HD Cube Network Camera User's Manual

Welcome

Thank you for purchasing our network 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 in the IEC60950-1. This series product supports PoE too. **Please note: Do not connect these two power supplying sources to the device at the same time; it may result in device damage!**
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．Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3．Installation

Do not apply power to the camera before completing installation.
Please install the proper power cut-off device during the installation connection.
Always follow the instruction guide the manufacturer recommended.

4．Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.
We are not liable for any problems caused by unauthorized modifications or attempted repair.

5．Environment

This series network camera should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.
Please keep it away from the electromagnetic radiation object and environment.
Please make sure the CCD (CMOS) component is out of the radiation of the laser beam device. Otherwise it may result in CCD (CMOS) optical component damage.
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 ports of the product are recommended to be grounded to further enhance the reliability of the camera.

6. Daily Maintenance
Please shut down the device and then unplug the power cable before you begin daily maintenance work.

Do not touch the CCD (CMOS) optic component. You can use the blower to clean the dust on the lens surface.

Always 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 put the dustproof cap to protect the CCD (CMOS) component when you do not use the camera.

7. Accessories

Be sure to use all the accessories recommended by manufacturer.

Before installation, please open the package and check all the components are included.

Contact your local retailer ASAP if something is broken in your package.

Accessory Name	Amount
Network Camera	1
Quick Start Guide	1
Installation Accessories Bag	1
CD	1

Table of Contents

1 General Introduction

1.1 Overview

This series network camera integrates the traditional camera and network video technology. It adopts video data collection, transmission together. It can connect to the network directly without any auxiliary device.

This series product uses standard H.264 video compression technology, G.711a audio compression technology and etc, which maximally guarantees the video quality.

It supports PIR function to detect human body movement. It can activate the white light at the same to enable the record function at night. This series product supports real-time listening function when it is in real-time monitor mode. It supports dual-way bidirectional talk function.

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 network camera is widely used in many environments such as home, office, bank, road monitor and etc.

1.2 Features

User Management	- Different user rights for each group, one user belongs to one group. - The user right shall not exceed the group right.
Data transmission	- Wire network data transmission via the Ethernet port. - Wireless product series supports WIFI/3G wireless network data transmission.
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 Micro SD card storage (This function is optional. For some series product only.), alarm record or snapshot storage. - Support network storage function such as FTP.
Alarm Function	- Real-time respond to external on-off alarm input, and video detect (This function is optional. For some series product only.)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, PIR human body movement detect.
Network Monitor	- Network camera supports one-channel video data transmit to network terminal and then decode. Delay is within 270ms (network bandwidth support needed) - Max supports 20 connections. Max support 24Mbps output band width. The new query may fail if it has reached the threshold. - Adopt the following video transmission protocol: HTTP, TCP, UDP, MULTICAST, RTP/RTCP, RTSP and etc. - Support web access.
Network Management	- Realize network camera configuration and management via Ethernet. - Support device management via web or client-end. - Support various network protocols.
Power	External power adapter DC12V.
PoE	- Support Power over Ethernet. Conform to IEEE802.3af standard. - Connect the device to the switch or the router that supports the PoE function to realize the network power supply.

		Warning！ **Do not connect these two power supplying sources to the device at the same time; it may result in device damage!**
Assistant Function		• Log function. Support system resource information and running status real-time display. • Backlight compensation: screen auto split to realize backlight compensation to adjust the bright. • Support video watermark function to avoid vicious video modification. • Support picture parameter setup such as electronic shutter and gain setup. • Support motion detect function. • Support dual-stream, ACF. • Built-in microphone and speaker (This function is optional. For some series product only.). • Support PIR human body movement detect. • Support white light alarm function.

1.3 Specifications

1.3.1 Performance

Please refer to the following sheet for product performance specification.

Model / Parameter		IP-74
System	**Main Processor**	TI Davinci high performance DSP
	OS	Embedded LINUX
	System Resources	Support real-time network monitor, local record, and remote operation at the same time.
	User Interface	Remote operation interface such as WEB, DSS, PSS.
	System Status	Bit stream statistics, log, and software version.
Video Parameter	**Image Sensor**	1/3-inch CMOS
	Pixel	1280(H)*960(V)
	Gain Control	Fixed/Auto
	White Balance	Manual/Auto
	BLC	On/Off
	Exposure Mode	Manual/Auto PAL: It ranges from 1/3 to 1/10000. NTSC: It ranges from 1/4 to 1/10000.
	Video Compression Standard	H.264/ H.264B/MJPEG
	Video Frame Rate	PAL: Main stream(1280*960@15fps) extra stream(352*288@15fps), Main stream(1280*720@25fps） extra stream(352*288@25fps） NTSC: Main stream(1280*960@15fps) extra stream(352*240@15fps)), Main stream(1280*720@30fps) extra stream(352*240@30fps)
	Video Bit Rate	H.264: 56Kbps-6144Kbps ＭJPEG is adjustable and bit rate is adjustable. Support customized setup.

