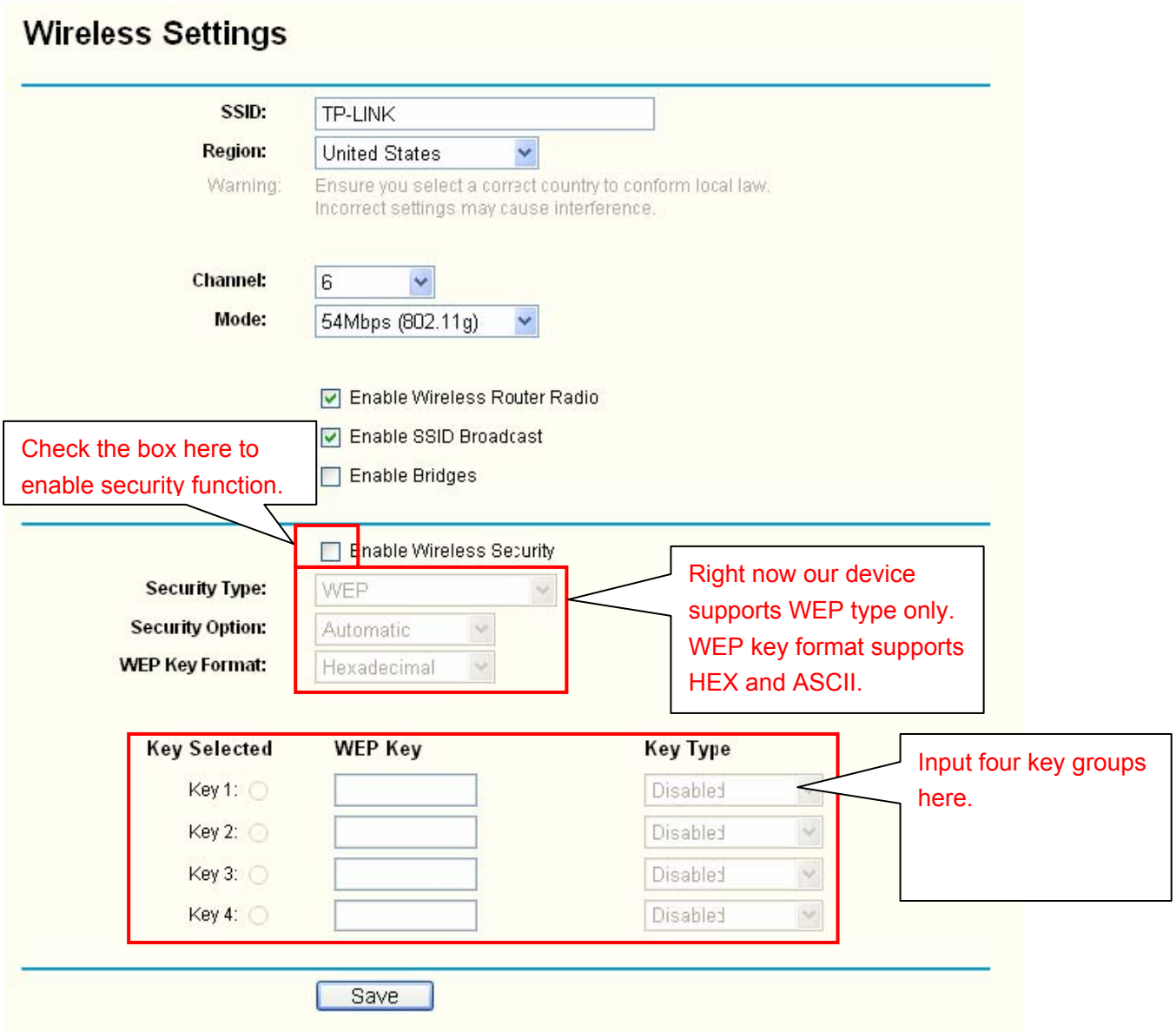

Figure 8-1

Note

The wireless router setup interface may not be the same since there are too many wireless router manufacturers and product series. But the key setup items are similar. Generally speaking, you need to login the router interface, and then go to the wireless network parameter setup interface. Please enable the wireless router function first and then set security mode, encryption mode, key mode.

