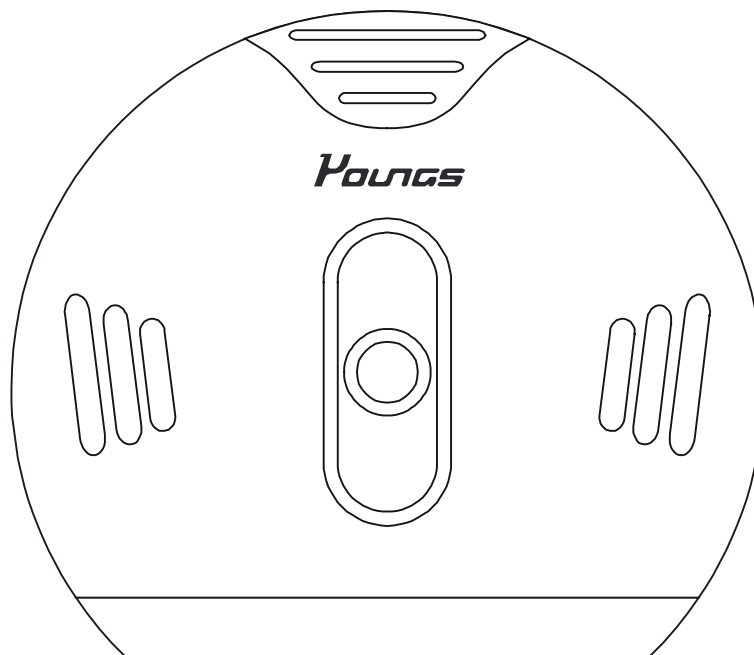


USER'S MANUAL

IPC-S001



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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.

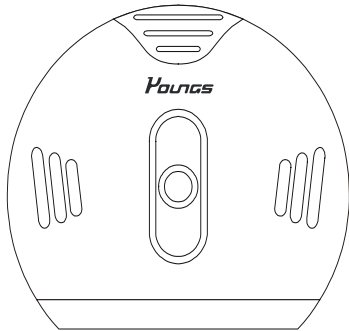
IMPORTANT NOTE:

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.

