IEEE 802.11b/g Wireless IP Network Camera

Model: CS-W02G2

User's Manual

Foreword

Explanation of the signals

In order to let you set up and use this product correctly, please pay attention when reading or browsing the manual as you see these signals listed below.

Warning / Danger

Users should read the explanation carefully and understand it completely, otherwise users might be in danger or even be injured.

Caution / Be Careful

Remind users to be careful when setting up the product and to avoid damaging the product or its system programs.

Seeking for service or searching for an agent or a distributor

Thank you for purchasing products from Planex Communications Inc. If you have any operational problems while configuring or setting up the product, you may contact with our Customer Service Department or ask the agent or the distributor from which you bought the product for help. Moreover, during warranty, if you find any defect or breakdown of the product, you may bring the product, assembly, and its warranty card to our company or to where you bought the product to ask for repair.

★ Every product has different warranty period and contract; please refer to our company for further information or consult the agent or the distributor.

Planex Communications Inc.
Support Phone：**+65-6338-1704** (Singapore)
+886-2-8218-7114 or **+886-2-2219-7454** (Taiwan)
Customer Service E-Mail：techsupport@planex.com.tw
Contact Us
Tel：**+886-2-2219-1816**
Fax：**+886-2-2219-0655**
Agents & Distributors：http://www.planex.net/where/index.htm

FCC Certifications

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE Mark Warning

Trademarks:

All trade names and trademarks are the properties of their respective companies.

Copyright©2006, All Rights Reserved.

Table of Contents

FCC Certifications....3
Package Contents....5
- Key Features....6
- Physical Description....7
- LED Indicators....7
- System Requirements....7

Installation....8
- Hardware Installation....8
- Software Installation....10
  - Enabling Active X....10
  - PC Cam Driver and Java Environment Installation....12
- Using IP Camera with MSN messenger....15
- Using IP Camera with Skype....18
- Using IP Camera with Yahoo! Messenger....21
- Using IP Camera with Windows Movie Maker....27

System Definitions....32
- Login Window....32
- View Window....33
- System....34
  - Camera....34
  - User....35
  - NTP....35
  - Motion Detection....36
  - DDNS....36
- Network....38
  - LAN Settings....38
  - Wireless LAN Settings....39
- Update....39

Technical Specification....40

Package Contents

1. CS-W02G2 x1
2. 2dBi Antenna x1
3. Quick Installation Guide x1
4. CD-ROM(User's Manual/Driver & Utility) x1
5. UTP Cable x1
6. Camera Mounting Bracket (Circular Foundation x1, Sustaining Pole x1, Universal Joint x1, Screwx3, Plastic Bolt x3)
7. AC Adapter x1
8. Warranty Card x1

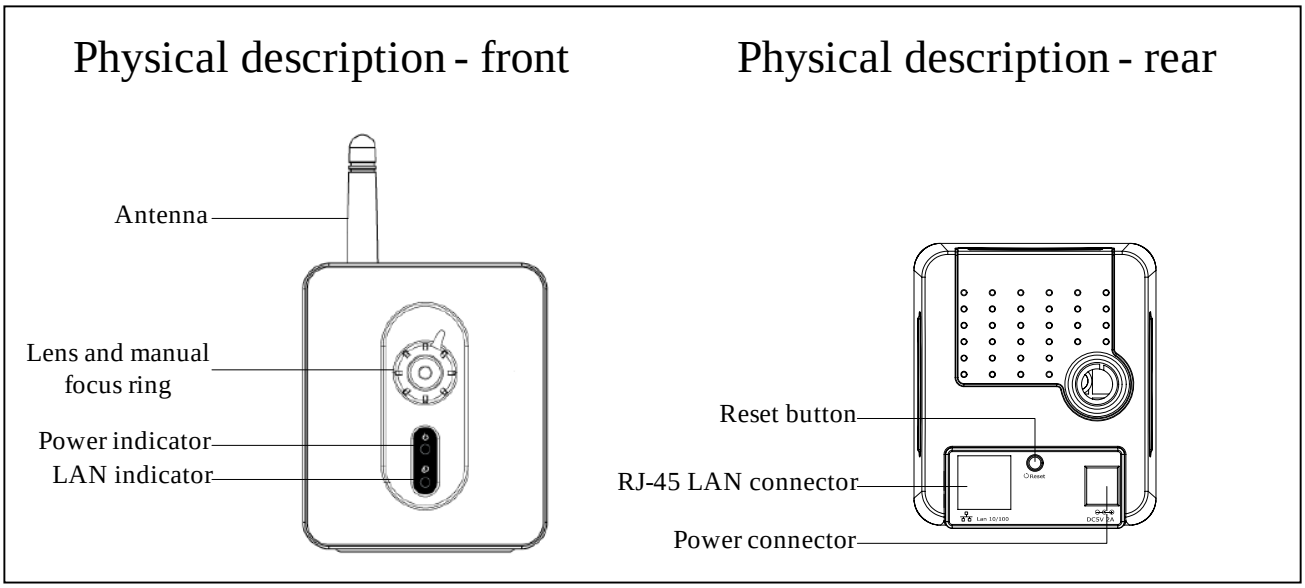
Overview

The CS-W02G2 wireless/wired network camera is a compact-size, easy-to-use and cost-effective solution ideal for home security and entertainment. With 1.3M pixel CMOS sensor technology, CS-W02G2 provides excellent image quality with digital pan/tilt/zoom monitoring capability. CS-W02G2 comes with a built-in web server that can be viewed via a standard browser such like Internet Explorer or Netscape browser. Snapshots and recording can be taken directly from the web interface, stored within or without PC (via optional built-in 512MB~2GB NAND flash storage). Wired and wireless connections are both supported, which enables easy and clear camera installation. Providing a better way for baby or pet monitoring and video sharing, CS-W02G2 IP Camera uniquely features instant messenger interface, turning network camera into a convenient PC camera. CS-W02G2 is breaking the rule that conventional network camera follows.

Key Features

- Stand-alone network camera, no need to attach to PC
- Motion JPEG compression engine
- Built-in web server for monitoring via standard browser
- Local access through Ethernet and 802.11 b/g wireless LAN (CS-W02G2)，remote access through Internet
- 15 levels motion detection
- Digital pan/tilt/zoom
- Support instant messenger video communication (MSN, Skype, Yahoo! Messenger)
- Support Windows Movie Maker, recording as *.wmv file (VC-1 encoding, better compression rate than MPEG-4)

Physical Description



LED Indicators

LED	**Color**	Description
Power	Green	**System ready**
LAN	Green	**LAN ready**
LAN	**Red**	**WLAN ready**

System Requirements

The system requires an Ethernet port and an IP address. To view the IP camera images, each computer requires:

- Microsoft Windows 98, ME, NT4.0, 2000, XP or 2003. Mac or Linux based machine.
- Microsoft Internet Explorer 5.x, or later.
- Mozilla FireFox 1.5.0.7 or later

To use instant messenger with IP camera, each computer requires:

- MSN messenger 7.5 or later
- Skype 2.5.1.137 or later
- Yahoo! Messenger 7.5 or later

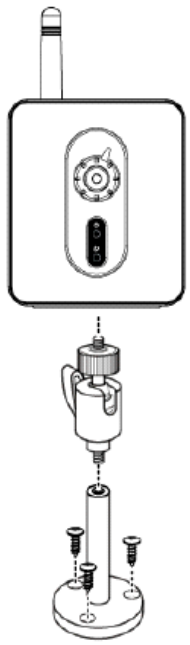
To use Windows Movie Maker, each computer requires:

- Microsoft Windows XP SP2 or later

Installation

Hardware Installation

1. Assemble the stand



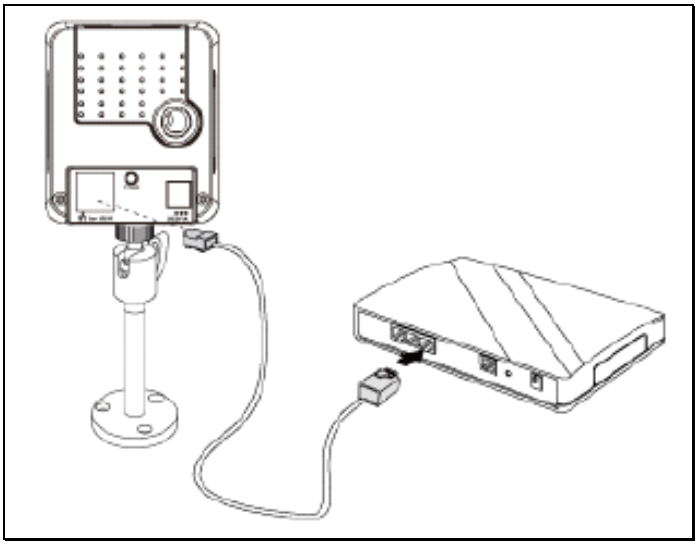
Assemble the stand and fix it to the camera as shown.

Use the three screws and plugs provided to fix the stand bracket to a wall, or other convenient fixing point.

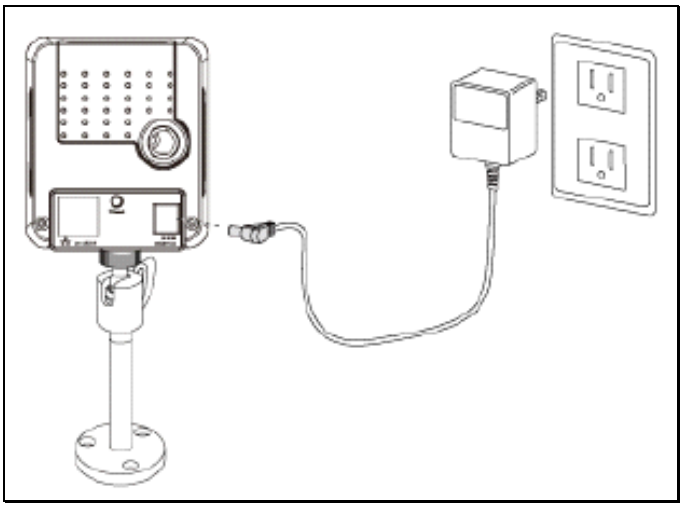
The stand can be adjusted to allow the camera a full 360º of rotation and a pan and tilt action.

Warning:
The camera is not waterproof and should not be mounted outside or in a position where it could become wet.

