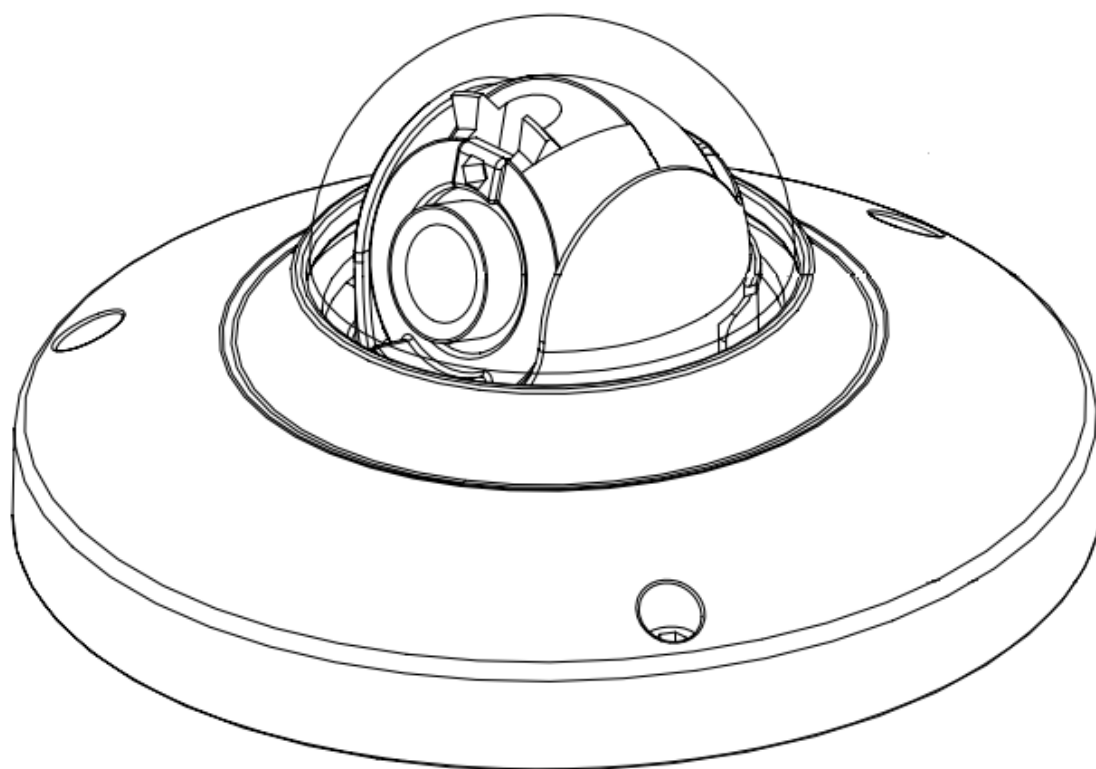




USER MANUAL

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1 General Introduction

1.1 Accessories

Accessory Name	Amount
IP Camera	1
Accessories bag (screws and installation template)	1
Quick Start guide	1
CD	1

1.2 Features

Functions	Features
User Management	Different user rights for each group, one user belongs to one group. The user right shall not exceed the group rights.
Storage Function	Central server backup function in accordance with your configuration and setup in schedule settings. Record via Web and the recorded file are stored in the client-end PC. FTP Network storage.
Alarm Function	Real-time respond to video detect as user pre-defined activation setup and exert corresponding message in screen and audio prompt. Real-time video detect(motion detect, camera masking) shows message in screen and audio prompt. Generates an alarm when finds an abnormality in the system.
Network Monitor	One-channel video data transmit to network terminal. Delay is 270ms (network bandwidth support needed) Max 20 connections. Audio and video transmission protocol: HTTP, TCP, UDP, RTP/RTCP, RTSP and etc. Web access.
Network Management	Configuration and management via Ethernet. Device management via web or client-end. Various network protocols.
Power	External power adapter DC12V PoE 802.3af.
Assistant Function	Log function System resource information and running status real-time display. Day/Night mode auto switch. Backlight compensation: screen auto split to realize backlight compensation to adjust the bright. Electronic shutter and gain setup. Video watermark function.

1.3 Specifications

1.3.1 Performance

Parameters		IP dome camera
System	Main Processor	TI Davinci high performance DSP
	OS	Embedded LINUX
	System Resources	Real-time network, local record, and remote operation at the same time.
	User Interface	Remote operation interface such as WEB, VMS software
	System Status	Bit stream statistics, log, and software version.
Video Parameter	Image Sensor	1/3-inch CMOS
	Pixel	1280(H)*960(V)
	Day/Night Mode	Day/night mode switch.
	Gain Control	Fixed/Auto
	White Balance	Manual/Auto
	BLC	On/off
	Electronic Shutter	Manual/Auto (ranges from 1/3 to 1/10000).
	Video Compression	H264 /MJPEG
	Max Video Frame Rate	Main stream (1280*960@15fps) / extra stream (704*576@15fps) or Main stream (1280*720@25fps) / extra stream (704*576@25fps)
	Video Bitrate	H.264: 64-6144Kbps. MJPEG: 64-10240Kbps. The bitrate is adjustable.
	Video Flip	Mirror function. Flip function.
	Snapshot	Max 1f/s snapshot (JPEG).
	Privacy Mask	Max 4 privacy mask zones
	Video Setup	Brightness, contrast, colors, etc...
	Video Information	Channel title, time title, motion detection, privacy mask.
Video	Lens	2.8mm Megapixel
	Lens Interface	M12. Lens
Record / Backup	Motion Detect	396 (18*22) detection zones: sensitivity level ranges from 1 to 6 (The 6 th level has the highest sensitivity) Activation event: Video storage, image snapshot, log, email, etc...
	Video Loss	Activation event: Video storage, image snapshot, log, email etc...
Record / Backup	Record Priority	Manual> Video detect>Schedule
	Local Storage	No SD card port