		Video Flip	Support mirror. Support flip function.
		Snapshot	Max 1f/s snapshot. File extension name is JPEG.
		Privacy Mask	Supports max 4 privacy mask zones
		Video Setup	Support parameter setup such as bright, contrast.
		Video Information	Channel title, time title, motion detect, camera masking.
		Lens	3.6mm. Fixed focus. Angle of view: 70°(H）*51.5°(V)
		Lens Interface	M12. Lens is the default accessories
Audio		**Audio Bit Stream**	Dual-way
		Audio Input/Output	Built-in microphone and speaker
		Audio Bit Rate	8kbps 16bit
		Audio Compression Standard	G.711A/G.711Mu/PCM
Video		**Motion Detect**	396 (18*22) detection zones；sensitivity level ranges from 1 to 6 (The 6th level has the highest sensitivity) Activation event: video storage, image snapshot, log, email SMTP 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 Port			1-channel input and 1-channel output (on-off)
Record and Backup		**Record Priority**	Manual>Video detect>Schedule
		SD Card Storage	Support Micro SD card hot-swap
		Storage Management	Support display network storage status
Network		**Wire Network**	1-channel wire Ethernet port, 10/100 Base-T Ethernet
		Wireless Network	IEEE802.11a/b/g/n，built-in antenna
		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 IR light	Monitor, system setup, file download, log information, maintenance , upgrade and etc.
AUX Port		**Compensation Light**	White light (Max 1W) Auto turn on white light when an alarm is activated. The light can last until the alarm ends. Support compensation light brightness setup via the Web.
		PIR Human Body Movement Detect	Max distance 7m under normal room temperature. Support compensation light activation, record at light.
		WPS	Click one button to enable WIFI connection
General Parameter		**Power**	DC 12V
		Power Consumption	6W MAX

					-10℃~+50℃

	Working Temperature	-10℃~+50℃
	Working Humidify	10%~90%
	Dimensions(mm)	66.6*99.5*131.2
	Weight	229g（Excluding box）
	Installation	Installation with the bracket.

1.3.2 Factory Default Setup

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

Setup	Item				Default Setup
					IP-74
Camera	Conditions	Brightness			50
		Contrast			50
		Saturation			50
		Sharpness			50
		Anti-flicker			Outdoor
		Exposure Mode			Auto
		Gain Range			0-50
		Scene Mode			Auto
		Day/night Mode			Auto
		BLC			Off
		Mirror			Off
		Flip			Off
	Video	Video bit stream	Main Stream	Bit stream type	General
				Encode mode	H.264
				Resolution	720P（1280*720）
				Frame Rate（FPS）	PAL: 25 NTSC:30
				Bit Rate Type	CBR
				Recommended Bit	1536-6144 Kb/S
				Bit Rate	4096
				Frame Interval	50
				Watermark	Enable
				Watermark character	DigitalCCTV
			Sub Stream	Enable	Enable
				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	192-1024Kb/S

Setup	Item			Default Setup
				IP-74
			Bit	
			Bit Rate	1024
			Frame Interval	50
		Snapshot	Snapshot Type	General
			Image Size	720P（1280*720）
			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
		Extra Stream	Enable	Disable
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 Version	IPV4
			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 Enable	Disable

Setup	Item		Default Setup
			IP-74
		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	****
		Update Period	10 minutes
	IP Filter	Trusted sites	Disable
	SMTP(Email)	SMTP Server	none
		Port	25
		Anonymity	Disable
		User Name	anonymity
		Password	****
		Sender	none
		Authentication (Encryption mode)	N/A
		Title (Subject)	IPC Message
		Attachment	N/A
		Mail Receiver	0 second
		Email Test	Disable，interval=60 seconds
	UPnP	Enable UPnP	Enable
	SNMP	SNMP Port	161
		Read Community	public
		Write Community	private
		Trap Address	N/A
		Trap Port	162
		SNMP Version	SNMP v1：Disable SNMP v2：Disable SNMP v3：Disable
	Bonjour	Enable	Enable

Setup	Item			Default Setup	
				IP-74	
			Server Name	"SN". It depends on the device.	
		Multicast	Multicast Address	239.255.42.42	
			Port	36666	
		WIFI	WIFI	Disable	
			WPS	PIN	Enable
				PIN	Null
				SSID	Null
				Button	Disable
		QoS	Real-time Monitor	0	
			Command	0	
			Enable Wireless QoS	Disable	
Event	Video detect	Motion Detect	Enable	Disable	
			Anti-dither	5 seconds	
			Sensitivity	3	
			Compensation Light	Disable	
			Compensation Light Delay	10 seconds	
			Record Channel	Enable	
			Record Delay	10 seconds	
			Relay out	Enable	
			Alarm Delay	10 seconds	
			Send Email	Disable	
			Snapshot	Disable	
		Video Masking	Enable	Disable	
			Record Channel	Enable	
			Record Delay	10 seconds	
			Relay out	Enable	
			Alarm Delay	10 seconds	
			Send Email	Disable	
			Snapshot	Disable	
	Alarm	PIR Alarm	Enable	Disable	
			Anti-dither	0 second	
			Compensation	Enable	

Setup	Item			Default Setup
				IP-74
			Light	
			Compensation Light Delay	10 seconds
			Record Channel	Enable
			Record Delay	10 seconds
			Relay out	Enable
			Alarm Delay	10 seconds
			Send Email	Disable
			Snapshot	Disable
		Alarm Activation	Enable	Disable
			Relay in	Alarm 1
			Anti-dither	0 second
			Sensor Type	NO
			Compensation Light	Disable
			Compensation Light Delay	10 seconds
			Record Channel	Enable
			Record Delay	Enable
			Relay out	10 seconds
			Alarm Delay	10 seconds
			Send Email	Disable
			Snapshot	Disable
		Compensation Light	Enable	Disable
			Period	All Week Period: 00:00:00-23:59:59.
	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
		SD Card Error	Enable	Disable
			Relay out	Enable
			Relay out Delay	10 seconds
			Send email	Disable
		Disconnect	Enable	Disable

Setup	Item			Default Setup
				IP-74
	ion		Record	Enable
			Record Delay	10 seconds
			Relay out	Enable
			Relay out Delay	10 seconds
		IP Conflict	Enable	Disable
			Record	Enable
			Record Delay	Enable
			Relay out	10 seconds
			Relay out Delay	10 seconds
Storage	Storage	Storage Position	Local Storage	Enable
			FTP	Disable
		FTP	Enable FTP	Disable
			Server IP	N/A
			Port	21
			Username	anonymous
			Password	N/A
			Remote path	Share
			Emergency Storage (Local)	Disable
		Record Control	Pack Duration	8 minutes
			Pre-record	5 seconds
			Disk Full	Overwrite
			Record Mode	Auto
			Record Bit Stream	Main Stream
System	General	Local Host	Device No	Device factory SN
			Language	English
			Video Standard	NTSC
		Date and time	Date Format	Y-M-D
			Time Format	24H
			Time Zone	GMT+08:00
			System Time	Sync
			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