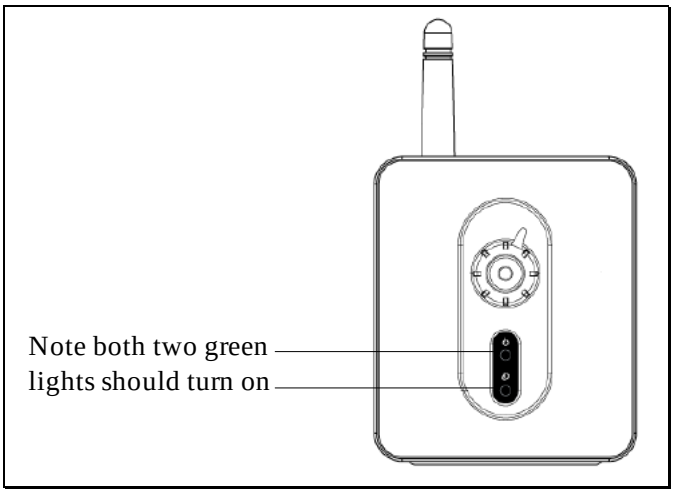
2. Connect to a network hub/router



3. Power on



4. Check status

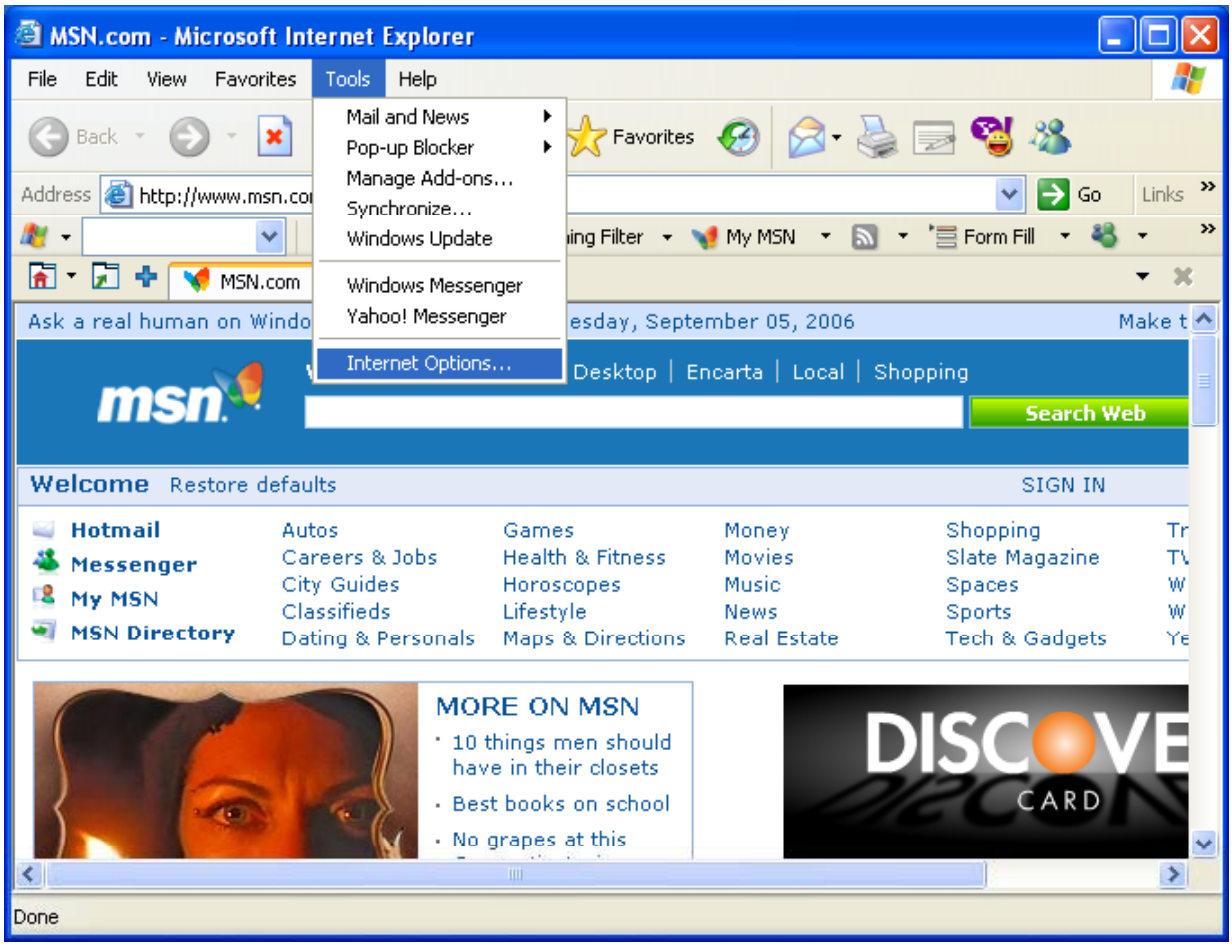


Software Installation

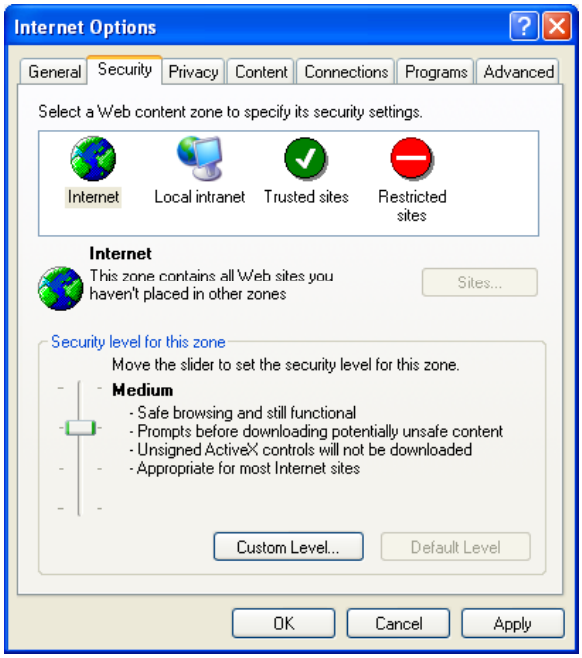
Enabling Active X

Your browser must have Active X enabled to connect to the IP camera. To enable Active X on your browser:

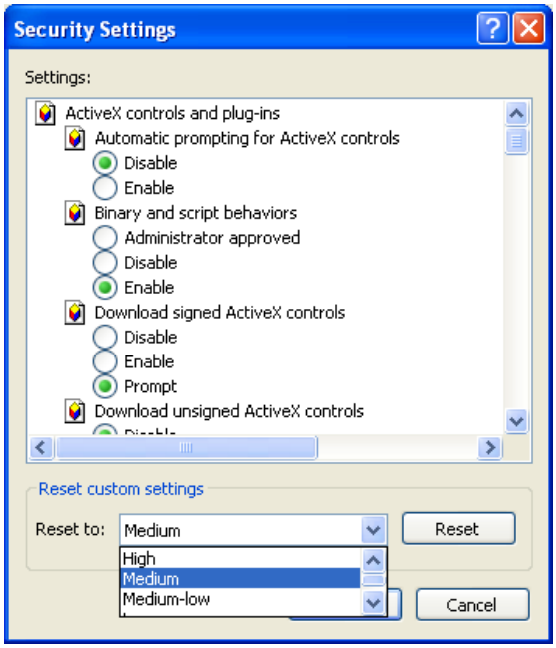
1. Open your internet browser.
2. Click on the tool bar at the top of the screen and select "**Tools**"→"**Internet Options...**"



3. Select "**Security**" tab from the internet options menu.

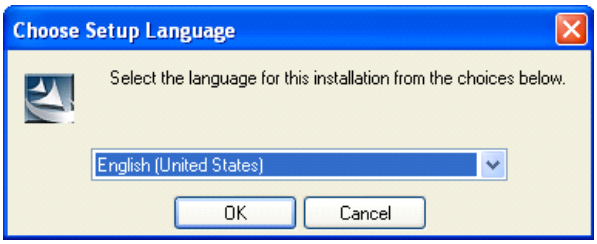


4. Click "**Custom Level**" button and enable all the Active X features in the list and then choose "**Medium**" level from the "**Reset to**" list.



PC Cam Driver and Java Environment Installation

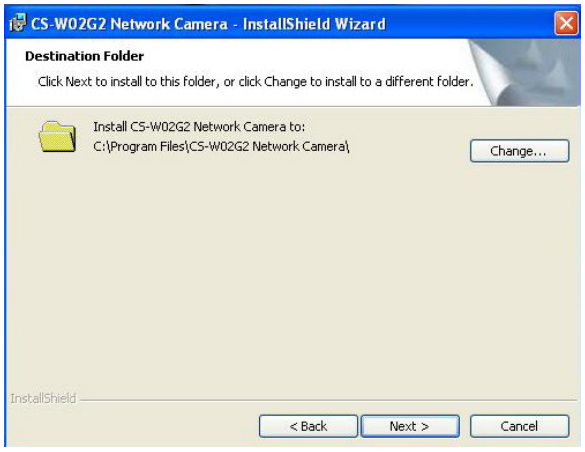
1. Run setup program from software CD



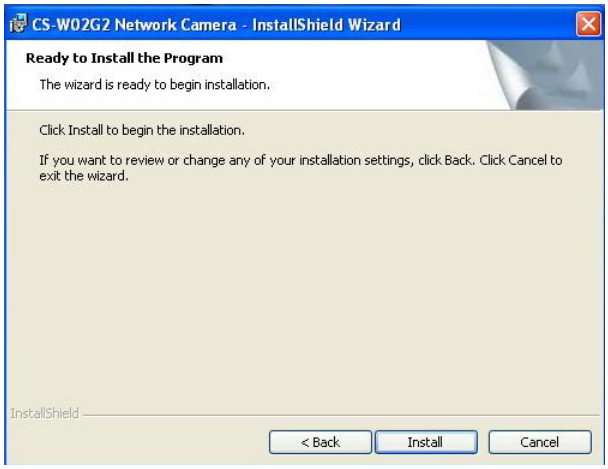
Press "**OK**" to continue setup. If your system has not been installed of Java Run-time Environment, the setup program will install it first and then back to following steps.

2. Click "**Next**"

3. Click "**Next**"



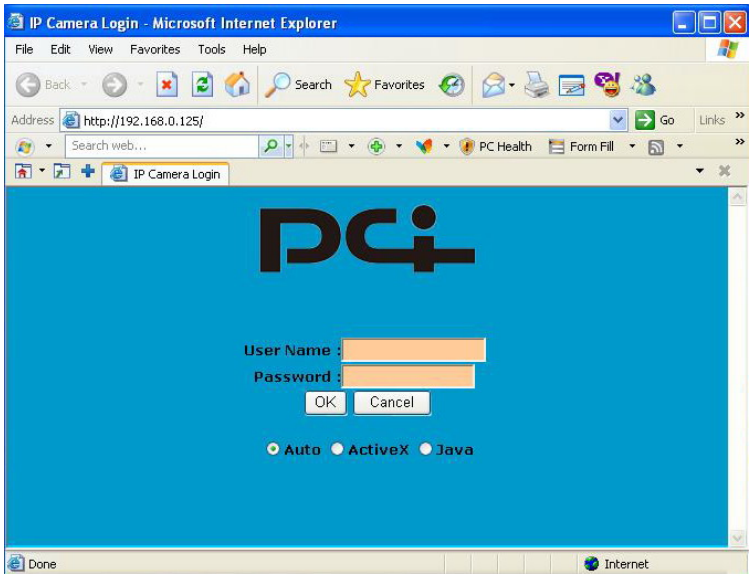
4. Click "**Install**"



5. Click the check box to launch the network search tool and then click "**Finish**"

6. Double click on one of the listed item which you want to use to open web browser window

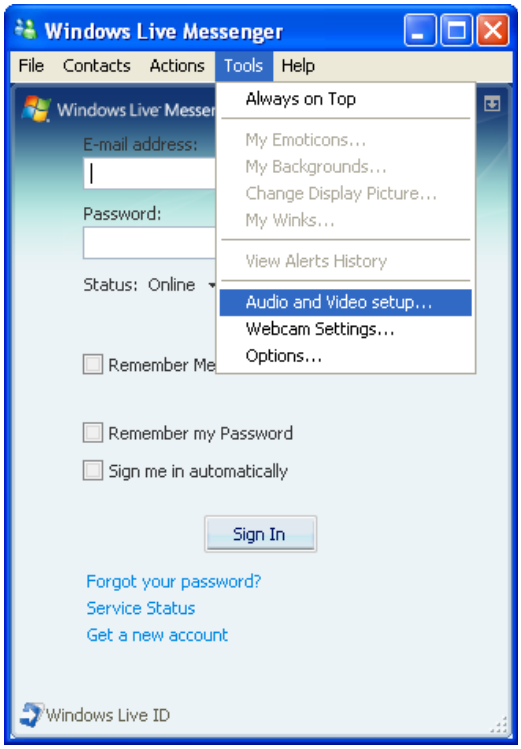
7. Login in as “**admin**”. The default password is “0000”.



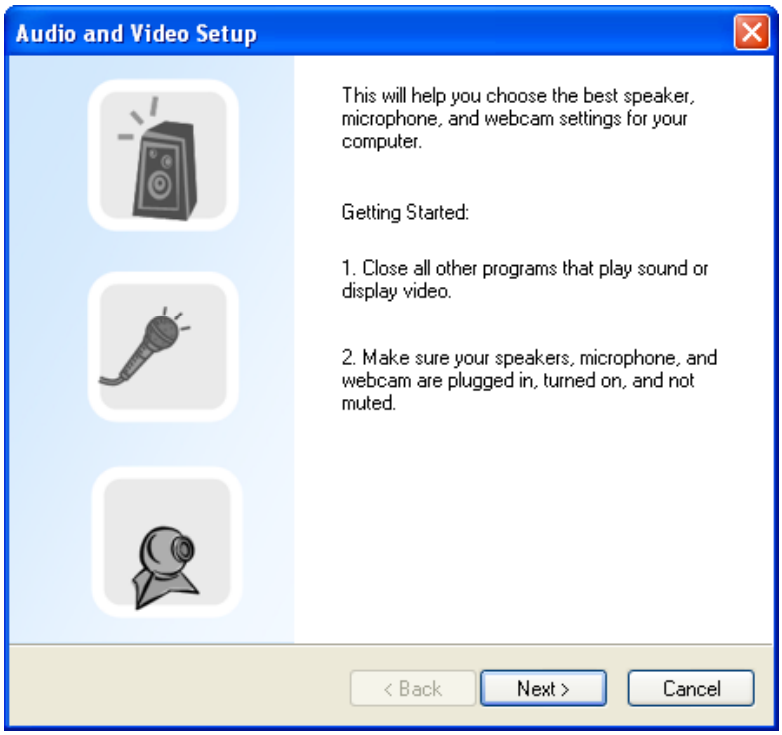
8. Use focus ring to manually adjust the frame to the intended focus.