8.2 IPC Web Network Setup

Please follow the steps listed below to complete the web setup.

- Please set an IP address to the device and then connect the device and the PC to a wireless router to establish a LAN.
- In the PC, open the IE and then input device IP to login the device Web. In the network setup interface, please select port 02 (wireless). Now you can set wireless IP address, subnet mask and gateway information. Device default wireless IP address is 192.168.0.108. If you are using wire and wireless network at the same time, please set the wireless IP and wire IP in two segments. You can go to the local GUI network interface to complete this setup.
- Finally, you can click save button and then exit the Web. Open the IE again and then input wireless IP address.

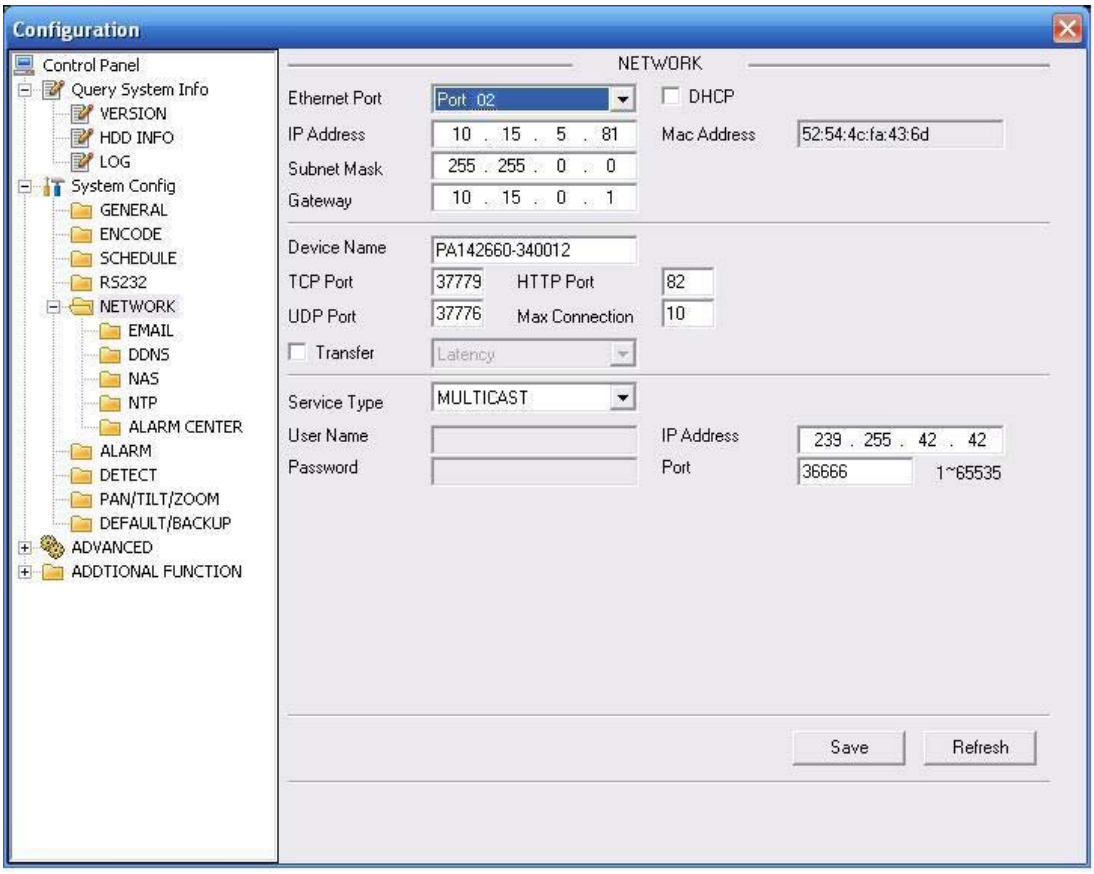

Figure 8-2

Note

If you are using the IP address in the WAN, you can follow the above steps too. You can access the IP address in the WAN first and then set the wireless IP address in the Network interface (Figure 8-2).

