



XP5000T

Megapixel Indoor IP Camera User's Manual

Version 3.5.1

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.

The power shall conform to the requirement in the SELV (Safety Extra Low Voltage) and the Limited power source is rated 12V DC or 24V AC in the IEC60950-1.

Before you replace the SD card, please unplug the power cable and then remove the shell

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 camera.

3 . Environment

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

The working temperature ranges from -10°C to +60°C. Please keep it away from the electromagnetic radiation object and environment.

Please keep the sound ventilation.

Do not allow the water and other liquid falling into the camera.

Thunder-proof device is recommended to be adopted to better prevent thunder.

The grounding studs of the product are recommended to be grounded to further enhance the reliability of the camera.

4. Daily Maintenance

Current series has no power button. Please unplug all corresponding power cables before your installation.

Do not touch the CCD or CMOS part; you can use the blower to clean the dust on the surface of the lens. You can use the dry cloth with some alcohol to clear if necessary.

Please keep the dustproof cap back to protect the CCD or CMOS part if the IP camera does not work for a long time.

If there is too much dust on the housing, please use the water to dilute the mild detergent first and then use it to clean the device with the clear dry cloth. Finally use the dry cloth to clean the device.

5. Accessories

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	Amount
Unit	1
C/CS adapter ring	1
Quick Start Guide	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, storage together. It can connect to the network directly without any auxiliary device.

This camera uses standard H.264 video compression technology and PCM, G.711a/u audio compression technology, which maximally guarantees the audio and video quality.

This camera has mega pixel resolution and supports 12V DC/24V AC 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 high definition, multiple functions and various applications, this camera is widely used in many indoor environments and other important area surveillance.

1.2 Feature

User Management	<ul style="list-style-type: none">● Different user rights for each group, one user belongs to one group.● The user right can not exceed the group right.
Data Transmission	<ul style="list-style-type: none">● Support cable network data transmission via Ethernet● Wireless device supports WIFI/3G wireless data transmission.
Storage Function	<ul style="list-style-type: none">● 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. Support short-time storage when encounter disconnection.● Support network storage such as FTP.
Alarm Function	<ul style="list-style-type: none">● Real-time respond to external on-off alarm input, and video detect as user pre-defined activation setup and generate corresponding message in screen and audio prompt(allow user to pre-record audio file)● Real-time video detect: motion detect, camera masking.
Network Monitor	<ul style="list-style-type: none">● IPC supports one-channel audio/video data transmit to network terminal and then decode. Delay is within 270ms (network bandwidth support needed)● Max supports 20 connections.● Adopt the following audio and video transmission protocol: HTTP, TCP, UDP, MULTICAST, RTP/RTCP, RTSP and etc.● Support web access.
Network Management	<ul style="list-style-type: none">● Realize IPC configuration and management via Ethernet.● Support device management via web.● Support various network protocols.
Peripheral Equipment	<ul style="list-style-type: none">● Support peripheral equipment connection via the RS232 port, each peripheral equipment control protocol and interface can be set freely.● Support serial port (RS232/RS485) transparent data transmission.● Support the on-off alarm device to alarm via the sound or the light.
Power	<ul style="list-style-type: none">● External power adapter. Support DC 12V/AC 24V power supply.
PoE	<ul style="list-style-type: none">● Support Power over Ethernet (PoE). Conform to the IEEE802.3af standard.● Connect the device to the switcher or the router that supports the PoE function to

	realize the network power supply. <ul style="list-style-type: none"> ● To guarantee proper performance, please make sure the power sourcing device can supply at least 10W power. ● Usually, do not use the PoE for the WIFI/3G device.
Assistant Function	<ul style="list-style-type: none"> ● Day/Night mode auto switch (ICR switch.) ● Backlight compensation: screen auto split to realize backlight compensation to adjust the bright. ● Support system resource information and running status real-time display. Support log function. ● Support video watermark function to avoid vicious video modification. ● Support auto aperture. ● Support picture parameter setup such as electronic shutter and gain setup. ● Support dual-stream, ACF(Active frame control)

1.3 Specifications

1.3.1 Performance

Please refer to the following sheet for performance specification.

Model		IPC-HF3500
Parameter		Series
System	Main Processor	TI Davinci high performance DSP
	OS	Embedded LINUX
	System Resources	Support real-time network, local record, and remote operation at the same time.
	User Interface	Remote operation interface such as WEB, DSS, PSS
	System Status	SD card status, bit stream statistics, log, and software version.
Video Parameter	Image Sensor	1/2.5-inch CMOS
	Pixel	2560(H)*1920(V)
	Day/Night Mode	Support day/night mode switch and IR-CUT at the same time.
	Auto Aperture	Optional
	Gain Control	Fixed/Auto
	White Balance	On/off
	BLC	On/off
	Electronic Shutter	Manual/Auto PAL: It ranges from 1/3 to 1/10000. NTSC: It ranges from 1/4 to 1/10000.
	Video Compression Standard	H264/ JPEG/MJPEG
	Video Frame Rate	PAL: Main stream (2560*1920@8fps) Extra stream(704*576@8fps) Main stream (1920*1080@25fps) Extra stream (704*576@25fps)
		NTSC: Main stream (2560*1920@8fps) Extra stream (704*480@8fps) Main stream (1920*1080@30fps) Extra stream (704*480@30fps)
	Video Bit Rate	H.264: 56Kbps-8192Kbps. MJPEG is adjustable and bit rate is adjustable.

		Support customized setup.
	Flip	Support
	Mirror	Support
	Snapshot	Max 1f/s snapshot. File extension name is JPEG
	Privacy Mask	Each channel supports max 4 privacy mask zones
	Video Setup	Support parameter setup such as bright, contrast.
	Video Information	Channel title, time title, motion detect, privacy mask.
	Lens	Optional
	Lens Interface	C/CS optional
	Audio Input	1-channel, 3.5mm JACK LINE IN
Audio	Audio Output	1-channel, 3.5mm JACK SPEAK OUT
	Bidirectional Talk Input	Reuse the first audio input channel
	Audio Bit Rate	16kbps 16bit
	Audio Compression Standard	G.711A/G.711u/PCM
Video	Motion Detect	396 (18*22) detection zones; sensitivity level ranges from 1 to 6 (The 6 th level has the highest sensitivity) Activation event, alarm device, audio/video storage, image snapshot, log, email function and etc.
	Camera Masking	Sensitivity level ranges from 1 to 6. Each sensitivity level is the percentage of the privacy mask zone. Activation event, alarm device, audio/video storage, image snapshot, log, email SMTP function and etc.
Alarm Input		1-channel input, 1-channel output
Record Backup and	Record Priority	Manual>External alarm >Video detect>Schedule
	Local Storage	Support local SD card hot swap
	Storage Management	Support display local storage status
Network	Wire Network	1-channel wire Ethernet port, 10/100 Base-T Ethernet
	Network Protocol	Standard HTTP, TCP/IP, ARP, IGMP, ICMP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, UPNP, NTP, Bonjour, SNMP.
	Remote Operation	Monitor, PTZ control, system setup, file download, log information, maintenance, upgrade and etc
AUX Interface	Video Output	1-channel analog video output, BNC port
	Network Interface	1-channel Ethernet, 10/100 Base-T Ethernet (The IPC-HF3110-F series product has the optical port.)
	3G Port	Support 3G SIM card, TD/EVDO/WCDMA function. (For 3G series product only.)
	Antenna Port	Support to receive the wireless signal (This function is for 3G and WIFI series product only.)
	RS485 port	PTZ control interface. Support various protocols.
General Parameter	Power	Support AC24V/DC12V power and PoE. (The IPC-HF3110-F/W/E/T/C series product does not support the PoE function.)
	Power Consumption	<10W (For WIFI and 3G device, it is below 12W.)
	Working Temperature	-10°C~+60°C (For -W device, it is from -10°C~+55°C For 3G device, it is from -10°C~+50°C)