Using IP Camera with MSN messenger

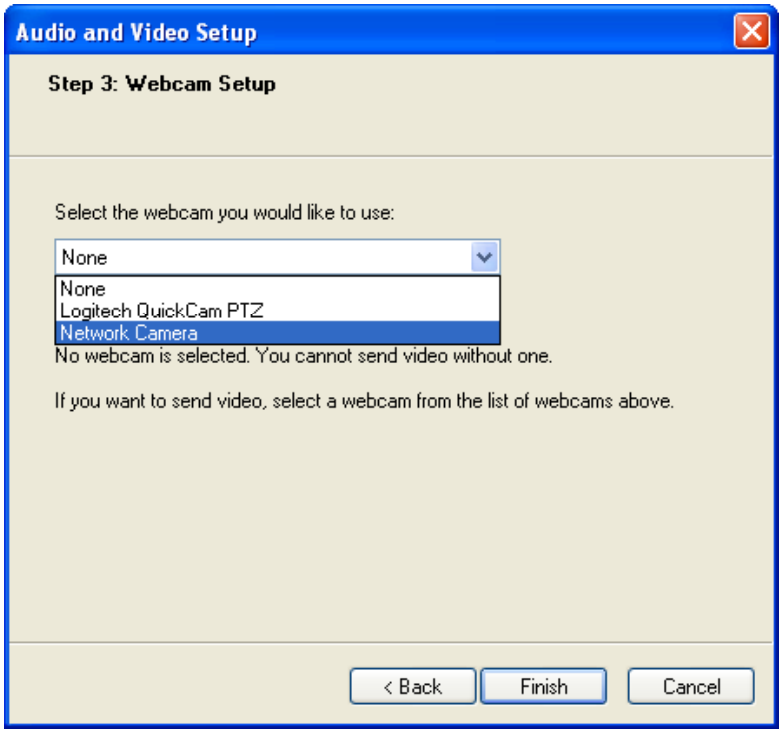
Open MSN, select "**Tools**" and then "**Audio and Video setup...**"



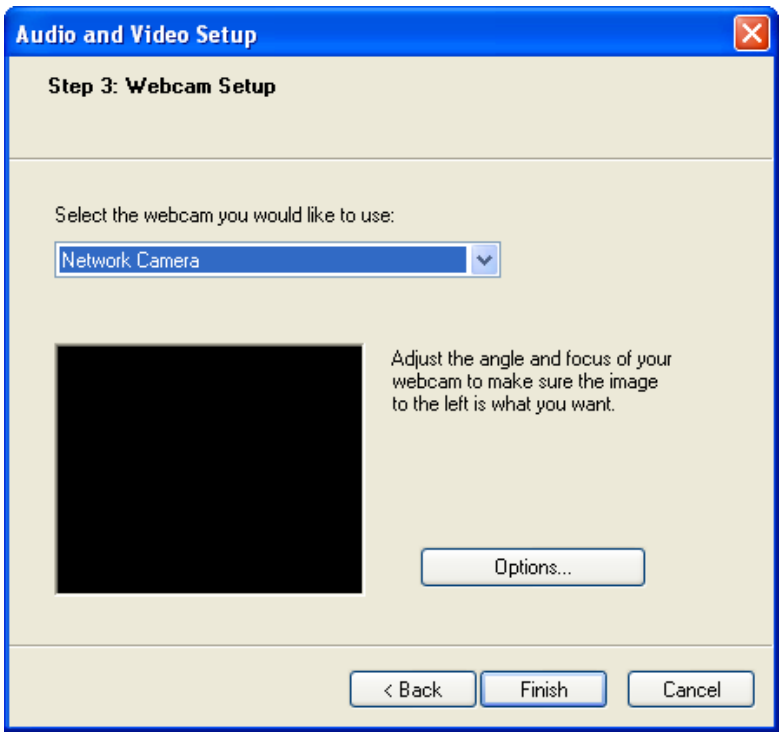
Click "**Next**".



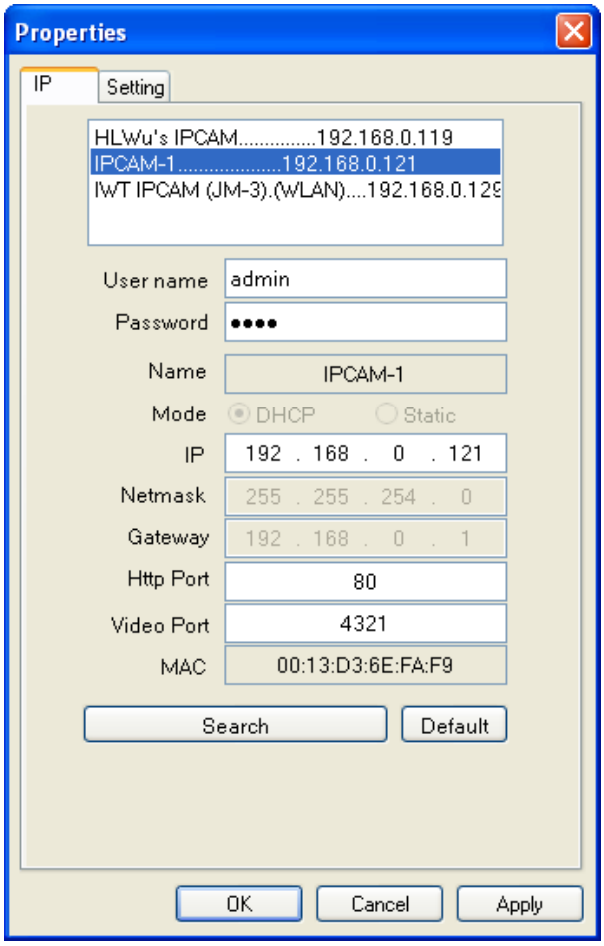
Click next to "**Step 3: Webcam Setup**". Scroll down the list and select "**Network Camera**" and then click "**Finish**".



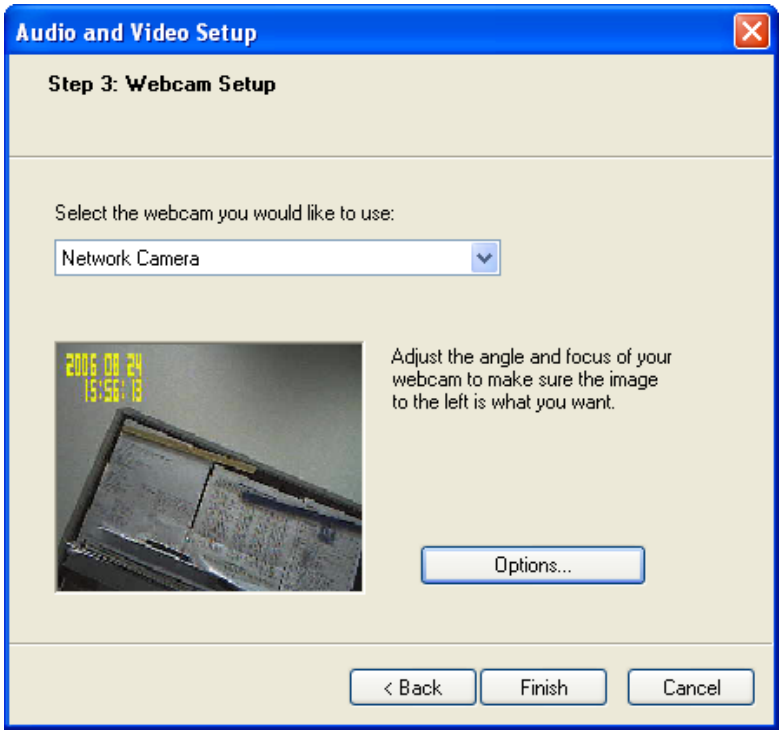
The default screen is blank. Click "**Options...**" to search the IP Camera.



Select the IP Camera which you want to use and then click “**OK**”.

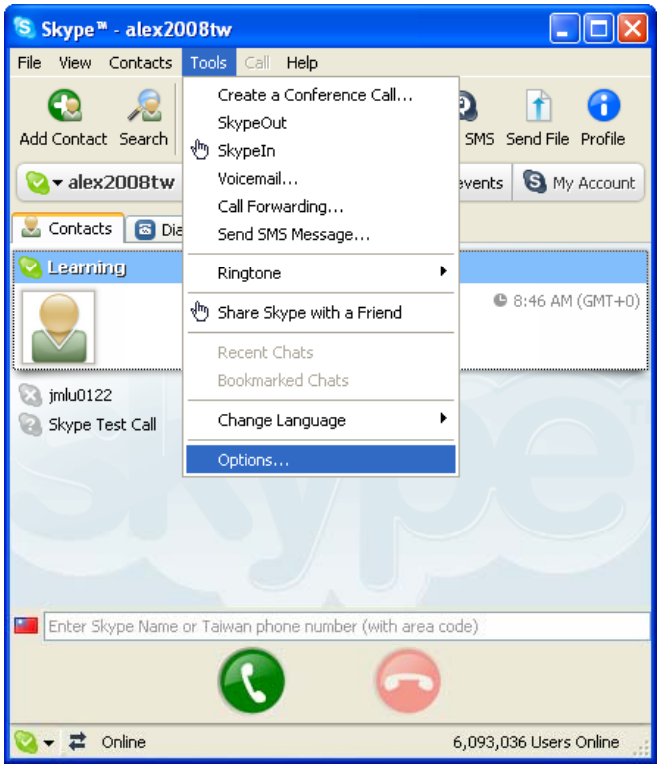


If the screen successfully reflects the viewing image of the IP camera, click “**Finish**”.

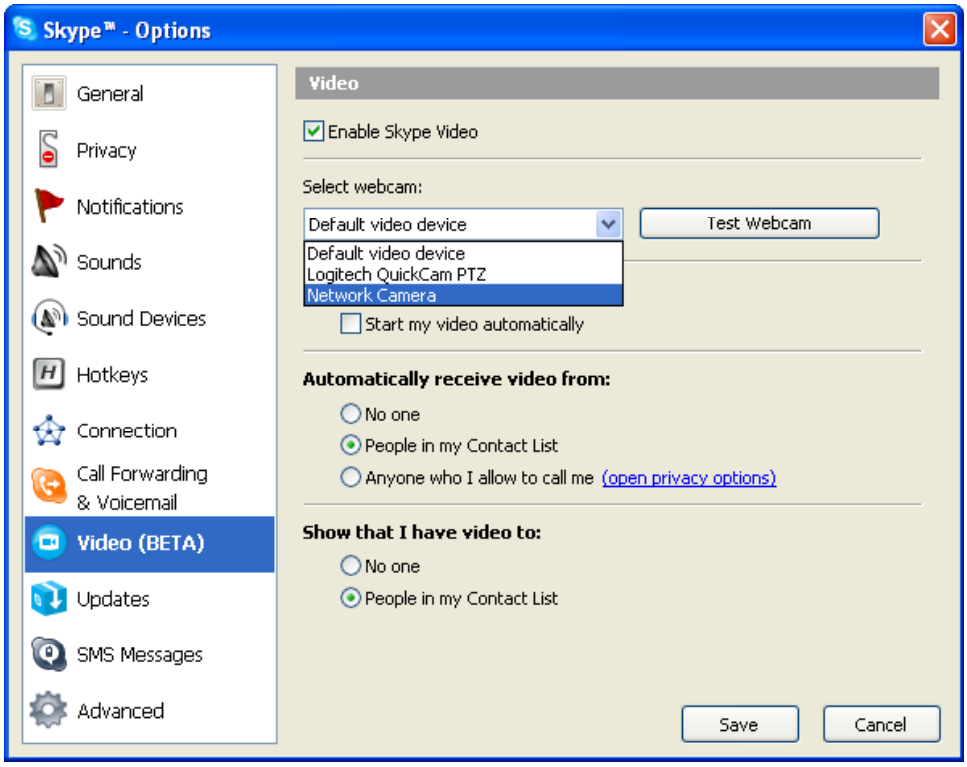


Using IP Camera with Skype

Open Skype, select "**Tools**" and click "**Options...**".

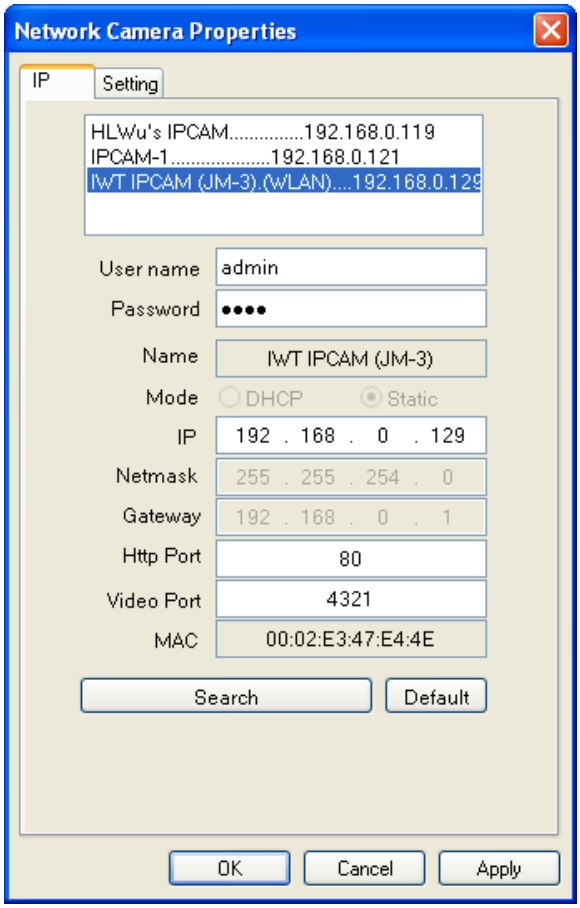


Select "**Video (Beta)**" tab and scroll down the list to select "**Network Camera**". Click "**Test Webcam**".

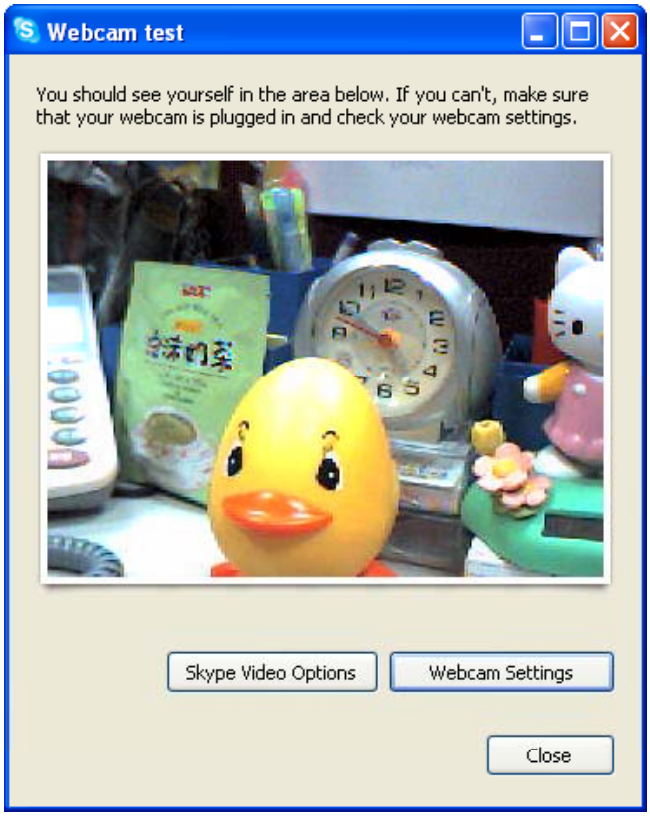


Click “**Webcam Settings**”.