Setup	Item			Default Setup
				IP-74
			Port	37
			Update Period	10 minutes
	Auto Maintenance		Auto Reboot	Enable. 02:00 Tuesday
			Auto Delete Old Files	Disable

2 Framework

2.1 Device Components

You can refer to the following figure for component information. See Figure 2-1.
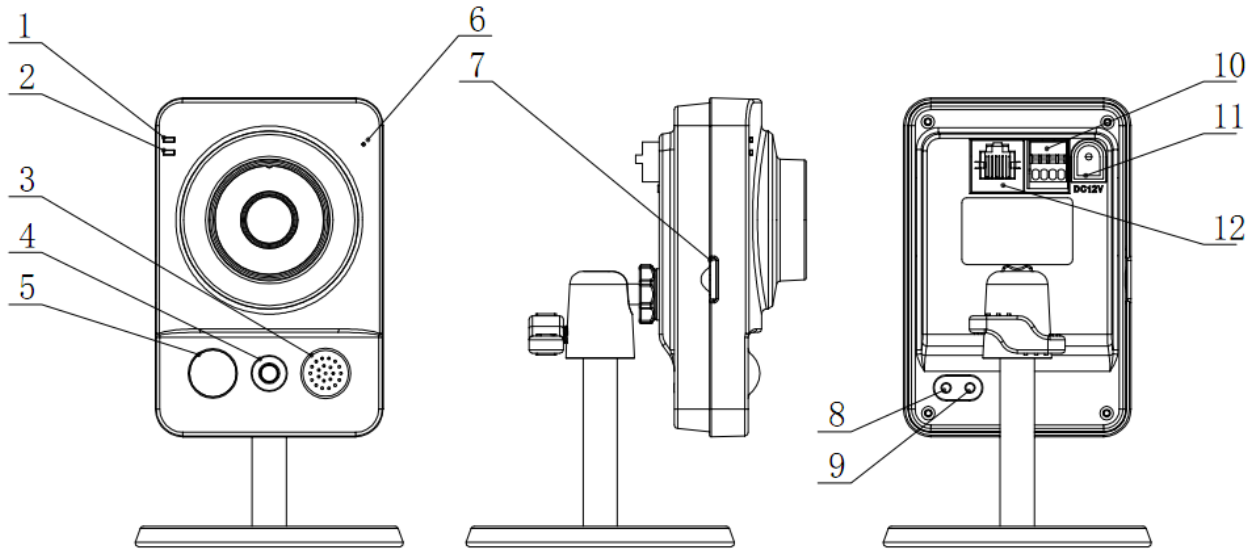
Figure 2-1

Please refer to the following sheet for detailed information.

SN	Port Name	Indicator	Connector	Note
1	Power indicator light	POWER	/	● When system boots up–Green light becomes on. ● When system is upgrading – Green light flashes. Interval is 0.5s. ● When system is alarming–Green light flashes. Interval is 0.2s.
2	Network indicator light	NET	/	● Wire network connection-Red light is on. ● Wireless network connection-Green light is on.
3	Speaker	/	/	Output audio signal. (This function is optional. For some series product only.)
4	White light	/	/	Can activate motion detect, PIR human body movement detect, external alarm.

SN	Port Name	Indicator	Connector	Note
5	PIR sensor	PIR	/	Passive IR motion detect port. It can detect the IR object movement (such as human body or other heating object).
6	Microphone	/	/	Directly receive audio signal. (This function is optional. For some series product only.).
7	Micro SD card	Micro SD	Micro SD card slot	SD card storage. (This function is optional. For some series product only.).
8	Reset button	Reset	/	Restore factory default setup. When system is running normally, press the RESET button for at least 5 seconds, system can restore factory default setup.
9	WPS button	WPS	Fast wireless connection	Press the WPS button of the router and the device respectively for at least 2 seconds. Usually the device can connect to the router within 1 minute. **Please note it is for wireless series product only and it is for the wireless router of the WPS function.**
10	Alarm pin	/	I/O port	Alarm signal input/output (This function is optional. For some series product only.).
11	Power port	DC12V	/	Input DC 12V power.
12	Network port	LAN	Ethernet port	● Connect to standard Ethernet cable. ● Support PoE function.