Package Contents

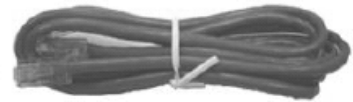
IP Camera



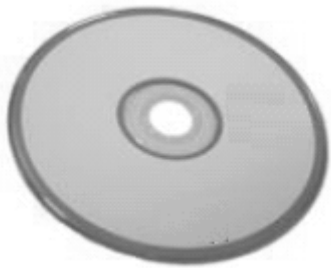
AC adapter



CAT5 Ethernet Cable



Software CD



Quick installation guide



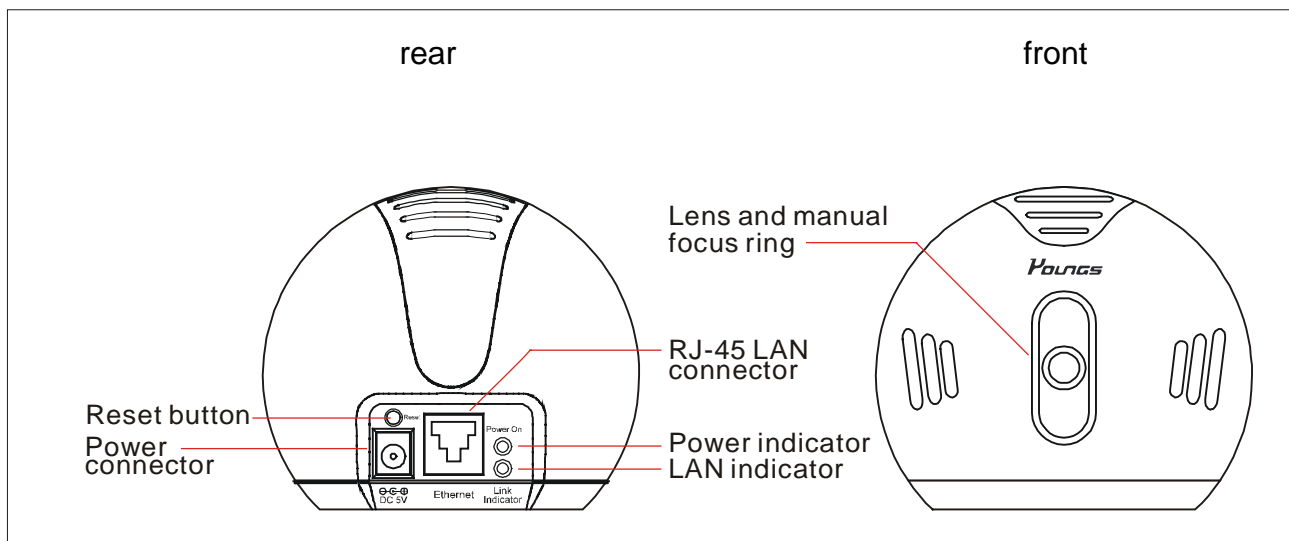
Overview

The IPC-S001 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, IPC-S001 provides excellent image quality with digital pan/tilt/zoom monitoring capability. IPC-S001 comes with a built-in web server that can be viewed via a web browser such as Internet Explorer or Netscape browser. Snapshots and recording can be taken directly from the web interface, which enables easy and clear camera installation. Providing a better way for baby or pet monitoring and video sharing, IPC-S001 IP Camera uniquely features instant messenger interface, turning network camera into a convenient PC camera. IPC-S001 is breaking the rule that conventional network camera follows.

Key Features

- Stand-alone network camera, not need to attach to PC
- Motion JPEG compression engine
- Built-in web server for monitoring via web browser
- Local access through Ethernet, remote access through Internet
- 15 levels motion detection
- Digital pan/tilt/zoom
- Snapshot of 640 x 480 resolution, record, and download through integrated web interface
- 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	Red	System ready
LAN	Red	LAN ready

System Requirements

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

- Microsoft Windows 2000 or XP.
- 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