Select the IP Camera which you want to use and then click “**OK**”.

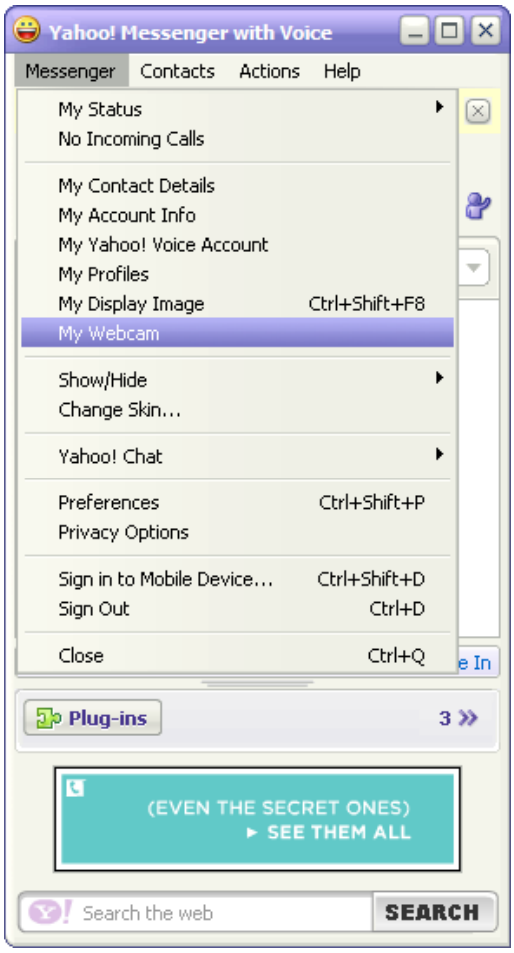


Click “**Close**”.

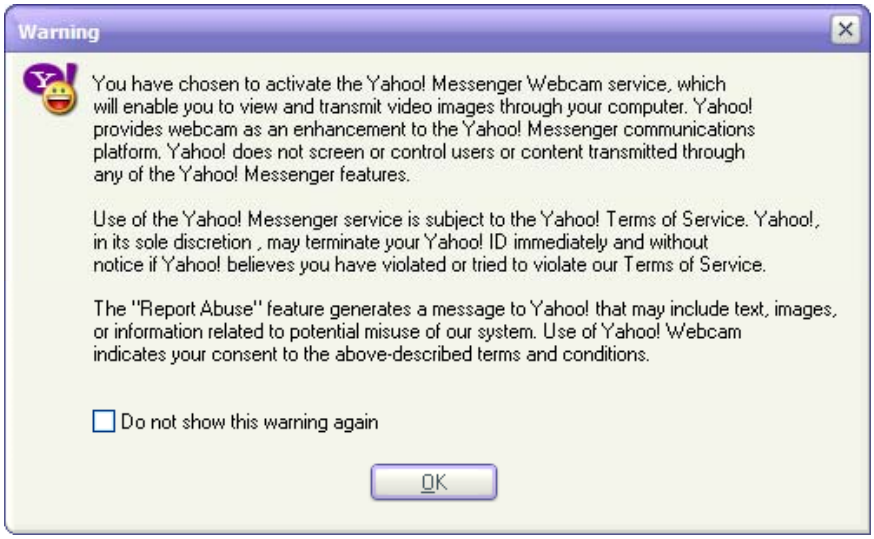

Webcam test
You should see yourself in the area below. If you can't, make sure that your webcam is plugged in and check your webcam settings.
Skype Video Options
Webcam Settings
Close

Using IP Camera with Yahoo! Messenger

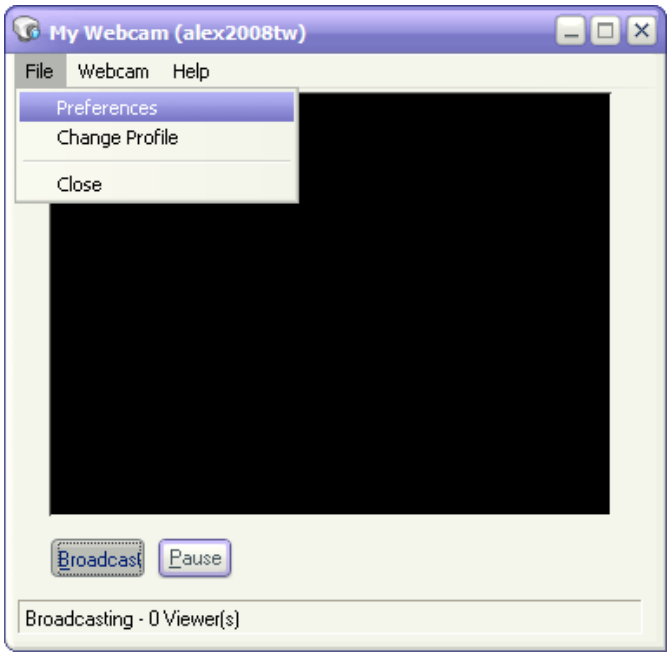
In Yahoo! Messenger, select “**Messenger**” and click “**My Webcam**”.



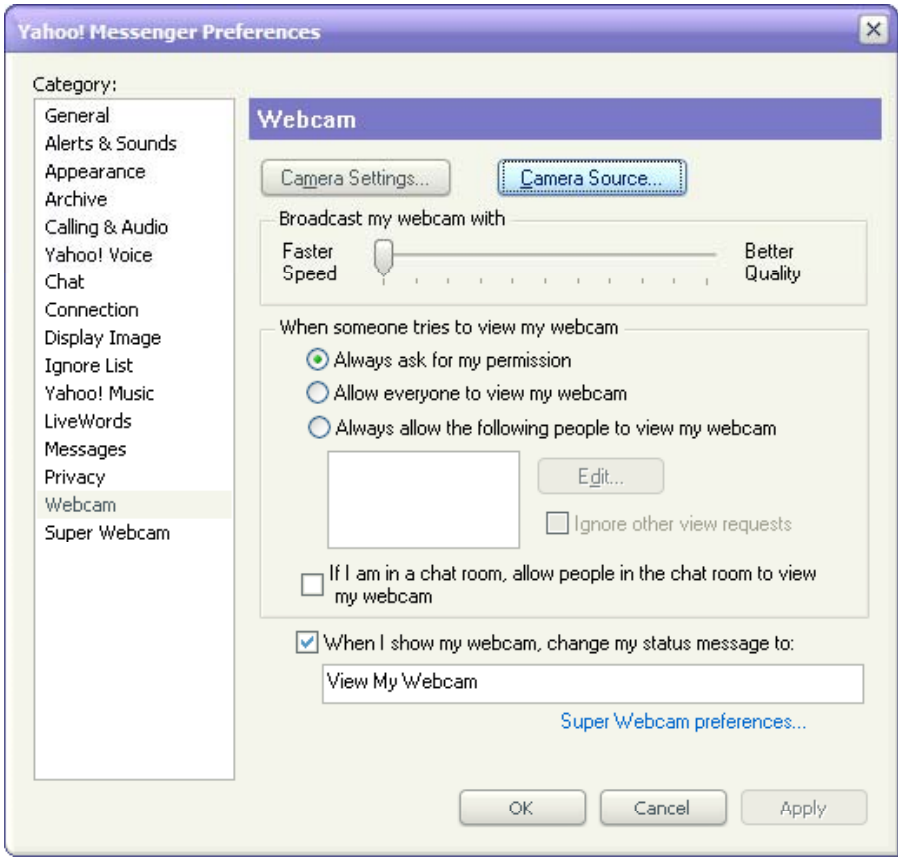
Click “**OK**”.



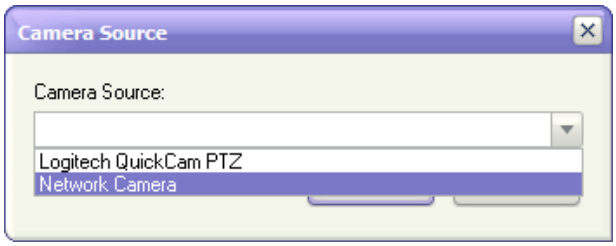
Select “**File**” and click “**Preferences**”.



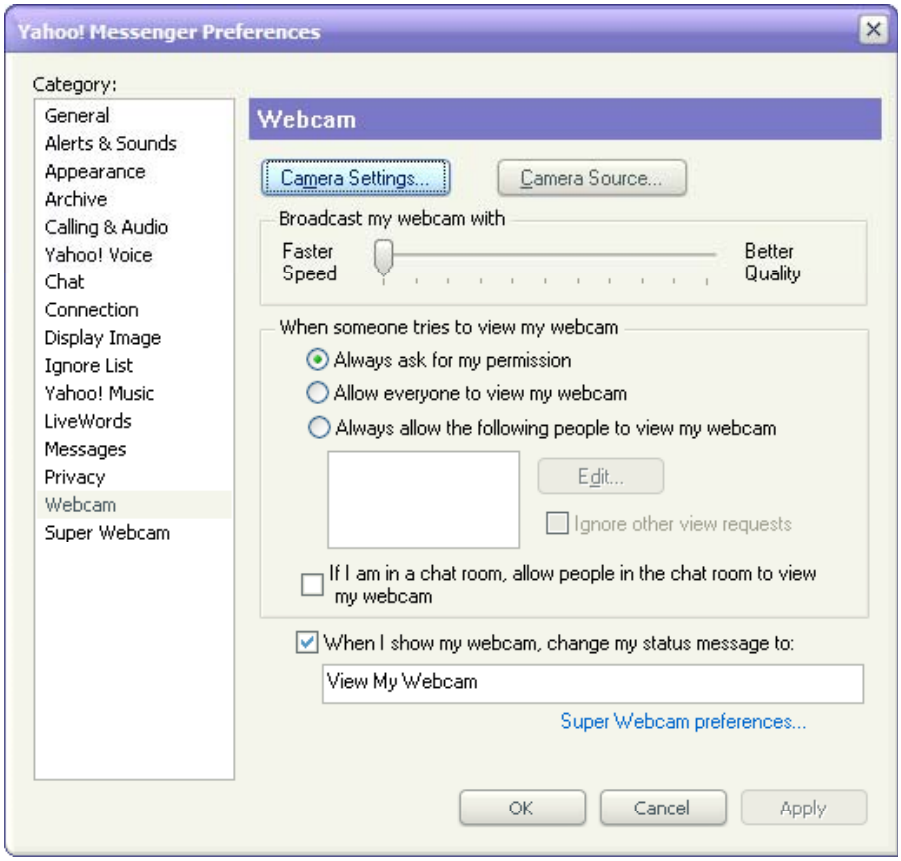
Select "**Webcam**" on the menu and click "**Camera Source…**".



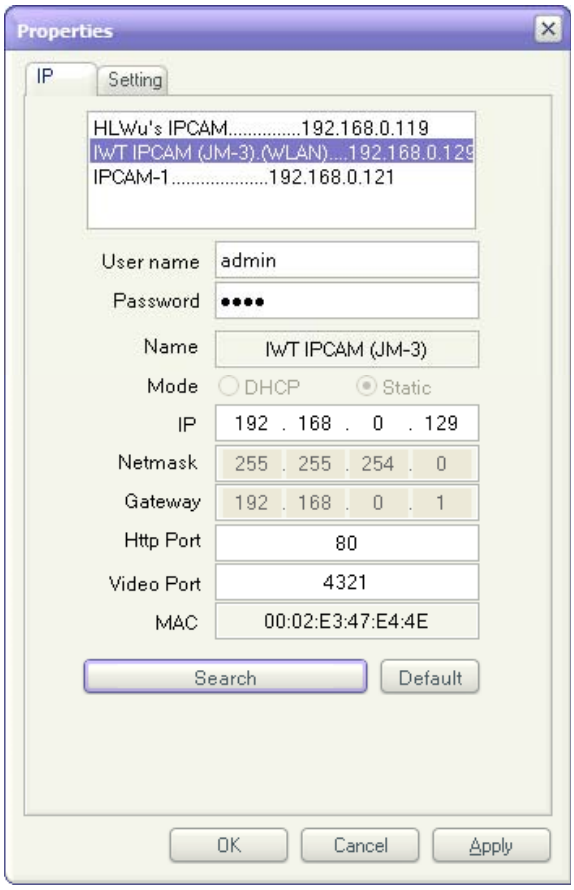
Scroll down the list and select "**Network Camera**" and click "**OK**".