2.2 Dimensions

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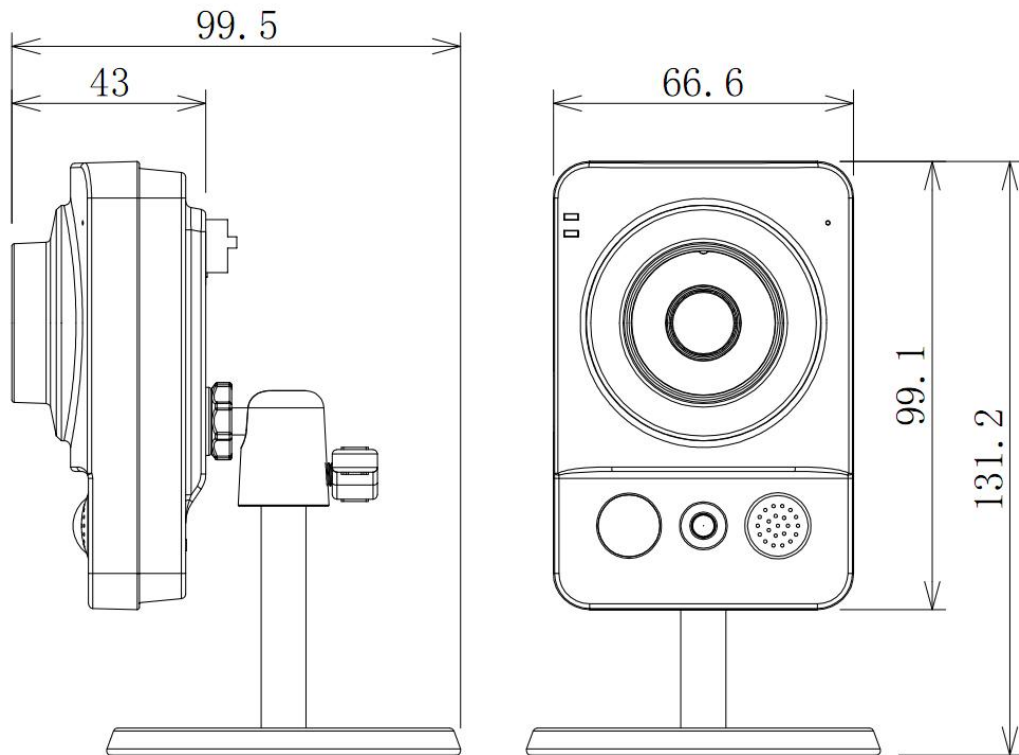
Figure 2-2

2.3 Bidirectional talk

2.3.1 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

Speak or play music at the PC-end, you can use the earphone or the sound box of the PC-end to listen the audio information from the device-end.

2.3.2 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 of the device.

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

Speak or play music at the PC-end, you can use the built-in speaker of the device-end to listen.

Note

Please go to the Master Volume interface of the PC to set first if you want to use the dual-way bidirectional talk. Please select Front Mic mode in the record control interface. (You can select microphone enhanced in Advanced interface if the audio is too low.)

2.4 Alarm Setup

The alarm setup interface is shown as below. See Figure 2-3.
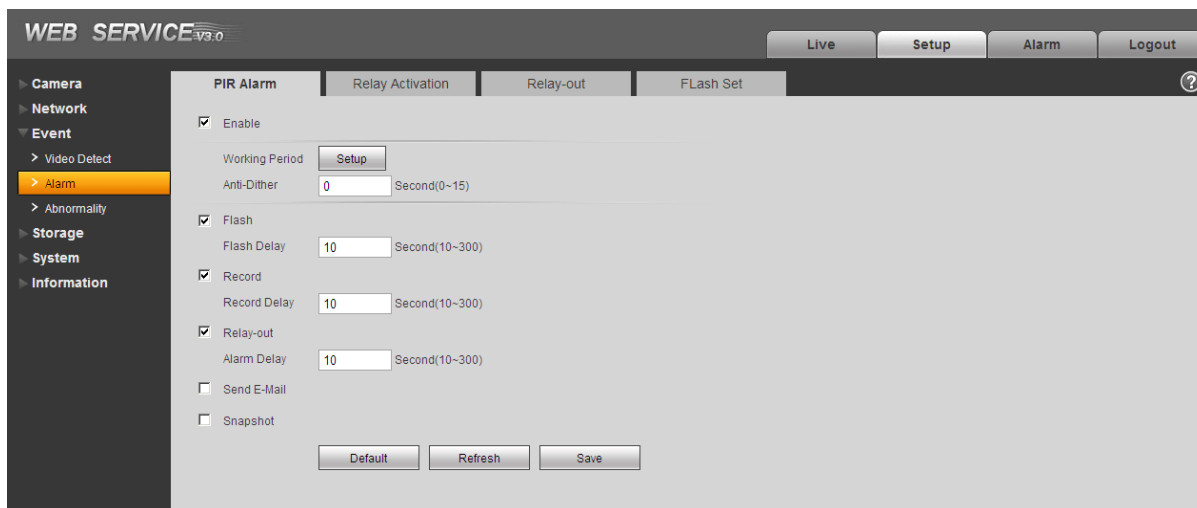
<p align="center">Figure 2-3</p>

2.4.1 Alarm Input and Output Connection

Please refer to the following figure for alarm input information. See Figure 2-4.

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 3.3V or is idle, the device collects the logic "1". When the input signal is grounded, the device collects the logic "0".
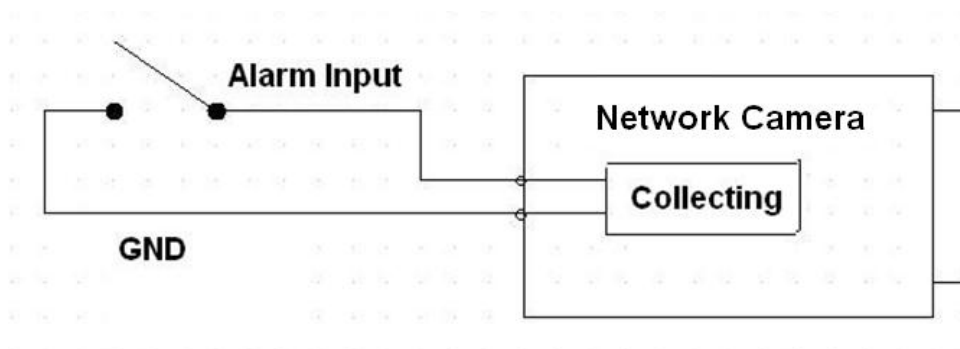
<p align="center">Figure 2-4</p>