	Working Humidity	10%~90%
	Dimensions	70×63.2×149.5
	Weight	650g
	Installation	Support various installation modes (Enclosure and bracket is optional)

1.3.2 Factory Default Setup

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

Setup		Item		Default Setup	
				XP5000T	
Camera	Conditions	Brightness		50	
		Contrast		50	
		Sharpness		50	
		Saturation		50	
		Anti-flicker		Outdoor	
		Exposure Mode		Auto	
		Gain Scope		0~50	
		Auto Iris		On	
		Profile		Auto	
		Day&Night		Auto	
		Backlight		Off	
		Flip		Off	
	Video	Video bit stream	Main Stream	Bit stream type	General
				Encode mode	H.264
				Resolution	1080P (1920*1080)
				Frame Rate (FPS)	PAL: 25 NTSC:30
				Bit Rate Type	CBR
				Recommended Bit	3584-8192 Kb/S
				Bit Rate	8192
				I Frame	50
				Watermark	Enable
				Watermark character	DigitalCCTV
		Sub	Enable	Enable	

Setup		Item			Default Setup	
					XP5000T	
		Stream	Bit stream type	General		
			Encode mode	H.264B		
			Resolution	CIF(352*288/352*240)		
			Frame Rate (FPS)	PAL: 25 NTSC:30		
			Bit Rate Type	CBR		
			Recommended Bit	192-1024Kb/S		
			Bit Rate	1024		
			I Frame	50		
		Snapshot	Snapshot Type	General		
			Image Size	1080P (1920*1080)		
			Quality	5		
			Interval	1s		
		Video Overlay	Privacy Mask	Disable		
			Channel Title	Enable		
			Time Title	Enable		
		Path	Snapshot Path	C:\PictureDownload		
			Record Path	C:\RecordDownload		
		Audio	Main Stream	Enable	Enable	
				Encode Mode	G.711A	
			Sub Stream	Enable	Disable	
	Encode Mode			G.711A		
Network	TCP/IP	Host Name	IPC			
		Ethernet Card	Wire(Default)			
		Mode	Static			
		Mac Address	Device MAC address when it is shipped out of the factory			
		IP	IPV4			

Setup	Item		Default Setup
			XP5000T
		Version	
		IP Address	192.168.1.108
		Subnet Mask	255.255.255.0
		Default Gateway	192.168.1.1
		Preferred DNS	8.8.8.8
		Alternate DNS	8.8.8.8
		Enable ARP/Ping set device IP address service	Enable
	Connection	Max Connection	10
		TCP Port	37777
		UDP Port	37778
		HTTP Port	80
		RTSP Port	554
		HTTPs Port Enable	Disable
		HTTPs Port	443
	PPPoE	Enable	Disable
		Username	none
		Password	N/A
	DDNS	Server Type	Disable, CN99 DDNS
		Server IP	none
		Server Port	80
		Domain Name	none
		User	none
		Password	N/A

Setup	Item		Default Setup
			XP5000T
		d	
		Update Period	10 minutes
	IP Filter	Trusted sites	Disable
	SMTP(Email)	SMTP Server	none
		Port	25
		Anonymity	Disable
		User Name	anonymity
		Password	N/A
		Sender	none
		Authentication (Encryption mode)	N/A
		Title (Subject)	IPC Message
		Attachment	Enable
		Mail Receiver	N/A
		Send Interval	0 second
		Email Test	Disable, interval=60 minutes
	UPnP	Enable UPnP	Disable
	SNMP	SNMP Port	161
		Read Community	public
		Write Community	private
		Trap Address	N/A
		Trap Port	162

Setup	Item		Default Setup	
			XP5000T	
		SNMP v1	Disable	
		SNMP v2	Disable	
		SNMP v3	Disable	
	Bonjour	Enable	Enable	
		Server Name	“SN”. It depends on the device.	
	Multicast	Multicast Address	239.255.42.42	
		Port	36666	
	QoS	Real-time Monitor	0	
		Command	0	
		Wireless Qos	Disable	
Event	Video detect	Motion Detect	Enable	Disable
			Anti-dither	5 seconds
			Sensitivity	3
			Record Channel	Enable
			Record Delay	10 seconds
			Relay out	Enable
			Alarm Delay	10 seconds
			Send Email	Disable
			PTZ	Disable
		Video Masking	Enable	Disable
			Record Channel	Enable
			Record Delay	10 seconds
			Relay out	Enable
			Record Delay	10 seconds
			Send Email	Disable
			PTZ	Disable
			Snapshot	Disable
			Alarm	Enable
			Enable	Disable

Setup	Item			Default Setup
				XP5000T
	Activation	Relay in		Alarm 1
		Anti-dither		0 second
		Sensor Type		NO
		Record Channel		Enable
		Record Delay		10 seconds
		Relay out		Enable
		Alarm Delay		10 seconds
		Send Email		Disable
		PTZ		Disable
		Snapshot		Disable
	Relay output			1
	Abnormity	No SD Card	Enable	Disable
			Relay out	Enable
			Relay out Delay	10 seconds
			Send email	Disable
		Capacity Warning	Enable	Disable
			Capacity Limit	10%
			Relay out	Enable
			Relay out Delay	10 seconds
			Send Email	Disable
		SD Error Card	Enable	Disable
			Relay out	Enable
			Relay out Delay	10 seconds
			Send email	Disable
		Disconnection	Enable	Disable
			Record	Enable
			Record Delay	10 seconds
			Relay out	Enable
			Relay out	10 seconds

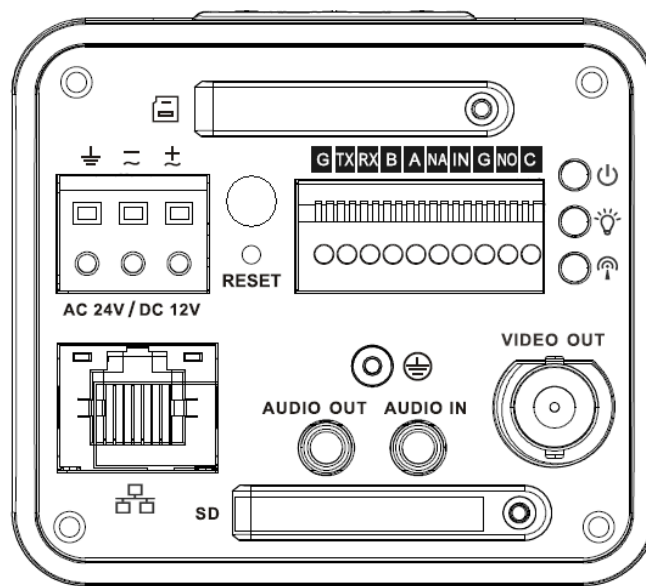
Setup	Item			Default Setup
				XP5000T
		IP Conflict	Delay	
			Enable	Disable
			Record	Enable
			Record Delay	10 seconds
			Relay out	Enable
			Relay out Delay	10 seconds
Storage	Period	Setup	Week	Sunday Enable
			Time	00:00:00 to 23:59:59
			Schedule	Disable
			Motion Detect	Enable
			Alarm	Enable
	Storage	Storage Point	Record	Local storage Enable
			Snapshot	Local storage Enable
		FTP	Enable FTP	Disable
			Server IP	N/A
			Port	21
			Username	anonymity
			Password	N/A
			Remote path	share
			Emergency (Local)	Disable
	Record Control		Pack Duration	8 minutes
			Pre-record	5 seconds
			Disk Full	Overwrite
			Record Mode	Auto
			Record Stream	Main Stream
System	General	Local Host	Device No	Device factory SN
			Language	English
			Video Standard	PAL

