

SOHO IP Camera

Stand Alone Type

SOHO SURVEILLANCE

MANUAL

Firmware 0.23.2.10 Version

Revision Date : 2010. 04. 01



NOTE: This equipment has been tested and found to comply with the limits for a class digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



**Disposal of Old Electrical & Electronic Equipment
(Applicable in the European Union and other European
countries with separate collection systems)**

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

All the safety and operating instructions must be read before the unit is operated.

Clairvoyant 1002, 1002RW



Clairvoyant 1006, C1006RW



Clairvoyant 1062A, B



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The information presented in this publication has been carefully prepared and is believed to be correct at the time of publication. However, no responsibility will be assumed for any inaccuracies. Specifications are subject to change without notice.

The information herein is subject to change without notice. This manual is periodically reviewed and revised.

No responsibility is assumed for any errors or omissions in this document.

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COMPLIANCE STATEMENT

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Declaration of Conformity



Notes, Cautions, and Warnings

There are two levels of special notation used in this manual. They are:



WARNING: If the actions indicated in a “WARNING” are not complied with, injury or major equipment damage could result. A warning statement typically describes the hazard, its possible effect, and the measures that must be taken to reduce the hazard.

CAUTION: If
complied



the action specified in the “CAUTION” is not
with, damage to your equipment could result.

NOTE: A “NOTE” provides supplementary information, emphasizes a point or procedure, or gives a tip for easier operation.

Package Content

1. Indoor Camera

or

Outdoor Camera



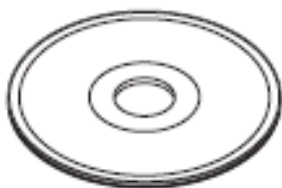
**2. Power Adapter : DC 5V, 1A (indoor)
DC 5V, 1.5A (outdoor)
DC 7.5V, 1.5A (POE)**



Or



3. Utility CD :



4. Passive POE power inserter: (optional)



POE cameras will be able to take power from either "**camera black power connector**" or from "**RJ-45 connector**", please insert "**appropriate** voltage" DC power (**must < 7.5V**) into "**Cat. 5e cable**" by "**Passive POE power Inserter**" so that at the camera "**RJ-45 connector**" voltage is "**within 5.0V ~ 7.5V range** "

Note:

The voltage drop through "**Ethernet cable**" is depend on cable length and quality. Wireless camera won't support POE by default.

"**Passive POE power Inserter**" use Cat. 5e cable 4&5 (positive +), 7&8 (negative -) to conduct DC current.

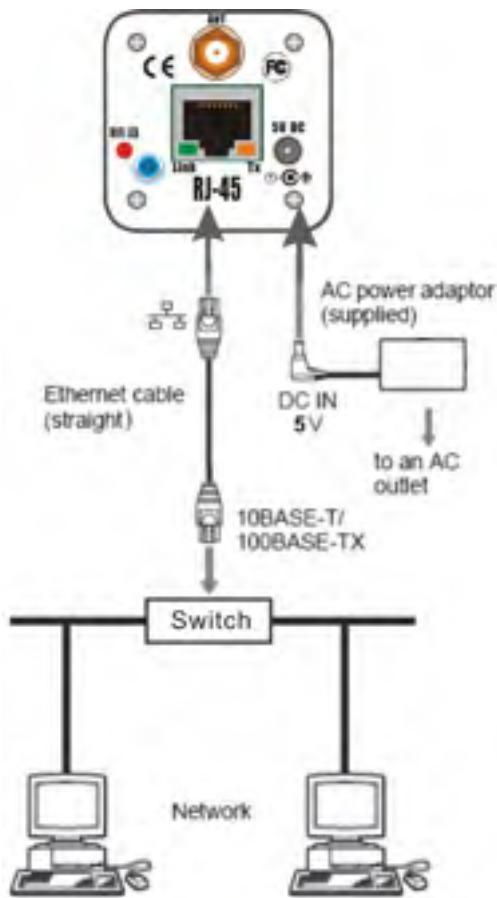
Only camera integrated with IR LEDs will be equipped with **850nm lens**, which will allow IR flood lamp light (normally 850nm) pass through.

Camera with **IR filter** (650nm lens) will deliver true color image.

Camera with **850nm lens** will support night vision if integrated with IR flood lamp, but "**color bias**" images will result.

1. Installation

1-1 Connect IP CAMERA to your Local Network



CAUTION:
Please use the DC power adaptor that is provided with the camera. Connecting camera to other power source will cause permanent damage to the camera.

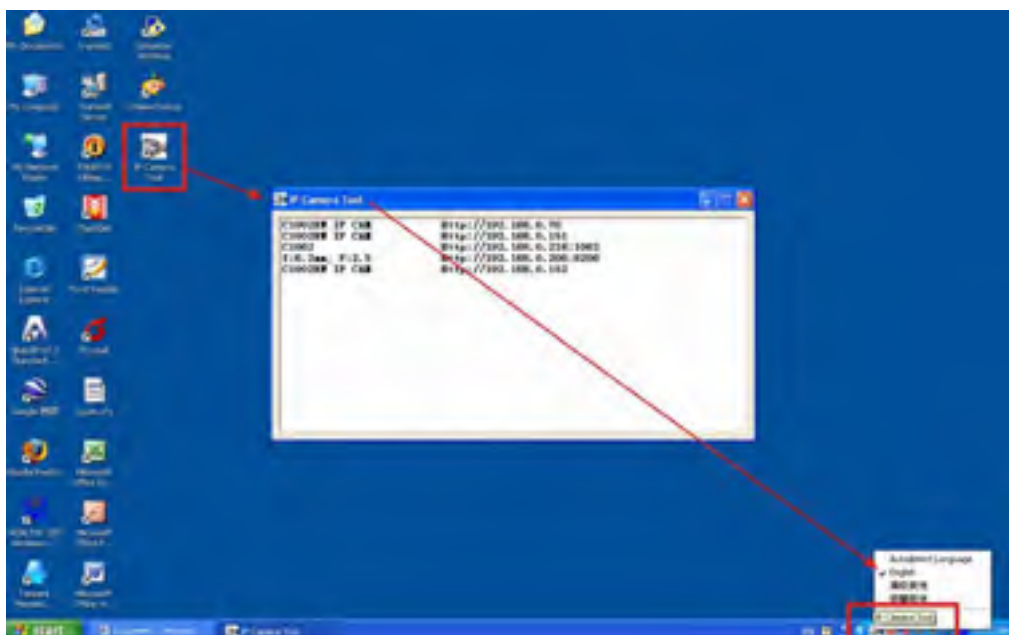
NOTE:
Please use straight Ethernet cable (CAT. 5e) to connect camera to your home/ office network switch/ hub or a broadband router.

Please make sure there is DHCP server available, or set your PC IP address manually. Your PC won't "Obtain an IP address automatically" without DHCP connected.
"IP Camera Tool" **won't work on a PC without IP address.**

1-1-1 There is DHCP Server in your LAN

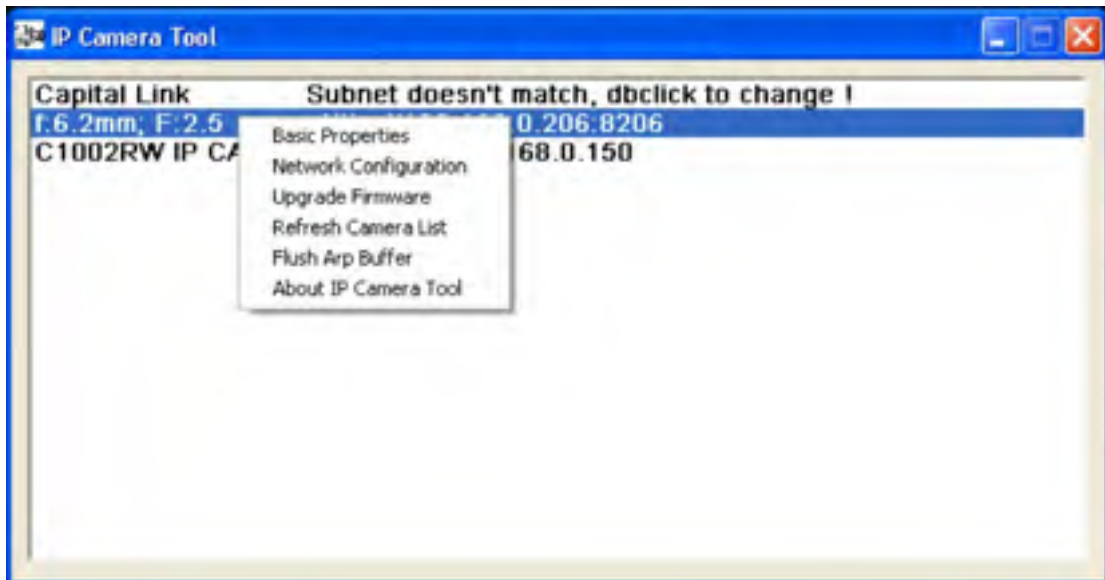
The camera will get IP from DHCP Server (Factory Setting).

Please use "IP Camera Tool" in Utility CD to search and link to cameras.

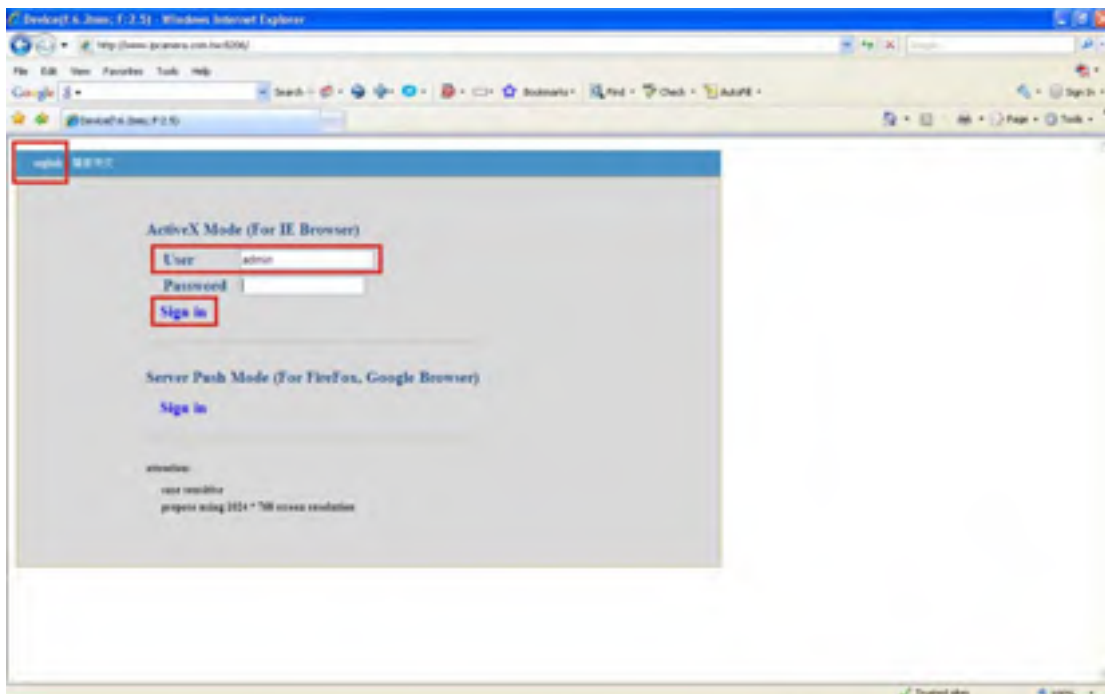


“Right Click” on the small icon in “System tray” (lower right of Taskbar) as indicated in above picture, Adjust the “IP Camera Tool” to “English” mode, If you can’t see text normally.

Select Camera then “Right Click” on selected camera:



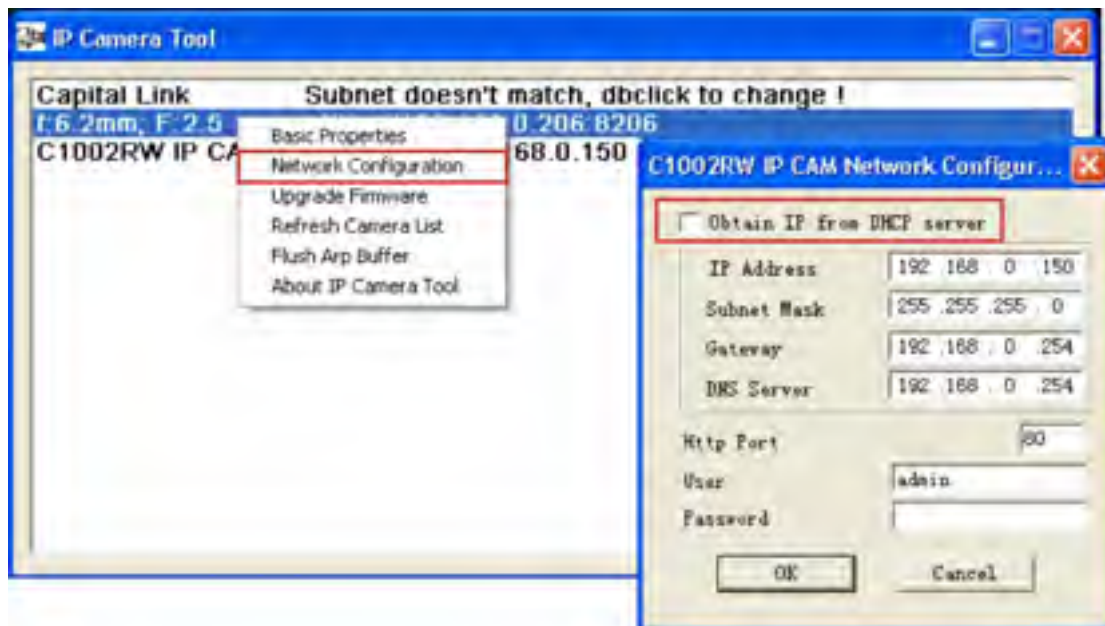
“IP Camera Tool” ” in Utility CD will find all the IP CAMERA IP cameras in your local network.



“Double Clicks” on the camera you want to connect, will bring up IE browser with camera login screen.

Note:

You can choose to modify the camera to fixed IP by Choosing “Network Configuration”

**Warning:**

Please consult your office network administrator to get a free IP for your IP Camera, duplicated IP address will cause undesired problems.

Normally you will not need to change the network settings automatically obtained from DHCP server.

Please don't check the “Obtain IP from DHCP server” in order to use fixed IP address and network settings.

There is no Password set by factory default, please leave the Password field blank as it is.

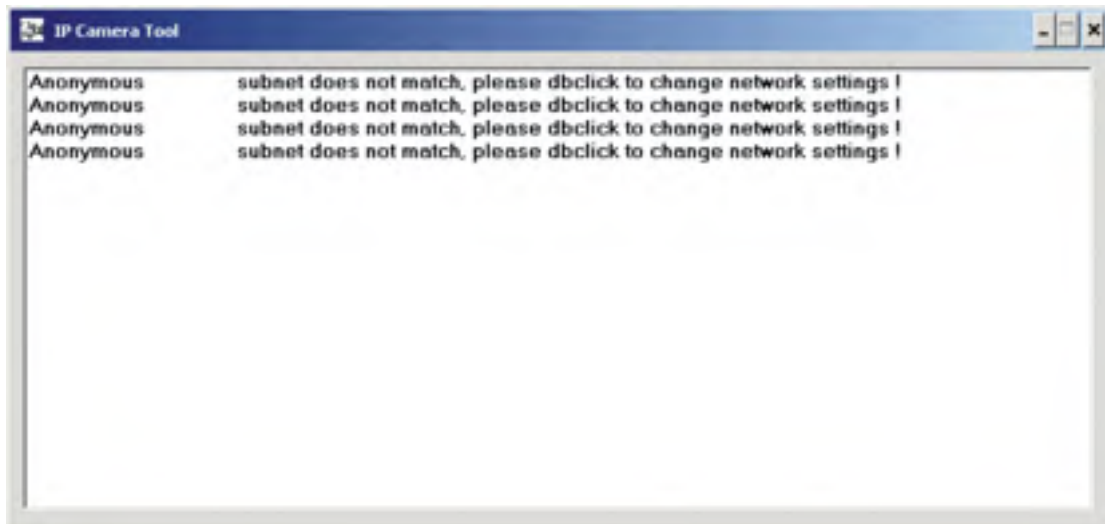
**CAUTION:**

Please always write down the password and keep password in safe place. Please kindly notice, if you forget password you set, you will have to return the camera to Vendor for recovery, there is no way to reset password of your camera.

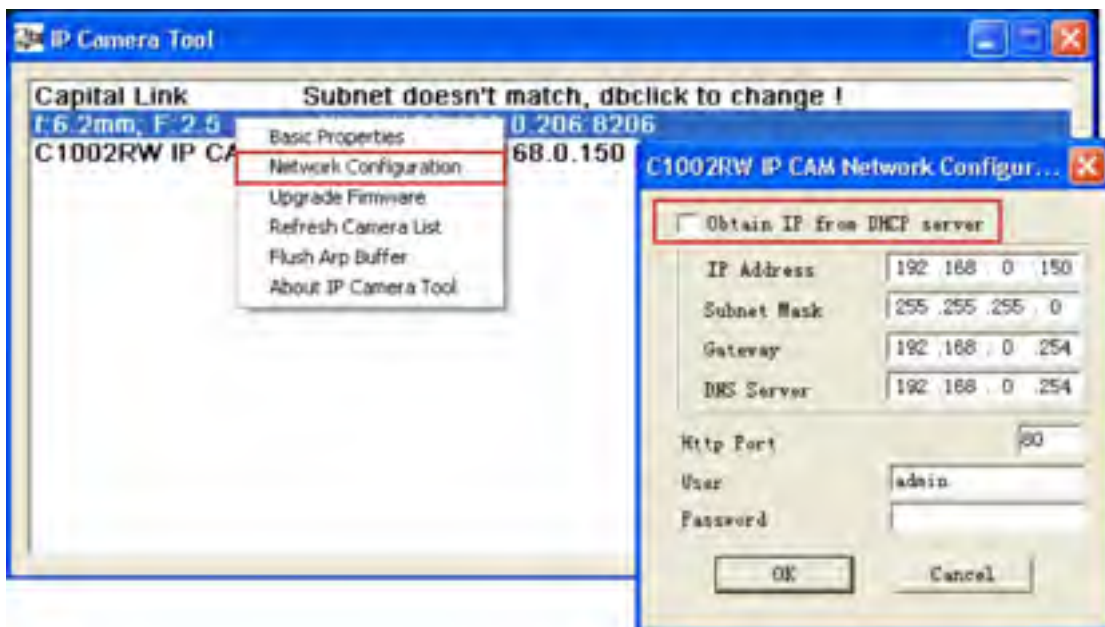
1-1-2 There is **not** DHCP Server in your LAN

The camera will not be able to get IP from DHCP Server (Factory Setting). **Please must set your PC IP address manually.** Your PC won't "Obtain an IP address automatically" without DHCP connected. "IP Camera Tool" **won't work on a PC without IP address.**

Please use "IP Camera Tool" in Utility CD to search and link to cameras.