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

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

This button is normal open. The button becomes off when there is an alarm output.
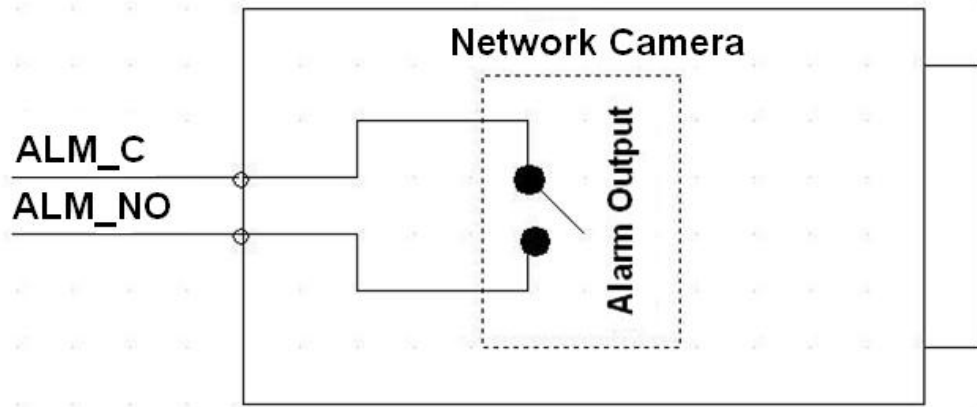
Figure 2-5

3 Device Installation

This series camera support two installation modes: wall mount and pendant mount. See Figure 3-1 and Figure 3-2.

Important

Please make sure the installation surface can min support the 3X weight of the camera and the bracket.

Step 1

Paste the installation positioning map on the installation surface such as wall, ceiling or the wood.

Step 2

Dig holes in the installation surface according to the installation positioning map.
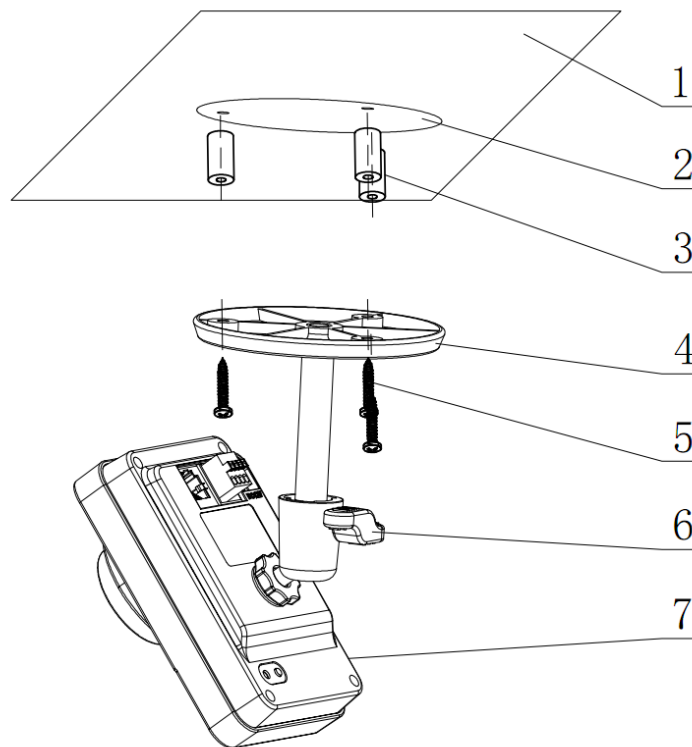
Figure 3-1

Step 3

Insert the expansion bolts from the accessories bag to the holes you just dug. If it is the wood surface you can skip to the next step.

Step 4

Use the screws from the accessories bag to secure the device firmly.

Step 5

Connect the cable and then boot up the device.

Step 6

Loosen the adjust knob for a little bit, adjust the camera to proper surveillance position according to

your actual requirements.

Step 7

Secure the knob of the bracket to fix the camera.

1   2   3   4   5   6   7
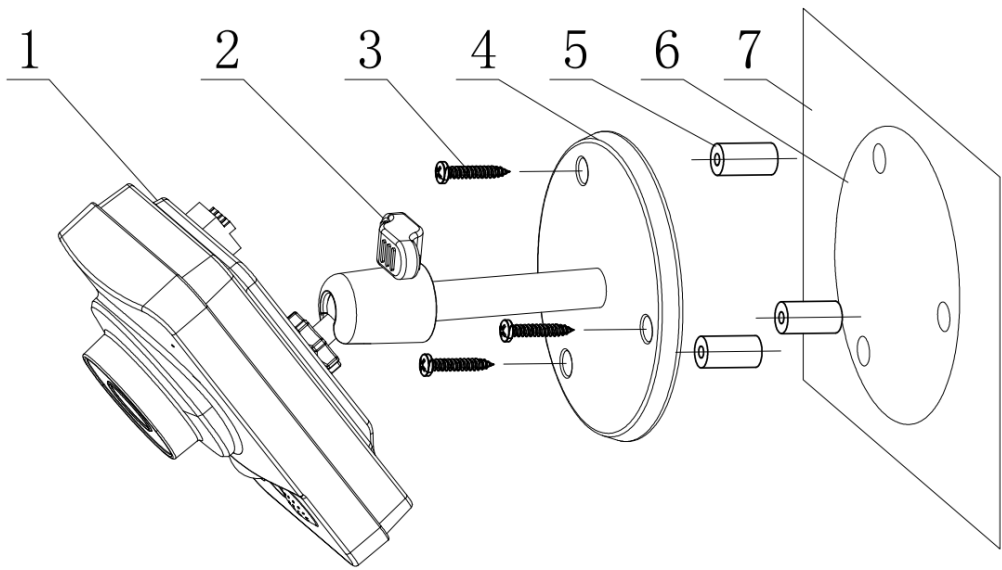
Figure 3-2

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.
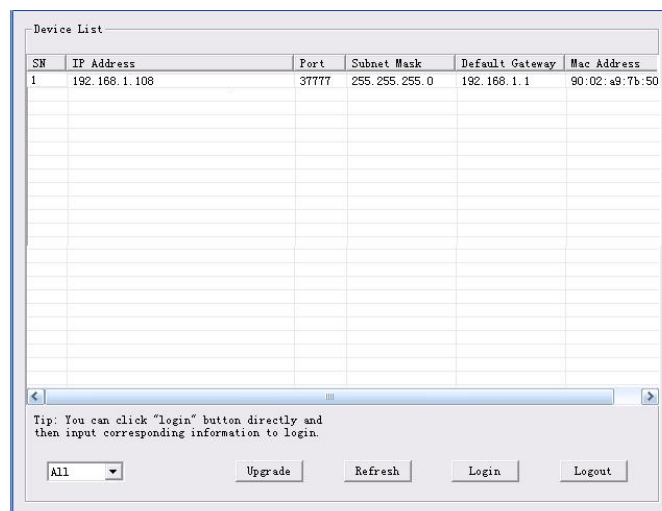
Figure 4-1