Setup	Item			Default Setup
				XP5000T
	Date time and	Date Format	Y-M-D	
		Time Format	24H	
		Time Zone	GMT+08:00	
		System Time	Sync PC	
		DST	Disable	
		DST Type	Week	
		Start Time	00:00:00 of the first Sunday of the month	
		End Time	00:00:00 of the second Monday of the month	
		NTP	Disable	
		NTP Server	clock.isc.org	
		Port	37	
		Update Period	10 minutes	
	PTZ	Protocol	PELCOD	
		Address	1	
		Baud Rate	9600	
		Data Bit	8	
		Stop bit	1	
		Parity	N/A	
	Auto Maintenance	Auto Reboot	Enable 02:00 Tuesday.	
		Auto Delete Old Files	Disable	
	System Log	Start Time	The previous day	
		End Time	Current	
		All Types	Select all	

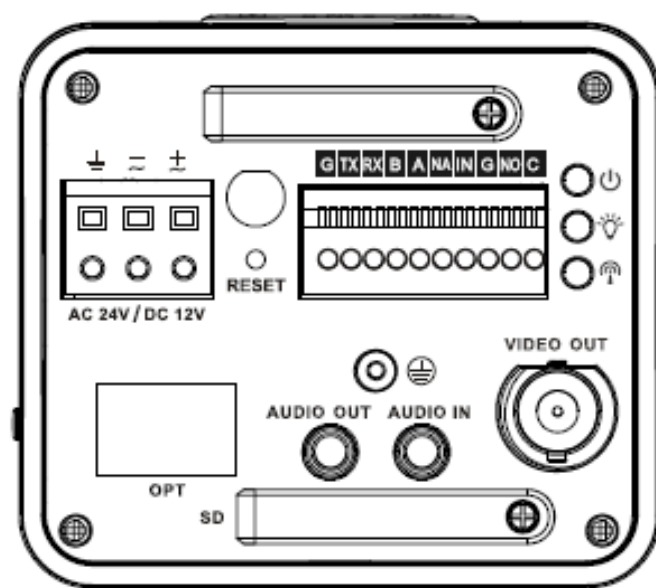
2 Framework

2.1 Rear Panel

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



The rear panel with the network port







The rear panel with the 100M fiber port


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.
AC 24V/ DC 12V	Power port		<ul style="list-style-type: none"> ● Power port. ● Input 12V DC or AC 24V
STATUS Indication Light	Red light 		<ul style="list-style-type: none"> ● System boot up- red light is on ● System upgrades-red light flashes ● System resets- red light flashes.
	Green light 		<ul style="list-style-type: none"> ● Normal working status-green light is on. ● Display record status: Record-green light flashes.
	Yellow light 		<ul style="list-style-type: none"> ● Detect the wireless device- yellow light is on.
	3G		Connect to 3G card. Please note it is for 3G series product only.
WIFI	Antenna port		Connect to 3G/WIFI antenna to receive the wireless signal. Please note this function is for some series products only.
IN	Alarm input port	I/O port	Alarm input port 1. To receive the signal from

			the external alarm device.
NO	Alarm output port		Alarm output port. To output alarm signal to the alarm device. <ul style="list-style-type: none"> ● NO: Normal open alarm output end. ● C: Alarm output public end.
C			
G	GND		Alarm input ground end.
A	RS485 port		RS485_A port, control external PTZ
B			RS485_B port, control external PTZ
RX	RS232 port		RS232_RX, RS232 receive end.
TX			RS232_TX, RS232 COM send out end.
G	GND		RS232 ground end
NA	IR light port		External IR light signal control port.
RESET	RESET button		Restore factory default setup. When system is running normally, press the RESET button for at least 5 seconds, system can restore factory default setup.
AUDIO OUT	Audio output port	Audio output 3.5mm JACK port.	Output audio signal to the passive device such as earphone.
AUDIO IN	Audio input port	Audio input 3.5mm	Input audio signal

		JACK port.	from devices such as pick-up.
LAN 	Network port	Ethernet port	<ul style="list-style-type: none"> ● Connect to standard Ethernet cable. ● Support PoE function.
OPT	100M fiber port	155M single fiber dual-direction SFP fiber module	Transmit 100M Ethernet data.
SD	SD card port		<p>Connect to SD card.</p> <p>Note</p> <ul style="list-style-type: none"> ● 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.

	GND		Please make sure the device is securely earthed to prevent the thunderstorm strike.
---	-----	--	---

2.2 Side Panel

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

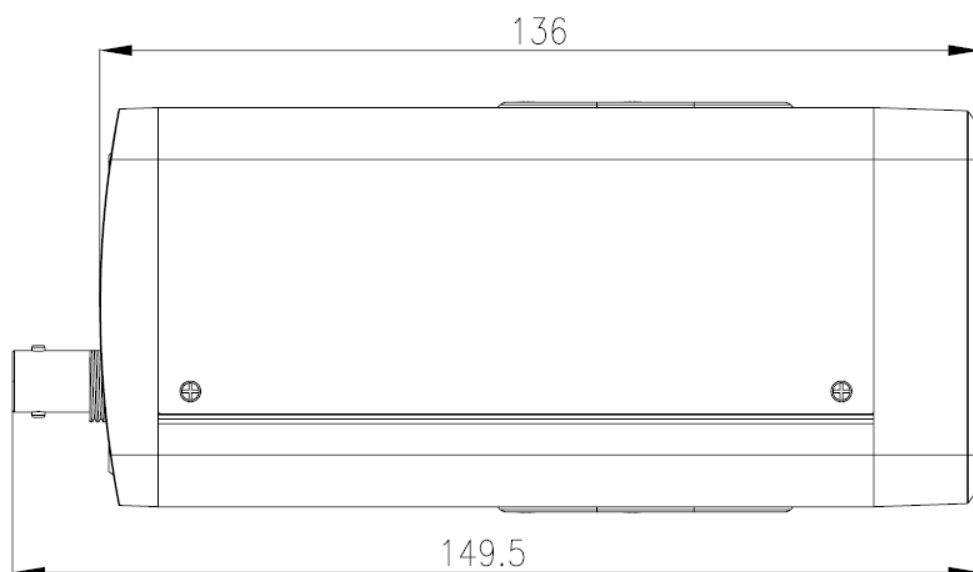


Figure 2-2

2.3 Front Panel

Please refer to the following interface for the front panel information. The unit is mm. See Figure 2-3.