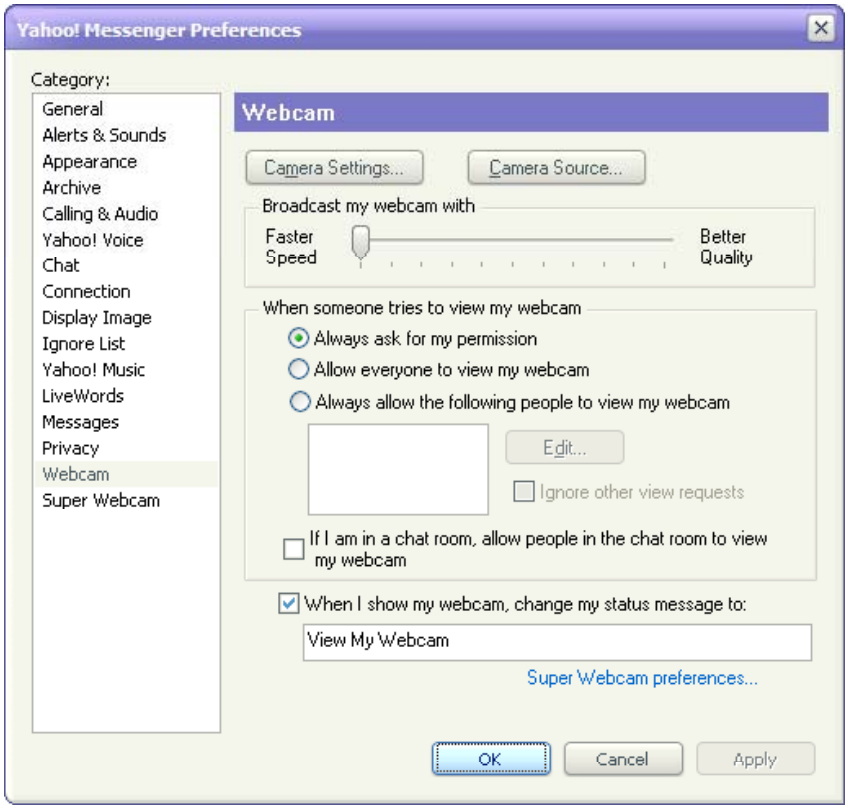
Click “**Camera Settings...**”.



Select the IP Camera which you want to use and click “**OK**”.



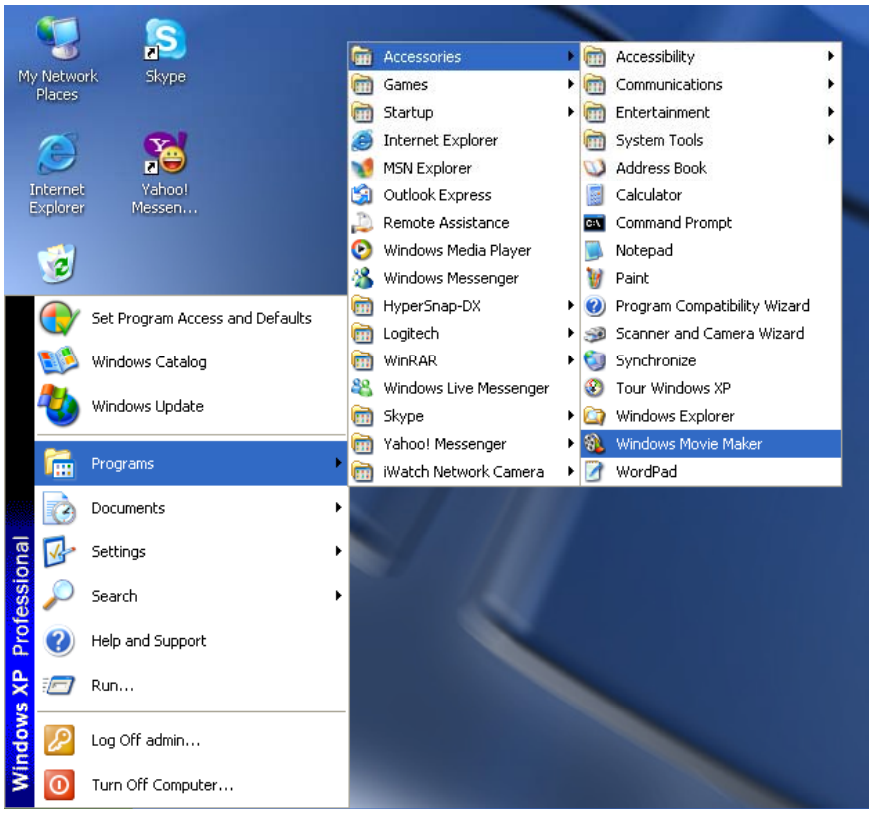
Click “**OK**” to finish.



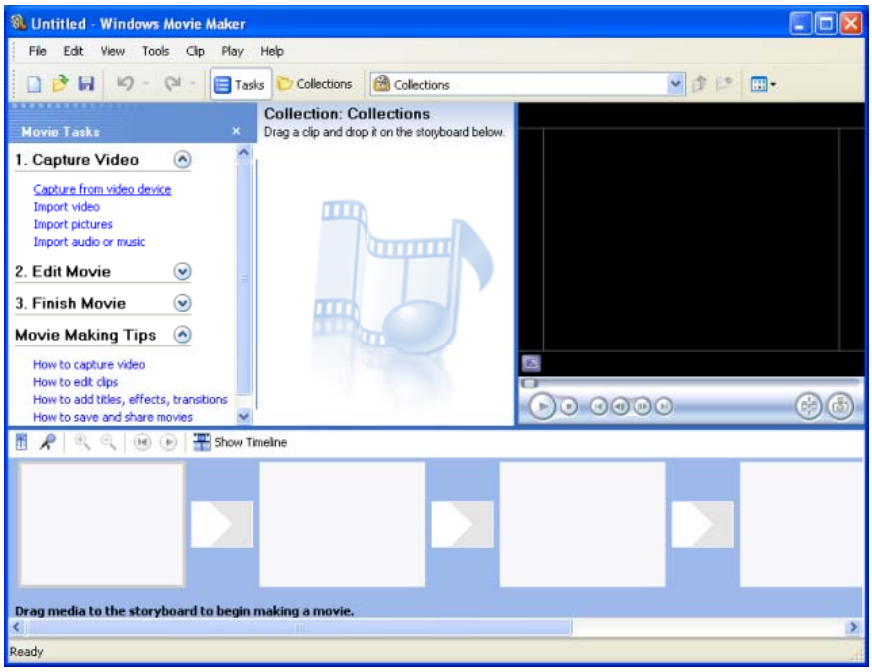
If successfully setting up CS-W02G2, My Webcam screen will show video from CS-W02G2.

Using IP Camera with Windows Movie Maker

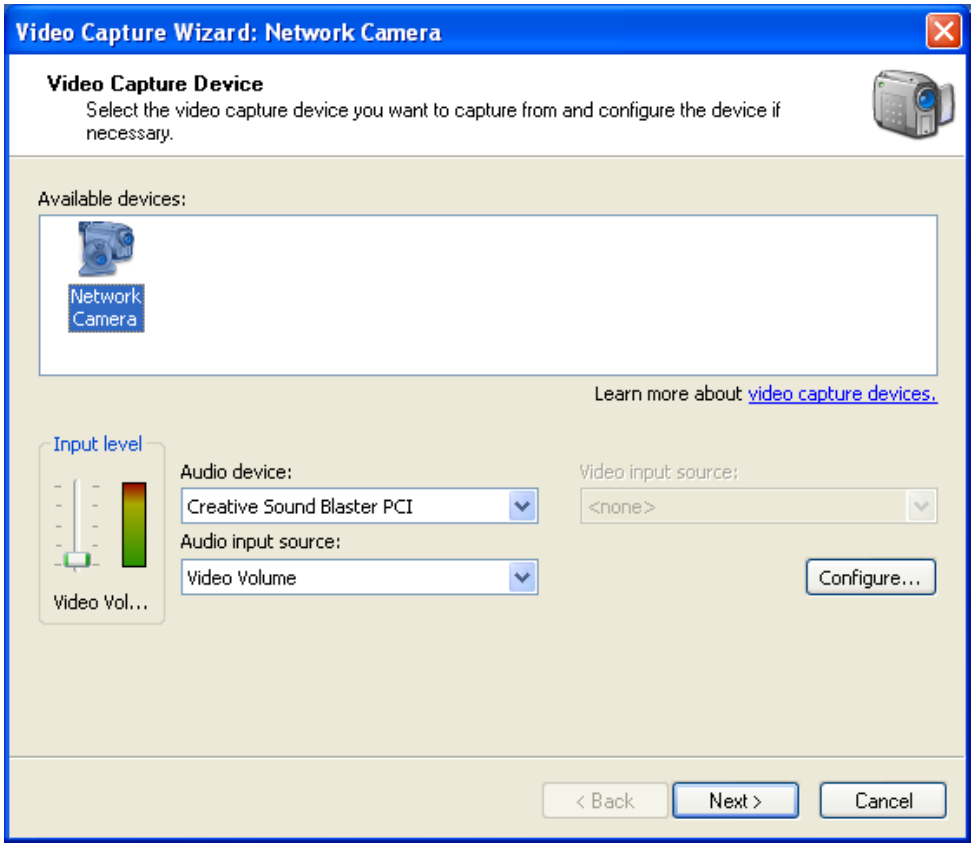
Launch Windows Movie Maker from "**Start**"→"**Programs**"→"**Accessories**". (Note: Windows Movie Maker is available for Windows XP SP2 or later)



Select “**capture from video device**”.

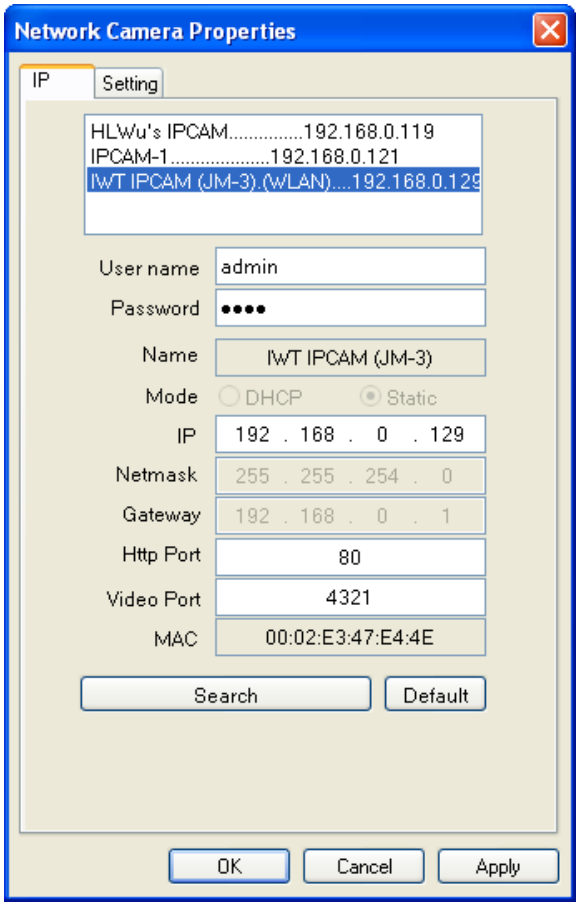


Select “**Network Camera**” and click “**Configure...**”.

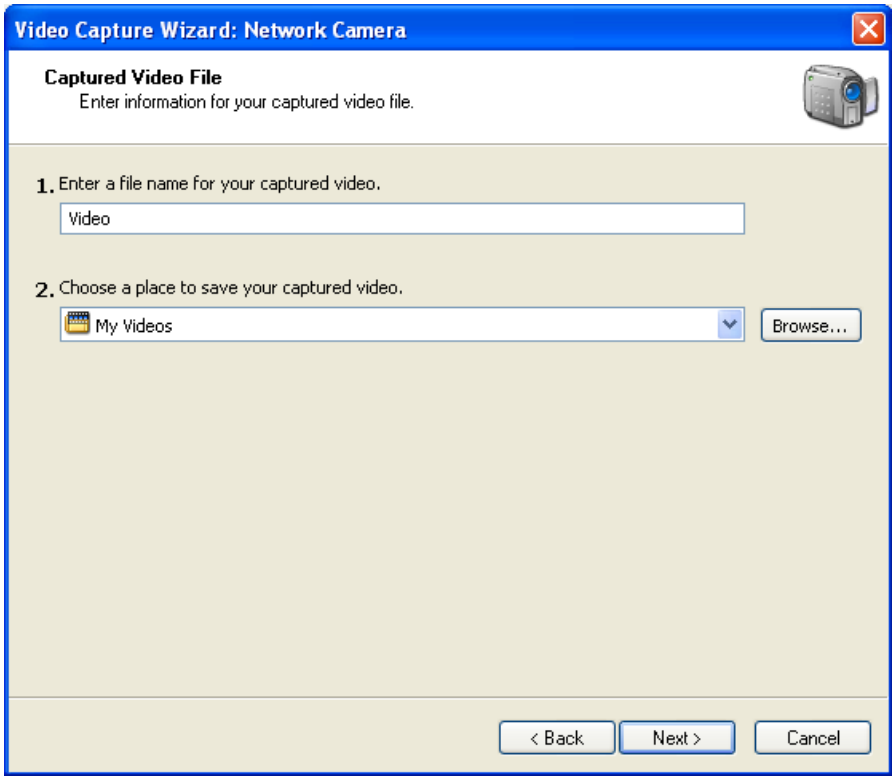


Click “**Camera Settings**”.