Parameters		IP dome camera
Network	Wire Network	1-channel wire Ethernet port, 10/100 Base-T Ethernet
	Network Protocol	Standard HTTP, TCP/IP, IPv4/IPv6, ARP, IGMP, ICMP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, UPNP, NTP, Bonjour, SNMP.
	Platform interface Standard	ONVIF
	Remote Operation	Monitor, system setup, log information, maintenance , upgrade etc
XUX	Reset	Built-in RESET button
General Parameter	Power	Support DC12V and PoE 802.5af.
	Power Consumption	1.5W MAX
	Working Temperature	-10°C~+50°C
	Working Humidify	10%~90%
	Dimensions(mm)	Φ110×54
	Weight	0.25Kg
	Installation	Wall or ceiling mount

1.3.2 Factory Default Settings

Function Setup Type		Item	Default Settings
Camera Setup	Properties	Brightness	50
		Contrast	50
		Hue	50
		Saturation	50
		Gain Mode	Auto
		Gain Max	80
		Exposure Mode	Auto
		Scene Mode	Auto
		Day/night mode	Auto
		BLC	Off
		Mirror	Disable
		Flip	Disable

Function Setup Type		Item			Default Settings
Camera Setup	Video	Video	Main stream	Code-Stream Type	General
				Encode Mode	H.264B
				Resolution	720P （1280*720）
				Frame Rate （FPS）	PAL: 25 / NTSC:30
				Bit Rate Type	CBR
				Reference Bit Rate	1536-6144Kb/s
				Bit Rate	4096
				I frame Interval	50
				Watermark Settings	Enable
				Watermark character	DigitalCCTV
			Extra stream	Enable	Enable
				Code-Stream Type	General
				Encode Mode	H.264B
				Resolution	CIF(352×288/352×240)
				Frame Rate （FPS）	PAL: 25 NTSC:30
				Bit Rate Type	CBR
				Reference Bit Rate	192-1024Kb/S
				Bit Rate	1024
				I frame Interval	50
		Snapshot	Snapshot Type		General Snap
			Image Size		720P （1280*720）
			Quality		5
			Interval		1picture/s
		Overlay	Privacy Mask		Disable
			Channel Title		Enable
			Time Title		Enable
		Path	Snapshot path		C:\PictureDownload
			Record path		C:\RecordDownload

Function Setup Type	Item		Default Settings
Network setup	TCP/IP	Host Name	IPC
		Ethernet Card	Wire (Default)
		Mode	Static
		MAC address	Depends on the device
		IP version	IPv4 and IPv6
		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/Pingto to set IP address service	Enable
	Connection	Max connection	10
		TCP port	37777
		UDP port	37778
		HTTP port	80
		RTSP port	554
	PPPoE	Enable	Disable
		User Name	N/A
		Password	N/A
	DDNS	Server Type	Disable, CN99 DDNS
		Server IP	none
		Port	80
		Domain Name	none
		User Name	none
		Password	N/A
		Update Period	5m
	IP filter	Trusted Sites	Disable
	SMTP (email)	SMTP Server	none
		Port	25
		Anonymity	Disable
		User name	anonymity
		Password	N/A
		Sender	none
		Authentication (Encrypt mode)	N/A
		Title (Subject)	IPC Message
		Main Receiver	N/A
		Interval	0s
		Health Mail	Disable, interval=60m

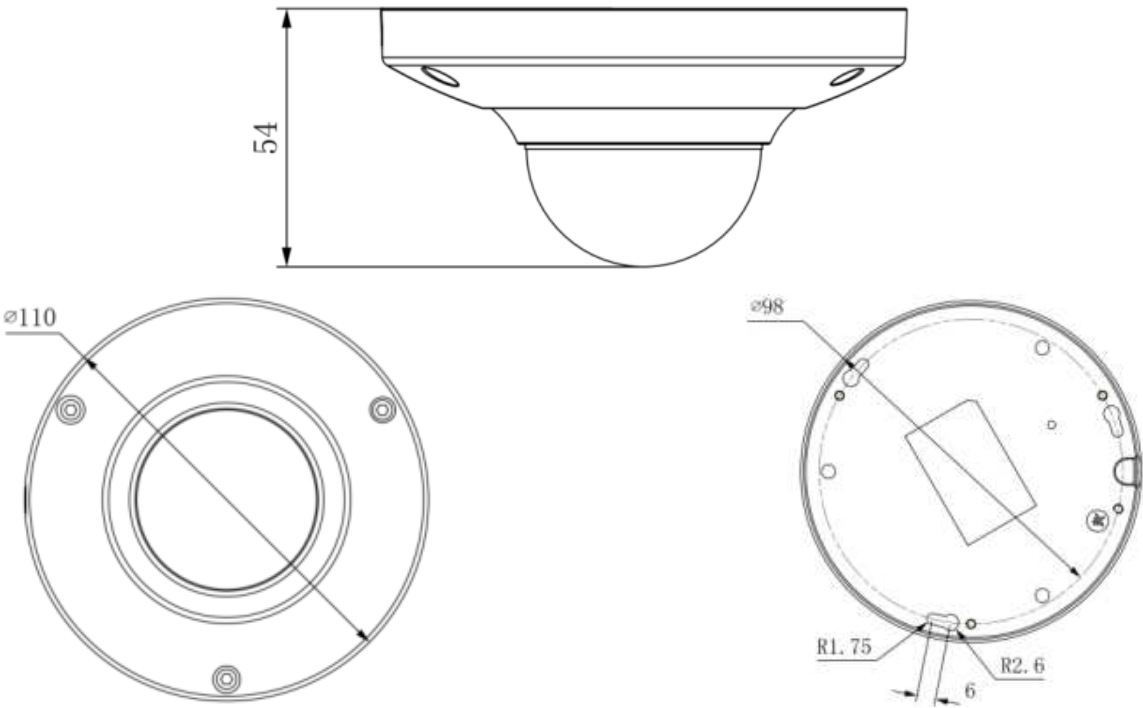
Function Setup Type	Item		Default Settings	
Network setup	UPnP		Enable UPnP Disable	
	SNMP	SNMP v1	Disable	
		SNMP v2	Disable	
		SNMP port	161	
		Read community	public	
		Write community	private	
		Trap address	N/A	
		Trap port	162	
	Bonjour	Enable	Enable	
		Server name	Depends on the device.	
	Multicast	Multicast address	239.255.42.42	
		Port	36666	
QoS	Real-time monitor	0		
	Command	0		
Event management	Video detect	Motion Detect	Enable	Disable
			Anti-dither	5 seconds
			Sensitivity	3
			Record Channel	Enable
			Record Delay	10 seconds
			Send Email	Disable
			Snapshot	Disable
		Video Masking	Enable	Disable
			Record Channel	Enable
			Record Delay	10 seconds
			Send Email	Disable
			Snapshot	Disable
	Abnormity	Disconnec tion	Enable	Disable
			Record	Enable
			Record Delay	10s
		IP Conflict	Enable	Disable
			Record	Enable
			Record Delay	10s