Select one IP address and then right click mouse, you can see an interface is shown as in Figure 4-2.
Note:
You can set the IP address, subnet mask and gateway for the network camera and PC. Please note network camera address and PC IP address shall be in the same network segment if there is no router. Network camera default IP address is 192.168.1.108. If there is a router, please set the corresponding gateway and subnet mask.
The factory default user name is **admin** and password is **admin**. For security reasons, please modify your password after you first login.
For detailed WEB operation, please refer to the Web Operation Manual in the resource CD.
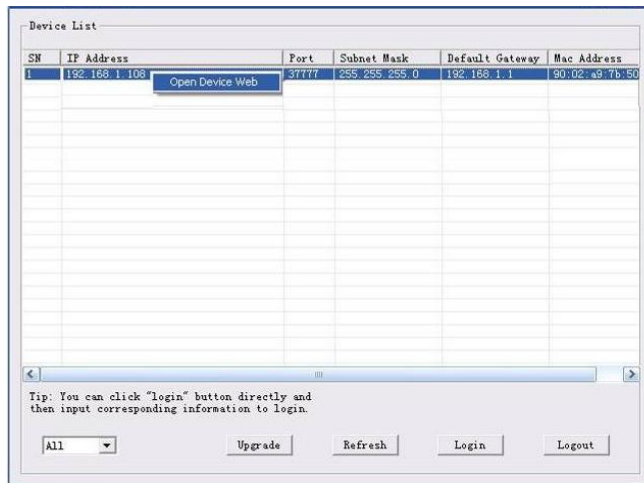
Figure 4-2

Select the "Open Device Web" item; you can go to the corresponding web login interface. See Figure 4-3.
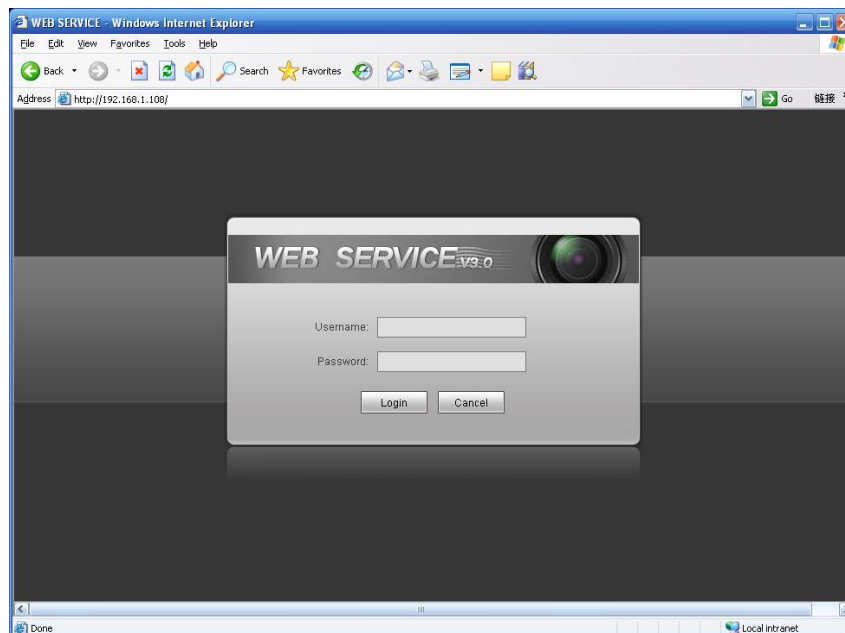
Figure 4-3
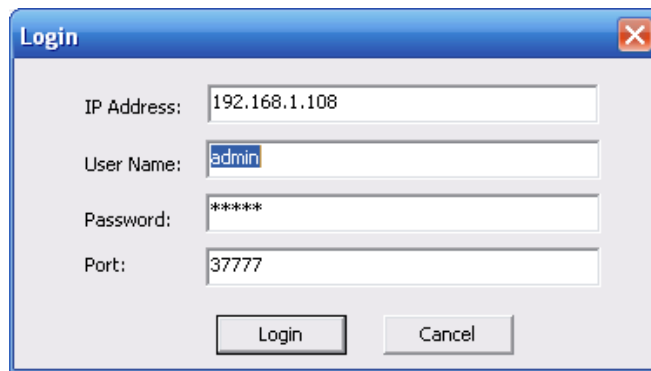
If you want to modify the device IP address without logging in the device web interface, you can go to the configuration tool main interface to set.