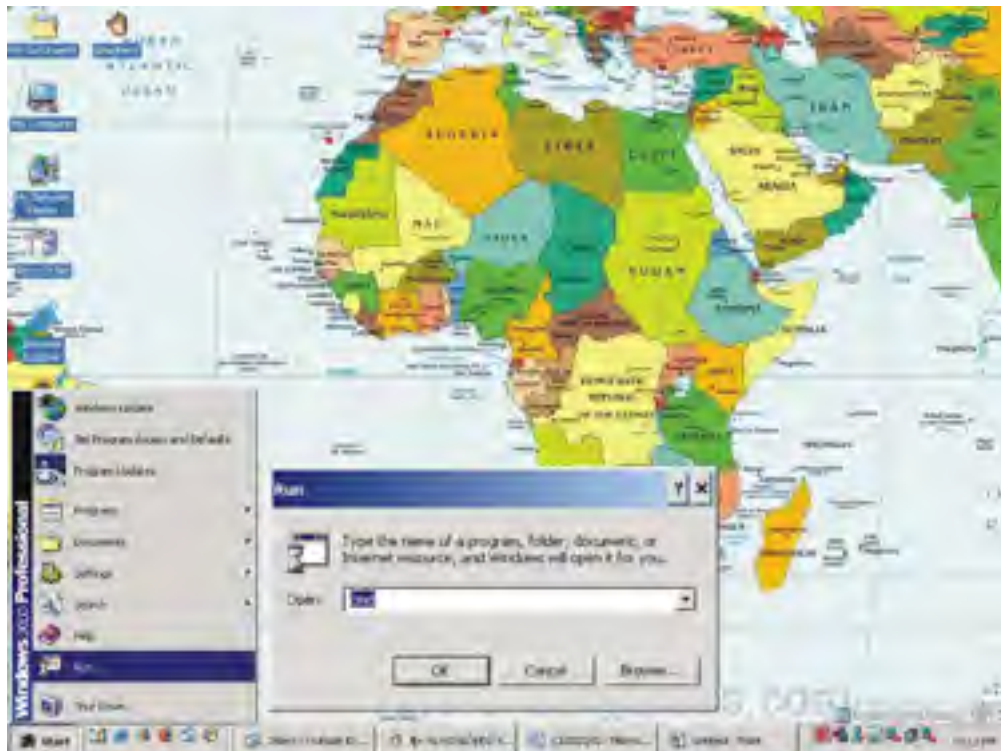
"IP Camera Tool" in Utility CD will find all the IP CAMERA IP cameras in your local network.



"subnet does not match, dbclick to change!" will shown to indicate you will not be able to link to your camera at this step. You must choose "Network Configuration" to set the camera to fixed IP. Please modify the "IP Address" to the same subnet of your computer.

Normally the IP should start with "192.168.xxx.xxx"

If you are not sure of your computer IP address, please go to DOS mode by :
 "START" => "RUN" => Open "CMD"



Type "ipconfig /all" at command prompt,



You will be able to find your computer network settings (IP address/ Subnet mask/ Gateway).



After input correct network settings, press "OK"

Follow the procedures described in 1-1-1 There is DHCP Server in your LAN. There is no Password set by factory default, please leave the Password field blank as it is.

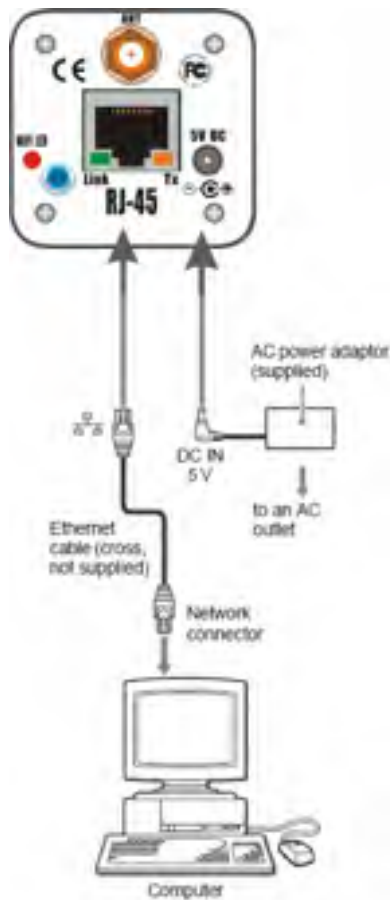
Note:

Your computer IP address must be **"in the same subnet"** of IP Camera in order to visit IP camera. So we need to set the IP address of the IP camera before accessing camera.

Setup the IP Camera IP address according to your PC IP address to ensure **computer & IP Camera IP addresses are "in the same subnet"**.

For example : Set **IP Camera IP addresses** to 192.168.0.150. **Default Gateway & Subnet Mask** same as PC.

1-2 Connect IP CAMERA to your computer directly



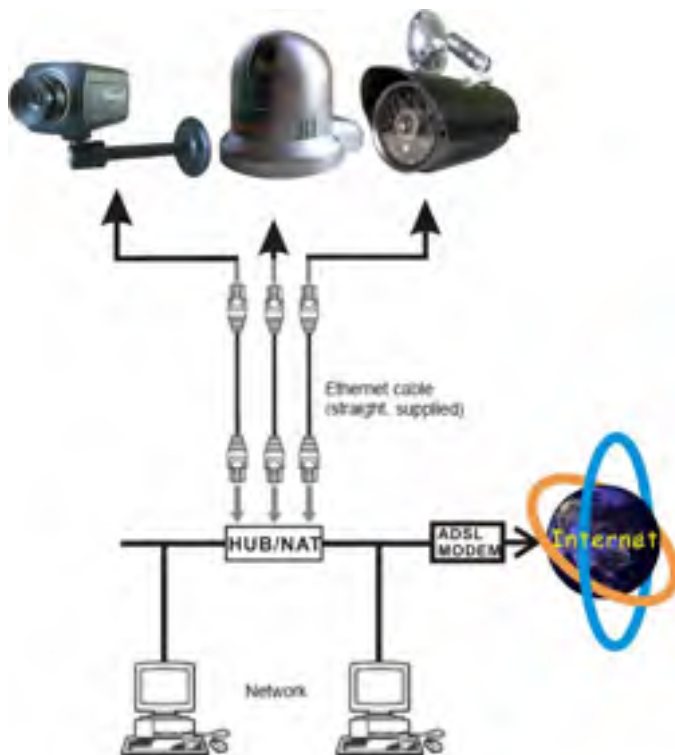
Because there is no DHCP Server available, you have to setup the network settings manually.

Please follow the procedures in previous sections (1-1-2) to link to your camera.

Note:

Please be aware of **"Your computer IP must be manually set first"**, Your PC won't "Obtain an IP address automatically" if connect camera to your PC directly. **"IP Camera Tool" won't work on a PC without IP address.**

1-3 Connect IP CAMERA to Internet



Connect IP Camera to your broadband router or NAT gateway.

Do the following setup:

1. Setup Virtual Server/ forward port on your router to camera,
2. or set router DMZ to your IP Camera IP,
3. Obtain DDNS service from DynDNS if you don't have fixed public IP,
4. Setup DDNS account information to your camera
5. Access camera URL through Internet.

Example:

http://your_camera.dyndns.org:port

Please reference more details of Router & DynDNS setup on Reference User's Manual.

Note:

1. The broadband router that connect Internet is similar to a "Security Guard" at the entrance of LAN (Local area network), who will protect you from un-authorized intrusions from outside (Internet), IP cameras located in LAN are well protected so that accesses from outside (Internet) are not possible to pass router "Guard". Remote viewer won't be able to access IP cameras behind router "Guard" from outside (Internet), unless you have gave **the correct "commands"**, letting router "Guard" to allow outsiders access the cameras in LAN.

The correct "commands" are so-called "Virtual Server" or "Port Forwarding" settings on various routers, please reference the routers user's manual to learn how to enable "Virtual Server" http port (default are: 80) on your router. ("Port Forwarding" = mapping WAN http port (default are: 80) to LAN IP address & ports)

We always suggest to use http port 80 or port > 1024 to avoid conflicts, port <1024 are frequently used by other applications.

2. Check if the DNS & Gateway settings are correct, it is impossible to get out of your LAN if wrong. (Gateway is the door, DNS is like "map", people won't go out home without knowing where the door is or don't have map to find the way)
3. Always test the DDNS service from another IP (that is outside of your LAN), some router will block WAN port access from LAN.
4. Check the network setting of IP CAMERA IP Camera, the gateway IP is your broadband router IP.
5. Check the network setting of IP CAMERA IP Camera, ask your ISP the DNS IP or get DNS IP from your broadband router IP.

2. Software Installation

2.1 Utility CD.

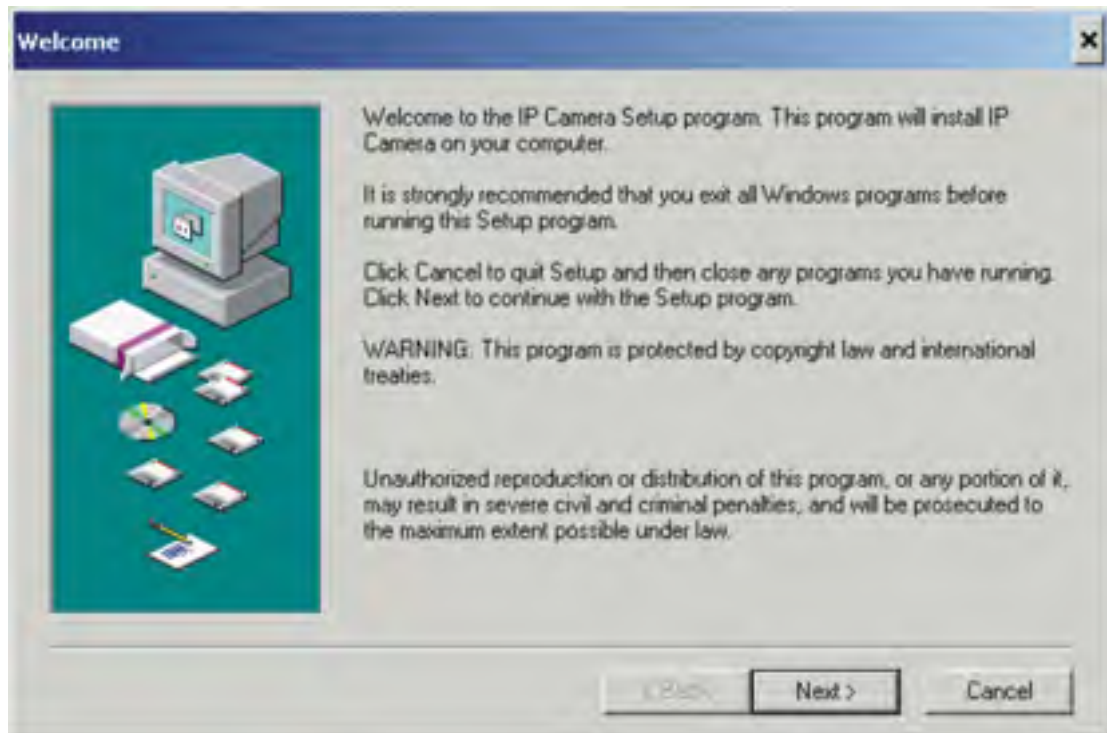
Please insert the “Utility CD” into your CD-ROM drive, auto-run program will start and below screen will guide you through installation.



To install software and ActiveX plug-in

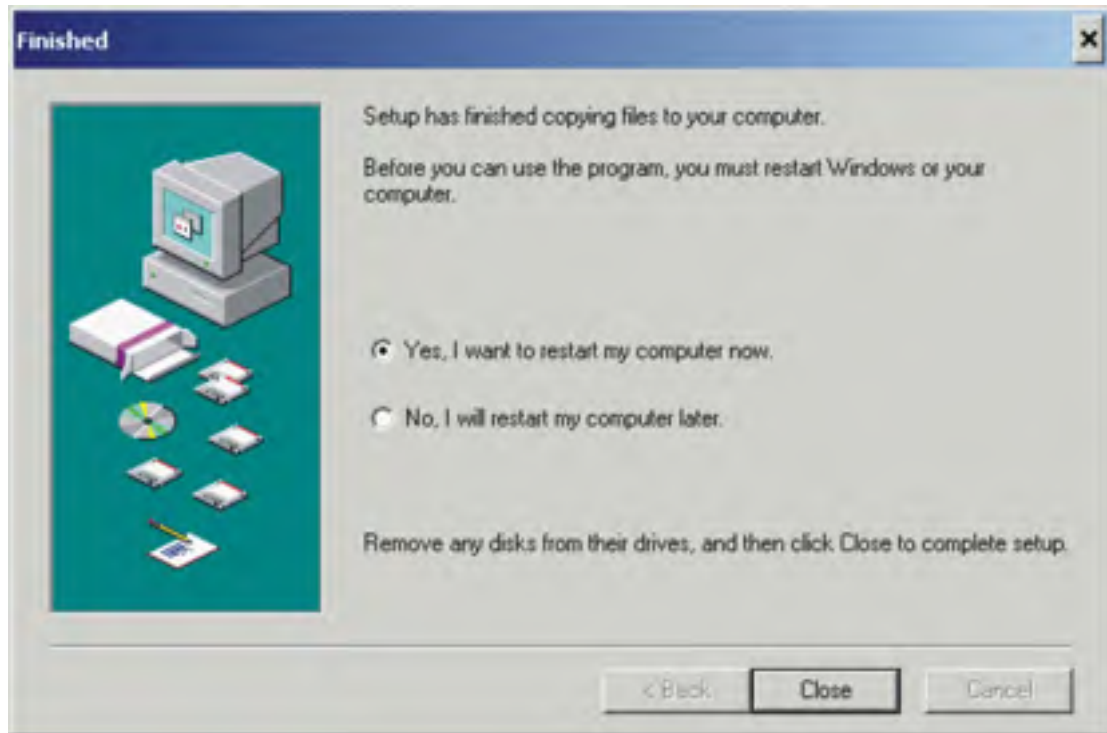
Please click on the “Install 1st” tab to install software and ActiveX plug-in.





Click on "Next",



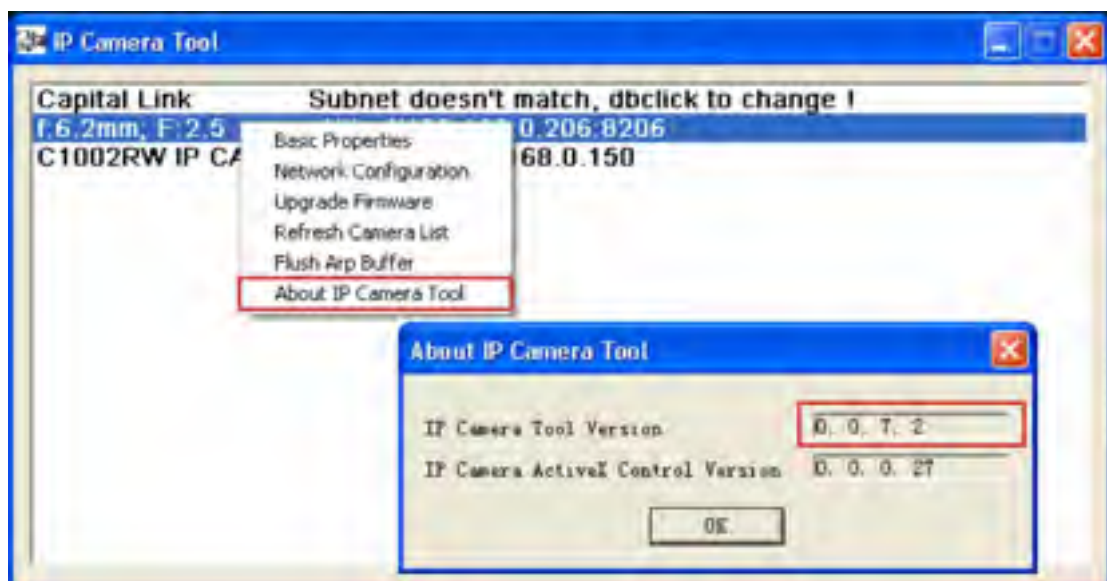


Click on “Close”,

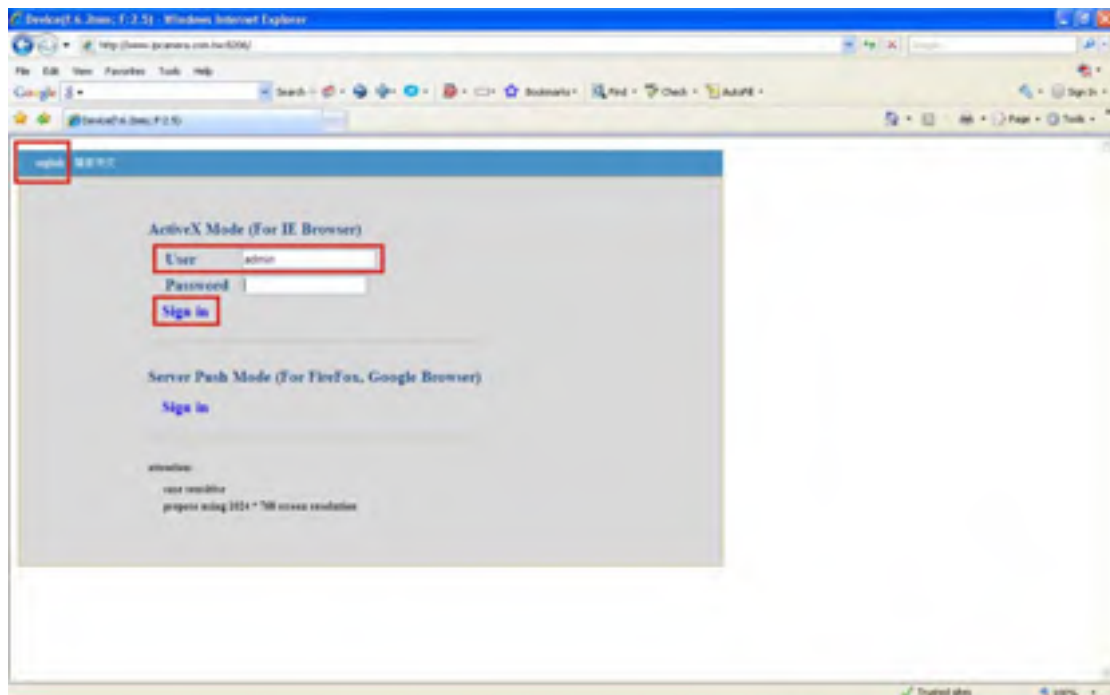


The IP Camera search utility software icon will display on your desktop.

Click on the “IP Camera Tool” tab to search IP CAMERA IP cameras in your local network.



2.2 Login & Access Camera video



“Double Clicks” or ”Right Click” on the camera you want to connect, choose “Access IP Camera” will bring up IE browser with camera login screen.

Type “[admin](#)” in User field, there is no [admin](#) Password set by factory default; please leave the Password field blank as it is. Click on “Sign in” tab
Note:

Please notice it’s lower case characters [admin](#), the User and Password are capital sensitive.

On the top left corner, select language (English or Chinese).