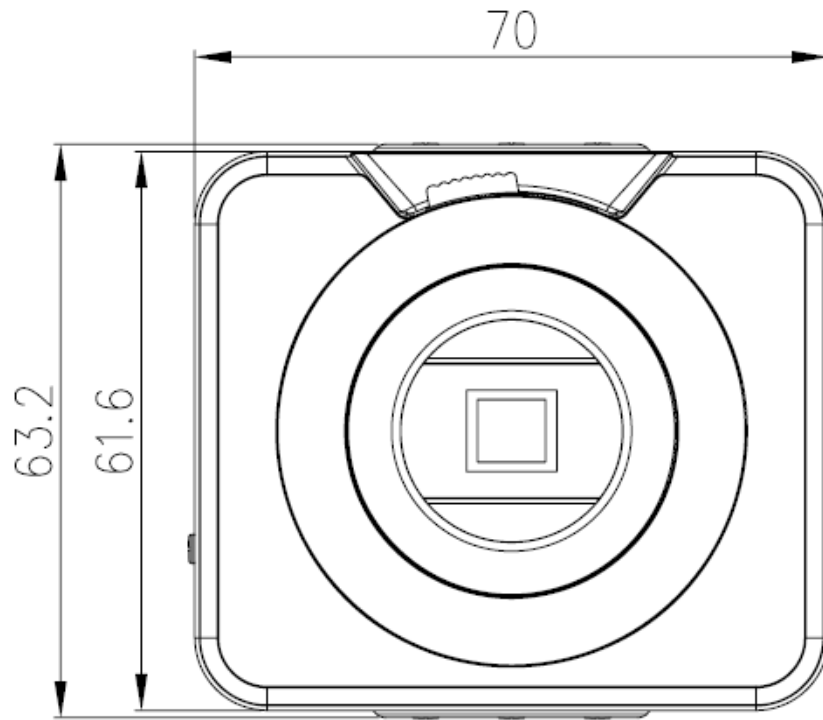


Figure 2-3

2.4 Bidirectional talk

2.4.1 Device-end to PC-end

Device Connection

Please connect the speaker or the MIC to the audio input port in the device rear panel. Then connect the earphone to the audio output port in the PC.

Login the Web and then click the Audio button to enable the bidirectional talk function.

You can see the button becomes orange after you enabled the audio talk function.

Click Audio button again to stop the bidirectional talk function.

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.

2.4.2 PC-end to the Device-end

Device Connection

Connect the speaker or the MIC to the audio input port in the PC and then connect the earphone to the audio output port in the device rear panel.

Login the Web and then click the Audio button to enable the bidirectional talk function.

You can see the button becomes orange after you enabled the audio talk function.

Click Audio button again to stop the bidirectional talk function.

Please note the listening operation is null during the bidirectional talk process.

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.

2.5 Alarm Setup

The alarm setup interface is shown as below. See Figure 2-4.

- Connect the alarm input device to the alarm input port.
- Connect the alarm output device to the alarm output port and alarm output public port. The alarm output port supports NO (normal open) alarm device only.
- Open the Web, go to the Figure 2-4. Here you can set the alarm input setup and alarm output setup. Please set the alarm in for the alarm input in the rear panel. Then you can select the corresponding type (NO/NC) according to the high/low level type when an alarm occurs.
- Set the WEB alarm output. The alarm output 01 is the alarm output port of the device rear panel.



Figure 2-4

2.5.1 Alarm Input and Output Connection

Please refer to the following figure for alarm input information. See Figure 2-5.

Alarm input: When the input signal is idle or grounded, the device can collect the different statuses of the alarm input port. When the input signal is connected to the 5V or is idle, the device collects the logic “1”. When the input signal is grounded, the device collects the logic “0”.

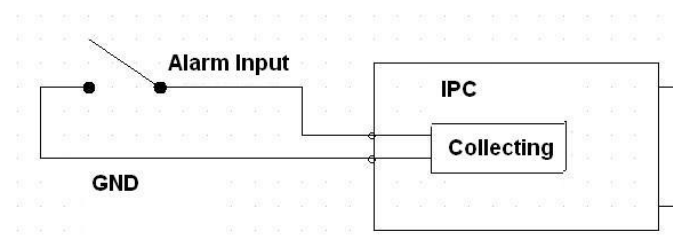


Figure 2-5

Please refer to the following figure for alarm output information. See Figure 2-6.

Port NO and Port C composes an on-off button to provide the alarm output.

If the type is NO, this button is normal open. The button becomes on when there is an alarm output.

If the type is NC, this button is normal off. The button becomes off when there is an alarm output.

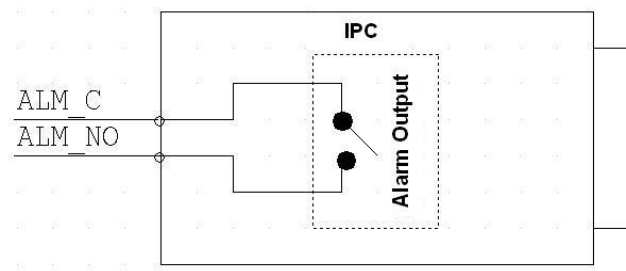


Figure 2-6

2.5.2 IR Light Connection

Please refer to the following figure for external IR light information. See Figure 2-7.

IR synchronization input signal. When the external IR light is on, the signal cable from the board outputs the 3.3V/1mA. It outputs the 0V when the IR light is off.

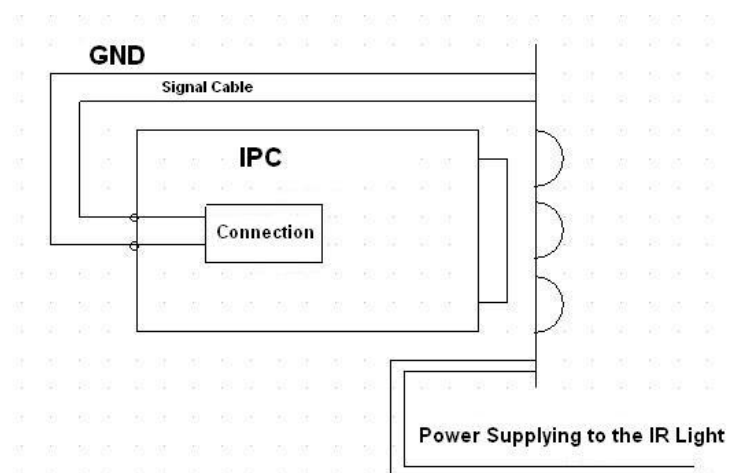


Figure 2-7

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.

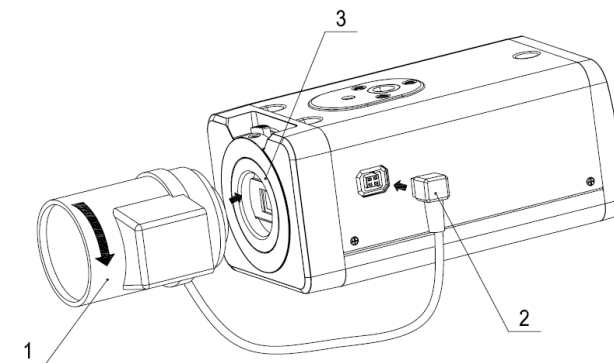


Figure 3-1

3.1.2 Manual Lens

Install C type lens

- Remove the CCD protection cap from the device.
- Install the C/CS adapter to the camera. Turn clockwise to secure against the focusing ring firmly.
- Line up the C lens to the installation position of the C/CS adapter. Turn clockwise to fix the lens.
- Use slotted screwdriver to fasten the screw near the focusing ring and then turn counter clockwise to move the focusing ring out for several millimeters. Now you can focus manually and check the video is clear or not. If you can not see the clear video, you can adjust via the flange-back.
- After you completed the focus setup, use the slotted screwdriver to fix the screw firmly. Fasten the focusing ring. Now the installation completed.

Install CS type lens

- Remove the CCD protection cap from the device.
- Line up the CS lens to the lens installation position of camera focusing ring. Turn clockwise to fix the lens.
- Use slotted screwdriver to fasten the screw near the focusing ring and then turn counter clockwise to move the focusing ring out for several millimeters. Now you can focus manually and check the video is clear or not. If you can not see the clear video, you can adjust via the flange-back.
- After you completed the focus setup, use the slotted screwdriver to fix the screw firmly. Fasten the focusing ring. Now the installation completed.