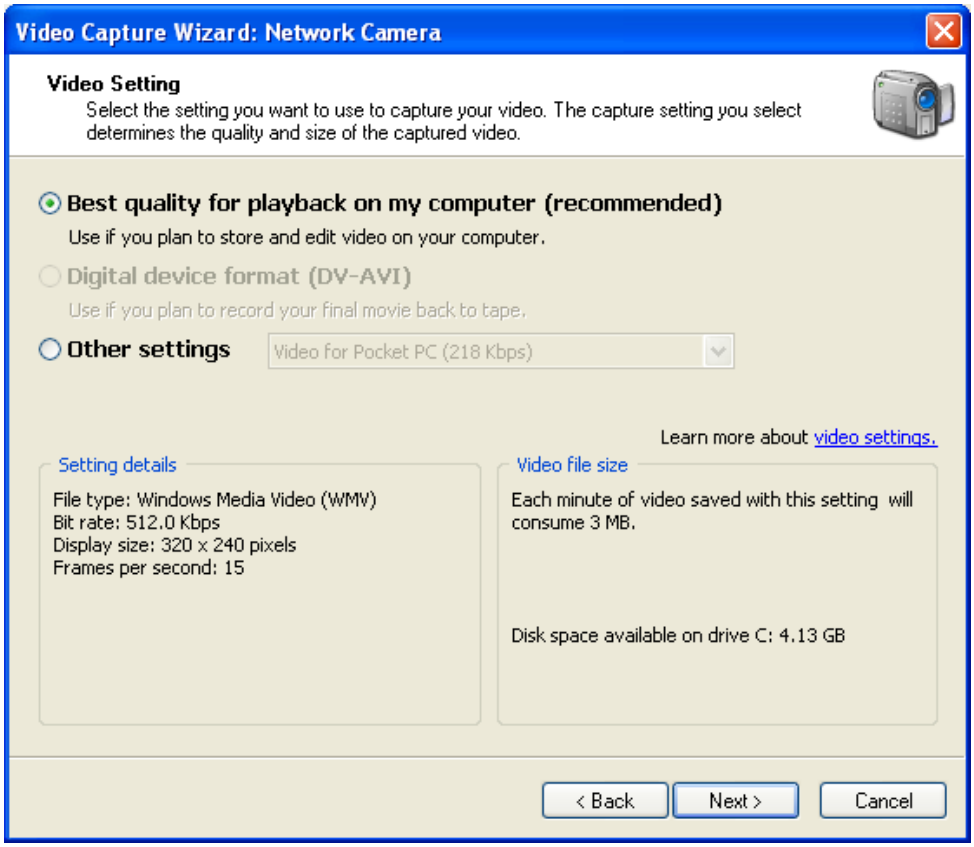
Select the IP Camera which you want to use and then click “**OK**”.



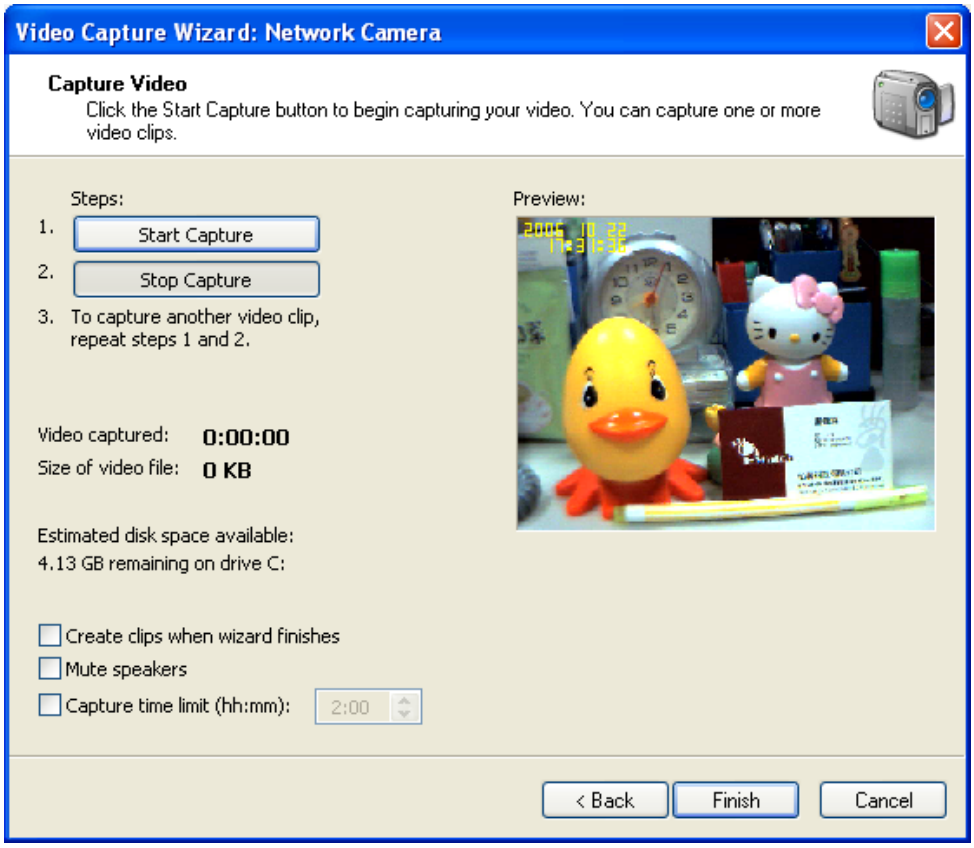
Click "**Next**".



Click "**Next**".

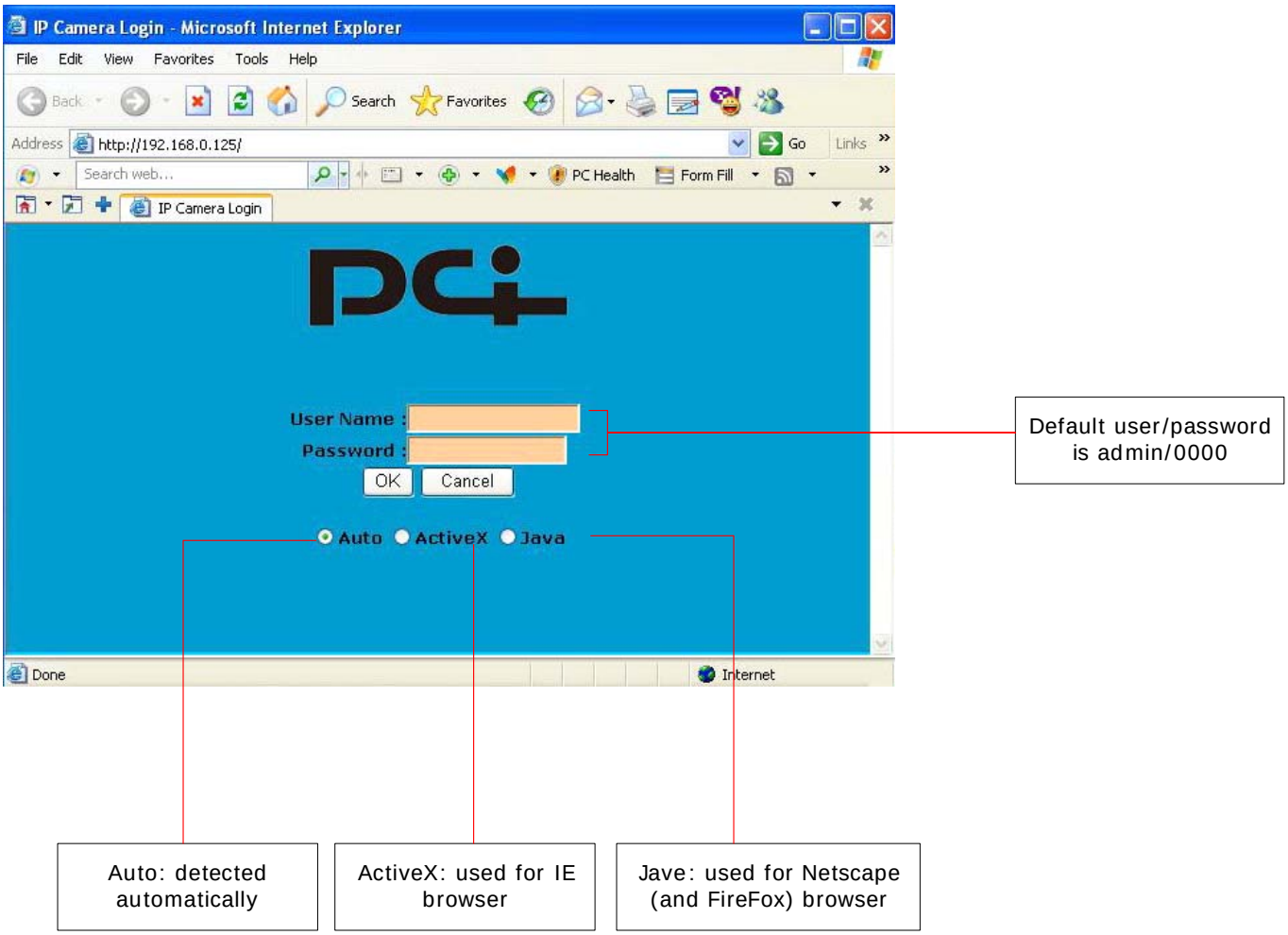


Click “**Start Capture**” to start recording, “**Stop Capture**” to stop, and “**Finish**” when finished.



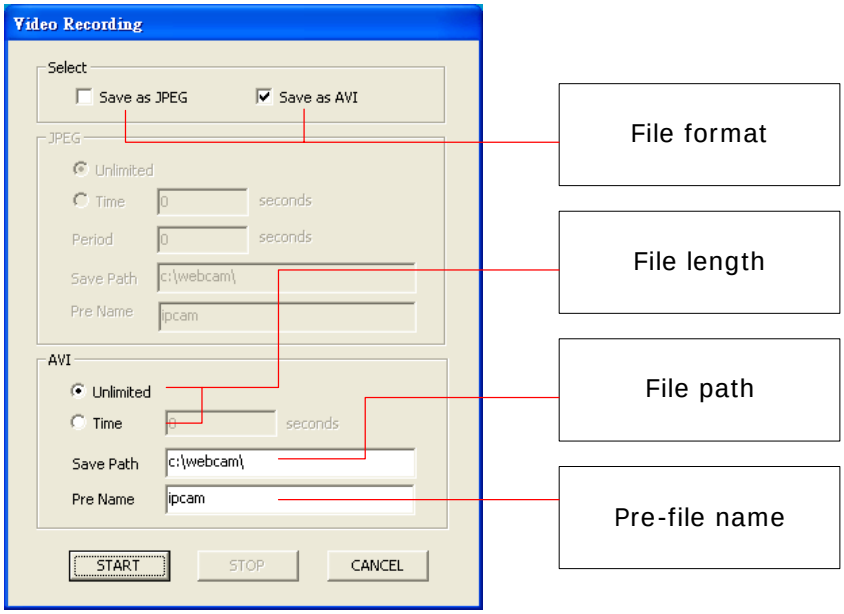
System Definitions

Login Window



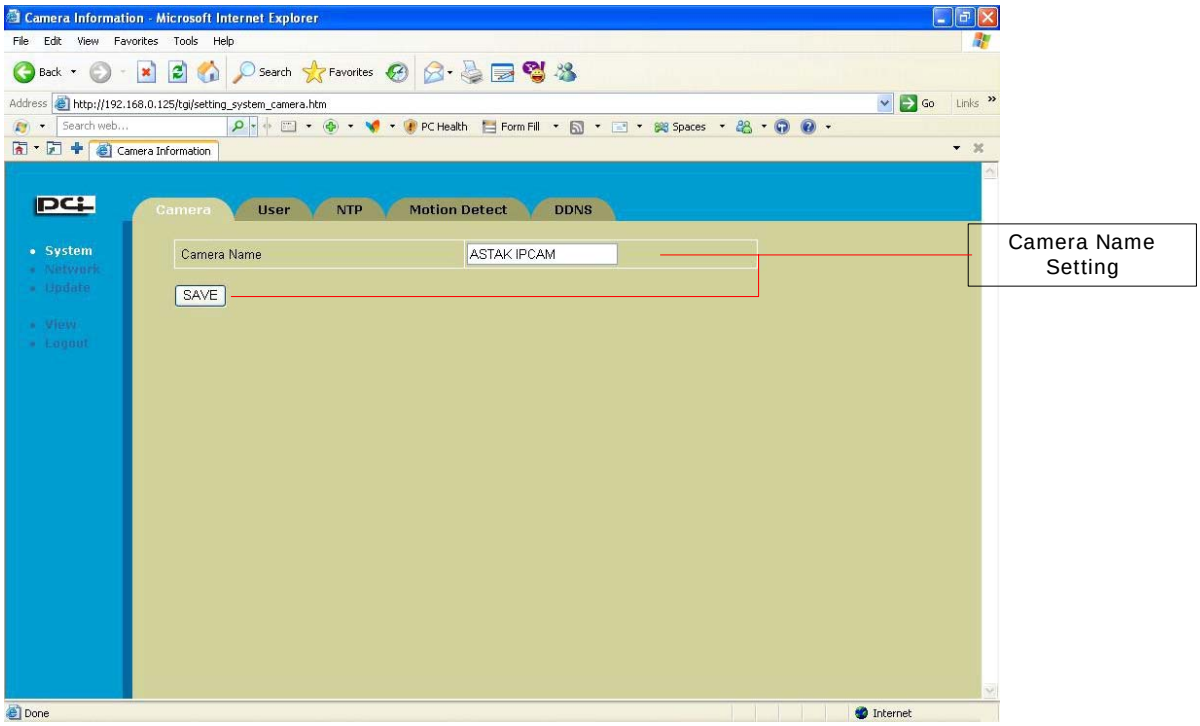
View Window

Network Camera - Microsoft Internet Explorer
ASTAK IPCAM
2006 12 13
17:44:43
Show status
Resolution
Quality
Record
Snapshot save in c:\webcam
Size
640x480
Quality
High
Contrast
High
Brightness
High
Sharpness
High
Saturation
Highest
Time OSD
Yellow
Frequency
60Hz
Video Setting
SAVE
640x480 user1 5.34fps
boot since 2006/12/13 17:36
Digital Pan/Tilt
Snapshots (to c:\webcam)
Logout
IP Cam Settings
Digital Zoom-in/ Zoom-out
Image Setting
On-screen display (OSD) (time stamp)
CMOS sensor Refresh rate
Recording (left click and then right click) in viewing area
Status: resolution/number of user/frame rate
Note: if displayed in red, it means motion detection occurs
Status: IP Camera boot time