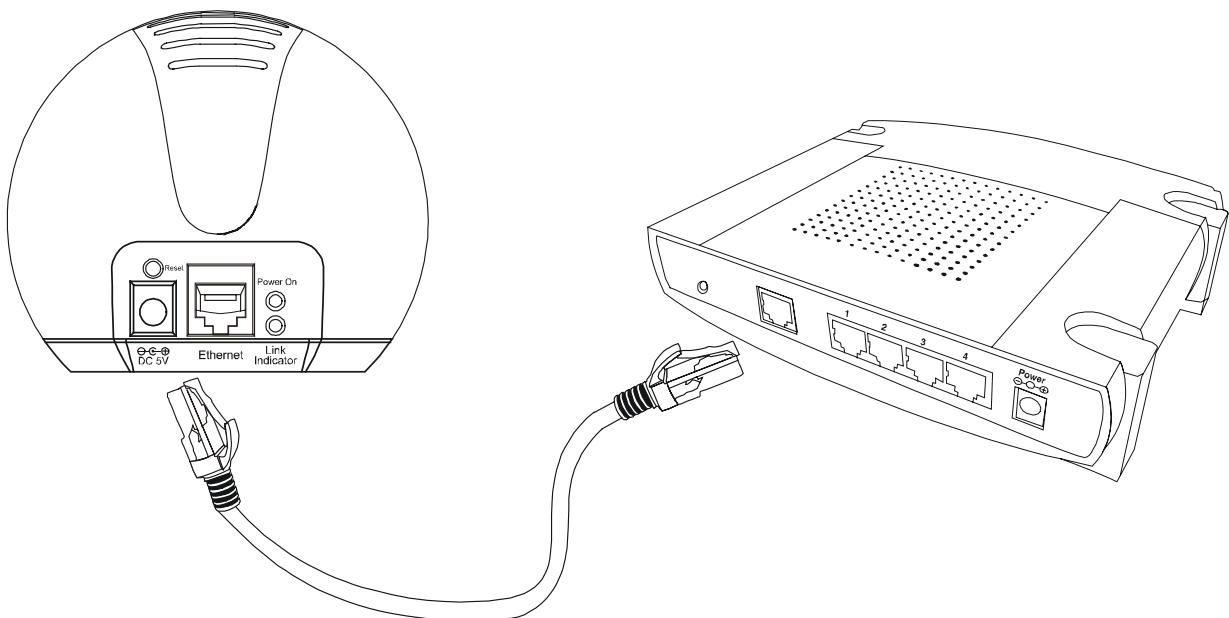
Installation

Hardware Installation

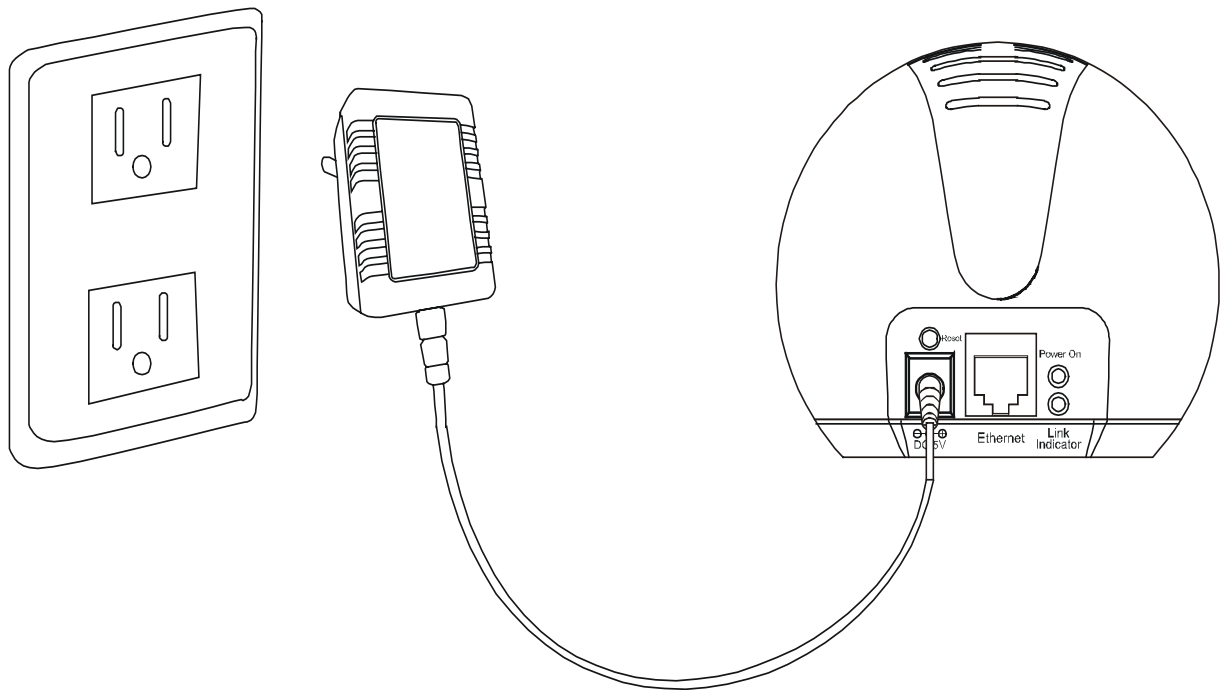
1.Warning

The camera is not waterproof and should NOT be mounted outdoor or in a position where it could become wet.