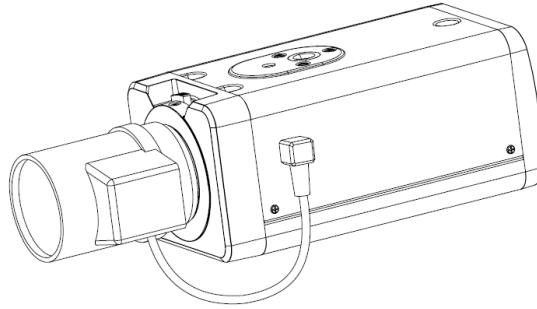


Figure 3-2

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.

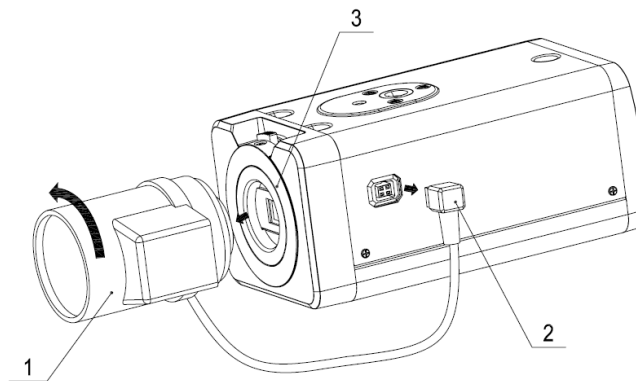


Figure 3-3

3.2 SD Card

3.2.1 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.

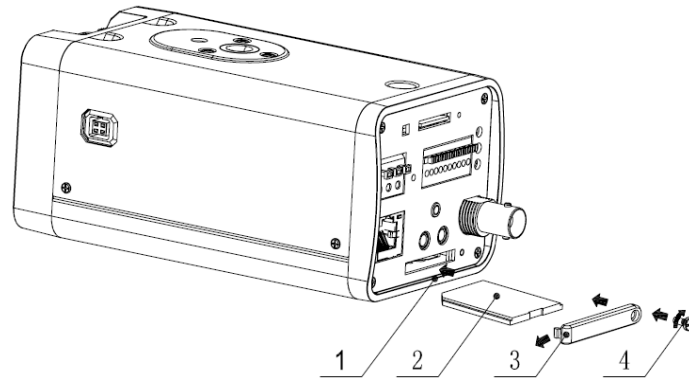


Figure 3-4

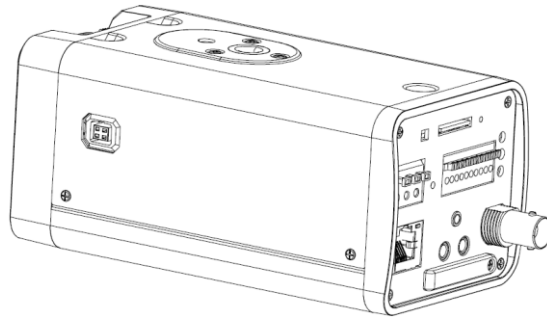


Figure 3-5

3.2.2 Remove

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.

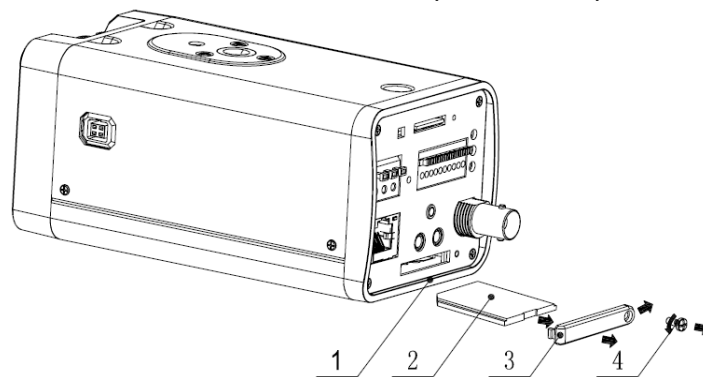


Figure 3-6

3.3 3G Card

3.3.1 Installation

The 3G card installation is the same with the SD card.

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 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.

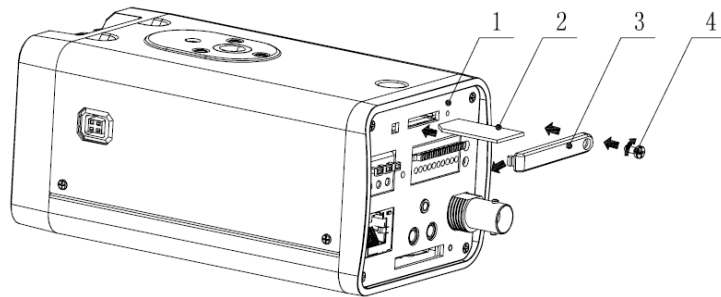


Figure 3-7

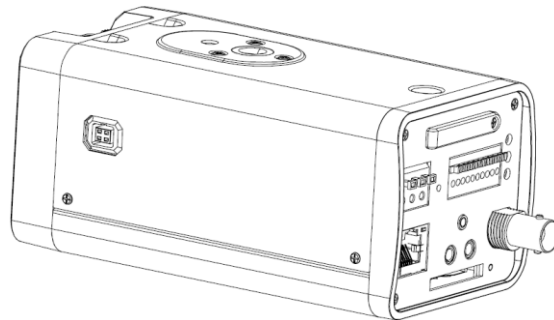


Figure 3-8

3.3.2 Remove

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 card.
- Insert the 3G card protection cap.
- Use the screwdriver to fix the screw to secure the protection cap.

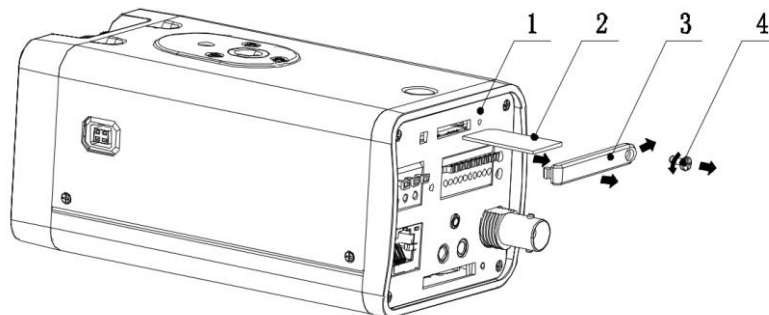


Figure 3-9

3.4 3G/WIFI Antenna

3.4.1 Installation

Line up the thread of the screw of the 3G/WIFI antenna to the thread of the rear panel. See Figure 3-10.

Please turn according to the direction in the following figure until antenna is secure firmly. See Figure 3-11.

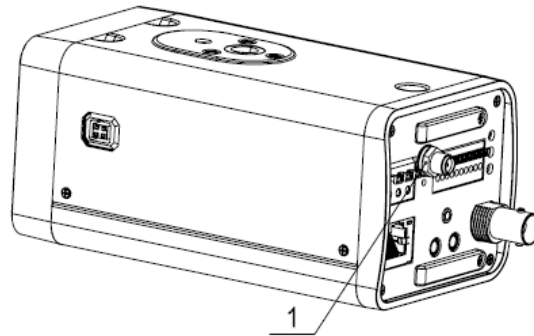


Figure 3-10

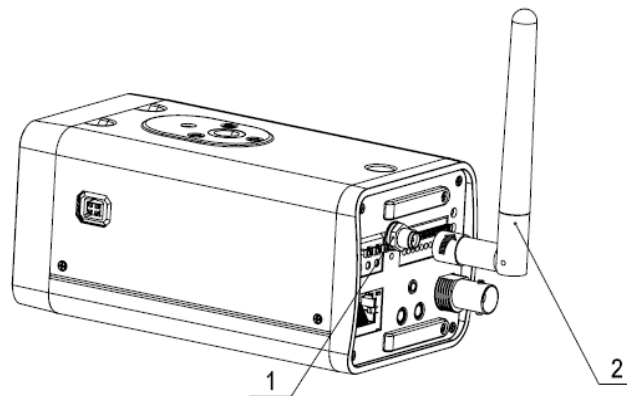


Figure 3-11

After you fix the 3G/WIFI antenna to the WIFI port of the rear panel, you can adjust the antenna direction. See Figure 3-12.