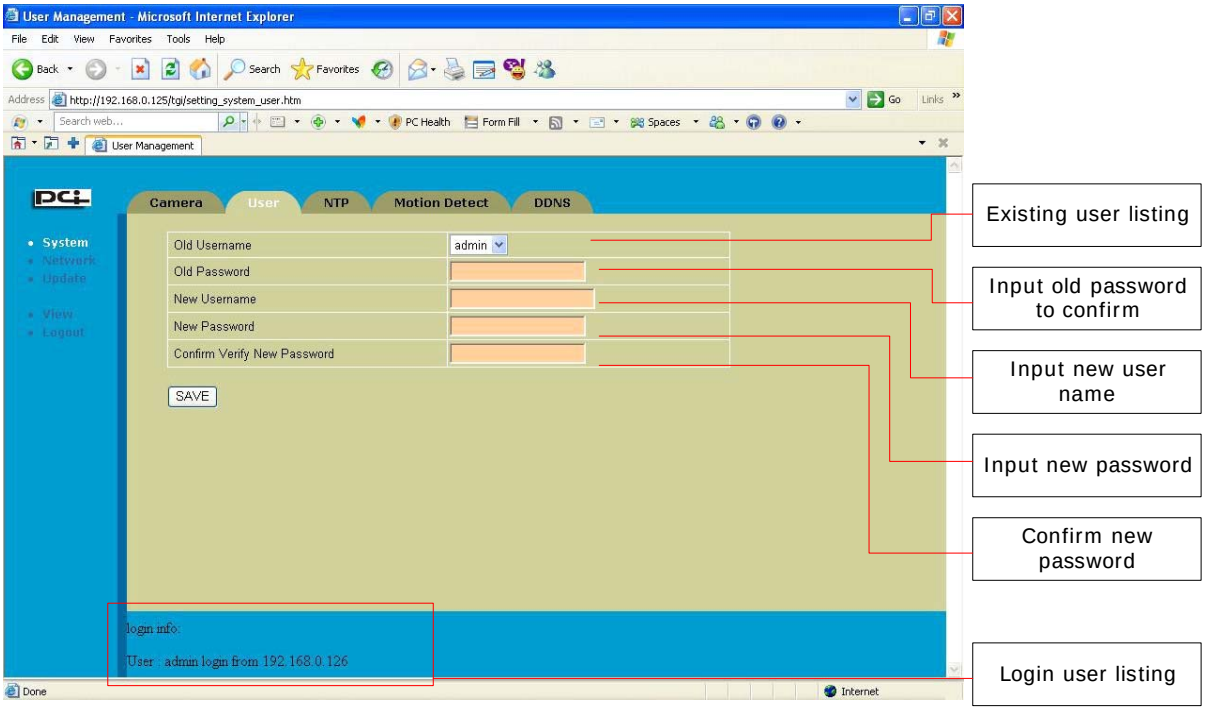

Video Recording
Select
Save as JPEG
Save as AVI
JPEG
Unlimited
Time
seconds
Period
seconds
Save Path
c:\webcam\
Pre Name
ipcam
AVI
Unlimited
Time
seconds
Save Path
c:\webcam\
Pre Name
ipcam
START
STOP
CANCEL
File format
File length
File path
Pre-file name

System

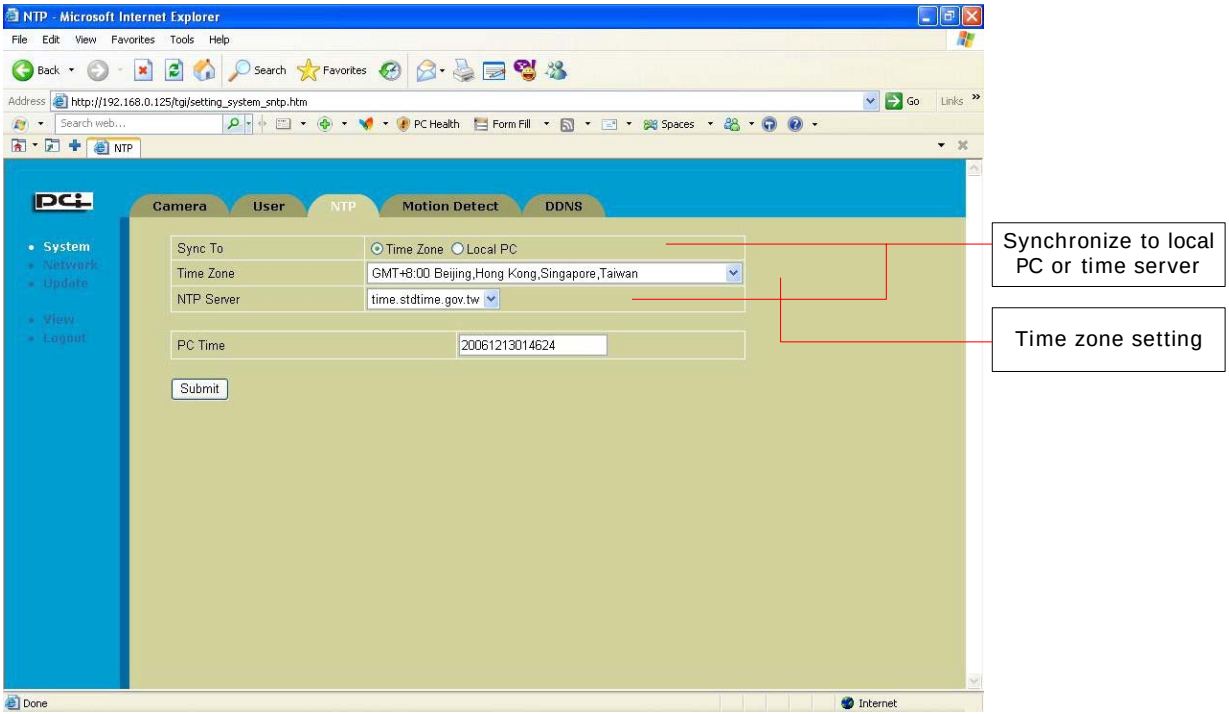
Camera



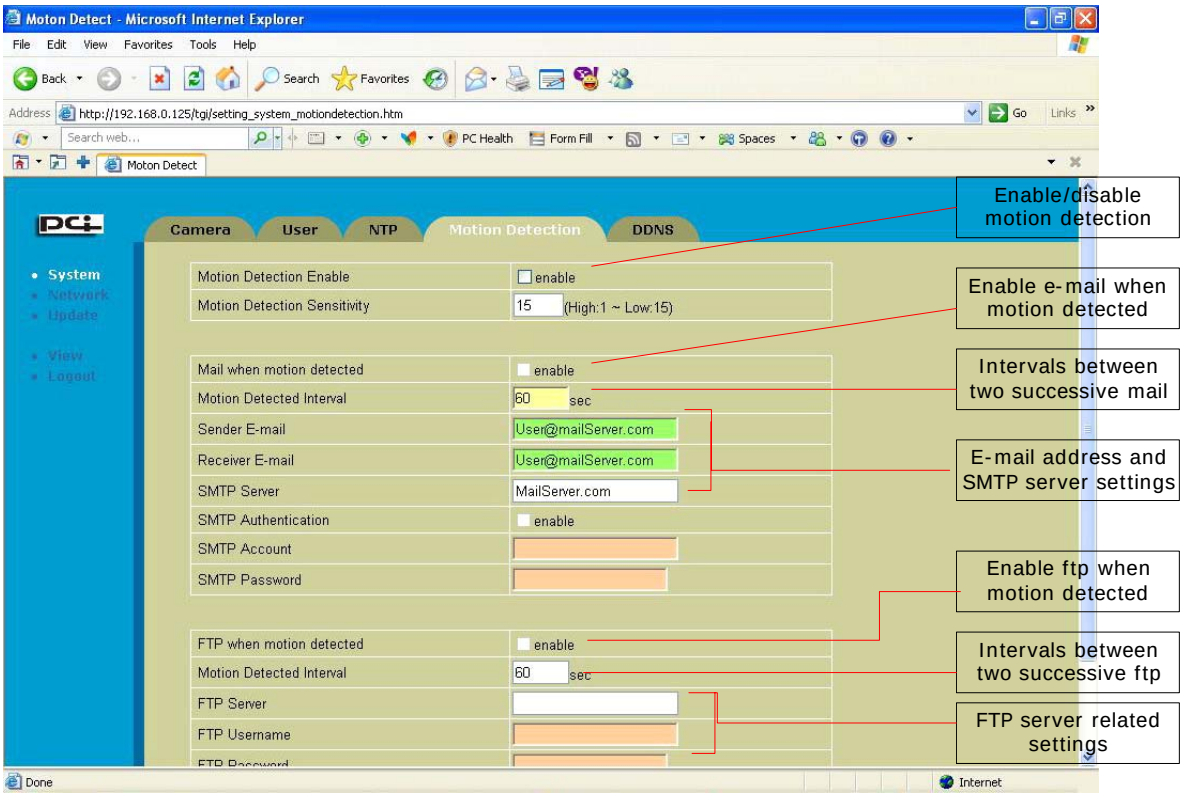
User


User Management - Microsoft Internet Explorer
http://192.168.0.125/tgi/setting_system_user.htm
Camera
User
NTP
Motion Detect
DDNS
System
Network
Update
View
Logout
Old Username
admin
Old Password
New Username
New Password
Confirm Verify New Password
SAVE
login info:
User : admin login from 192.168.0.126
Existing user listing
Input old password to confirm
Input new user name
Input new password
Confirm new password
Login user listing

NTP


NTP - Microsoft Internet Explorer
http://192.168.0.125/tgi/setting_system_sntp.htm
Camera
User
NTP
Motion Detect
DDNS
System
Network
Update
View
Logout
Sync To
Time Zone
Local PC
Time Zone
GMT+8:00 Beijing,Hong Kong,Singapore,Taiwan
NTP Server
time.stdtime.gov.tw
PC Time
20061213014624
Submit
Synchronize to local PC or time server
Time zone setting

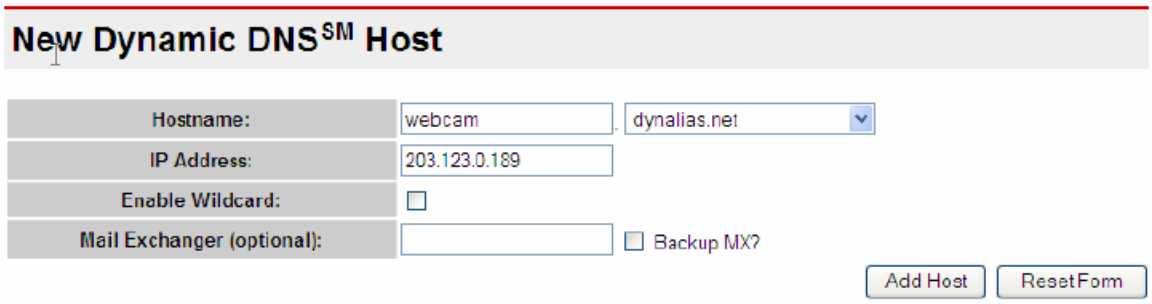
Motion Detection



DDNS

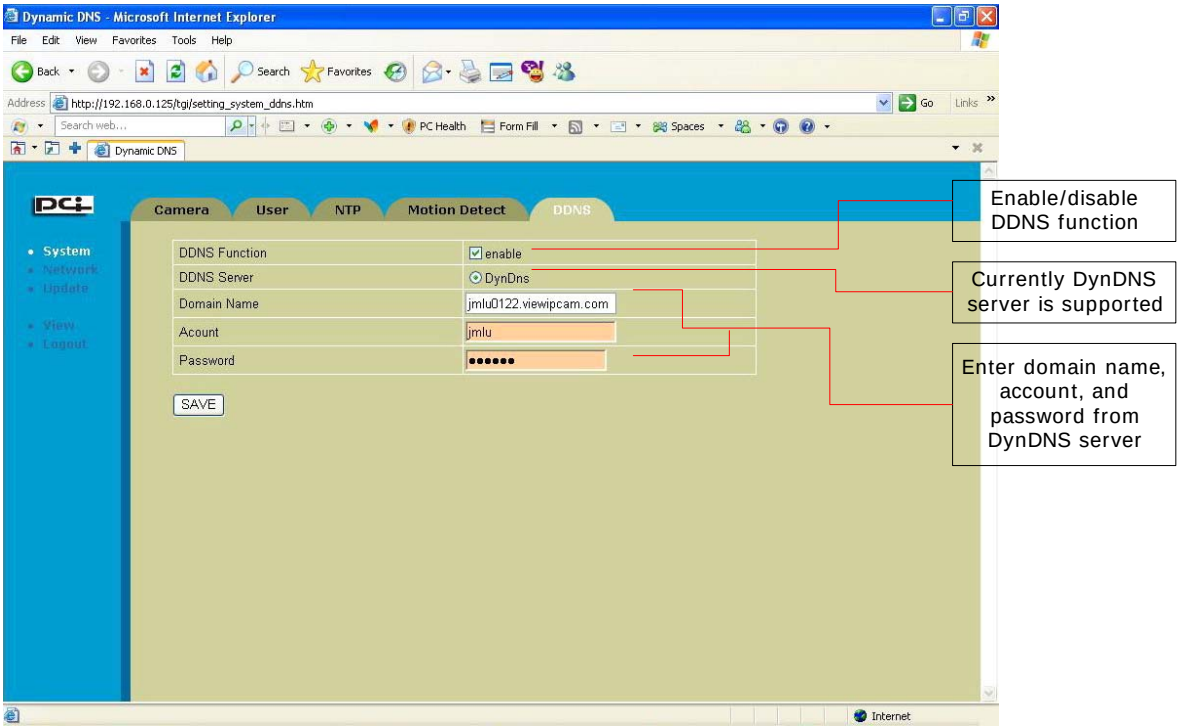
Step 1、Example of Creating an Account

1. First, please go to www.dyndns.org and create an account there.
2. After creating an account with your preferred e-mail, go to DNS Services, Dynamic DNS. There provides free DNS service for those whom have dynamic Public IP addresses.
3. Create your preferred hostname, e.g. "**webcam**". And select the domain name from the drop down list. After that, your IP address, for example "**203.123.0.189**" will be automatically shown on the IP Address column.
4. Click "**Add Host**".