Function Setup Type	Item			Default Settings	
Storage management	Schedule	Record Schedule	To Set		
		Snapshot Schedule	To Set		
	Destination (Storage)	Path : Record Snapshot	Timer	Disable	
			Motion Detect	Disable	
			Alarm	Disable	
		FTP	FTP enable	Disable	
			Server IP	N/A	
			Port	21	
			User name	anonymity	
			Password	N/A	
	Record control	Pack duration	8m		
		Pre-record	5s		
		Disk Full	Overwrite		
		Record Mode	Auto		
		Main Stream	Main Stream		
System management	General setup	Local setup	Device Name	Device factory SN	
			Language	English	
		Date and time	Date Format	Y-M-D	
			Time Format	24H	
			Time Zone	GMT+08:00	
			Current Time	Sync PC	
			DST	Disable	
			DTS 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	
			Synchronize with NTP	Disable	
			NTP server	clock.isc.org	
			Port	37	
			Update period	10m	
	Auto maintenance	Auto reboot	Enable		
		Auto delete old files	Disable		

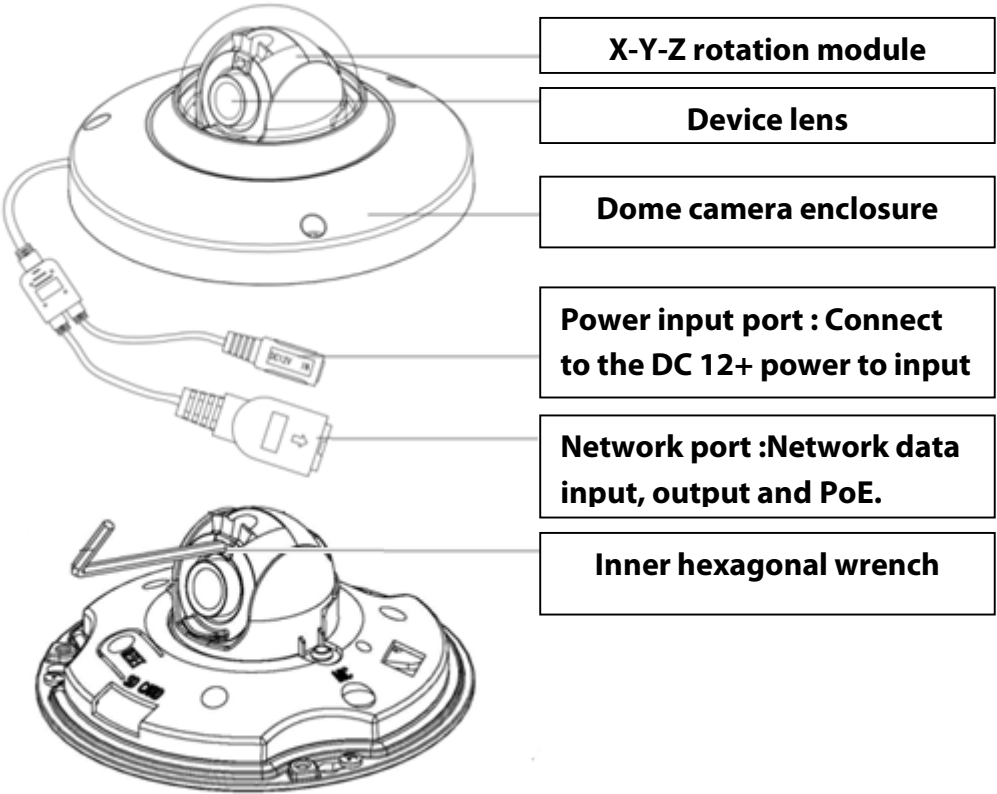


2 Framework

2.1 Dimensions

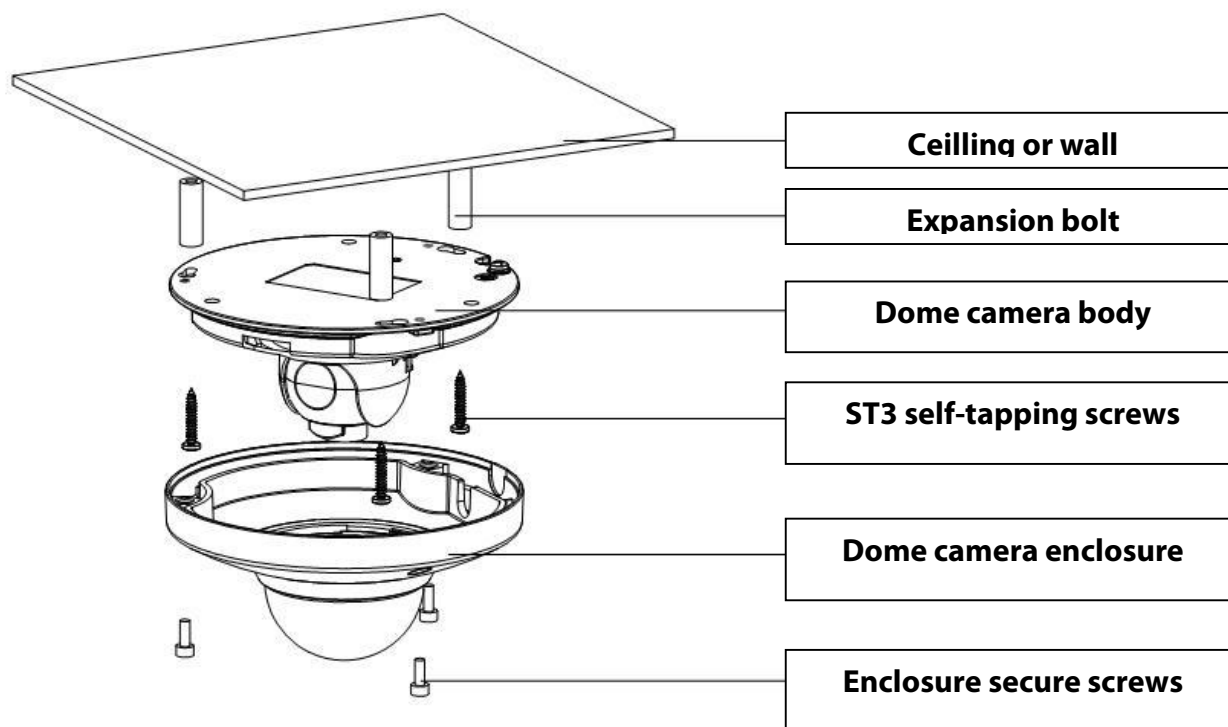


2.2 Structure



3 Installation

3.1 Device Installation



Step1

Use inner hexagonal wrench to loose the three inner hexagon screws in the dome cover and open the cover.

Step 2

Take the installation installation template in the accessories bag, and then paste it on the ceiling or the wall according to your monitor area requirements. Draw and dig three plastic expansion bolts holes in the installation surface and then insert three expansion bolts in the holes. Secure these three bolts firmly. Dig a "cable exit hole" in the surface according to the installation position map and draw out the cable from the top of the installation surface.