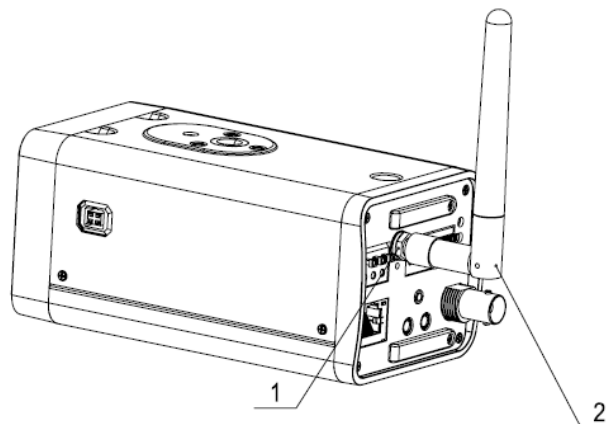


Figure 3-12

3.4.2 Remove

Use your hands to hold the 3G/WIFI thread end and then turn according to the following figure. See Figure 3-13.

Now you can see the antenna is away from the thread. See Figure 3-14.

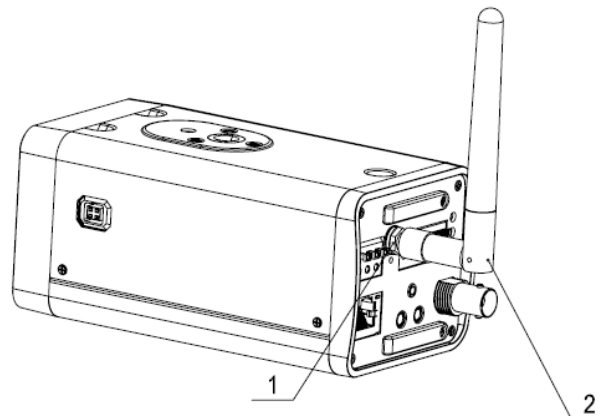


Figure 3-13

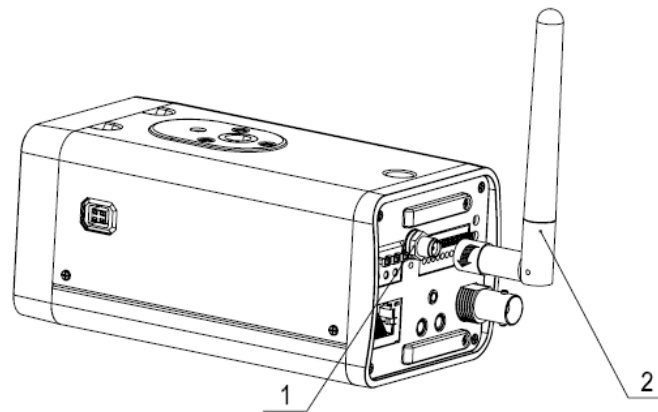


Figure 3-14

Remove the 3G/WIFI antenna from the port of the rear panel. See Figure 3-15.

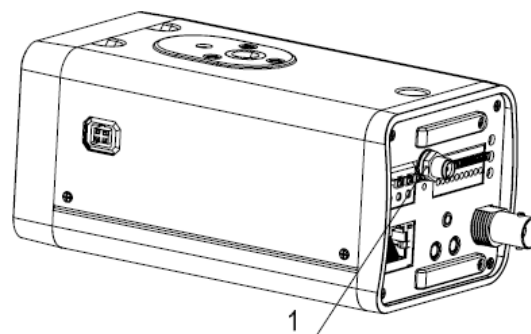


Figure 3-15

3.5 I/O Port

Install Cable

Please follow the steps listed below to install the cable. See Figure 3-16.

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.