2. Connect to a network hub

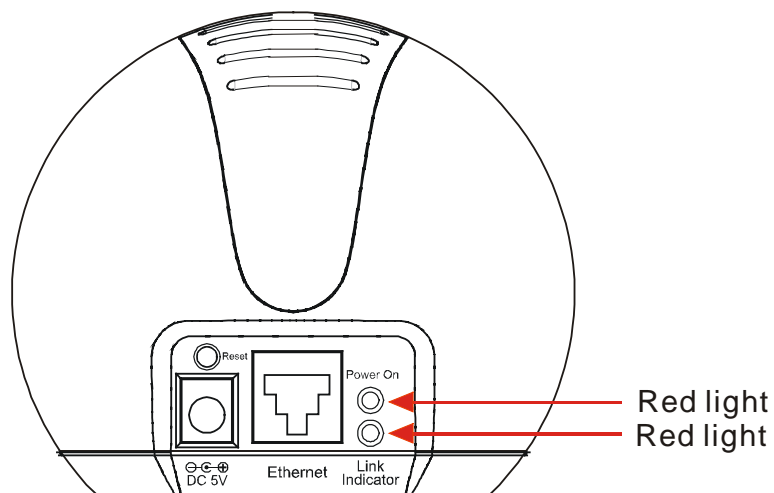


3. Connecting power



4. Check status

Note both two LED lights should turn on



Software Installation

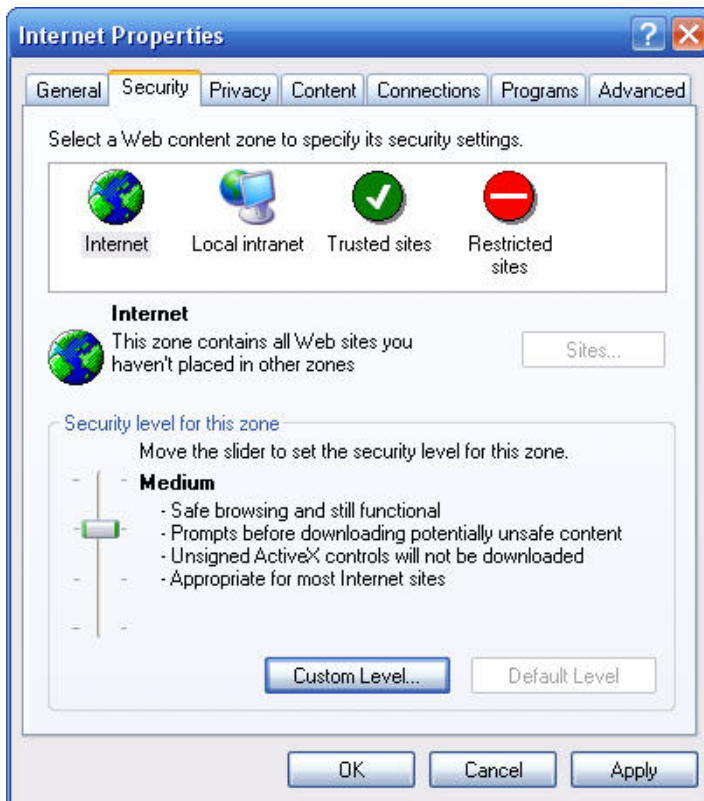
Enabling Active X

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

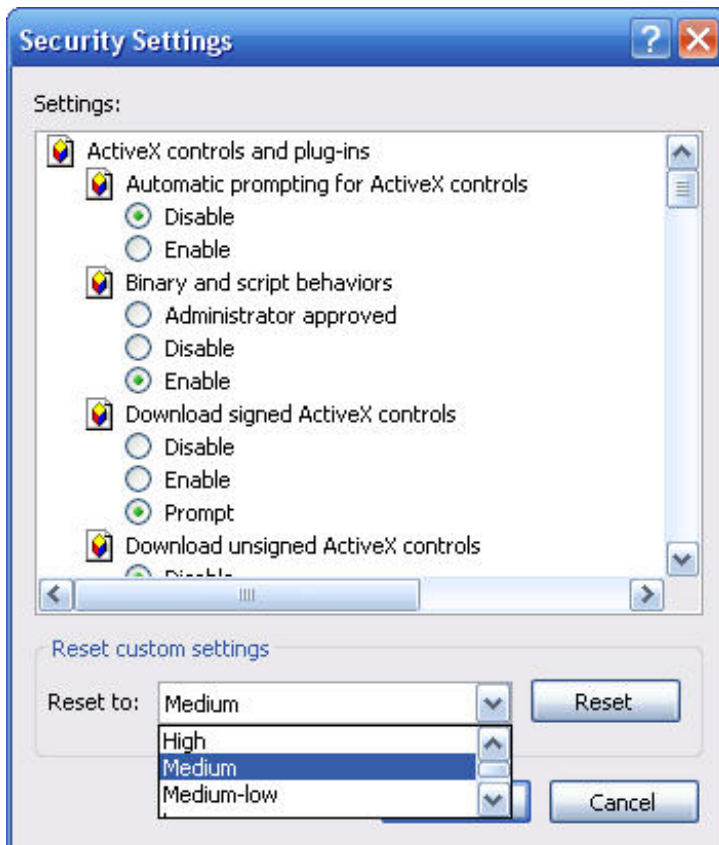
1. Open your internet browser.
2. Click on the tools menu at the top of the screen and select Internet Options...