Step 3

Adjust the device to the proper position and draw the cable through the cable exit, dug in the ceiling (wall). Line up the TOP direction of the device to the installation position map and then line up the three screw holes in the device pedestal to the three plastic expansion bolt holes in the installation position. Put the three self-tapping screws in the three plastic expansion bolts firmly.

Step 4

Loosen the two M3 secure screws of the lens rotation structure (do not remove, loosen a little bit will be OK.). Use the inner hexagonal wrench to insert them to the inner hexagonal holes and use the wrench to turn the lens. Adjust the lens to the proper monitor angle and secure the screws of the lens rotation structure. The lens adjust angle ranges are: flip ($0^{\circ}\sim+75^{\circ}$), video pan rotation ($-15^{\circ}\sim+15^{\circ}$), video rotation angle ($-15^{\circ}\sim+15^{\circ}$).

Step 5

Line up the dome camera cover to the cable exits and put the cover back. Use the inner hexagonal wrench to secure the three inner hexagonal screws firmly.

Note:

The device GND cable can effectively enhance the device reliability. The GND hole is near the cable exit of the back of the enclosure.

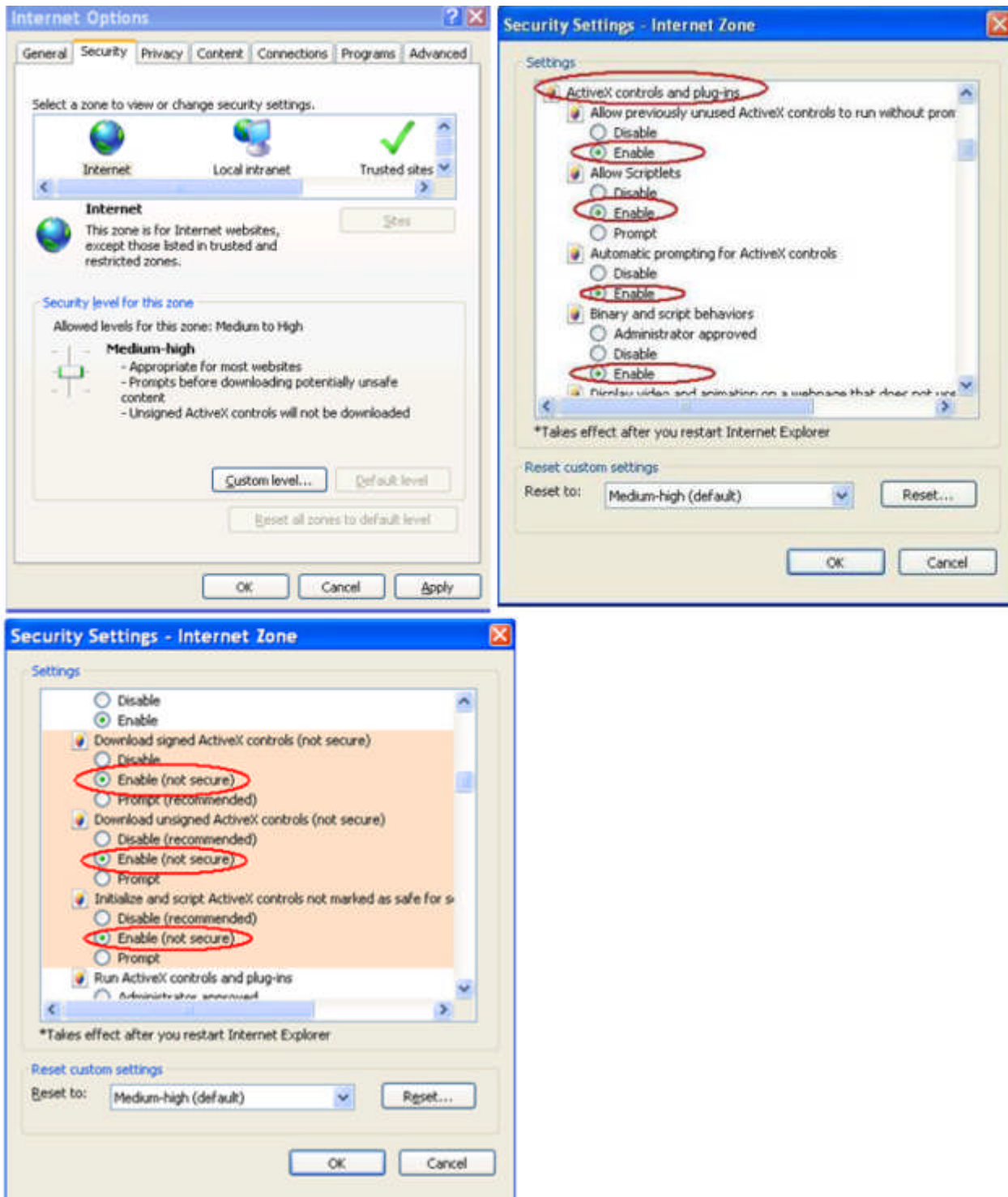
4 Connecting to a device and opening the web application