Note:

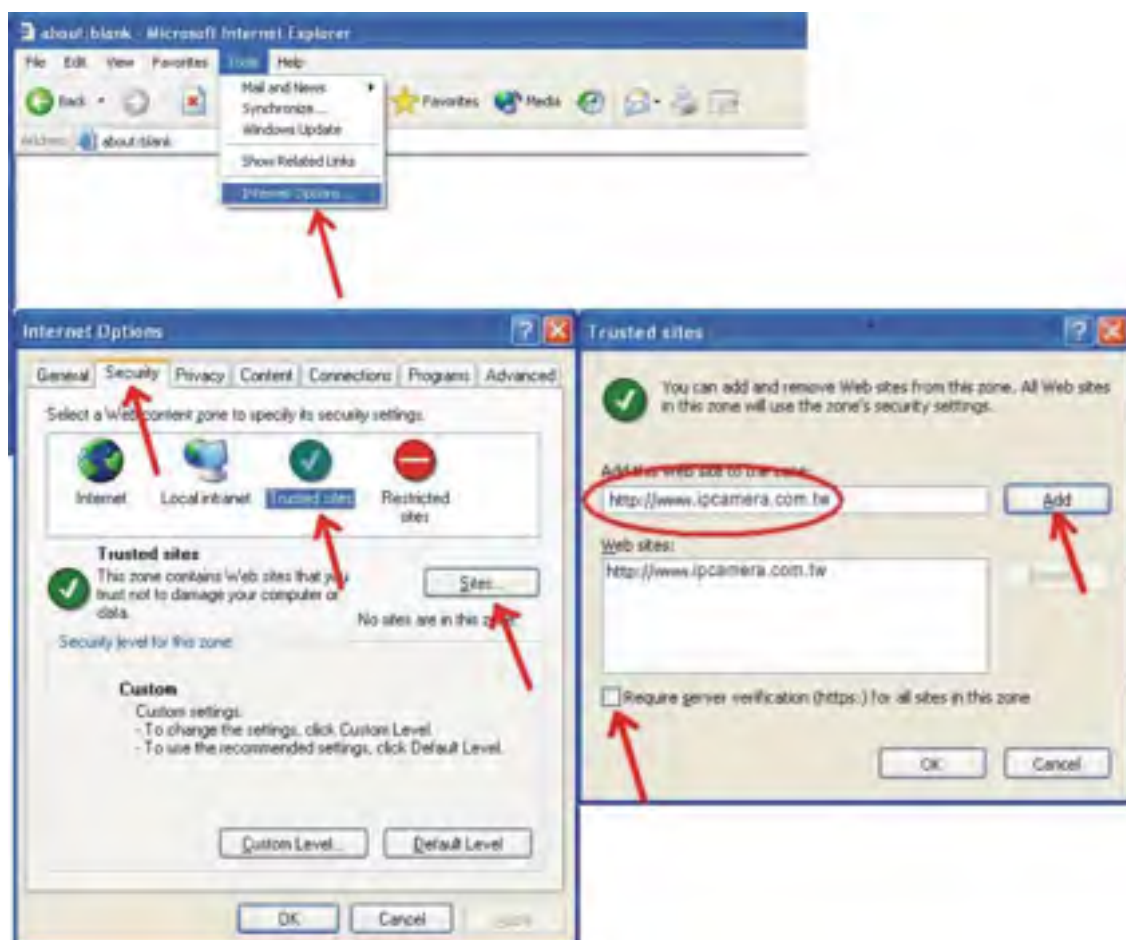
1. IP CAMERA IP camera will required a Microsoft Windows based PC with Media Player 7.0 or later installed.
2. If the video don’t start, please reference the “ActiveX_Security_Setup” section below
3. If you see only white screen and your camera is in outdoor or expose to strong light, please change the “Mode” to “Outdoor”.
4. If you see flickers on video and your camera is installed indoor, please change the “Mode” to “50Hz” or “60Hz” according to the electricity of your country.

2.3 ActiveX Security Setup

1. Install "IP Camera Tool", ActiveX controls (plug-in) required by IE browser is installed simultaneously (**click on the "Install 1st" tab on product CD pop-up Manu**).
2. Download ActiveX controls (plug-in) required, set the safety property of IE in the PC only **at the first time accessing new IP Camera**

In order to download & install ActiveX controls, you will need to add your camera IP/ url address to your IE browser "**Trusted sites**"

IE browser → "**Tool**" → "**Internet Options**" → "**Security**"

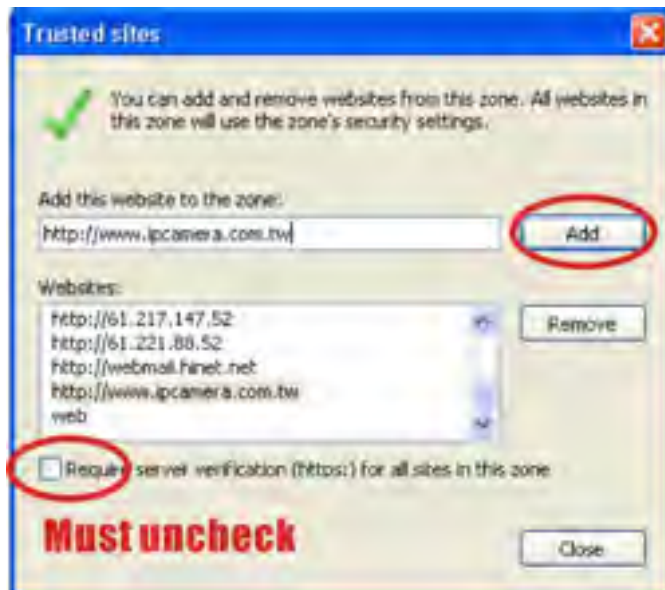


Remember to un-check the "**Require Server verification (https) for all sites in this zone**"

Type in IP address or URL to "**Add this website to the zone:**" field, click on "**Add**" button.

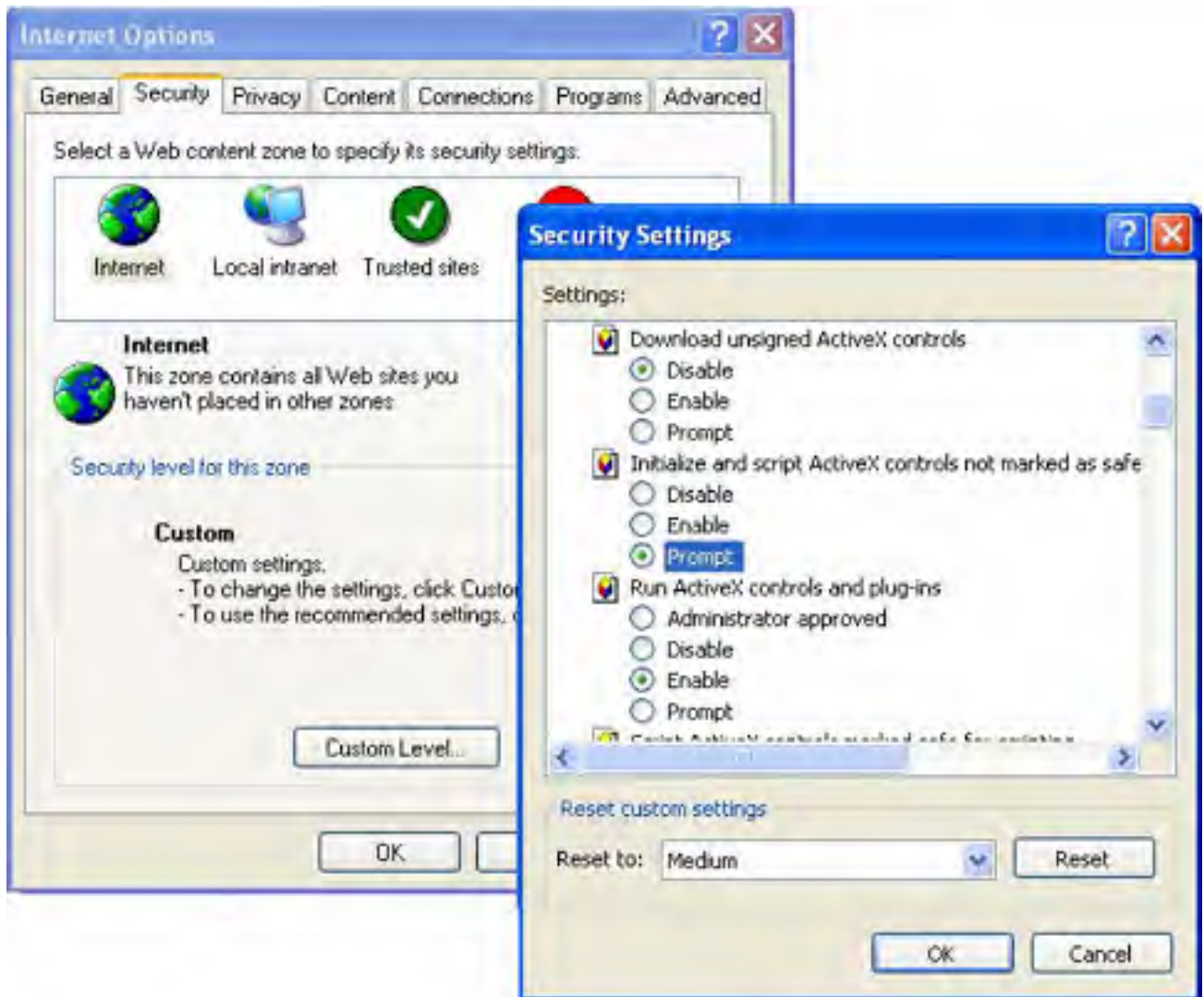
You can add you LAN subnet to your trusted sites by adding http://192.168.0.* if your LAN subnet is 192.168.0.xxx.

Remember to set the Security level of "**trusted sites**" to **Low**, Click "**Apply**" or "**OK**" to save



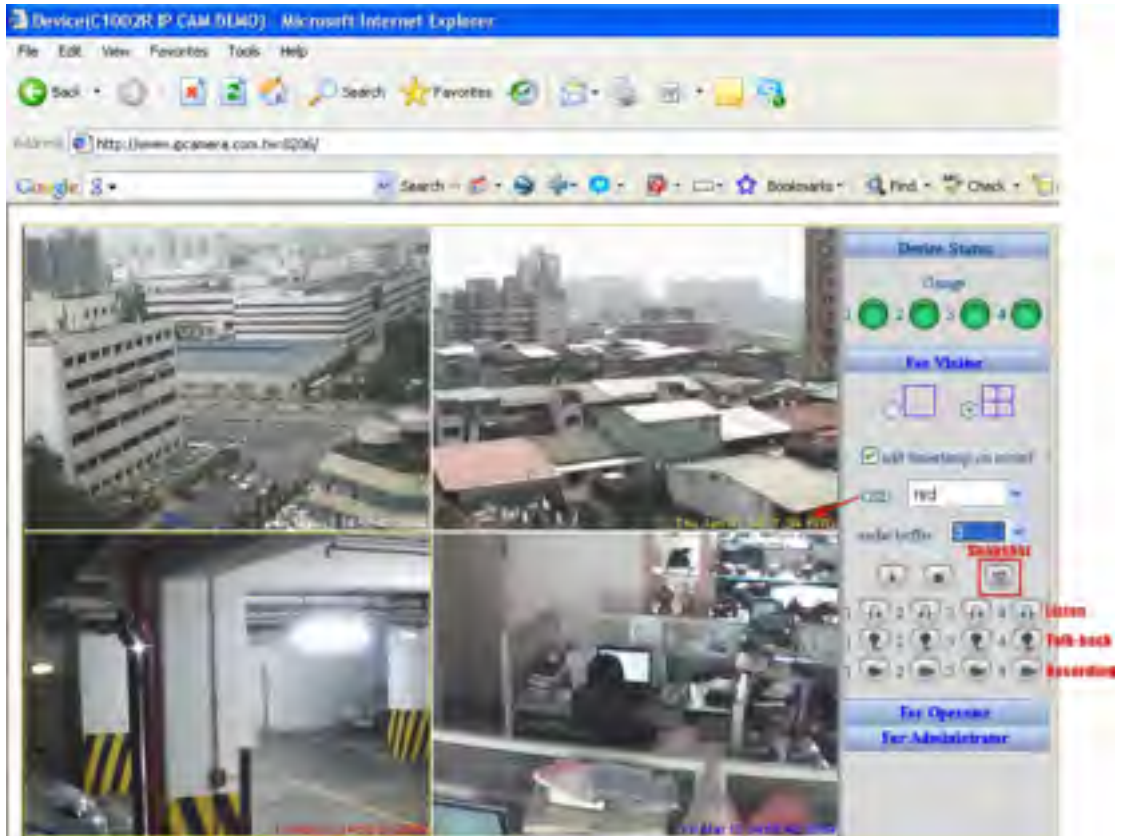
IE browser → "Tool" → "Internet Options" → "Security" → "Custom Level" → "ActiveX control and Plug-ins" three settings should set to "Enable",



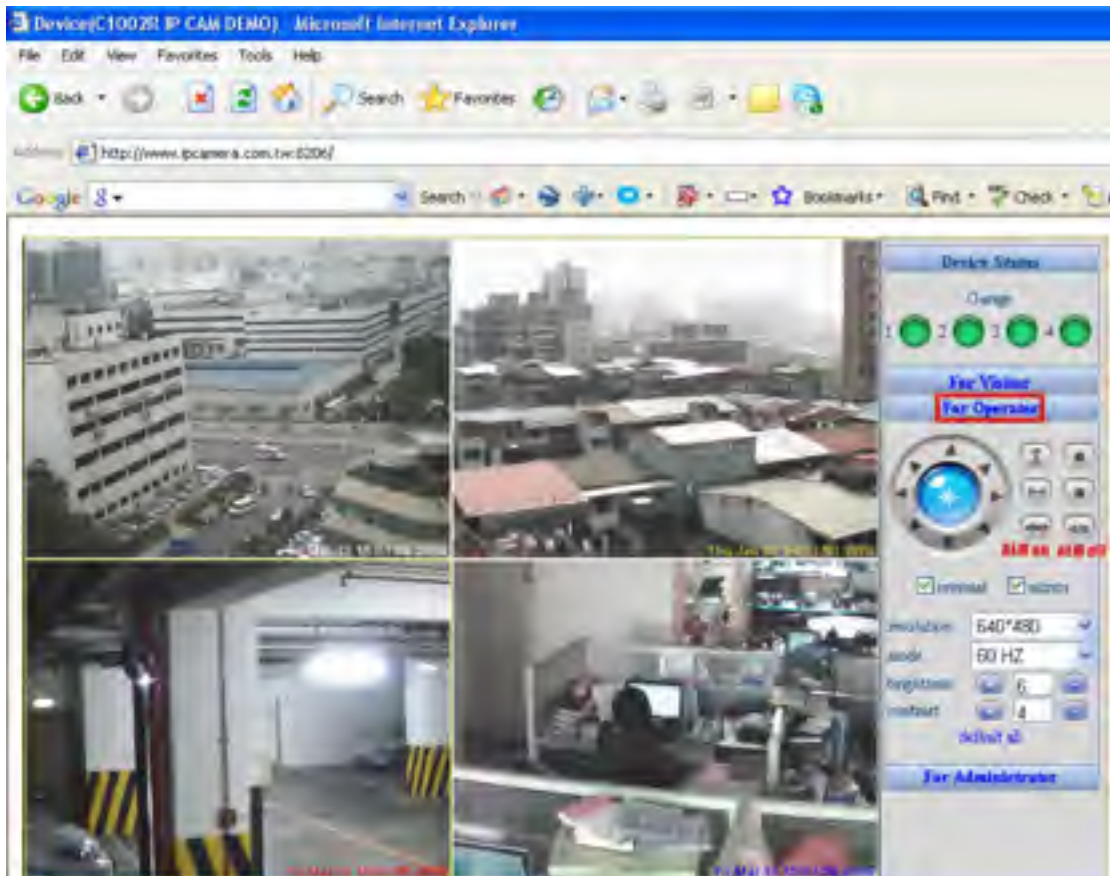


Enable:Download unsigned ActiveX controls
Enable:Initialize and script ActiveX controls not marked as safe
Enable:Run ActiveX controls and plu-ins

After installed CAMERA ActiveX controls, enable “**Run ActiveX controls and plu-ins**”, you can view camera video as followed:



Choose OSD to add time stamp; double click on video to view full screen
Enable duplex audio by clicking "Listen" & "Talk-back" buttons





reversal :used to upside down the image for ceiling mount.



Mirror : used to mirror image for ceiling mount.



the



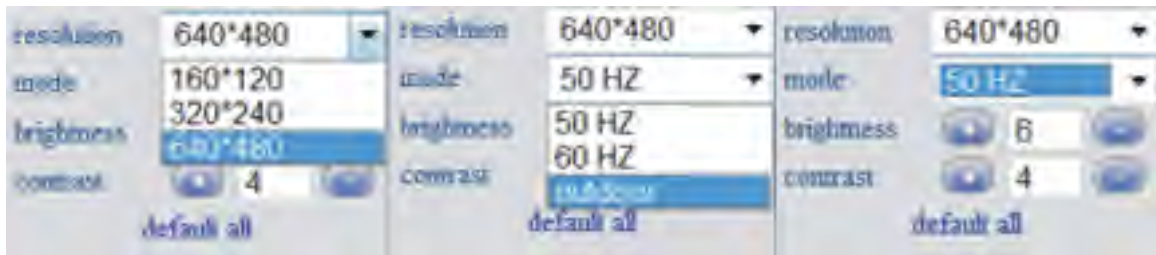
PAN/ TILT control



Tilt Scan & stop: For C1062 model A

PAN Scan & stop: For C1062 model A & B

Description of Monitoring Page



Resolution : 160x120 (QQVGA)/ 320x240 (QVGA)/ 640x480(VGA)

Working environment: indoor (50Hz/ 60Hz) / outdoor (brighter)

Brightness: 6

Contrast: 4

Note:

Adjust 50/60Hz according to frequency of fluorescent tube to avoid flickering



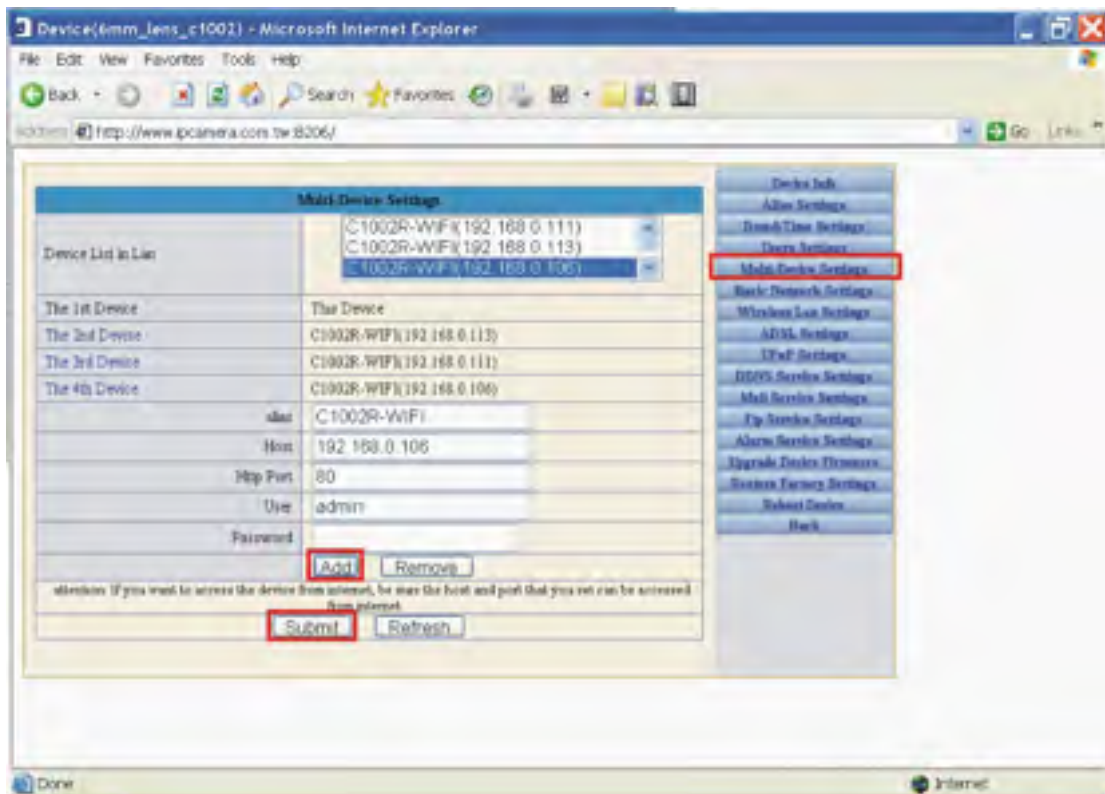
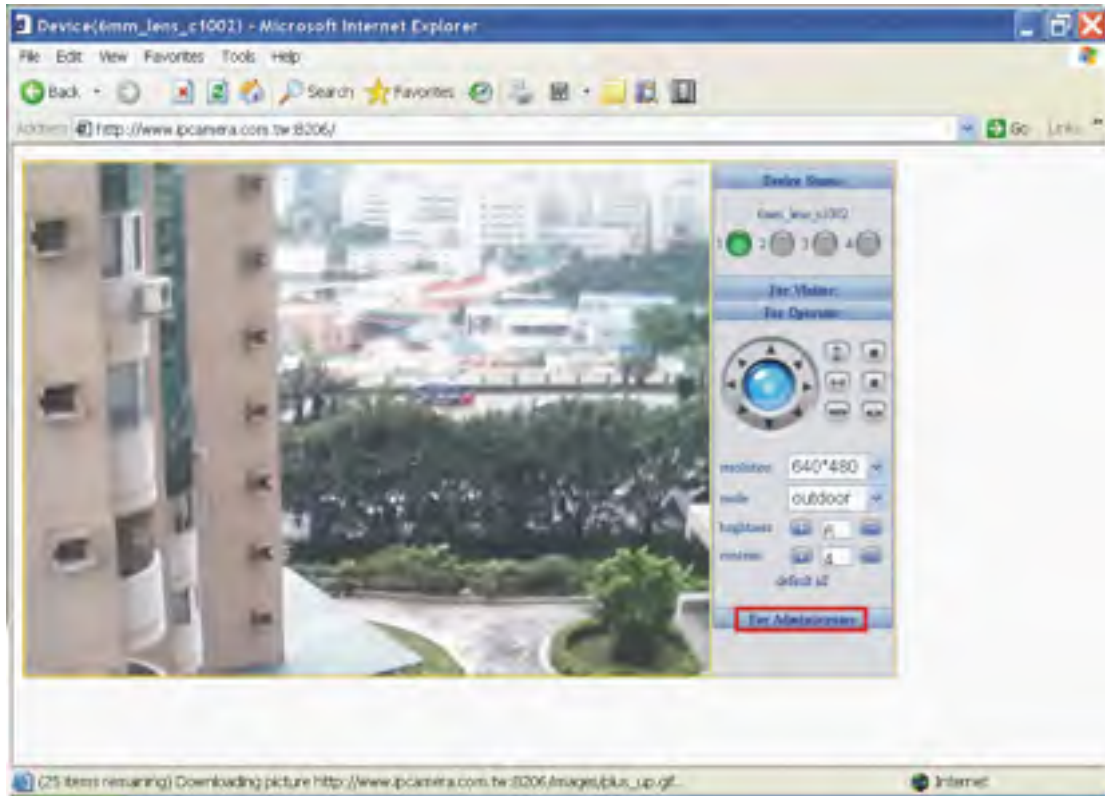
  : Start/Stop video

 : "Snapshot"

 : See only current window

 : See 4 IP cameras video in four windows

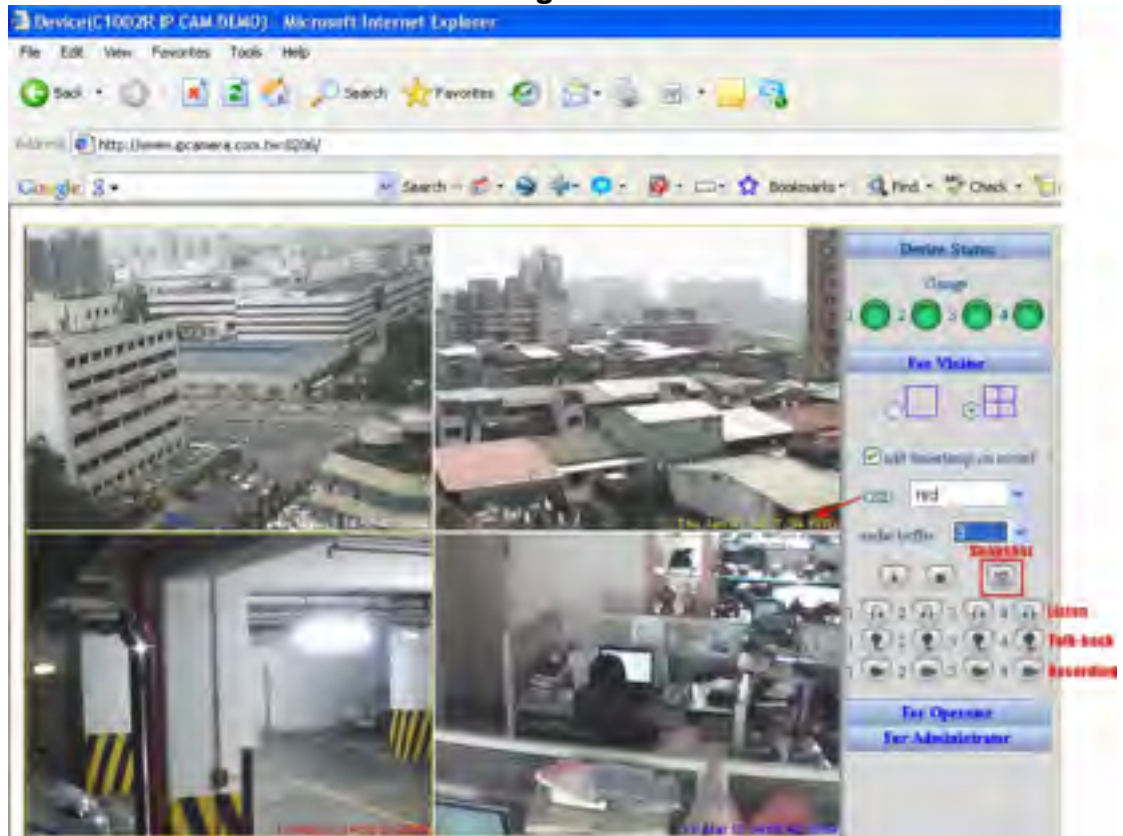
To view four cameras simultaneously, go to Administrator setup page, Select "[Multi-Device Setting](#)", as illustrated as followed.



Note:

If you will access from remote through Internet, please input URL (Domain name) in Host field. LAN IP won't be accessible through Internet

Click on channels to start recording:



To take snapshot of present scene on screen, click on the "snapshot" button:



2.3 Administrator setup page Page

2.3.1 Device Info

Device Info	
Device ID	00061DE55111 ← Mac Address
Device Firmware Version	0.2.1.33
Device Embedded Web UI Version	0.4.1.28 ← Available after Feb. 2009

Indicates Camera ID & Firmware version.

Device Firmware Version x.x.x.17 or later will support below http command:

Snapshot:

http://IP_CAMERA_IP_Address:port/snapshot.cgi?user=admin&pwd=

Server Push video:

http://IP_CAMERA_IP_Address:port/videostream.cgi?user=admin&pwd=

To play on MPlayer, VLC media player, Coreplayer (Smart Phones)

[http:// IP_CAMERA_IP_Address:port /videostream.asf?user=admin&pwd=](http://IP_CAMERA_IP_Address:port /videostream.asf?user=admin&pwd=)

Username: **admin**

Password:

Type the snapshot http commands to IE browser address field, you will get real time snapshot immediately, press F5 key (refresh) will update the new snapshot. Type the snapshot http commands to Firefox/ Mozilla browser address field, type "Enter" & "F5" keys to start live video stream immediately.

Note:

IE browser doesn't support Server Push http command.

2.3.2 Alias Settings

Alias Settings	
alias	<input type="text" value="6mm lens"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Camera Alias : Input the camera name for you to recognize.

2.3.3 Date & Time Settings

Date & Time Settings	
Device Clock Time	Wednesday, December 19, 2007 9:50:10 PM
Device Clock Timezone	(GMT) Greenwich mean time; London, Lisbon, Dublin
Sync with NTP Server	<input checked="" type="checkbox"/>
Ntp Server	time.nist.gov
Sync with PC Time	<input type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Camera will synchronize with Internet Server every hour automatically.

2.3.4 Users Settings

Users Settings			
User	Password	Group	
admin		Administrator	
Clairvoyant	*****	Administrator	
user	****	Operator	
guest		Visitor	
		Visitor	
		Visitor	
		Visitor	
		Visitor	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>			

Administrator: Can change settings

Operator: Can select Resolution, Indoor/ Outdoor, PTZ (PTZ model only)

Visitor: Can only view.



CAUTION:

Please always write down the password and keep password in safe place. Please kindly notice, if you forget password you set, you will have to return the camera to Vendor for recovery, there is no way to reset password of your camera.

2.3.5 Multi-Device Settings

Add 3 more cameras from [“Device List In LAN”](#)

Multi-Device Settings	
Device List in Lan	<div style="border: 1px solid black; padding: 2px;"> C1002R-WIFI(192.168.0.111) C1002R-WIFI(192.168.0.113) C1002R-WIFI(192.168.0.106) </div>
The 1st Device	This Device
The 2nd Device	C1002R-WIFI(192.168.0.113)
The 3rd Device	C1002R-WIFI(192.168.0.111)
The 4th Device	C1002R-WIFI(192.168.0.106)
alias	C1002R-WIFI
Host	192.168.0.106
Http Port	80
User	admin
Password	
	<input type="button" value="Add"/> <input type="button" value="Remove"/>
attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.	
	<input type="button" value="Submit"/> <input type="button" value="Refresh"/>

Note:

Please use URL in Host if you will access from Internet. LAN IP address will not be accessible from Internet.

Multi-Device Settings	
Device List in Lan	
The 1st Device	This Device
The 2nd Device	C1002(www.ipcamera.com.tw)
alias	C1002
Host	www.ipcamera.com.tw
Http Port	8206
User	admin
Password	
	<input type="button" value="Add"/> <input type="button" value="Remove"/>
The 3rd Device	None
The 4th Device	None
attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.	
	<input type="button" value="Submit"/> <input type="button" value="Refresh"/>

2.3.6 Basic Networking Settings

Basic Network Settings	
Obtain IP from DHCP Server	<input type="checkbox"/>
IP Addr	192.168.0.206
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
DNS Server	202.96.134.133
Http Port	8206
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Factory default the “Using DHCP” is chosen, the IP Camera will try to get IP address automatically from DHCP SERVER of your network.

You can also configure the IP address manually.

IP: enter the IP address assigned.

Mask: Enter the subnet mask. The default is 255.255.0.0

Gateway: Enter IP gateway, normally is your broadband router IP address.

DNS: Enter DNS IP address provided by your ISP (Internet service provider). **Http**

Port: Enter the input port number, default as 80.

If IP camera connects with ADSL directly chose Using ADSL Dialup, enter ADSL dialup user and password

Note:

After “Submit” new network settings, camera will reboot to adopt new settings automatically.

2.3.7 Wireless LAN Settings (2.4GHz Wi-Fi AP required)

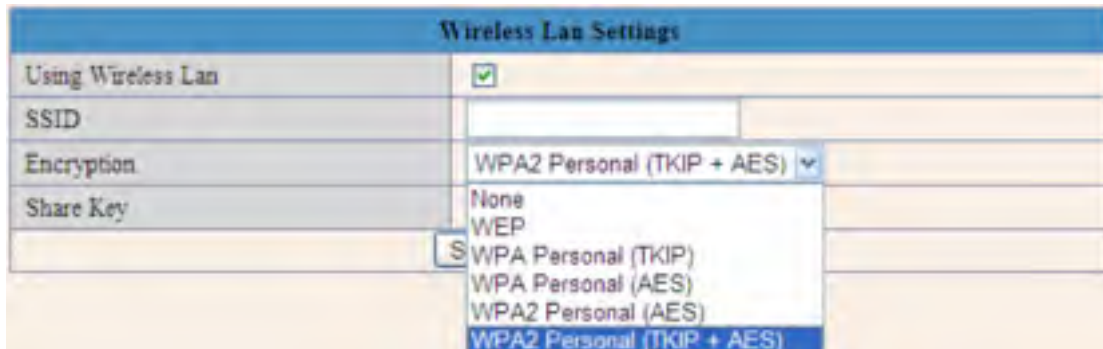
Wireless Lan Settings		
Using Wireless Lan	<input checked="" type="checkbox"/>	
SSID	MWR	
Channel	1	
Encryption	WEP	
Authetication	Open System	
Key Format	ASCII Character	
Default TX Key	1	
Key 1	Clairvoyan	128 bits
Key 2	Clair	64 bits
Key 3		64 bits
Key 4		64 bits
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>		

Using Wi-Fi Lan: Only for wireless IP Camera, you must set correct **SSID** and **WEP**

Key (IF your Wi-Fi AP enables WEP encryption)

Set correct **SSID** and **WEP Key** according to your Wi-Fi AP.

If your Wi-Fi AP enables **WEP, WPA, WPA2** encryption (64 bits/ 128 bits), input **WEP key** in **HEX or ASCII** format.



Channel will be set automatically according to AP, no need to set manually.

Note:

Please try wireless without encryption first, must set the AP SSID correctly. IP CAMERA will find AP by SSID assigned. Please notice the SSID is capital sensitive, must be correct uppercase or lowercase.

IP CAMERA is 2.4GHz Wi-Fi client, will link to Access Point (AP) of your network. Optional Higher gain directional antenna can be used to extend the wireless link distance.

1. IP CAMERA is 2.4GHz **802.11g** wireless client, please don't use 5GHz AP.
 2. Please must power on without Ethernet cable connected, or the wireless won't be effective. If power on with RJ-45 connected, IP CAMERA will connect to network by wire. Wired connection always has higher priority than wireless. Please follow the below rules will help establish wireless link easier.

1. Set correct wireless settings with wired connection first, It's better to use fixed IP address instead of DHCP (dynamic IP).
2. Un-plug **Power** and **Ethernet cable** after setting the wireless parameters.
3. Power on the IP CAMERA (be sure without the wired ethernet connected)
4. Go to command mode (C:\), use "**ARP -d**" to clear **arp table**
5. Access the **same IP address** (wired IP address) to connect IP CAMERA wirelessly.
6. If you will us multiple Clairvoyant Wi-Fi IP Cameras, please **set your 802.11g/b AP to g only mode to get best performance.**

Note:

IP CAMERA will have only one IP address, the wireless IP address should remain the same as wired IP address.

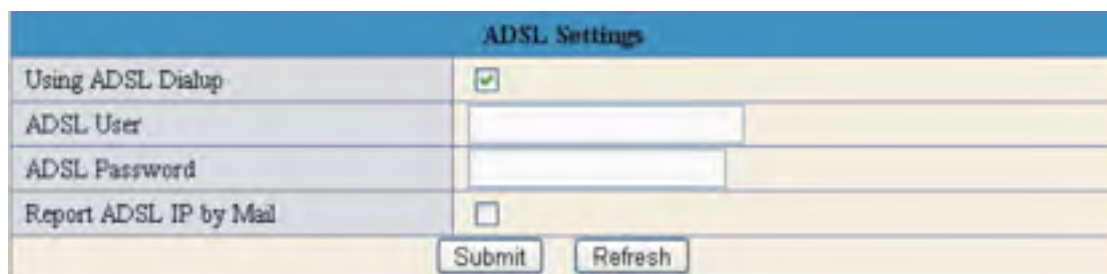
Because the physical MAC address of wireless interface is different from wired interface MAC, there will be conflicts in ARP table that remember the old **wired MAC** bundled with the **IP address** now used by new **wireless MAC**, which will cause trouble to establish new wireless link, it will take longer time to establish wireless link (as long as **3~10 minutes** after **arp table** auto refresh).

Please use **ARP -d** to clear the old data in arp table will help create wireless link

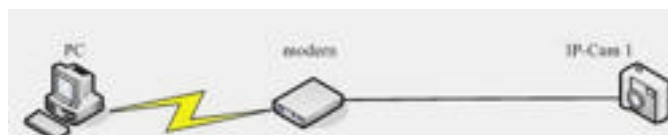
faster.



2.3.8 ADSL Settings



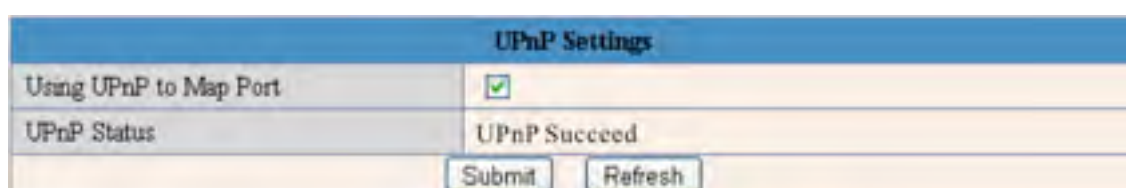
Connect camera LAN port directly to ADSL modem.



Please request User account and Password from your ADSL service provider.

If the IP is not fixed (dynamic), Click "[Report ADSL IP by Mail](#)" will result email notification every time the ADSL IP is changed.

2.3.9 UPnP Settings



Camera will map port to router automatically, if your router UPnP enabled

Please make sure the state is "**UPnP succeed**".

2.3.10 DDNS Service Setting

DDNS Service Settings	
DDNS Service	DynDns.org(dyndns) ▾
DDNS User	C1002
DDNS Password	••••••••
DDNS Host	clairvoyant.mine.nu
DDNS Status	Update successfully
Re-Update Ignoring All Errors	<input type="checkbox"/> never do this unless your hostname has been unblocked
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

DDNS Setting: IP CAMERA IP camera supports protocols from three DDNS providers:

1. Oray.net
2. Dyndns.org
3. 3322.org

Domain Name: the second-level name you apply for and acquire at Oray.net, Dyndns.org, or 3322.org please read more details in **“Reference User's manual”**

User and Password: the user name and password when applying for the DDNS service.

DDNS Status:

1. **“No Action”** no DDNS settings set, no action taken.
2. **“Errors in network Communication”:** can't access DDNS server due to Network errors (blocked by ISP) or wrong DNS, Gateway settings.
3. **“Update successfully”** : Successfully updated the DDNS server database.

2.3.11 Mail Service Settings

Mail Service Settings	
Sender	lucy@mwr.com.tw
Receiver 1	mwr.tw@msa.hinet.net
Receiver 2	mr.william@msa.hinet.net
Receiver 3	sales@mwr.com.tw
Receiver 4	william@realtron.com.tw
SMTP Server	218.106.248.119
SMTP Port	25
Need Authentication	<input checked="" type="checkbox"/>
SMTP User	lucy@mwr.com.tw
SMTP Password	*****
	<input type="button" value="Test"/> Please set at first, and then test.
Report Internet IP by Mail	<input checked="" type="checkbox"/>
	<input type="button" value="Submit"/> <input type="button" value="Refresh"/>

The screenshot shows a web browser window with the address bar displaying 'http://192.168.0.206:8206/test_mail.htm'. The browser interface includes a menu bar (File, Edit, View, Favorites, Tools, Help) and a search bar. At the bottom of the browser window, a status bar displays 'Test Succeed'.