8.3 Web Setup

Please follow the steps listed below to implement Web setup.

- Click SSID search button to search the wireless router available.
- Check the enable box to enable wireless configuration function.
- Double click the wireless router SSID to begin the setup. System can configure the mode and WEP encryption mode automatically (according to your wireless router setup).
- If the wireless router adopts the WEP encryption mode, you need to set the corresponding encryption information manually. You can select mode, WEP mode, and key type. Click the save button to save current setup and then click refresh button to view the latest setup information. You can skip to the next step if your wireless router does not use WEP encryption function.
- After setting the wireless router and device parameter, you can remove the device network cable and then access the device in the wireless mode.

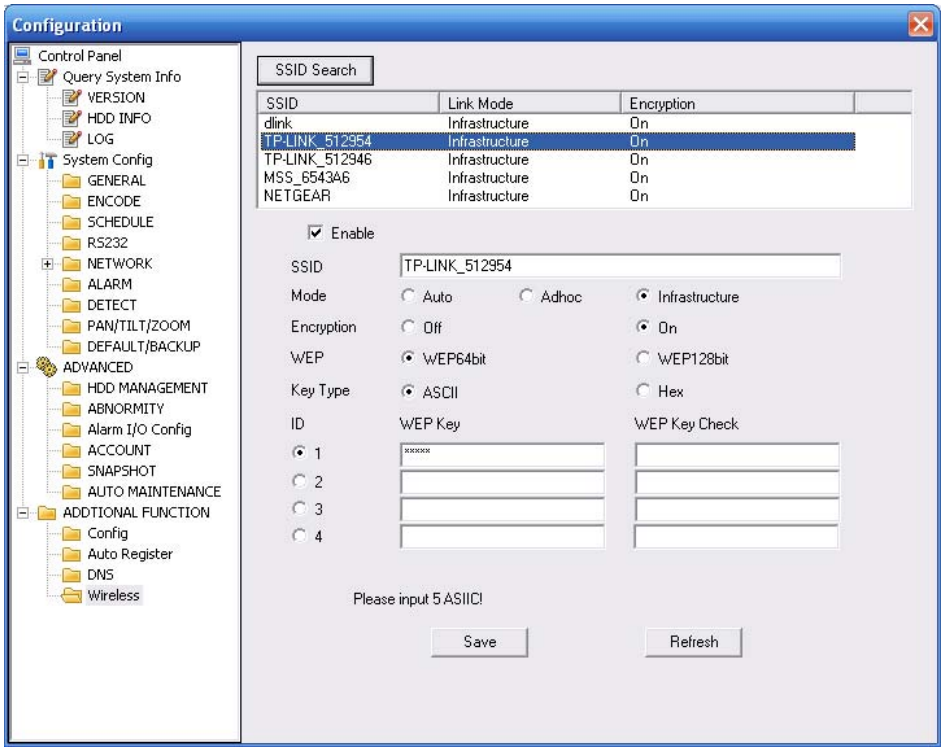

Figure 8-3

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

9 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.
Electronic PTZ operation (For F725 series only)	If you want to use electronic PTZ, please set the protocol as EPTZ. The device only supports electronic PTZ operation when the IPC resolution is less than SVGA.
Audio function	Please use active device for the audio monitor input, otherwise there is no audio in the client-end.

Note

- **This user's manual is for reference only. The wireless network function is for W series only and 3G function is for special series only.**
- **Slight difference may be found in user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **Please visit our website for more information.**