4.1 IE options configuration for config tool and and IE

This device supports web access and management via PC.

System pops up warning information to ask you whether install control “webrec.cab” or not. Click “OK” button, system can automatically install the control.

If you can’t download the ActiveX file, you can lower the IE security level or disable anti-phishing filter. Be sure you are logged with administrator rights in your Windows session.



4.1.1 Connection with the Search Tool

Refer to chapter “5.2.1 Connecting to the device’s web interface”

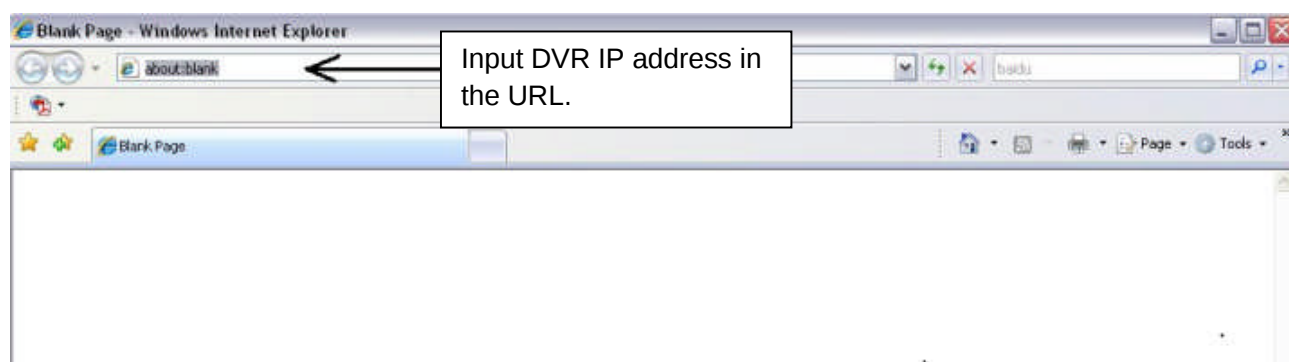
4.1.2 Connection with Internet Explorer

IP camera factory default setup :

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

Open Internet Explorer and input IP camera address in the address bar.

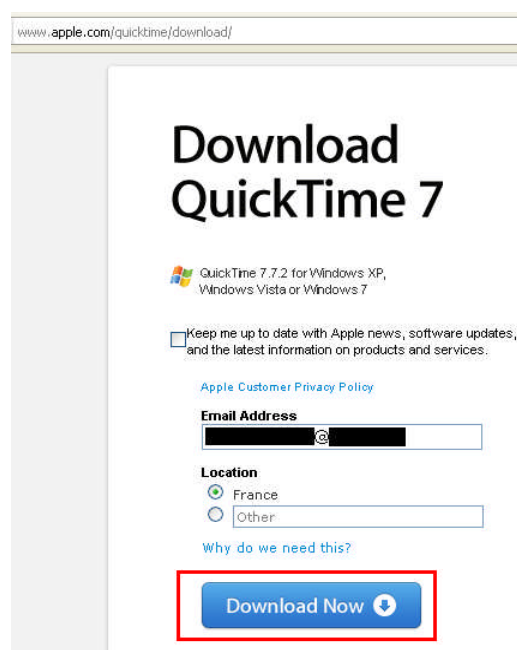
For example, if your camera IP is 192.168.1.108, input `http://192.168.1.108` in IE address bar.



4.2 Connection with Mozilla Firefox or Google Chrome

Go to Apple web site, download and install QuickTime (www.apple.com/quicktime/download)

Then open Firefox or Chrome and input the IP DVR address in the browser URL.



Nota: These browsers can modify the display interface and some function buttons could not appear

5 Quick Configuration Tool

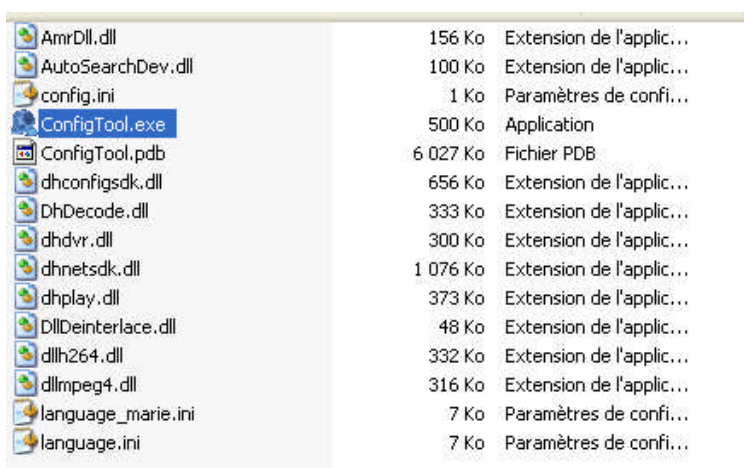
5.1 Introduction

Quick configuration tool is used to search for current IP address, modify IP address. It can also be used to perform a software upgrade or to modify settings. This tool only applies to the IP addresses in the same network segment.