Users can assign the e-mail boxes to receive and send mails.

The email box is used for receiving the snapshots sent after alarm, report the public wan IP address after successful PPPoE dial-up.

Note:

Only **Alarm Service Settings** —> **Send Mail on Alarm** is enabled, the Mail Service will be effective.

Sender is the **full email address** that match with the SMTP authentication, if wrong address input, emails won't send.

Remember to input your **SMTP account and password** if **your SMTP server** requires authentication.

Please ask your ISP for **SMTP account and password**, or seek help from **MIS department of your company**.

Make sure the **DNS Server** and **Gateway** settings are correct if you don't choose **DHCP** and setup "Networking Settings" manually.

Please check the time stamp in email Subject, looks like "00051DE85111(SZ Office) motion alarm at **20090304175647**" means alarm triggered at **2009/03/04 17:56:47 GMT time**, from camera S/N: 00051DE85111; Alias: SZ Office

2.3.12 FTP Service Settings

The “FTP Upload Folder” must be created before successful files upload. Make sure the folder is created by the same username (ex. ww) in advance, **If created by root or admin (super user), ww may not have the privilege to save files in that folder.** Remember not to add “/” before FTP Upload Folder name

Don't upload if “Upload Interval” is zero.

The screenshot shows the 'Ftp Service Settings' configuration page. The settings are as follows:

Ftp Service Settings	
FTP Server	ftp clairvoyant.com.tw
FTP Port	21
FTP User	ww
FTP Password	••••
FTP Upload Folder	C1002R
FTP Mode	PORT ▾
	2nd Test <small>Please set at first, and then test</small>
Upload Image Now	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	60
Specify Filename (exclude .jpg)	<input checked="" type="checkbox"/> Clairvoyant
Specify the Max Number of Files	<input checked="" type="checkbox"/> 60
	Submit Refresh

Additional information on the right side of the screenshot:

- 1st Upload snapshots every minute
- Snapshot filename: Clairvoyant_1.jpg, Clairvoyant_2.jpg, ..., Clairvoyant_11.jpg, ..., Clairvoyant_59.jpg, Clairvoyant_60.jpg

The bottom part of the screenshot shows a browser window titled 'Device(Clairvoyant1002R) - Windows Internet Explorer' with the address bar showing 'http://www.ipcamera...'. The browser content displays 'Test ... Succeed', with a red arrow pointing from the 'Test' button in the settings page to this message.

The default filename uploaded to FTP will include the time stamp each snapshot being taken.

If specified “filename” & “Max. no. of files” given, after “Max. no. of files” have been uploaded to FTP server, will continuously overwrite new images with existing filenames. (Example: Clairvoyant_1.jpg, Clairvoyant_2.jpg, Clairvoyant_11.jpg, .. Clairvoyant_59.jpg, Clairvoyant_60.jpg)

FTP Mode: support active (PORT) mode and passive (PASV) mode.

Note:

Must make sure the gateway, DNS information in “Basic Network Settings” are correct, or FTP upload won't work.

If FTP server is behind NAT/ firewall, or without static IP, PASV mode should be selected.

2.3.13 Alarm Service Settings

Alarm Service Settings	
Motion Detect Armed	<input checked="" type="checkbox"/>
Motion Detect Sensibility	1 1 lowest; 10 highest
Alarm Input Armed	<input checked="" type="checkbox"/> ← Enable external alarm detector
Triger Level	Low Low = NO High = NC
IO Linkage on Alarm	<input checked="" type="checkbox"/> ← Enable external alarm output
Output Level	High Low = NO High = NC
Send Alarm Notification by Mail	<input type="checkbox"/> ← Mail Service Settings first
Send Alarm Notification by Http	<input checked="" type="checkbox"/> ← Report to alarm host url
Http URL	http://alm.nvr.com.tw Alarm host url
Upload Image on Alarm	<input type="checkbox"/> ← FTP Service Setting first
Scheduler	<input checked="" type="checkbox"/>
Day	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sun	
Mon	
Tue	
Wed	
Thu	
Fri	
Sat	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Note:

IO Linkage will trigger alarm output.

Single click to select by quarter of an hour . Double clicks to select by hour.

Stand alone alarming means camera will detect alarm, result alarm actions by camera's own CPU & firmware, not require help from other device (PC)

Motion Detect Armed if enable, movement will result alarm actions

Triger Level High means NC, normal close; state change to NO will result alarm actions

Output Level Low means NO, normal open; will change state to NC at alarm detected

Motion Detect Armed: Motion object will trigger alarm, FTP upload to server will start to send snapshots for one minute, alarm emails will attach 5 snapshots.

IF IE browser windows is active, 1 minute avi recording will be stored in **C:\Documents and Settings\All Users\Documents** automatically

Alarm Input Armed: When the alarm in pins from "NC" to "NO" will trigger alarm.

Send Mail on Alarm : Sent alarm email to assigned email box which includes 5 snapshot pictures (one picture per second)

Upload Image on Alarm : Upload snapshot pictures to pre-assigned FTP server folder.

Upload Interval : Upload snapshot pictures periodically, "0" means no action.

Scheduler : Alarming schedule, will enable alarm only at defined time frames,

2.3.14 PTZ & Decoder Settings (Only for C1062)

Decoder Settings	
Baudrate	4800 ▼
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	
PTZ Settings	
Go center on boot	<input checked="" type="checkbox"/>
PT speed	0 ▼
Upward patrol speed	0 ▼
Downward patrol speed	0 ▼
Leftward patrol speed	0 ▼
Rightward patrol speed	0 ▼
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

There are two version of C1062,

Device Firmware Version : 0.12.x.xx; or Device Firmware Version : 0.16.x.xx;
 supports Pelco protocol; baud rate 4800

Device Firmware Version : 0.23.x.xx; supports PT speed control & “Go center” on boot or remain still on boot (remain last position when power off).

Adjust Leftward & Rightward patrol speed, 0 is fastest, 10 is slowest

2.3.15 Upgrade Device Firmware

Upgrade Device Firmware
<input type="button" value="Upgrade Device Firmware"/>
<input type="button" value="Upgrade Device Embedded Web UI"/>



WARNING:

ONLY FOR CERTIFIED TECHNICAL ENGINEERS

Get correct firmware from authorized dealer, wrong version of firmware will damage your camera permanently.

Appendix

A. IP CAMERA Rear Panel



- LAN:** RJ-45/10-100 Base T
- ANT:** For Wi-Fi wireless RSMA (optional)
- DC5V:** 5V/1A Power supply (indoor, Wi-Fi)
- RLYout:** Relay output (NO/NC)
- ALMin:** Alarm input (NO/NC)
- AUDIO out:** Audio output
- MIC.:** Built-in indoor models



B. IP CAMERA (outdoor) Tail Wire



- RESET:** Restore factory default in case of forgetting password.
- ALARM IN:** Connect to Sensor/ Detector, Normal Open, will trigger alarm when Short circuit (closed)
- DC5V:** 5V/1A Power supply (outdoor, IR, Wi-Fi)
- ALARM OUT:** NO; 1A 24VDC/ 0.5A 125VAC, require external relay box (optional) for higher power alarming devices.

Audio in: -48 dB microphone, or amplified microphone.

Audio Out: 8Ω 1W speaker



There is **RCA male plug** on tail wire, connect it to **RCA female connector** of "amplified microphone".

We provided a splitter wires with one power connector and two power plugs that

can split power from DC 5V power adapter to supply DC 5V power to camera and the microphone, DC 5V power can amplify the microphone to pick up sound good enough, if you want to have the best sensitivity (pick up lesser intensity sound), please plug the DC 5V power directly to camera, the splitter wires is not required, find an extra DC 12V power adapter to amplify the microphone, directly plug the extra DC 12V power to microphone.

ALARM IN

Connect sensors that support on/off states change.



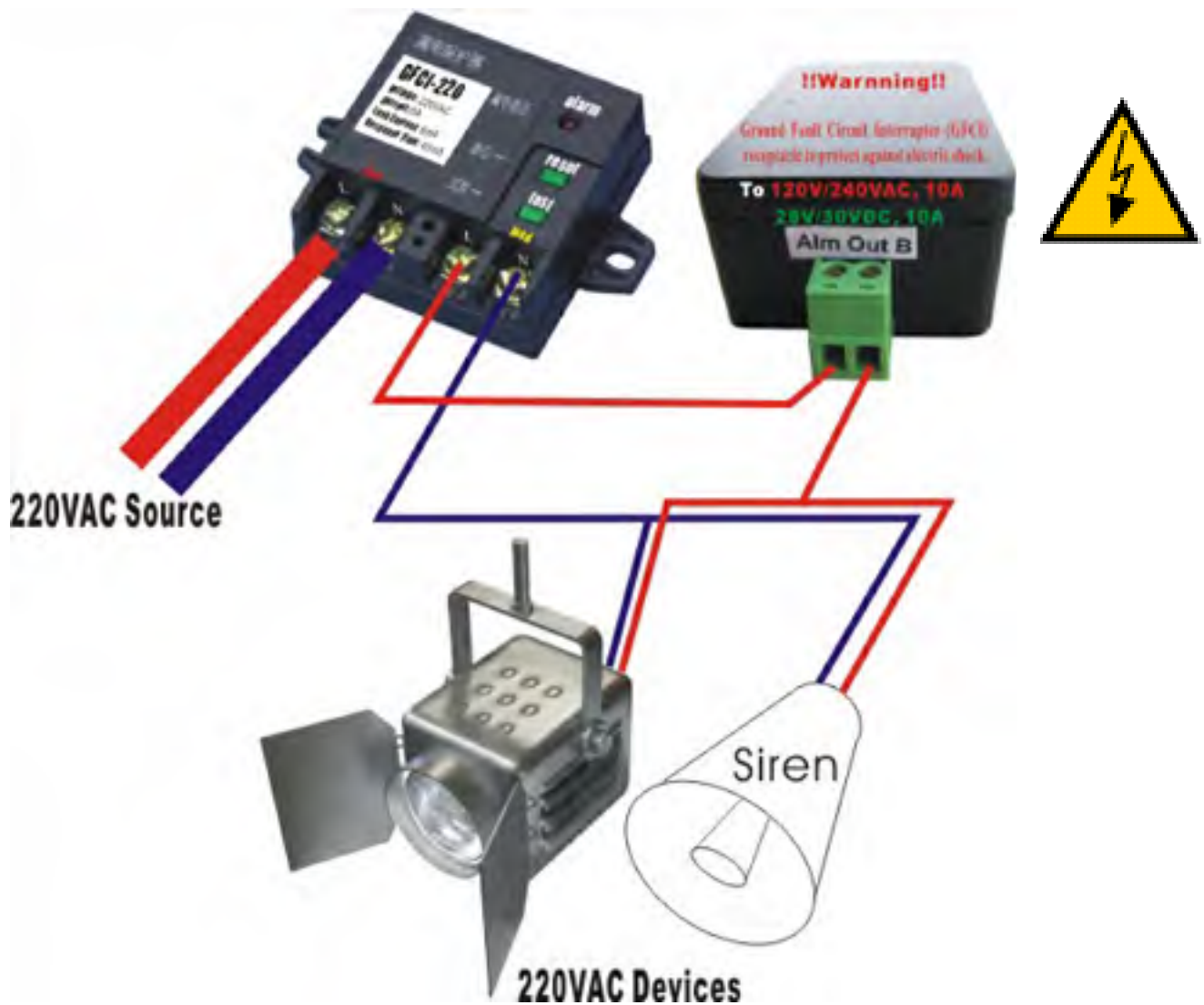
To connect the Active Infrared Sensor to IP CAMERAR camera **ALARM IN**, will trigger alarm when light beams interrupted.

ALARM OUT

Connect "LOAD" that support on/off states change.



Manually ON/OFF the alarm out



WARNING: If connect higher power loading ($> 1A$) directly to camera alarm out will cause damage the camera.

Higher current ($>0.5A$) will accelerate aging of the relay on camera PCB, external relay box is always recommended to protect the camera.

C. Technical Data

Image System

- Compression: Video; Motion JPEG hardware compression **AUDIO**; ADPCM
- 350,000 pixels CMOS sensor
- **Dynamic Range : 60dB**
- **S/N ratio : 50dB**
- f: 6.0mm to infinity, C/CS mount lens
- Min. 2.0 to 3.0 Lux (Indoor version)
- Min. 0 Lux with IR Leds (Outdoor version)
- Automatic Exposure Control
- Automatic Gain Control
- Automatic Brightness Control
- Automatic White Balance
- Flicker Avoidance (Flicker less)
- Resolution:
 - QVGA (320 x 240)
 - VGA (640 x 480)
- Image Frame Rate:
 - Max. 30 fps at QVGA resolution, average 3 Mbps/sec
 - Max. 30 fps at VGA resolution, average 4 Mbps/sec
- I/O Interface
 - CAT5, RJ-45 x1 (802.3); optional IEEE **802.11g** 2.4GHz Wi-Fi
 - RS-485 for PTZ control (optional)
 - Alarm in : Normal Open
 - Alarm out : 1A 24VDC/ 0.5A 125VAC, require external relay box (optional) for higher power load.
 - Audio in: -48 dB microphone, or amplified microphone.**
 - Audio Out: 8Ω 1W speaker**
- Network Protocols
 - TCP/IP, HTTP, ARP, ICMP, PPPoE, DHCP, SMTP, DDNS, NTP, FTP, UPnP
- Client
 - IE6 or **Firefox**
- Mechanical & Environment
 - Dimensions (mm, L x H x W):
 - 103 x 46 x 46 (OEM indoor version)
 - 160 x 80 x 75 (Outdoor version)
 - Weight (g): 350 / 700 (Indoor/ Outdoor)
- Power Requirement: 5 V / 0.3A (Indoor version) / 5 V / 1A (Outdoor version)
- Operation Temp: 5 °C to 50 °C (40 °F to 122 °F)
- Humidity: Rh10 % to 90 %

Mechanical (C1062 only)

- PAN : 355°
- TILT : 90°

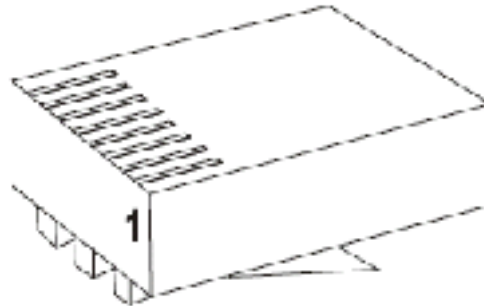
Remark:

- Optional Digital FTP alarm, scheduling, NFS storage functions
- Optional Alarm inputs and outputs, Power over Ethernet, Wi-Fi wireless
- Optional DVR client software for 16 cameras monitoring.
- OEM UPnP and firewall penetration, installation free solution available.

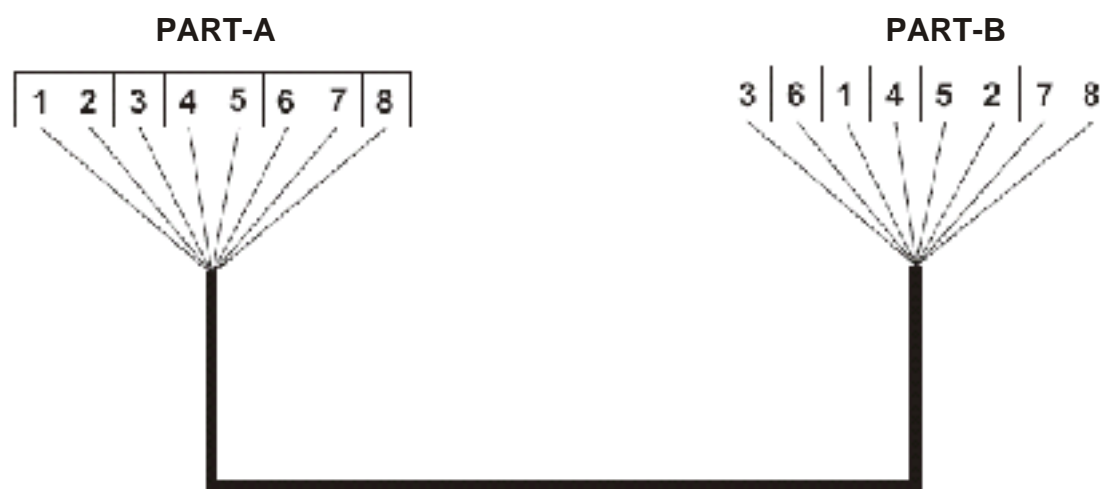
D. Cross Ethernet Cable Making Tip

I. LAN Plug

Pin: 1 ~ 8



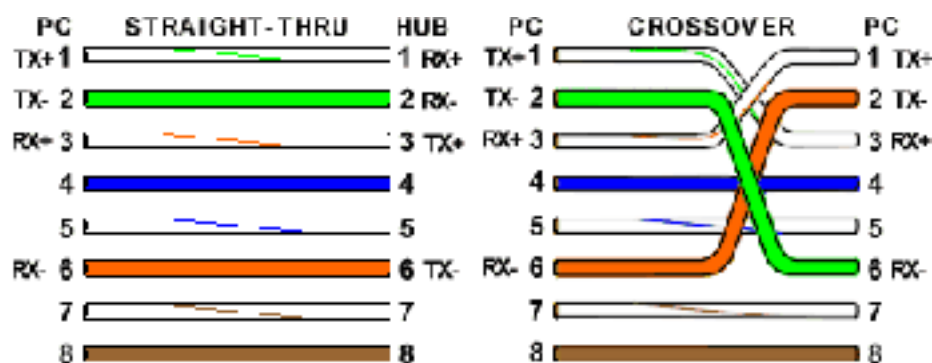
II. LAN Cable

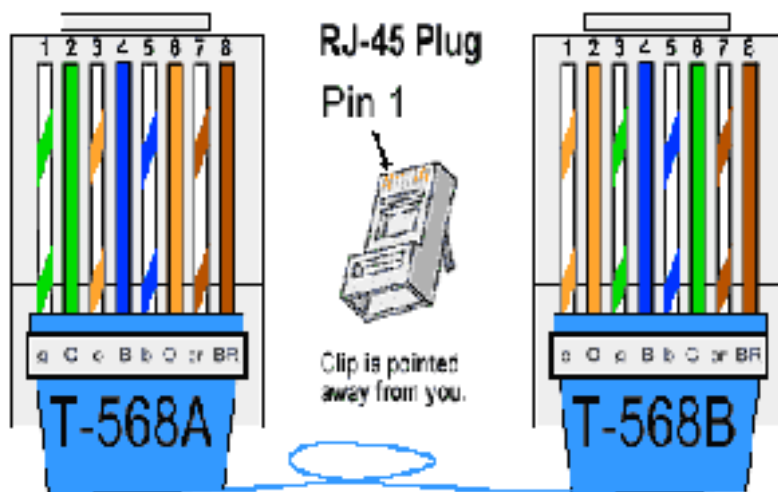
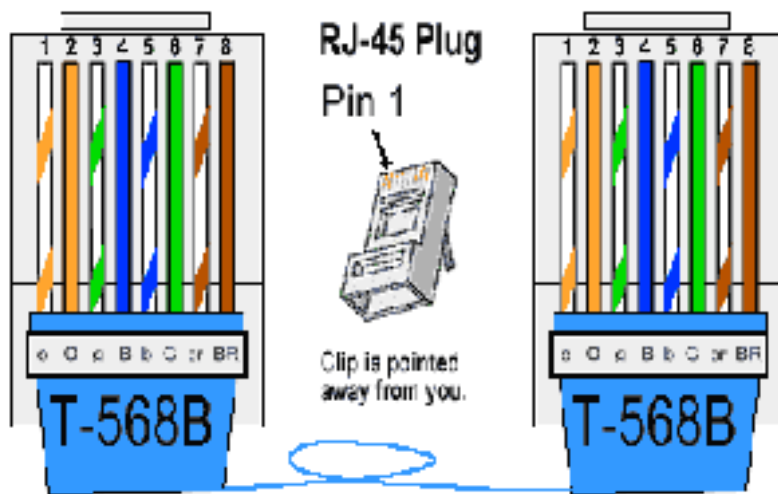
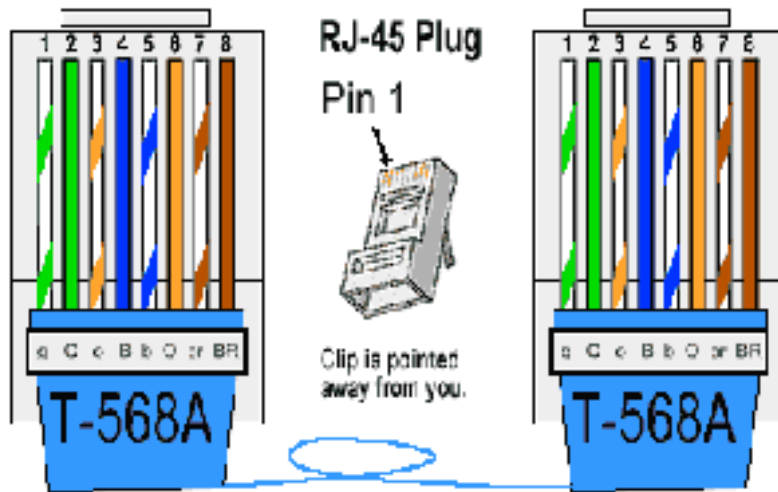


"Passive POE power Inserter" use Cat. 5e cable 4&5 (positive +), 7&8 (negative -) to conduct DC current.