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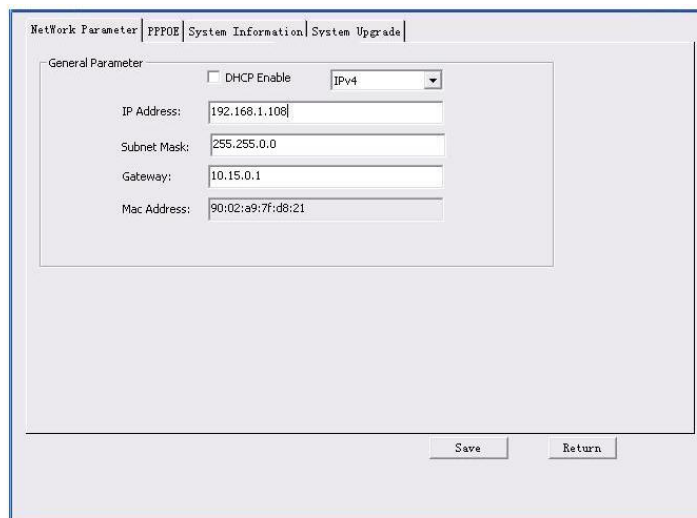
If you are using device background upgrade port 3800 to login, other setups are all invalid.

Figure 4-4

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

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 network camera product supports the Web access and management via PC.
Web includes several modules: monitor channel preview, system configuration, alarm and etc.

5.1 Network Connection

Please follow the steps listed below for network connection.
- Make sure the network camera has connected to the network properly.
- Please set the IP address, subnet mask and gateway of the PC and the network camera respectively. Network camera 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.
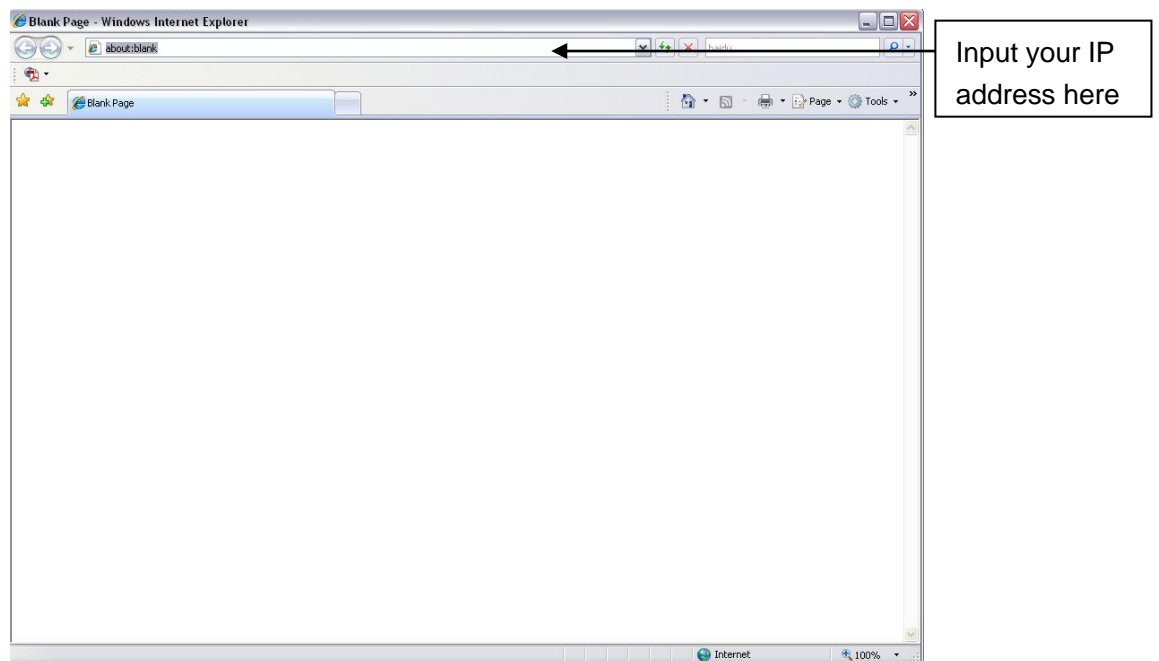

Figure 5-1

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.
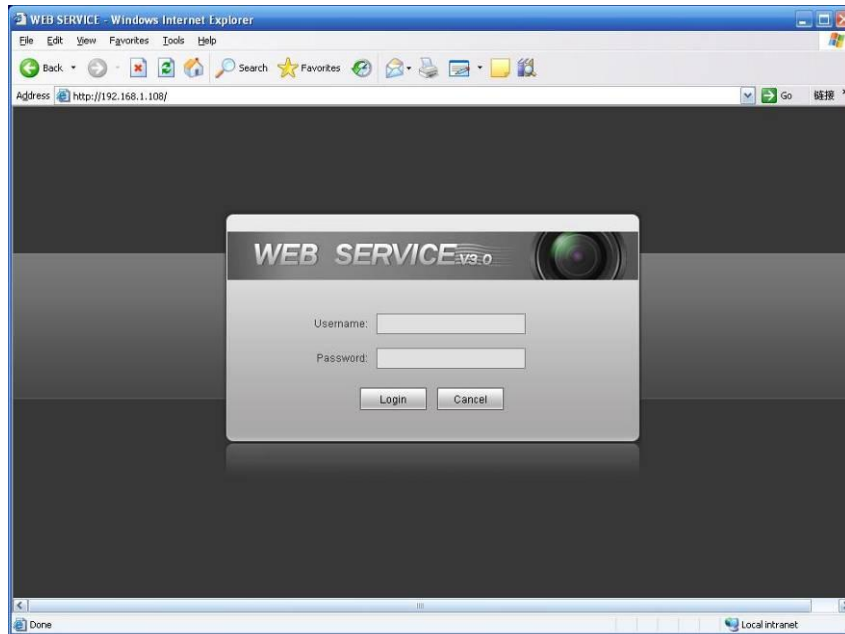
Figure 5-2