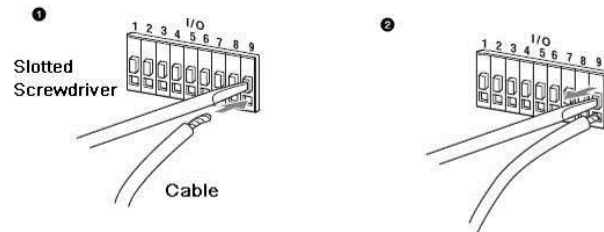


Figure 3-16

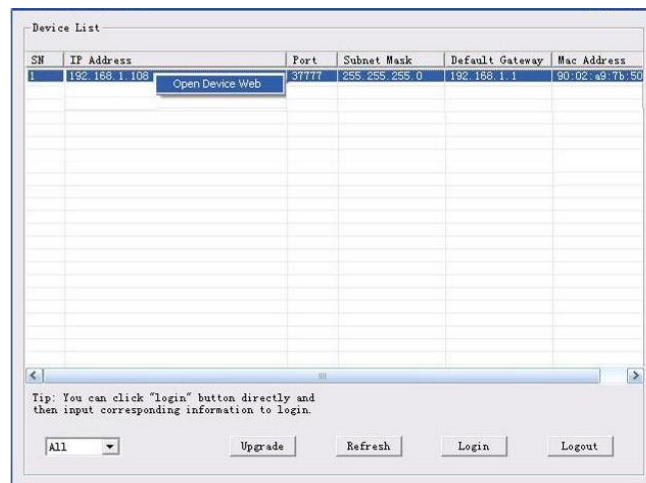


Figure 4-2

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

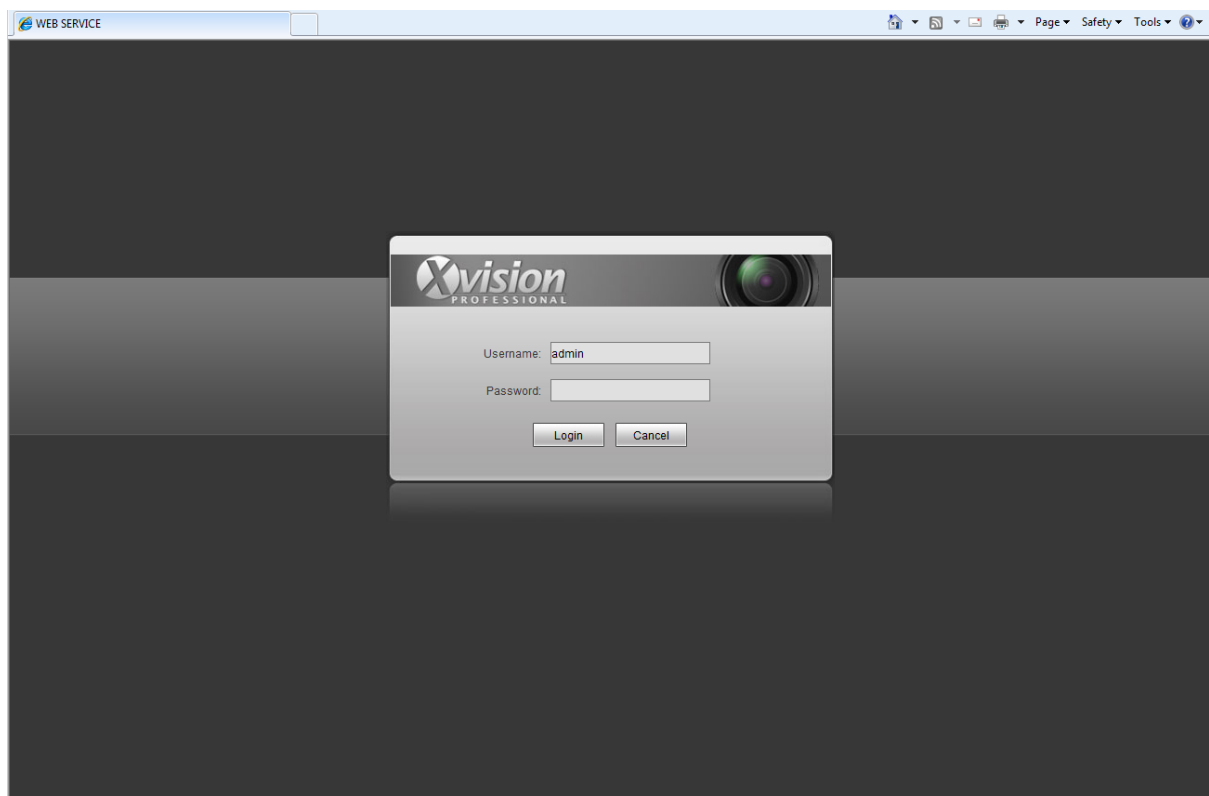


Figure 4-3

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 using device background upgrade port 3800 to login, other setups are all invalid.

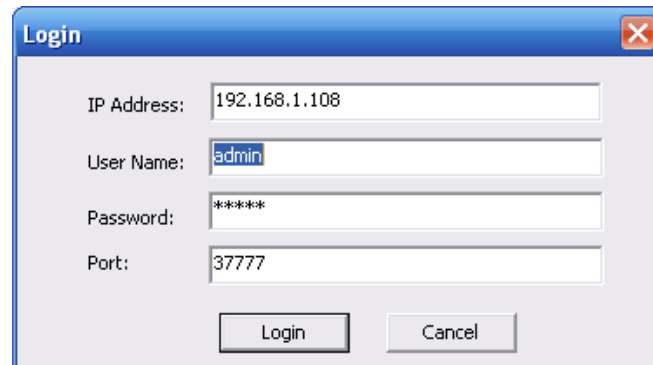
A login dialog box titled "Login" with a close button (X) in the top right corner. It contains four input fields: "IP Address:" with the value "192.168.1.108", "User Name:" with the value "admin", "Password:" with the value "*****", and "Port:" with the value "37777". At the bottom, there are two buttons: "Login" and "Cancel".

Figure 4-4

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

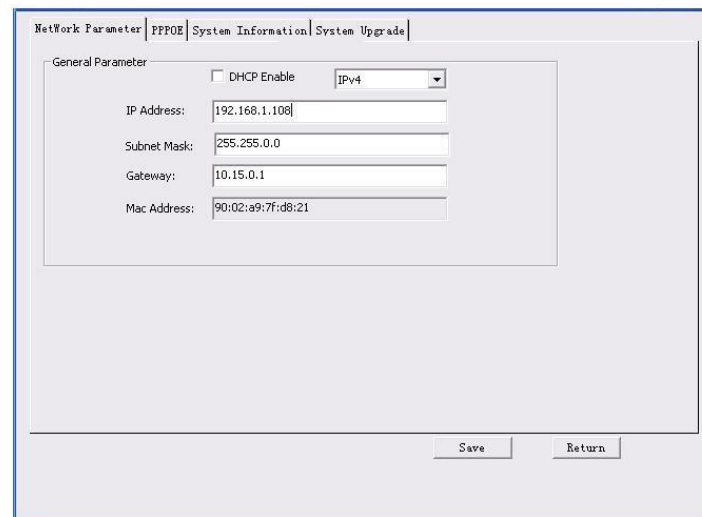
The main interface of the configuration tool. It has a tabbed menu at the top with "Network Parameter", "PPPoE", "System Information", and "System Upgrade". The "Network Parameter" tab is selected. Below the tabs, there is a "General Parameter" section. It includes a checkbox for "DHCP Enable" (unchecked) and a dropdown menu for "IPv4". Below these are five input fields: "IP Address:" (192.168.1.108), "Subnet Mask:" (255.255.0.0), "Gateway:" (10.15.0.1), and "Mac Address:" (90:02:a9:7f:d8:21). At the bottom right, there are two buttons: "Save" and "Return".

Figure 4-5

For detailed information and operation instruction of the quick configuration tool, please refer to the *Quick Configuration Tool User's Manual* included in the resources CD.

5 Web Operation

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

Web includes several modules: monitor channel preview, PTZ control, system configuration, alarm and etc.

5.1 Network Connection

Please follow the steps listed below for network connection.

- Make sure the IPC has connected to the network properly.
- Please set the IP address, subnet mask and gateway of the PC and the IPC respectively.
IPC default IP address is 192.168.1.108. Subnet mask is 255.255.255.0. Gateway is 192.168.1.1.
- Use order ping `***.***.***.***(* IP camera address)` to check connection is OK or not.

5.2 Login and Logout

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.

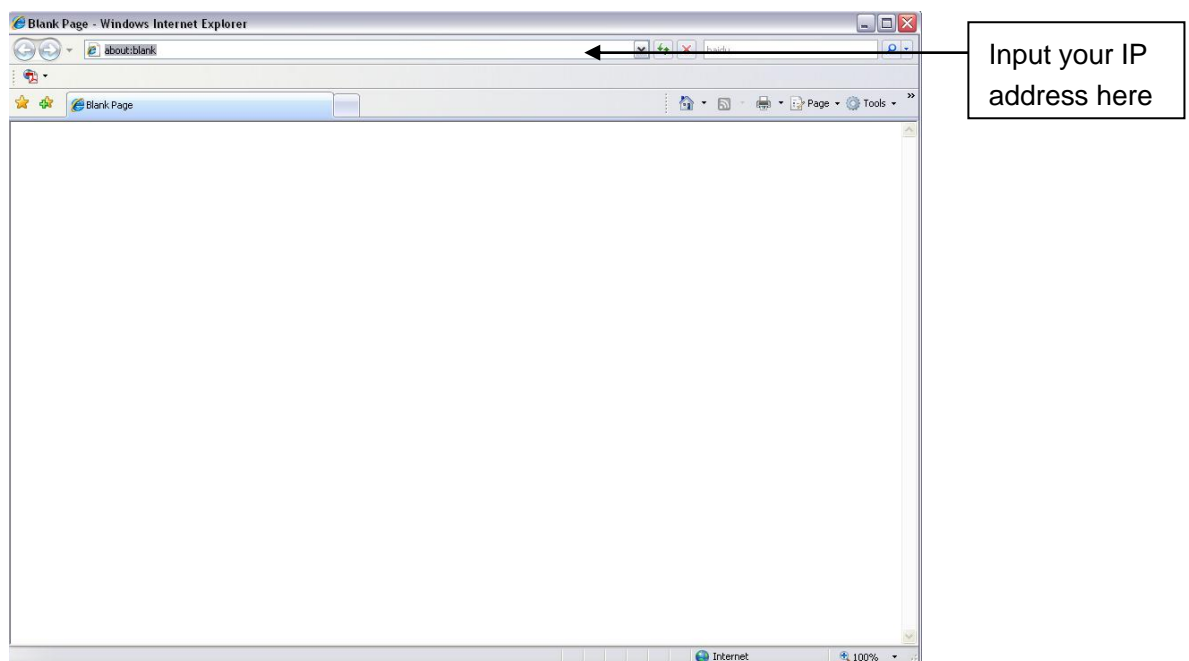


Figure 5-1

The login interface is shown as below. See Figure 5-2.

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.