III. Connection Method

- Connect LAN Cable Part-A and LAN plug by order as one to one .
- Connect to LAN cable Part-B & Part-A, Replace order No.1 & 3, No.2 & 6.
- Connect LAN cable Part-B No. 3 to LAN plug No. 1 and connect the next by order.



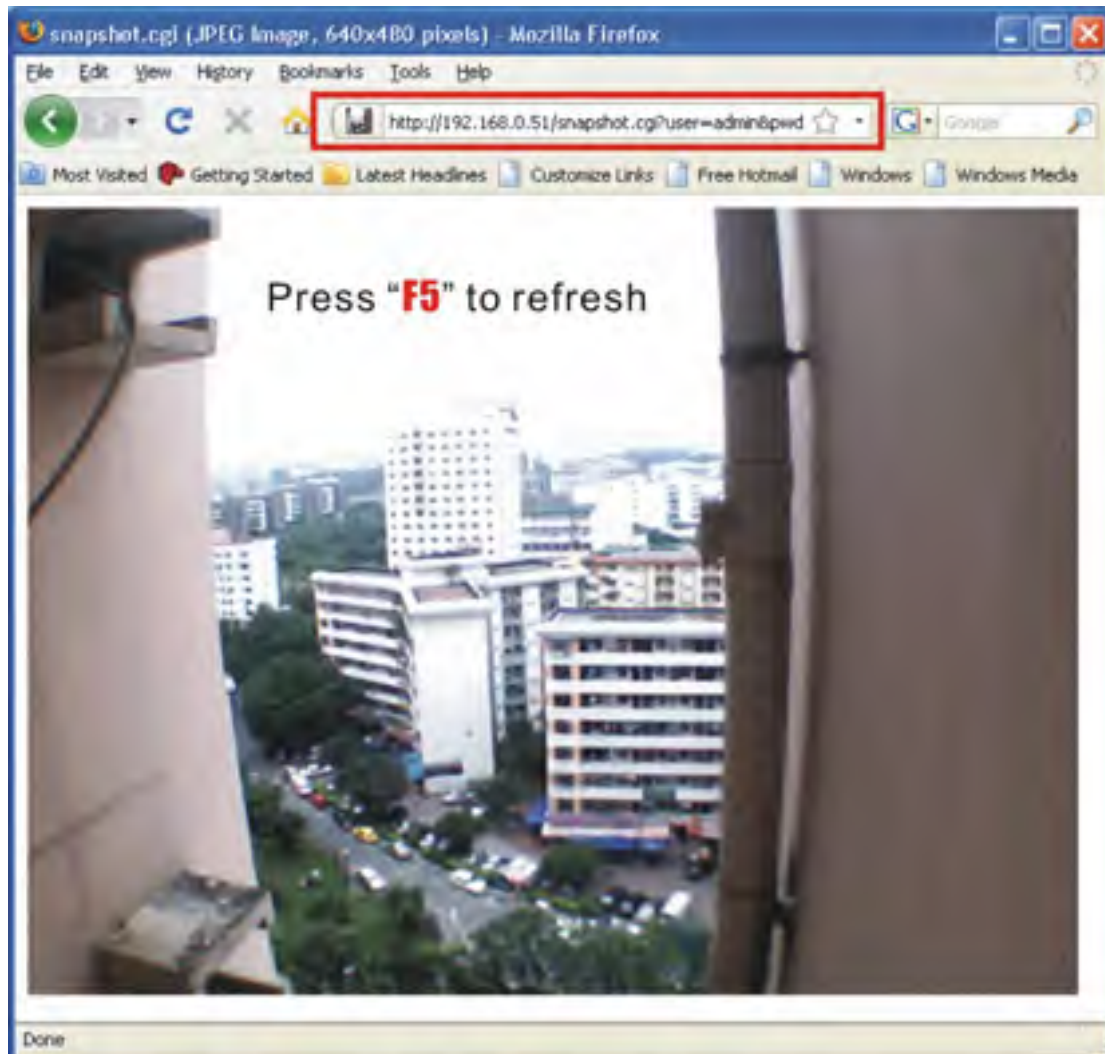


E. Snapshots / Server Push / Smart phones

I.Snapshot:

<http://IPCAMERA-IP-address:port/snapshot.cgi?user=admin&pwd=>

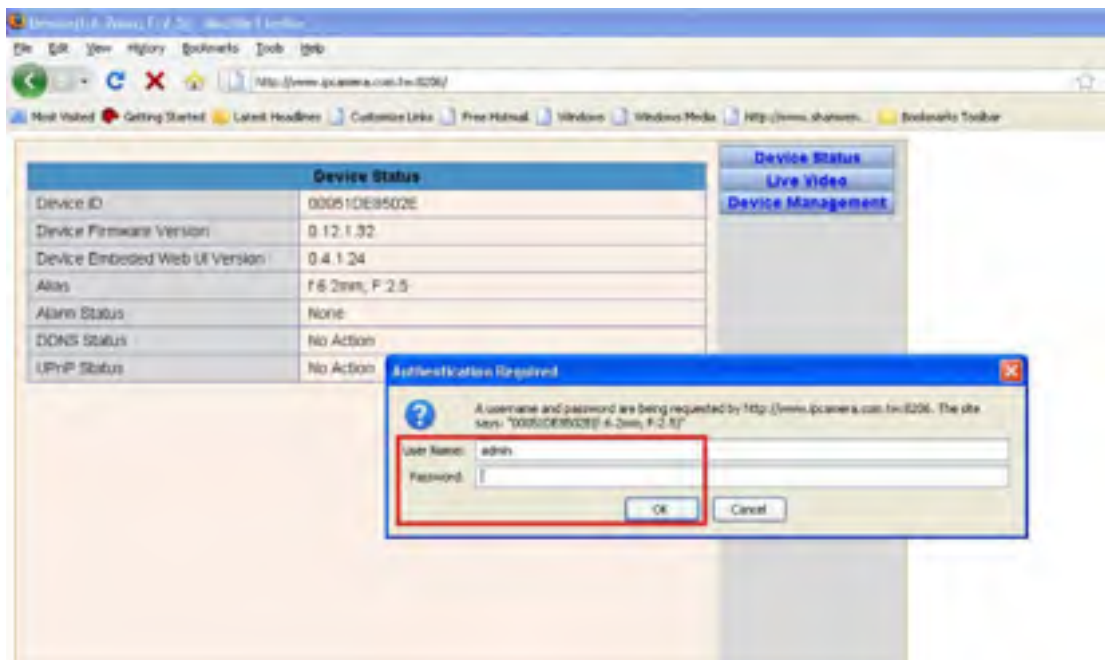
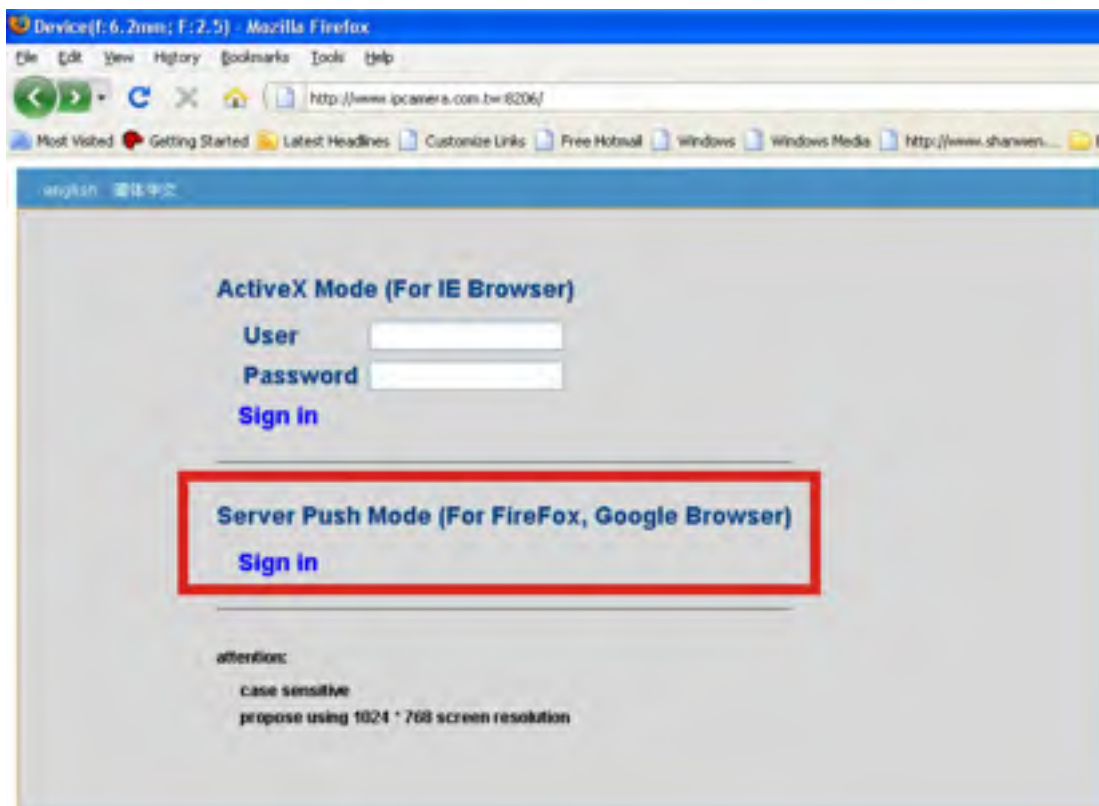
Just type the snapshot http commands to IE browser address field, you will get real time snapshot immediately, press F5 key will refresh the new snapshot.



admin is the IP CAMERA username, **password** is blank.

II. Firefox (Server Push):

[http:// IP CAMERA-IP-address:port/videostream.cgi?user=admin&pwd=](http://IP_CAMERA-IP-address:port/videostream.cgi?user=admin&pwd=)



admin is the IP CAMERA username, **password** is blank.



Due to the security concerns, the firefox explorer doesn't support ActiveX controls by default, but we can add a plug-in named "IE-Tab" which will add ActiveX controls support to firefox, you can download the "IE-Tab" with the firefox explorer from below link:

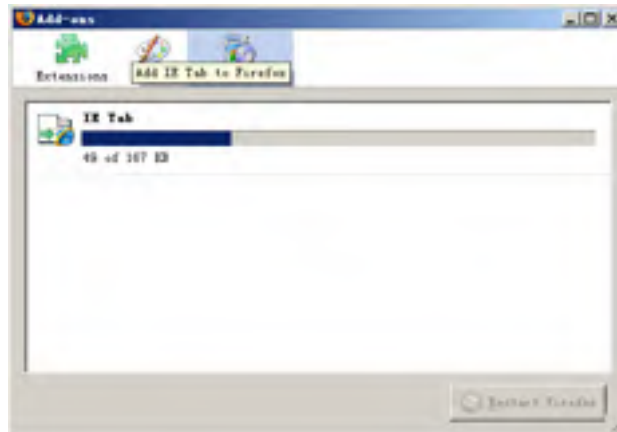
<https://addons.mozilla.org/en-US/firefox/addon/1419>

On the download page, select the right version for your browser, download it, then start the installation.

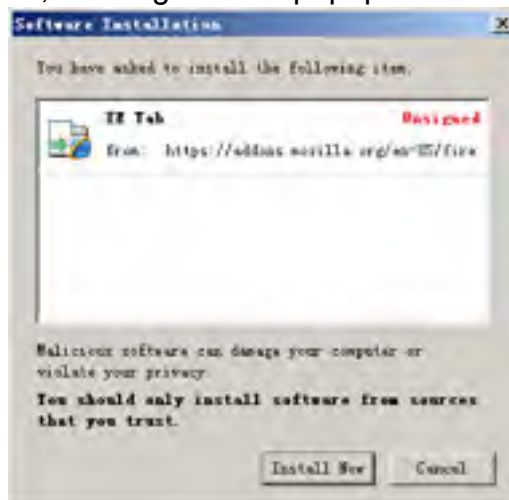
To take firefox browser version 2.0.0.18 as example to illustrate the procedures. Select the version shown in the chart below



Click "Add to Firefox (Windows)" to start download



After download complete, a dialog box will popup



Click “Install Now” button to start installation



After installation, click “Restart Firefox” button to restart the browser.

Login your camera and locate the monitoring page, click your mouse’s right button, click the new menu item named View page in **IE-Tab** to login device again.

III. To play on MPlayer, VLC media player, Coreplayer (Smart Phones)

Syntax

<http://user:pwd@host:port/videostream.asf>

<http://user:pwd@host:port/videostream.cgi>

or

<http://host:port/videostream.asf?user=&pwd=>

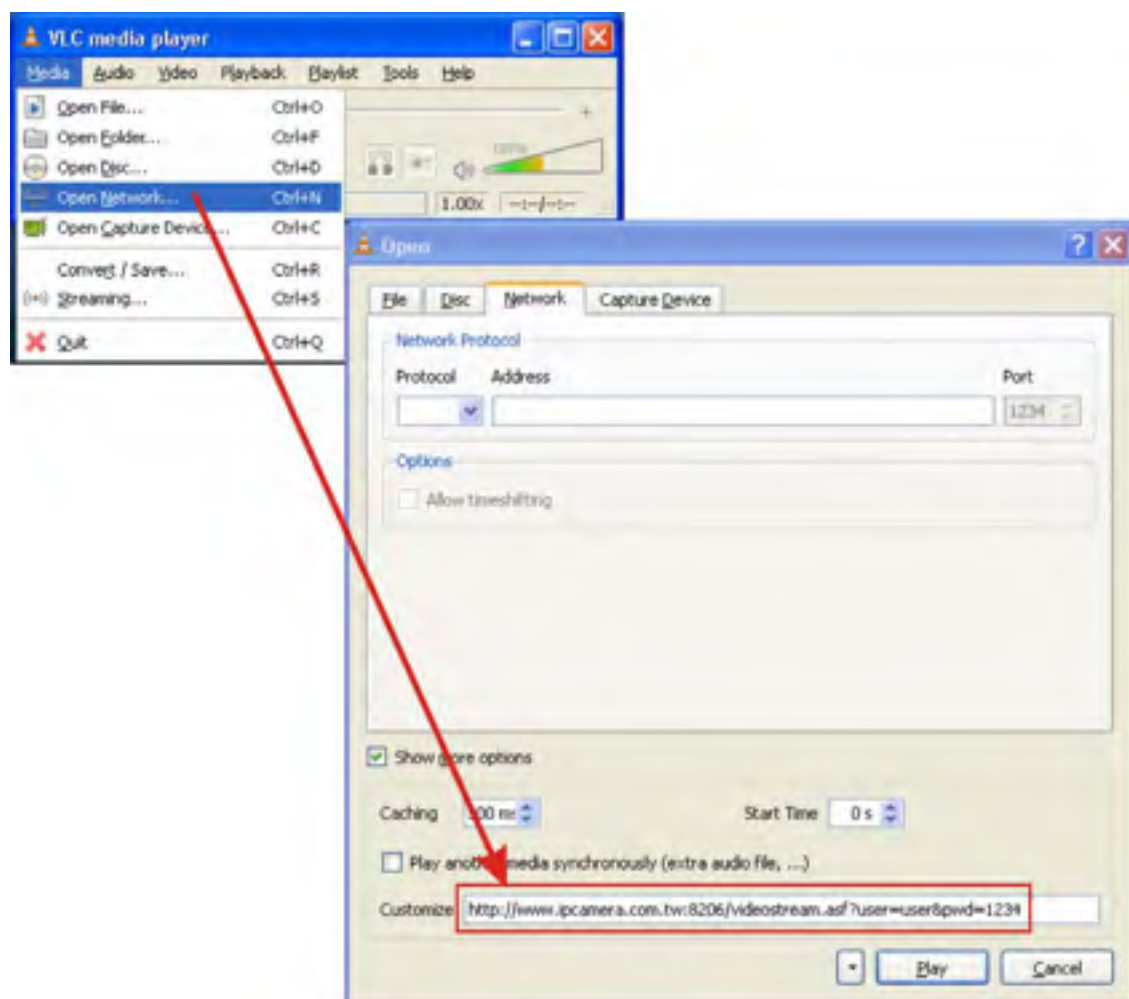
<http://host:port/videostream.cgi?user=&pwd=>

Example

[http:// IP CAMERA_IP_Address:port /videostream.asf?user=admin&pwd=](http://IP_CAMERA_IP_Address:port /videostream.asf?user=admin&pwd=)

<http://www.ipcamera.com.tw:8206/videostream.asf?user=user&pwd=1234>

<http://www.ipcamera.com.tw:8206/videostream.cgi?user=user&pwd=1234>





Play video stream on Linux:



IV. Install Clairvoyant IP Camera Player on Smart Phones

The **Clairvoyant IP Camera Player** in CD will run on mobile phones/pda that support midp2.0 java.

Note:

Many mobile devices (Pocket PCs, Cellular phones) using Microsoft mobile OS does not contain JRE (J2ME) will not be able to run Java applications or view websites powered by Java applets. Major GPRS/CDMA/3G mobile phones using various J2ME provided by companies like Applix (Japan), Esmertec (Swiss), TAO (UK).., even though there are standards like MIDP 1.0/ 2.0, difference still exist in all the J2ME versions from different vendors.