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.
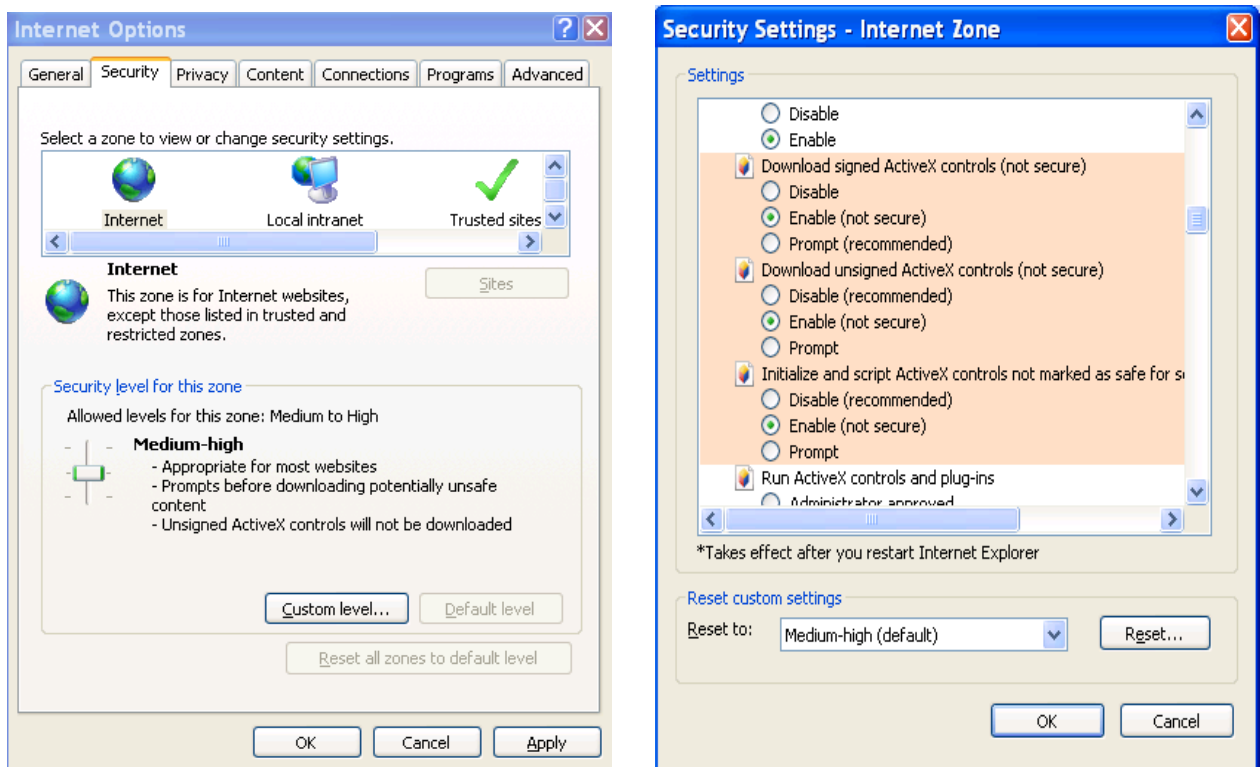

Figure 5-3

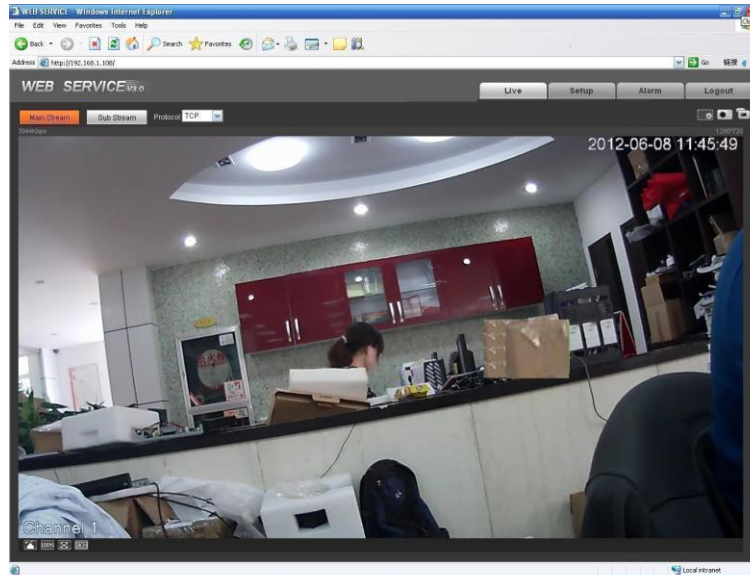After you logged in, you can see the main window. See Figure 5-4.

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.	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).
Recommended SD card brand	Kingston 4GB,Kingston 16GB,Kingston32GB,Transcend 16GB, SanDisk 4GB, SanDisk 32GB. Usually we recommend the 4GB (or higher) or industry-level high speed card in case the slow speed results in data loss.
I can not use PIR function.	● There are heating sources around the device environment. It may result in false alarm. ● The detect object is too long. The PIR sensitivity becomes lower greatly when the distance is more than 6m.
I can not upgrade the device via network.	When network upgrade operation failed, you can use port 3800 to continue upgrade.
I can not login the client-end or the WEB.	● For Windows OS 98 or Windows ME user, if you can not install the client-end or can not view after the installation. We recommend the win2000sp4 OS or install the client-end of the low version. ● The Active X control is blocked. ● The display card version shall be dx8.1 or higher. ● Network connection error occurred. ● Invalid network setup. ● Invalid user name or password.
I can not play the download file.	● There is no player. ● There is no DX8.1 or higher. ● For the MEDIA PLAYER, there shall be Div X503Bundle.exe plugin if you play the .AVI file. ● For Windows XP user, you need to install the plugin DivX503Bundle.exe and ffdsho-2004 1012.exe.
To guarantee setup update	After you modified the important setup, please reboot the device via the software to make sure the setup has been updated to the storage medium.

Bug	
Power adapter	• The general power adapter can work ranging from 0℃ to 40 ℃. The device may result in unstable power supply when the temperature exceeds the working temperature. • Please replace an industry-level power adapter if you are using in the harsh environments.

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 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.**