Before using the Quick Configuration Tool, please check that this software is in updated version.

5.2 Searching/Connecting

Select and double click the "ConfigTool.exe" in the application directory.



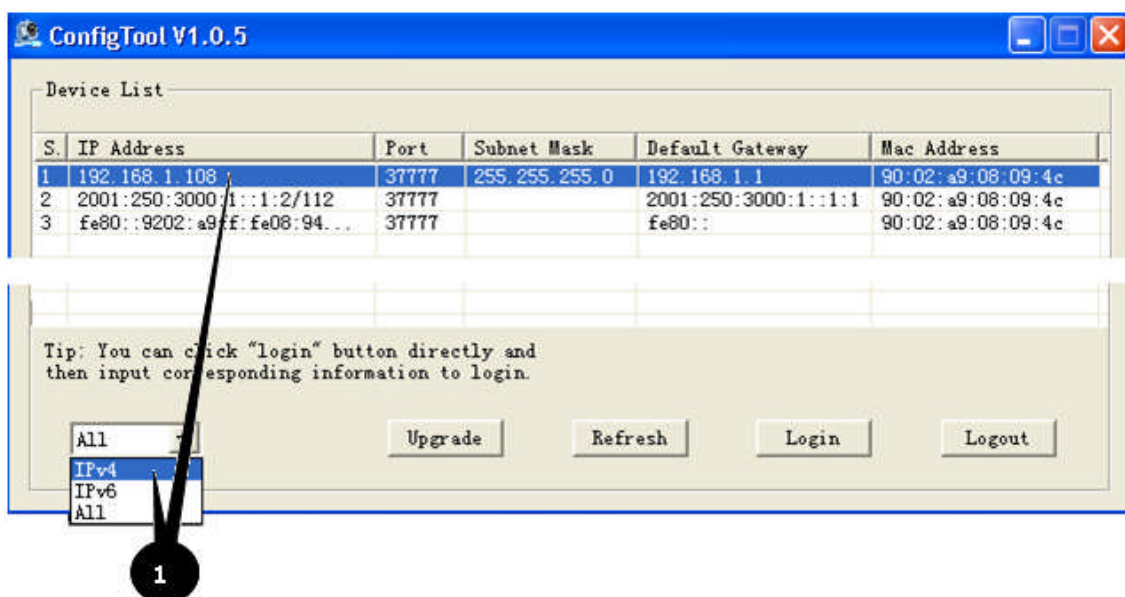
The version of Config tool should be at least 1.0.5.

5.2.1 Connecting to the device's web interface

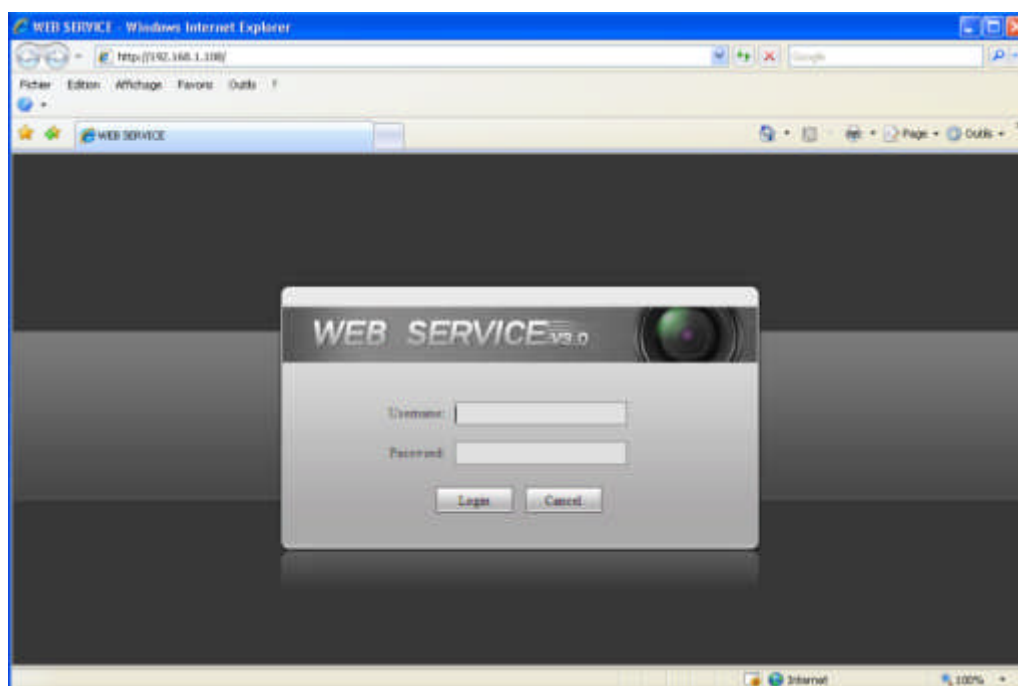
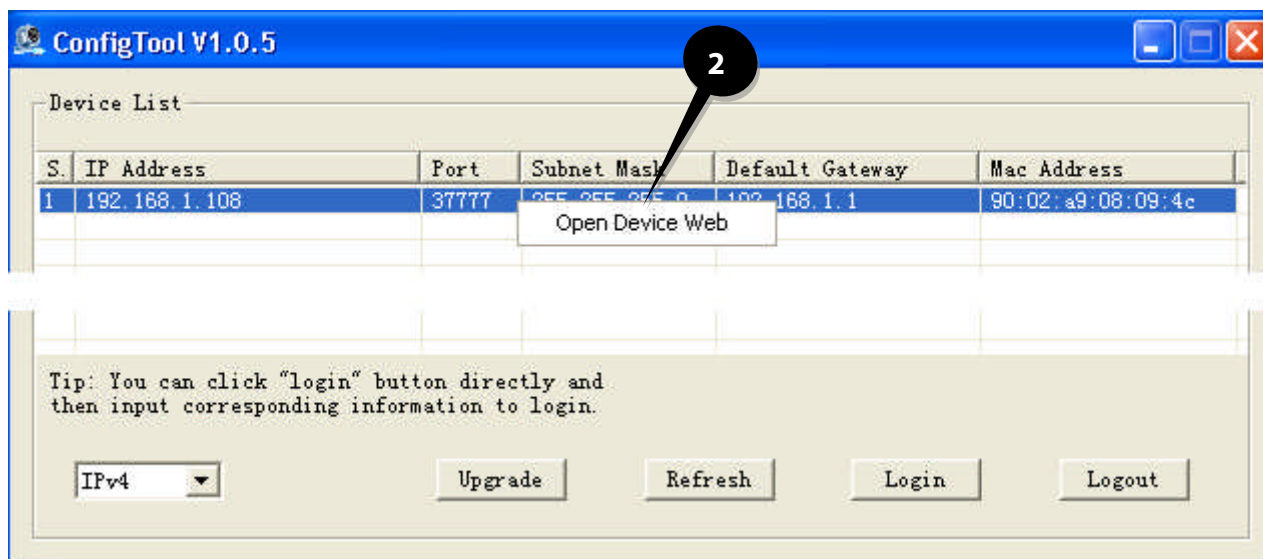
To find connected devices in the same segment network, click the "refresh" button. The tool will search for the connected devices and display the device IPv4 and IPv6 in the form list.