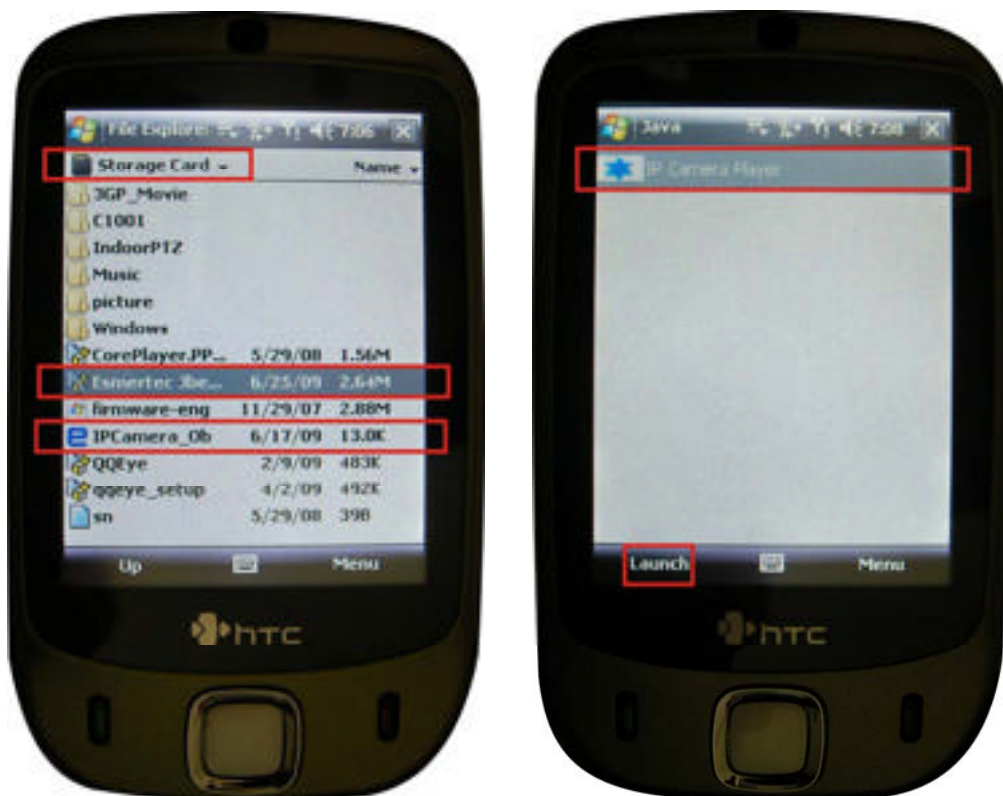
Clairvoyant IP Camera Player for PDA (J2ME, CLDC; PDAP) or Phone (J2ME, CLDC; MIDP) are different, will not be interchangeable. Since there are too many mobile phones available in market, we are not able to guarantee that the **Clairvoyant IP Camera Player** we provide will work on all mobile phones, or guarantee 100% compatibility to all GPRS/3G mobile phones that support MIDP 2.0 (Mobile Information Device Profile).

Java Run Environment (JRE; J2ME) for Microsoft mobile OS is included in product CD: [Esmertec Jbed 20090217.5.1R2.cab](#)

Clairvoyant IP Camera Player is coded in Java, will need to install Java Virtual machine (JVM) on your Phone/ PDA before running Java applets.

Copy [Esmertec Jbed 20090217.5.1R2.cab](#) to Microsoft mobile phone's storage (by TF card, micro SD card, USB link), click to install.

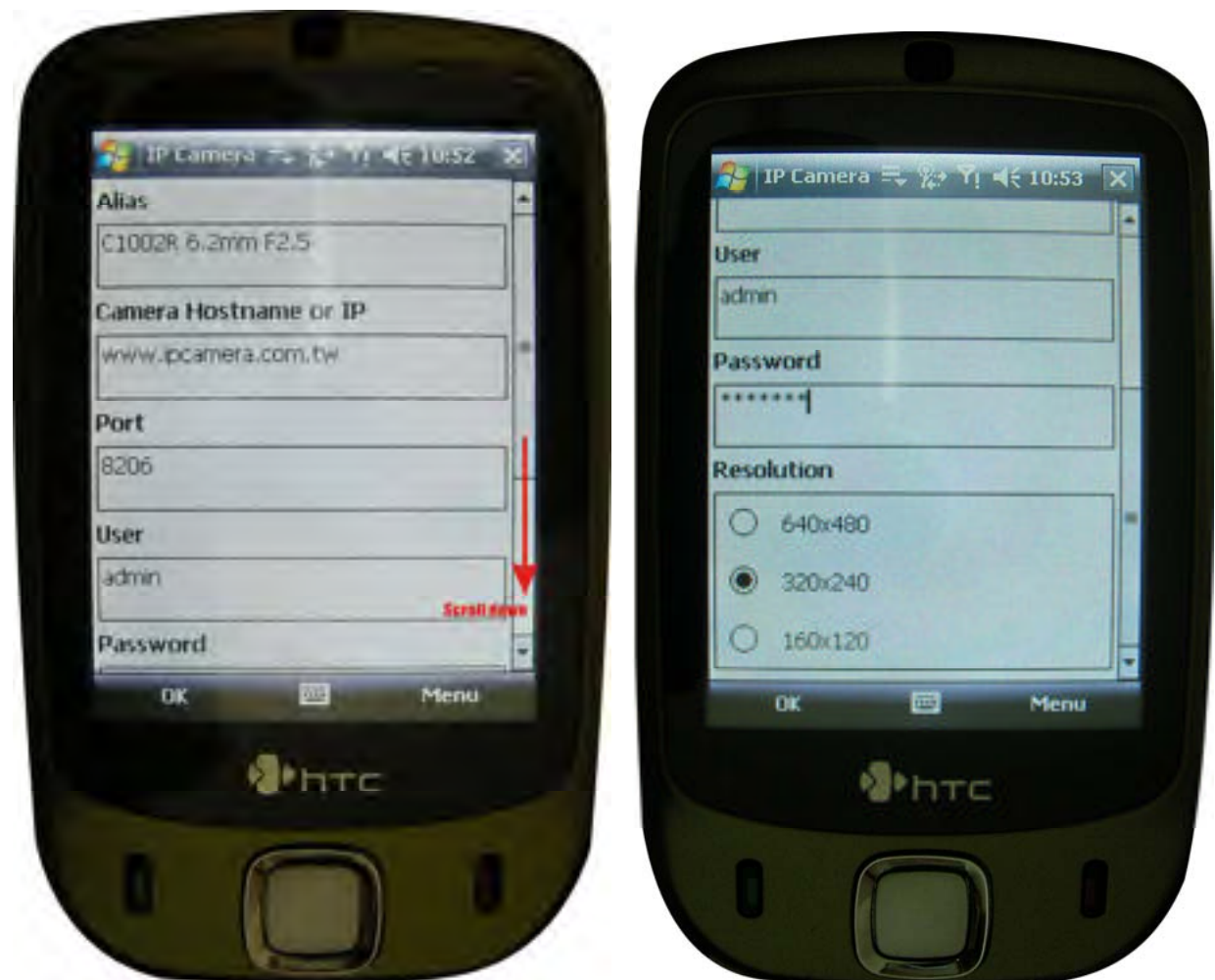
Copy [IPCamera.jar](#) to phone's storage (by TF card, micro SD card, USB link), click to install.



Make sure the mobile phone can access Clairvoyant 1002 series IP camera through Internet or Wi-Fi. Click Lunch to start **Clairvoyant IP Camera Player**

Note:

Many telecomm ISP will separate their service to WAP (Intranet) & Internet; please must set APN that connect Internet service.



Input the camera URL, User/Password, Selection Resolution to choose “ok” to access Clairvoyant IP camera

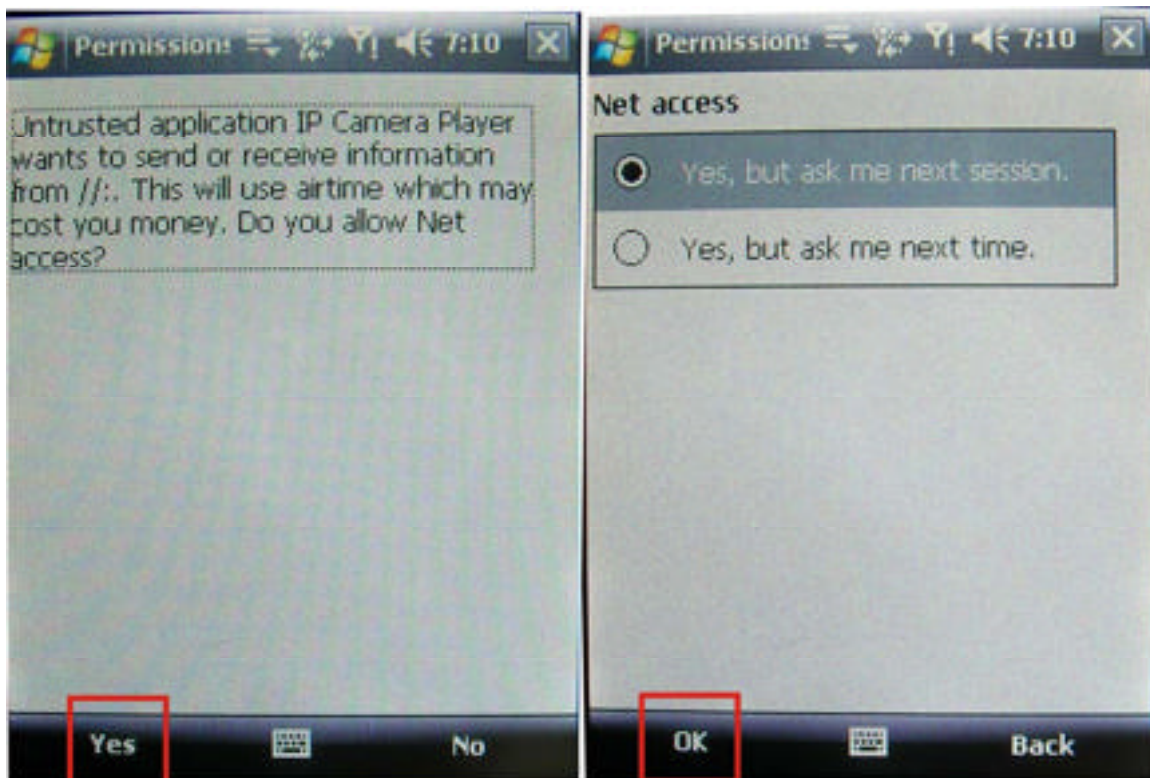
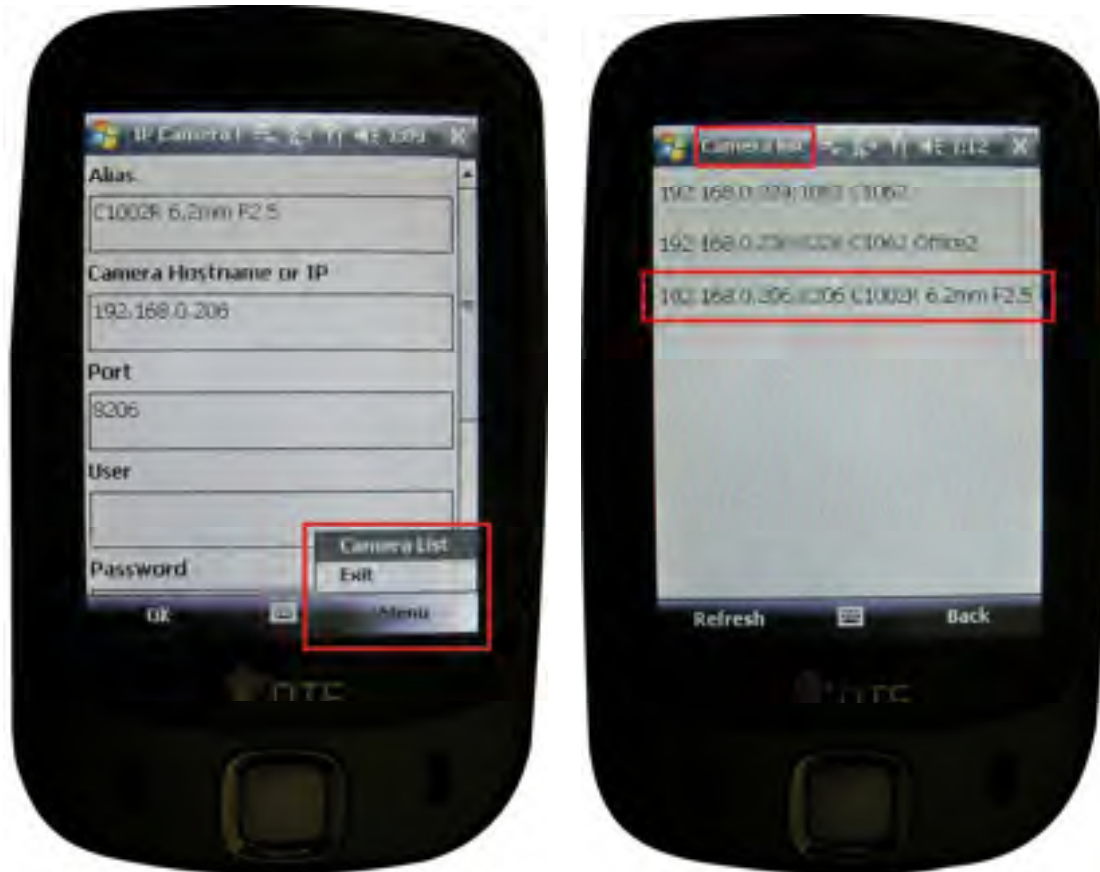
To control C1062 IP Camera PAN & TILT

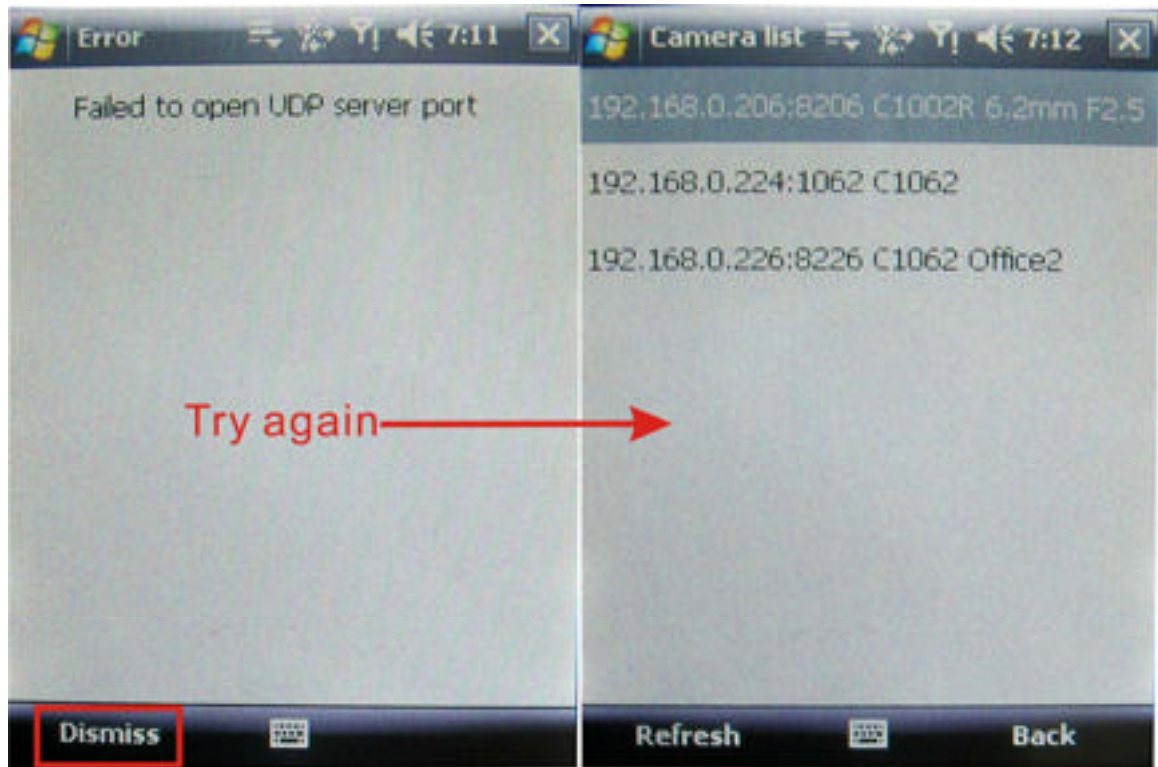
Use 2 4 6 8 keys to control PAN/ TILT (up/ left/ right/ down).

Use 1 3 5 7 keys to control PAN Scan/Stop ; TILT Scan/Stop.

“*”, “#” keys to control I/O on/off

If connect phones by Wi-Fi can search Clairvoyant 1002 series IP cameras in LAN.