3. Select the security tab from the Internet options menu.

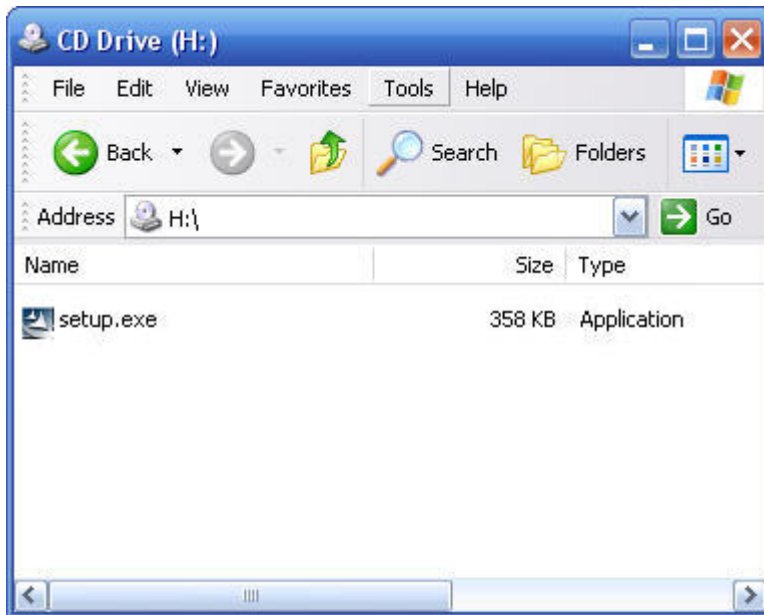


4. Click Custom Level button and enable all the Active X features in the list using the radio buttons or reset custom settings to Medium level.



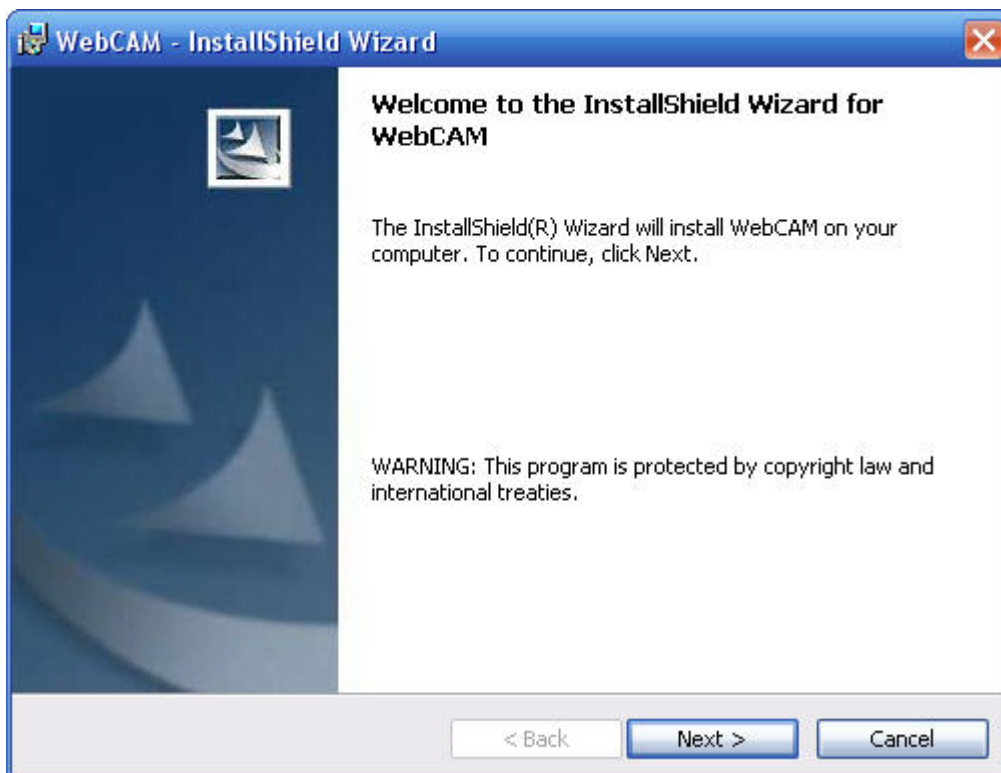
PC Cam Driver and Java Environment Installation