In the device list interface, you can view device IP addresses (IPv4 and IPv6), port number, subnet mask, default gateway and MAC address.

1 - Select IPv4 address, the IPv6 addresses disappear and right click on the highlighted line.



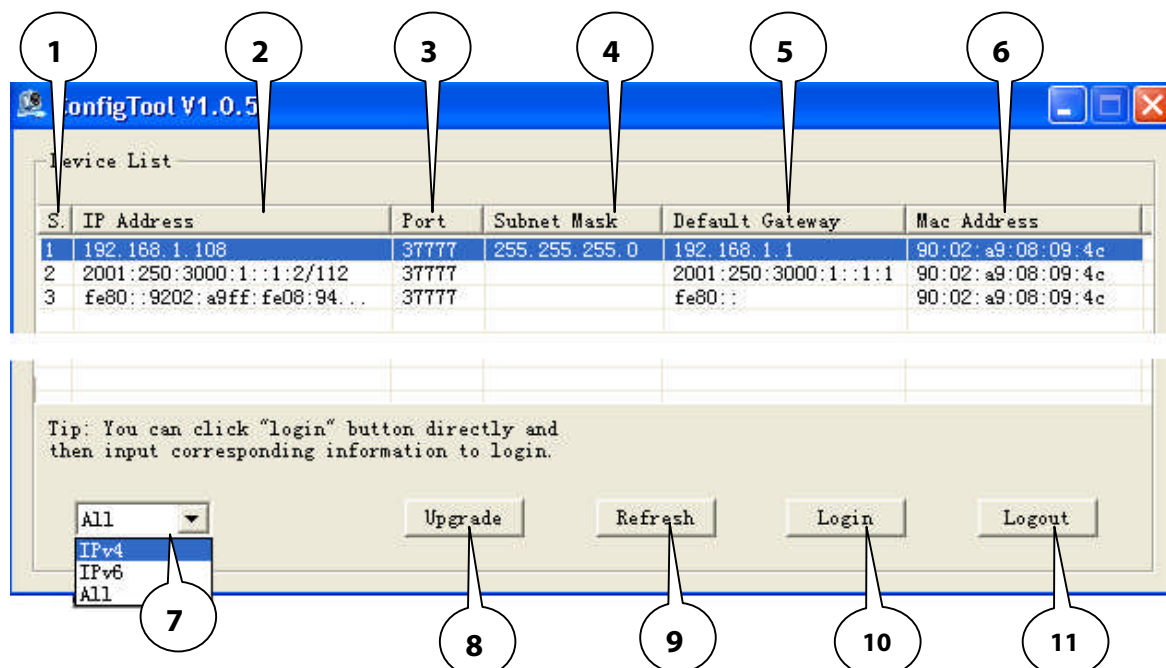
2- Select "Open Device Web" item to go to the web interface:



If you can't connect, check your internet explorer security settings as described in chapter 4.

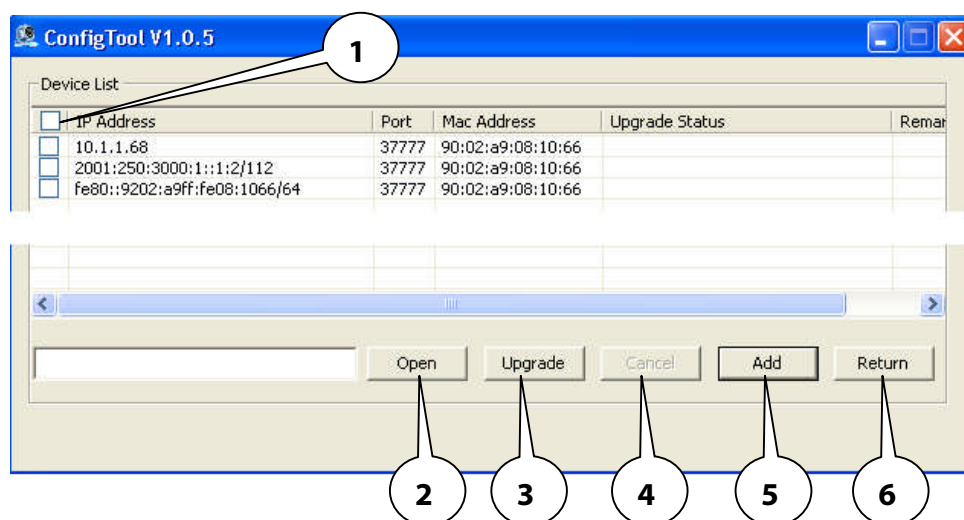
5.3 Connecting with the configuration tool (to change the IP address or upgrade the device software).