Step 2、Login to CS-W02G2 Configuration Page

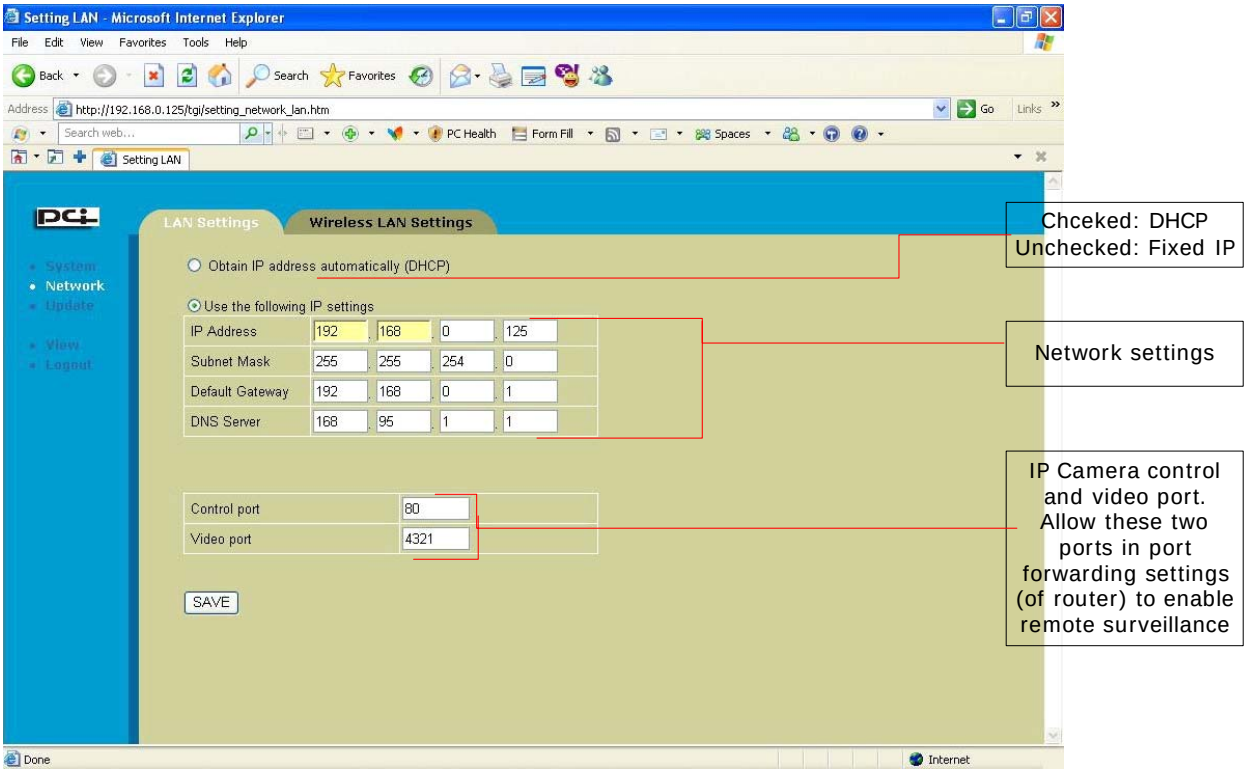
1. Login to your IP camera with the local IP address. And enter "**System**"→ "**DDNS**".
2. Check the check box to enable DDNS function.
3. Choose the DDNS provider. (Currently only supports DynDNS server)
4. Enter the Hostname, for example "webcam.dynalias.net". And enter your Account/Username and Password.
5. Click "**Save**" to save the settings.



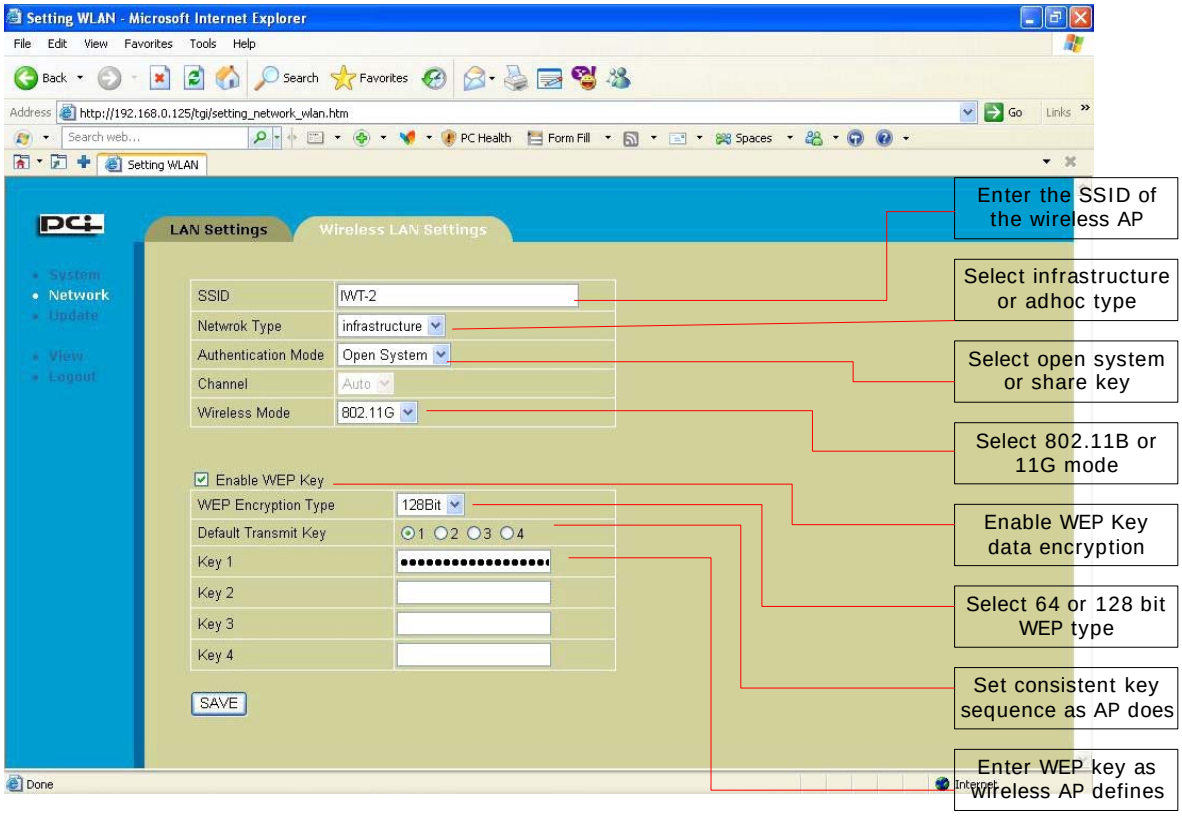
Different routers have different web interface, so you have to remember to open **port 80** on your router for CS-W02G2.

Network

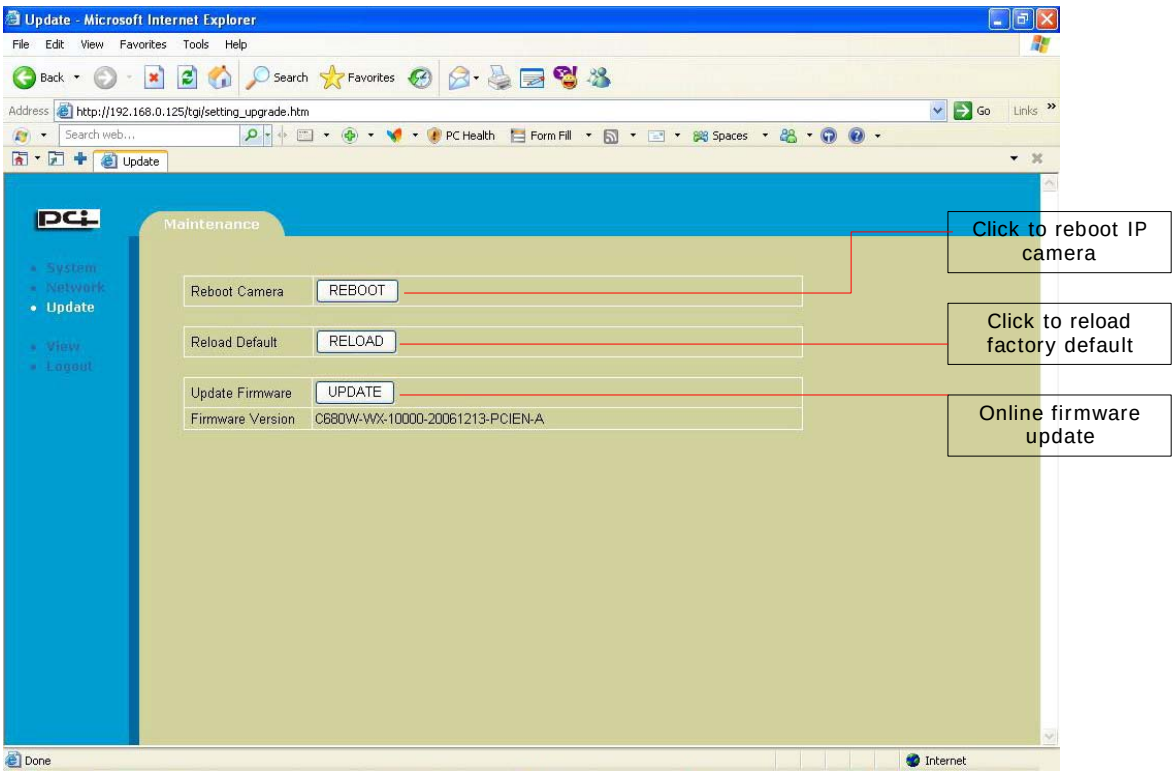
LAN Settings



Wireless LAN Settings



Update



Technical Specification

Specifications			
Models	i-Watch 130L i-Watch 130W: With additional wireless interface	Supported protocols	TCP/IP, SMTP client, HTTP server, FTP client, DHCP client, NTP client, DDNS
Image Sensor	1/4" Progressive Scan CMOS sensor 1.3M pixels. Minimum illumination: 2.0 lux @ F2.0	Reset button	Use stick to touch reset button to restore factory default settings
Lens	Fixed focal (6.0 mm, F2.0) with fine tuning Viewing angle 60°	Motion Detection	15 level sensitivity Snapshots transmitted via e-mail/ftp
Video Compression	Motion JPEG 5 level quality selection	OSD function	Image can be overlaid with timestamp
Resolutions	Up to 20 frames at 160x120 Up to 20 frames at 320x240 Up to 15 frames at 640x480	Security	User access with password protection WEP 64/128 bit data encryption
Image setting	Configurable contrast and brightness Configurable sharpness and saturation 3 level digital zoom	LED indicator	Dual color network connection indicator Green: ethernet Red: wireless LAN
Wireless interface (i-Watch 130W)	IEEE 802.11g 6 - 54 Mbps IEEE 802.11b 1 - 11 Mbps 1 - 11 channels Antenna gain: 2.0 dBi	Supported instant messenger	MSN messenger 7.5 or later Skype 2.5 or later Yahoo! Messenger 7.5 or later
Users	5 simultaneous users	Viewing system requirements	Pentium III CPU 500 MHz or higher, or equivalent AMD 256 MB RAM Windows 2000 and XP Internet Explorer 6.0 or later
Connectors	Ethernet RJ45 DC in connector	Dimensions (HxWxD)	85 x 75 x 44 mm (antenna and stand excluded)
Power	5V DC, 2.0 A 4.5 watts comsumption	Approvals	FCC / CE / RoHS
Operating conditions	5 - 50 °C (41 - 122 °F) Humidity 20 - 80% RH	Package includes	130L/130W network camera Documentation and software CD Ethernet cable (Cat/5e) AC adapter Quick installation guide Warranty card Camera stand bracket