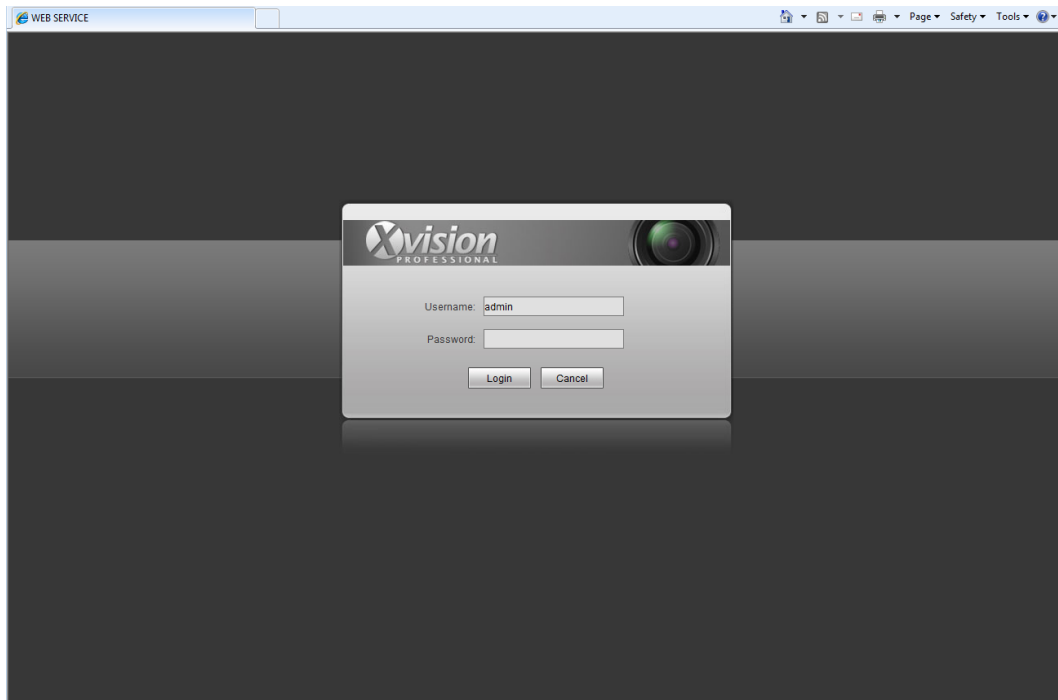


Figure 5-2

If it is your first time to login in, system pops up warning information to ask you whether install control webrec.cab or not after you logged in for one minute. 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 5-3.

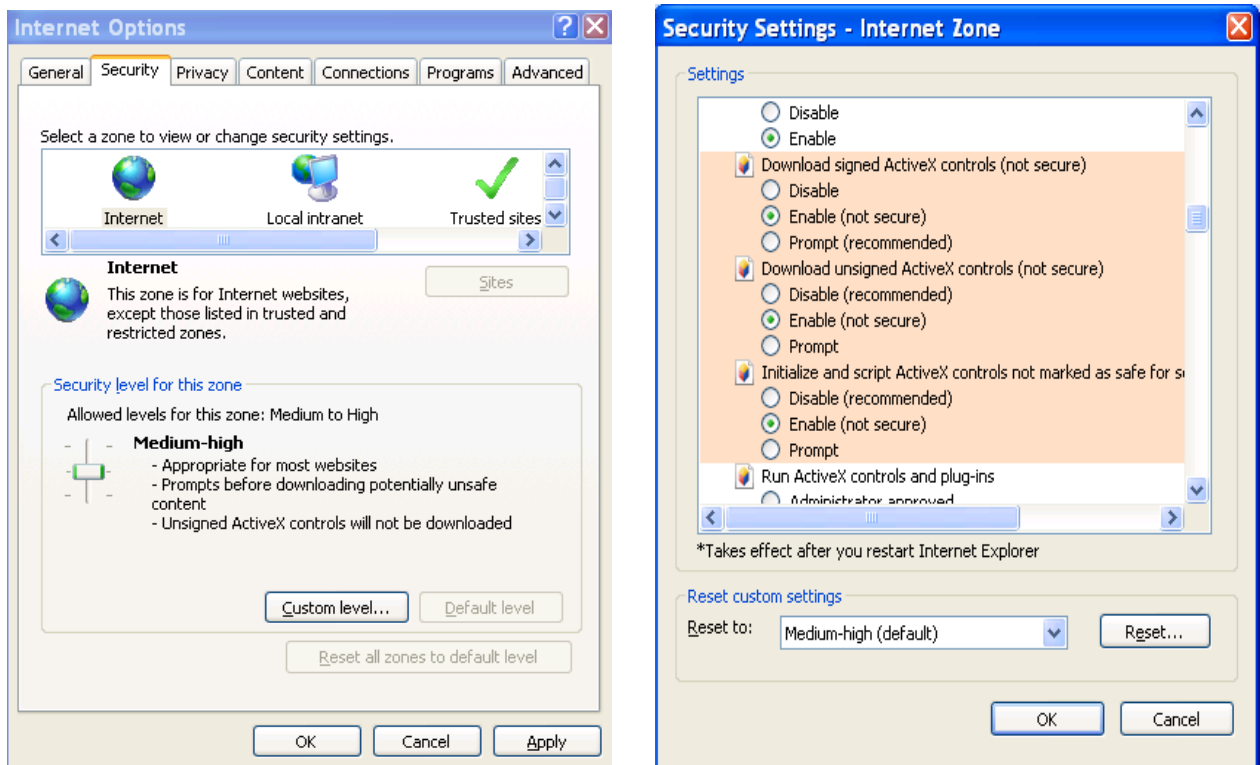


Figure 5-3

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

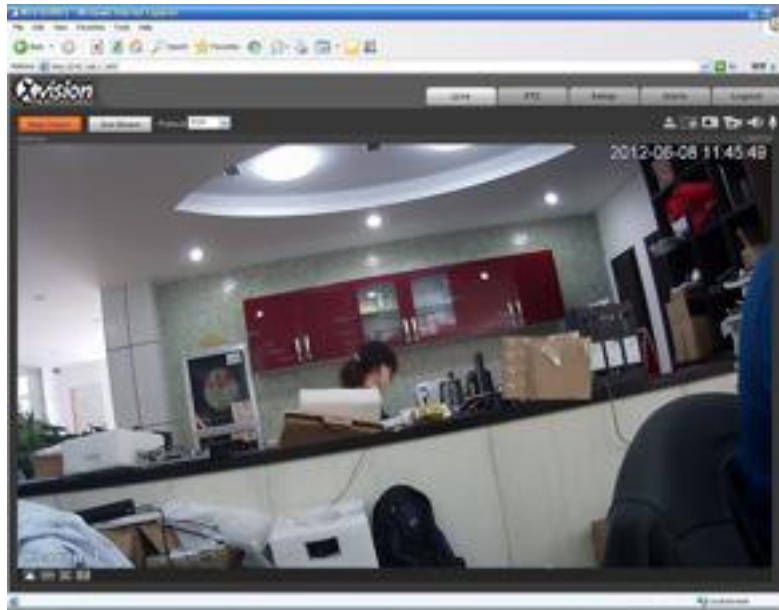


Figure 5-4

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

6 FAQ

Bug	
I can not boot up the device or can not control 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. Otherwise you can lose all the data in the SD card!
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 16GB, Kingston32GB, Transcend 16GB, SanDisk 4GB, SanDisk 32GB. Usually we recommend the 4GB (or higher) high speed card in case the slow speed results in data loss.
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	○	○	○	○	○	○
Case	○	○	○	○	○	○
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

- This user's manual is for reference only. Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.