To find devices connected to the network, click the “Refresh” button. The tool will search for devices connected to the network and display them in the form of the list.



N	Description
1	Number.
2	Device IP address.
3	Device TCP port.
4	Device subnet mask.
5	Device default gateway.
6	Device MAC address.
7	Select “IPv4” or “IPv6” or “All”.
8	“Upgrade” button opens the interface to upgrade the device firmware See below (8) .
9	Refresh the list.
10	“Login” button opens the login interface to confirm login, password and port and configure the device. See below (10) .
11	Disconnect.

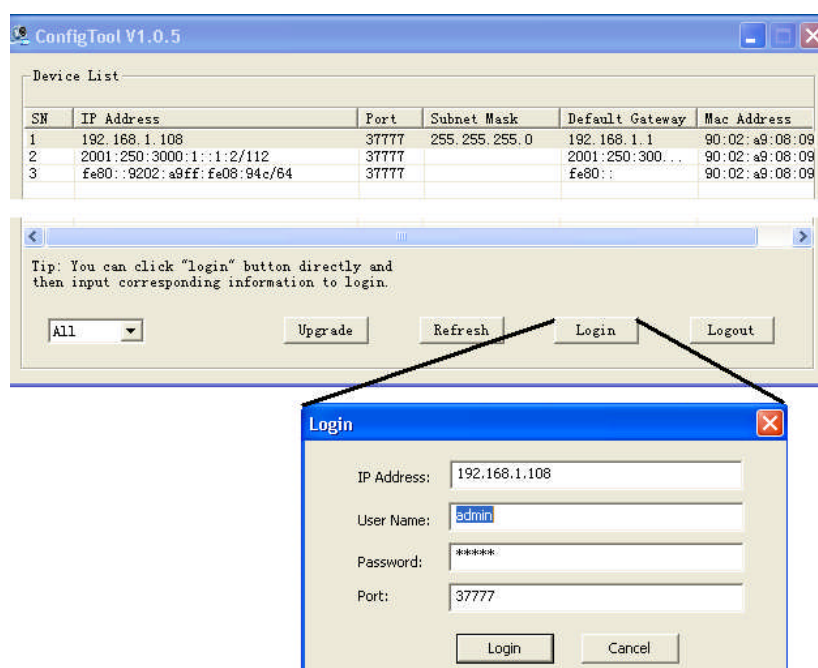
(8) “Upgrade” button opens the interface to upgrade the device firmware:



N	Description
1	Select a check box of a device or several devices with same commercial references into this list.
2	Click “Open” button and select the new firmware in the PC directory.
3	Click “Upgrade” button, the devices will be upgraded. Be careful don’t cut off the network connection.
4	Click “Cancel” button to stop the upgrade.
5	“Add” button configures manually s a new device IP and port.
6	“Return” button comes back to the previous interface.

(10) “Login” button opens the login interface.

- Highlight the network information device (single click in the list)
- Click the “Login” button (or double-click the highlighted line)
- The following page opens:



Note: Here any information cannot be modified. Click the “Login” button in login popup window to open the main interface mode where the network and system settings can be changed.

5.4 Main interface of the tool

5.4.1 Network settings

Functions	Description
DHCP Enable	Enables or disables the DHCP function.
IPv4/IPv6	Select IPv4 or IPv6 in the combo list. The IP addresses can be changed.
IP Address	IP address of the device.
Subnet Mask	Subnet mask of the device.
Gateway	Gateway of the device.
Mac Address	MAC address of the device.
Save	Save the modifications.
Return	Comes back to the previous interface.

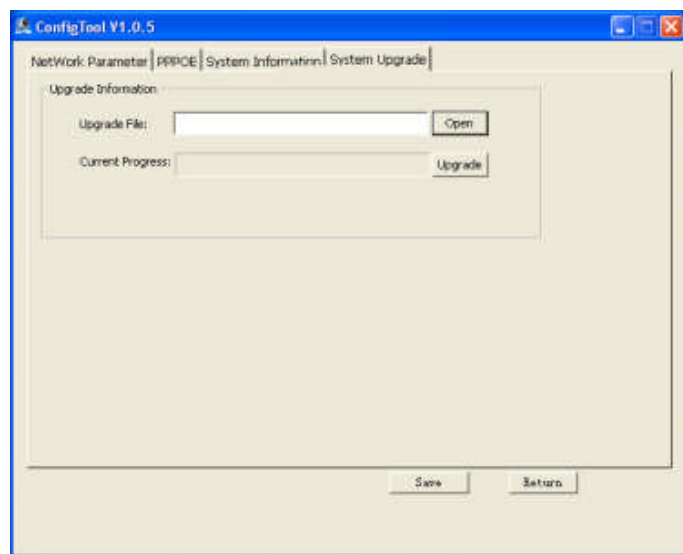
5.4.2 System Information

Before using the camera, please check that its software is in updated version.

Functions	Description
SN	Serial number of the device
Software Version	Software version of the device
Device Name	User name
Synchronization with PC	Synchronisation of the device's date and time the PC. Click on "Sync" to synchronise, then on "save".
PC Date	Date on the PC.
PC Time	Time on the PC.
Manual Setup	Manual setting of the device's date and time. Enter the required date and time. Click "Sync" button to synchronise and "save"
Return	Return to the previous interface.

5.4.3 System Upgrade

Before using the Camera, please install its updated software version.



Functions	Description
Upgrade File/Open	Click here to select the file to be upgraded
Current Progress/Upgrade	Click here to start the upgrading procedure
Return	Return to the search interface

Steps to upgrade the internal software

- Click the "Open" button.
- Select and add the *.bin internal software file (firmware)
- Click the "Upgrade" button. Then the file is transmitted to the device and the device automatically upgrades itself.
- Then, click the "OK" button to end the procedure.

6 Resetting the camera

- Click on the "Reset" button (located inside the camera) during 10 seconds
- Wait for the auto reboot of the camera
- The camera is now in factory default settings