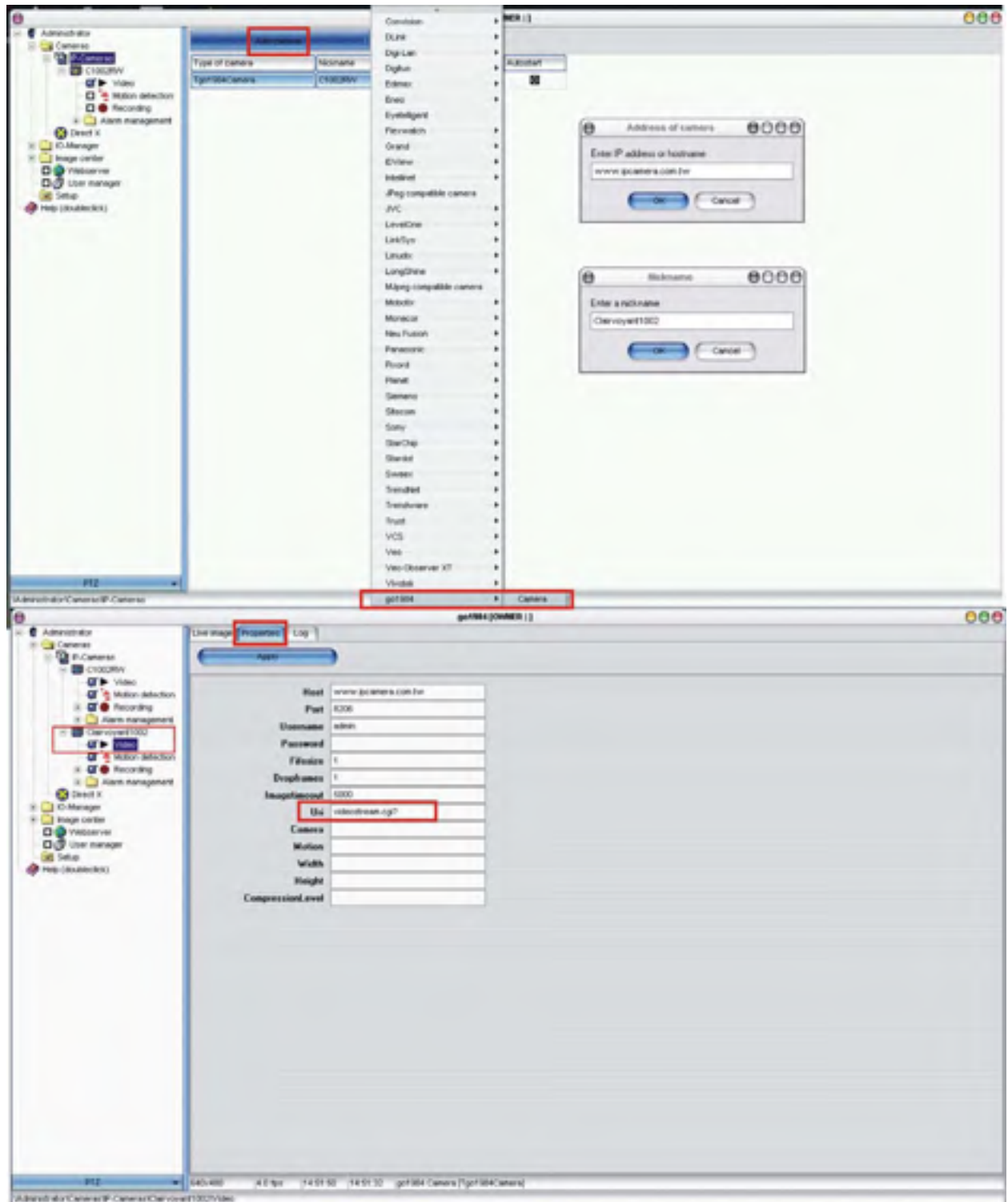
F. 3rd Party Video surveillance and Recording Software

I. go1984

Copyright © Logiware GmbH (<http://www.go1984.com>)

IP CAMERA Settings:

Uri : videostream.cgi

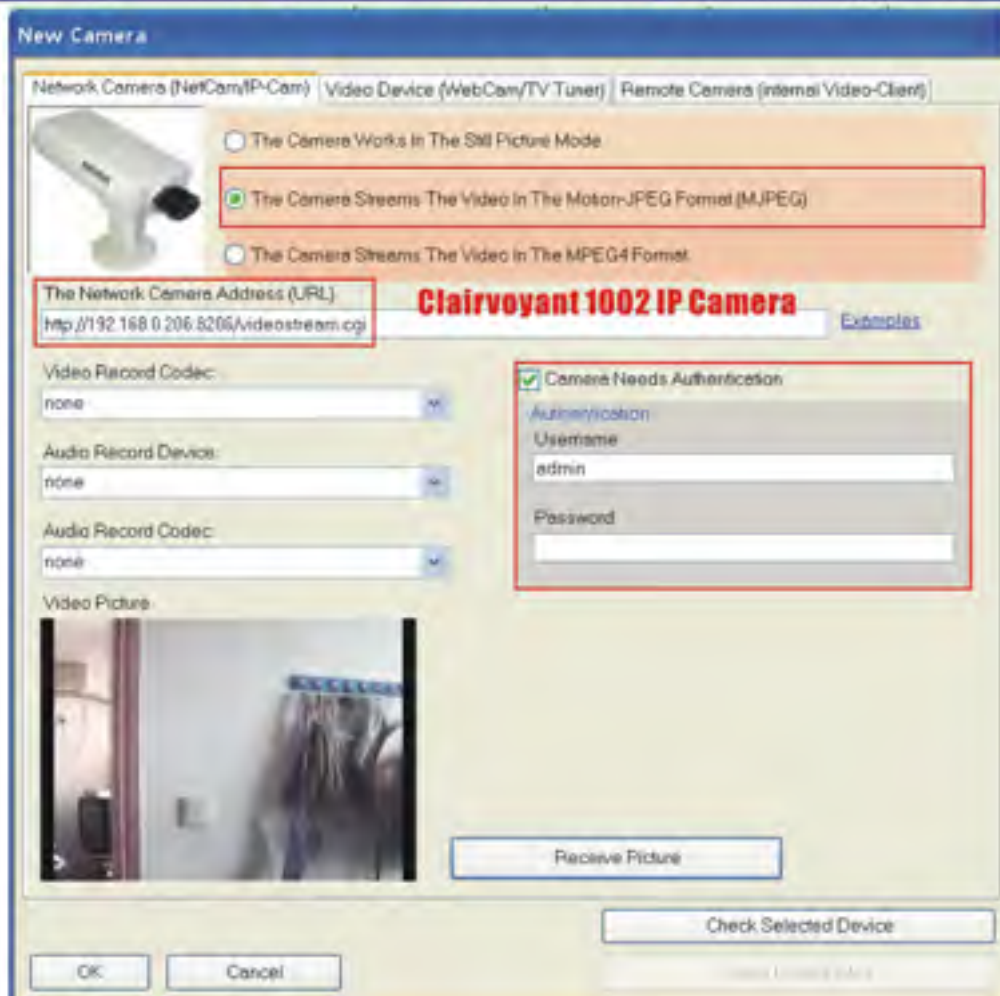
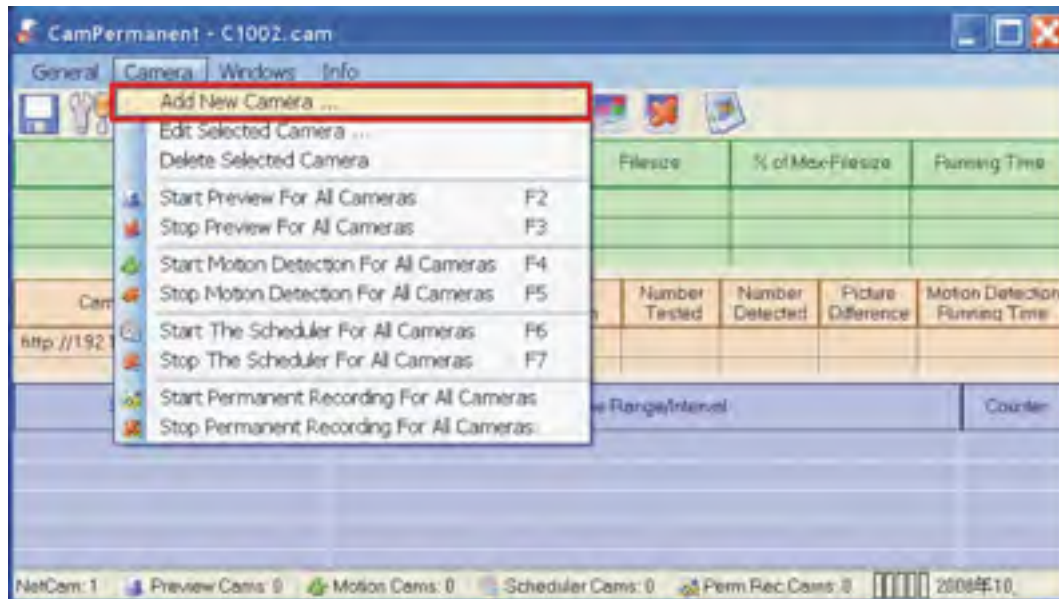


II. CamPermanent

Copyright © CrazyPixels (<http://www.crazypixels.com>)

IP CAMERA Settings:

Uri : http://IPCAMERA_IP_address:port/videostream.cgi



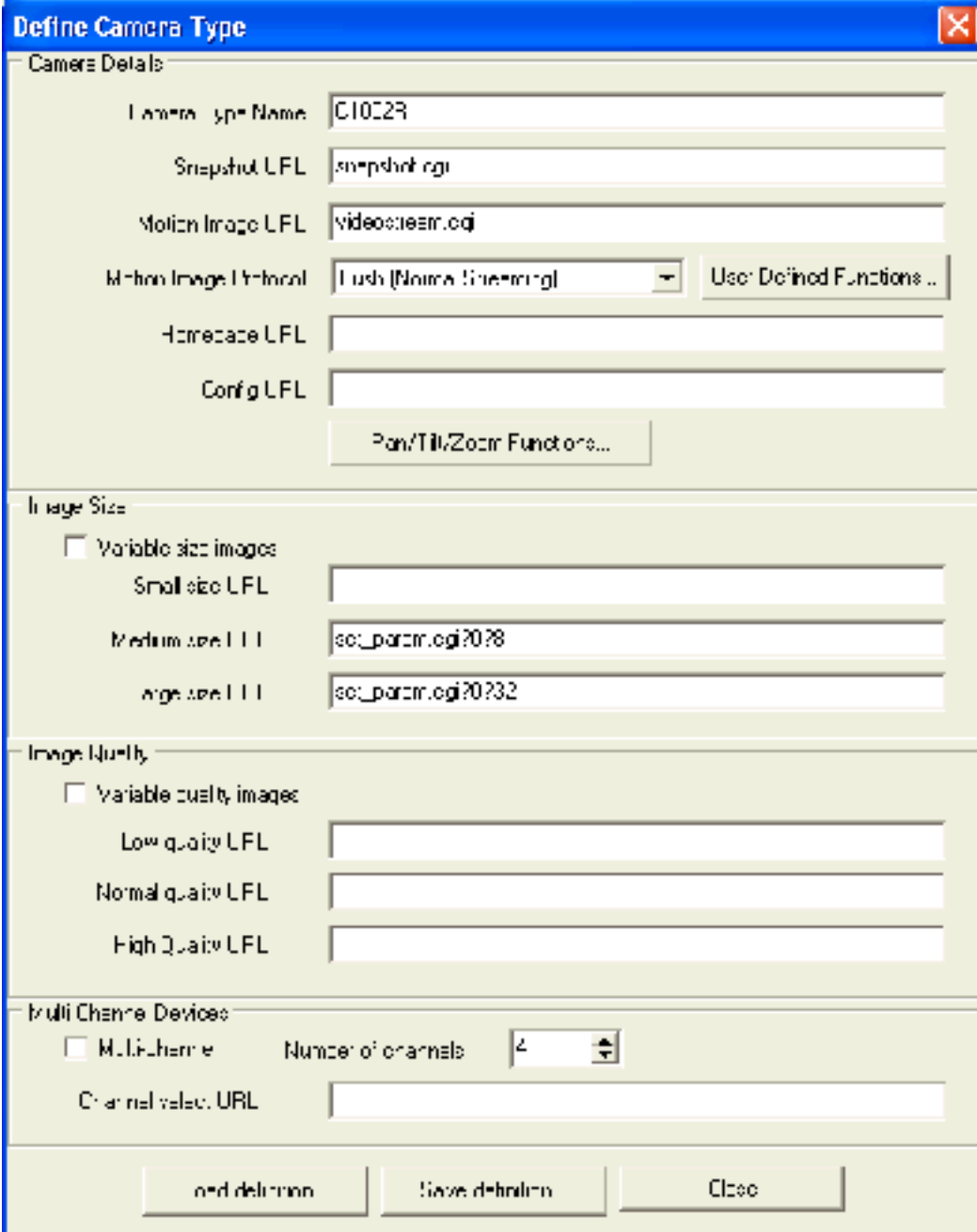
III. Netcam Watcher Professional

Copyright © Beausoft Ltd (<http://www.netcam-watcher.com/>)

IP CAMERA Settings:

Sanpshot URL : snapshot.cgi

Motion Image URL : videostream.cgi



Define Camera Type

Camera Details

Camera type Name: C1002R

Snapshot LFL: snapshot.cgi

Motion Image LFL: videostream.cgi

Motion Image Protocol: Push (Normal Streaming) [User Defined Functions...]

Homepage LFL:

Config LFL:

[Pan/Tilt/Zoom Functions...]

Image Size

Variable size images

Small size LFL:

Medium size LFL: set_param.cgi?0?8

Large size LFL: set_param.cgi?0?32

Image Quality

Variable quality images

Low quality LFL:

Normal quality LFL:

High Quality LFL:

Multi Channel Devices

Multi-channel Number of channels: 4

Channel select URL:

[Cancel] [Save] [Close]

Edit Camera [X]

Camera Details | Recording and Saving | Schedules and Patrolling | Advanced

Camera Details

Camera Name: C1002

Description: Clairvoyant

Location: MWR Engineering

Camera Address: www.pocamera.com:8020

Camera Type: C1002R

Camera Channel: [] Define

Monitoring Type

Full Motion Snapshot Interval: 60 seconds

Image size: [] Image quality: [] Flip

Security

Use Authentication: User ID: admin Password: []

[<] Extra Functions Alarms... FTP... Cancel

Edit Camera [X]

Camera Details | Recording and Saving | Schedules and Patrolling | Advanced

Camera Details

Camera Name: Cam002

Description: Clairvoyant 1002

Location: MWR Engineering

Camera Address: 192.168.0.206:8206

Camera Type: C1002

Camera Channel: [] Define

Monitoring Type

Full Motion Snapshot Interval: 0 seconds

Image size: [] Image quality: [] Flip

Security

Use Authentication: User ID: admin Password: []

OK Extra Functions Alarms... FTP... Cancel

C1002 series cameras are compatible with all 3rd parties software that support user define cameras, please reference below syntax for more details.

Syntax:

snapshot.cgi

Description : snapshot

Authorization : visitor

Syntax : /snapshot.cgi[?next_url=]

Parameter:

next_url : filename

Note : If no next_url parameter, return filename will be: Device ID (alias)_time.jpg

http://url_or_IP:port/snapshot.cgi?next_url=a.jpg

you will get ID(alias)_year:month:day:hour:minute:second.jpg as filename

<http://www.ipcamera.com.tw:8206/snapshot.cgi?user=guest&pwd=>

Server Push Video Stream on Firefox:

<http://www.ipcamera.com.tw:8206/videostream.cgi?user=guest&pwd=>

Note:

username: guest

Password:

Note:

Just type the snapshot http commands to IE browser address field, you will get real time snapshot immediately, press F5 key will refresh the new snapshot. Just type the server push http commands to Firefox browser address field, press "Enter" key, then press "F5" to start live video. Please notice IE don't support Server Push.

C1002 series IP cameras are with duplex audio will support MPlayer, VIDEOLAN vlc media player, Coreplayer, play live video & audio on mobile phones

[ftp://ftp.clairvoyant.com.tw/mjpeg/manual/C1002 CGI ProgrammingGuide.pdf](ftp://ftp.clairvoyant.com.tw/mjpeg/manual/C1002_CGI_ProgrammingGuide.pdf)

Syntax

To push Video in JPEG format

<http://host:port/videostream.cgi?user=&pwd=&resolution=>

resolution:

8: 320*240

32: 640*480

Example

<http://www.ipcamera.com.tw:8206/videostream.cgi?user=user&pwd=1234&resolution=32>

To push Video & Audio in ASF format

[http://host:port/videostream.asf\[?user=&pwd=&resolution=\]](http://host:port/videostream.asf[?user=&pwd=&resolution=])

resolution:

8: 320*240

32: 640*480

Example

<http://www.ipcamera.com.tw:8206/videostream.asf?user=user&pwd=1234&resolution=32>

Syntax:

http://ip-can:port/decoder_control.cgi?command=

Command: Decoder commands

Value	RS-485 to Pelco-D Decoder	Motor
0	up	up
1	Stop up	Stop up
2	down	down
3	Stop down	Stop down
4	left	left
5	Stop left	Stop left
6	right	right
7	Stop right	Stop right
8	Aperture close	
9	Stop Aperture close	
10	Aperture open	
11	Stop Aperture open	
12	Focus near	
13	Stop Focus near	
14	Focus far	
15	Stop Focus far	
16	Zoom in	
17	Stop zoom in	
18	Zoom out	
19	Stop zoom out	
20	Cruise	
21	Stop Cruise	
22	Close switch 1	
23	Open switch 1	
24	Close switch 2	
25	Open switch 2	Center
26	Close switch 3	Tilt scan

27	Open switch 3	Stop Tilt scan
28	Close switch 4	Pan scan
29	Open switch 4	Stop pan scan
30	Set Preset 1	
31	Go To Preset 1	
...		
92	Set Preset 32	
93	Go To Preset 32	
94	IO HIGH	IO HIGH
95	IO LOW	IO LOW

Example:

http://122.116.74.90:8101/decoder_control.cgi?command=94

username : user
password : 1234

Turn on the red spot light (top middle)



http://122.116.74.90:8101/decoder_control.cgi?command=95

username : user
password : 1234

Turn off the red spot light (top middle)



Syntax:

[http://ip-can:port/set_alarm.cgi?motion_armed=&motion_sensitivity=&input_armed=&iolinkage=&mail=&upload_interval=&schedule_enable=&schedule_sun_0=&schedule_sun_1=&schedule_sun_2=&schedule_mon_0=&schedule_mon_1=&schedule_mon_2=&schedule_tue_0=&schedule_tue_1=&schedule_tue_2=&schedule_wed_0=&schedule_wed_1=&schedule_wed_2=&schedule_thu_0=&schedule_thu_1=&schedule_thu_2=&schedule_fri_0=&schedule_fri_1=&schedule_fri_2=&schedule_sat_0=&schedule_sat_1=&schedule_sat_2=\[&ioin_level=&ioout_level=&user=&pwd=&next_url=\]](http://ip-can:port/set_alarm.cgi?motion_armed=&motion_sensitivity=&input_armed=&iolinkage=&mail=&upload_interval=&schedule_enable=&schedule_sun_0=&schedule_sun_1=&schedule_sun_2=&schedule_mon_0=&schedule_mon_1=&schedule_mon_2=&schedule_tue_0=&schedule_tue_1=&schedule_tue_2=&schedule_wed_0=&schedule_wed_1=&schedule_wed_2=&schedule_thu_0=&schedule_thu_1=&schedule_thu_2=&schedule_fri_0=&schedule_fri_1=&schedule_fri_2=&schedule_sat_0=&schedule_sat_1=&schedule_sat_2=[&ioin_level=&ioout_level=&user=&pwd=&next_url=)

motion_armed	0: disable 1: Enable
motion_sensitivity	0-9 : High - low
input_armed	0: disable 1: Enable
ioin_level	io input high/low to identify alarm input, 0: low 1: high
iolinkage	0: disable linkage to io output 1: Enable
ioout_level	io output high/low to trigger alarm output, 0: low 1: high
mail	0: disable email alert 1: Enable
upload_interval	alarm snapshots upload interval(Seconds), 0: disable, 0-65535
schedule_enable	0: disable scheduling 1: Enable
schedule_sun_0	Sunday schedule; 15 minutes per time segment, 96 time segments per day bit0-95: 0: disable 1: Enable schedule_sun_0, schedule_sun_1, schedule_sun_2, each is 4 bytes (32 bits) total 96 bits to match with each time segment
schedule_sun_1	
schedule_sun_2	
schedule_mon_0	
schedule_mon_1	
schedule_mon_2	
schedule_tue_0	
schedule_tue_1	
schedule_tue_2	
schedule_wed_0	
schedule_wed_1	
schedule_wed_2	
schedule_thu_0	
schedule_thu_1	
schedule_thu_2	
schedule_fri_0	
schedule_fri_1	
schedule_fri_2	
schedule_sat_0	
schedule_sat_1	
schedule_sat_2	

Example:

http://192.168.0.224:1062/set_alarm.cgi?motion_armed=1&motion_sensitivity=&input_armed=&iolinkage=&mail=&upload_interval=&schedule_enable=&schedule_sun_0=&schedule_sun_1=&schedule_sun_2=&schedule_mon_0=&schedule_mon_1=&schedule_mon_2=&schedule_tue_0=&schedule_tue_1=&schedule_tue_2=&schedule_wed_0=&schedule_wed_1=&schedule_wed_2=&schedule_thu_0=&schedule_thu_1=&schedule_thu_2=&schedule_fri_0=&schedule_fri_1=&schedule_fri_2=&schedule_sat_0=&schedule_sat_1=&schedule_sat_2=&user=admin&pwd=admin

=====**The End**=====