1. Run setup program from software CD

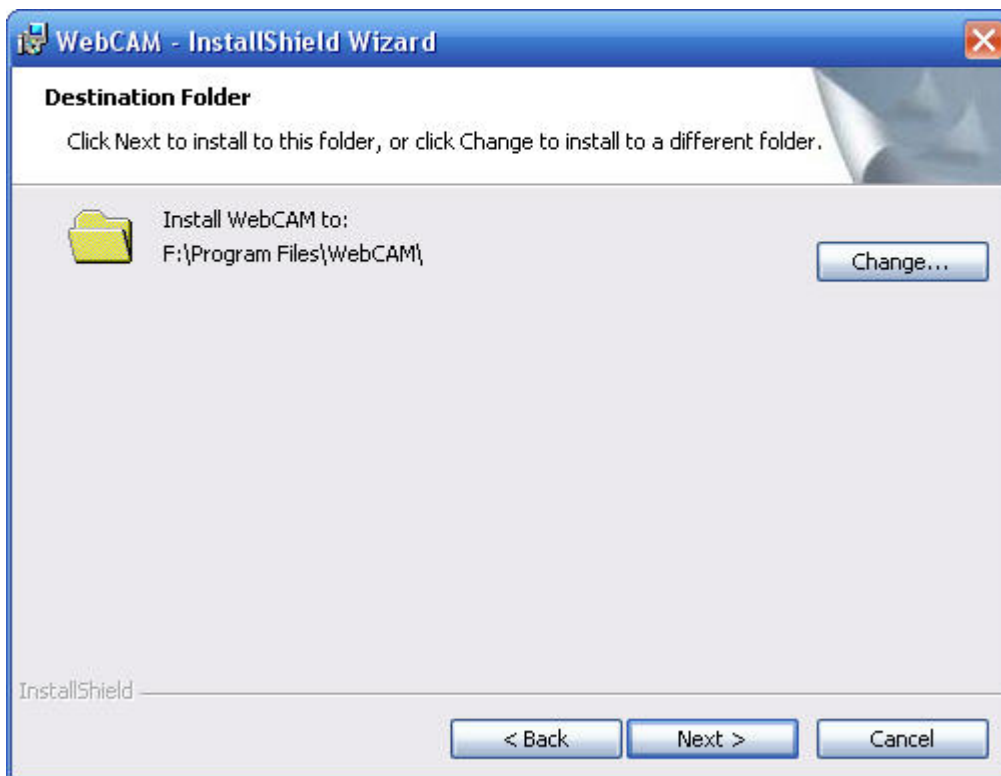


Double click the setup.exe to continue setup. If your system has not been installed of Java Run-time Environment, the setup program will install it first and then back to following steps.

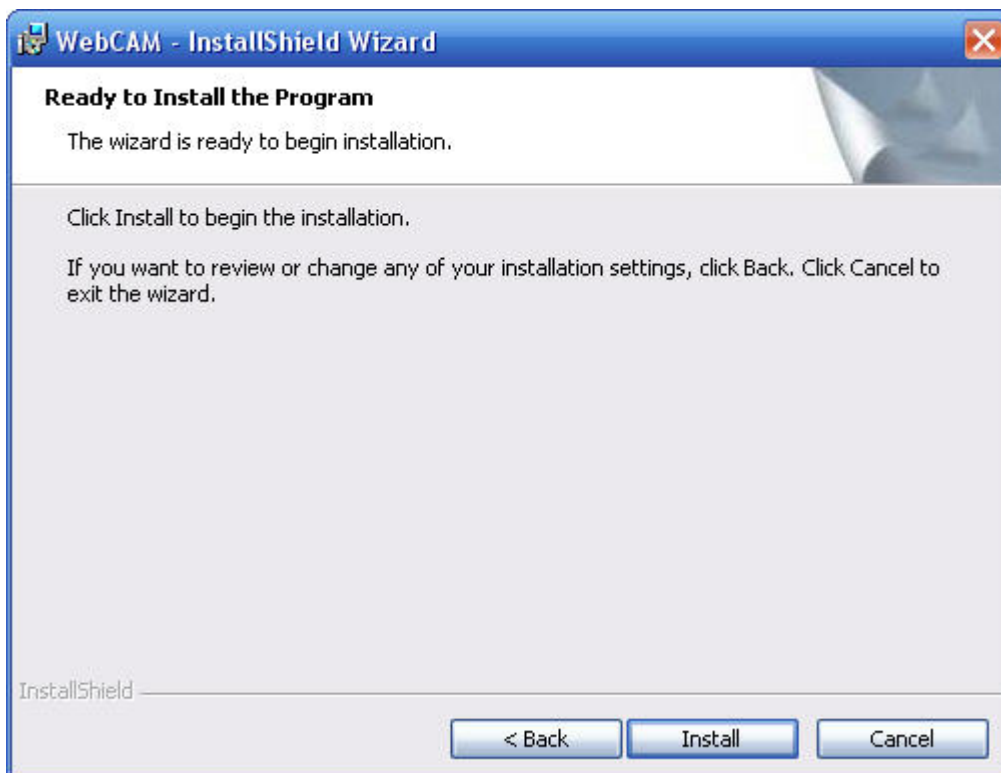
2. Click next



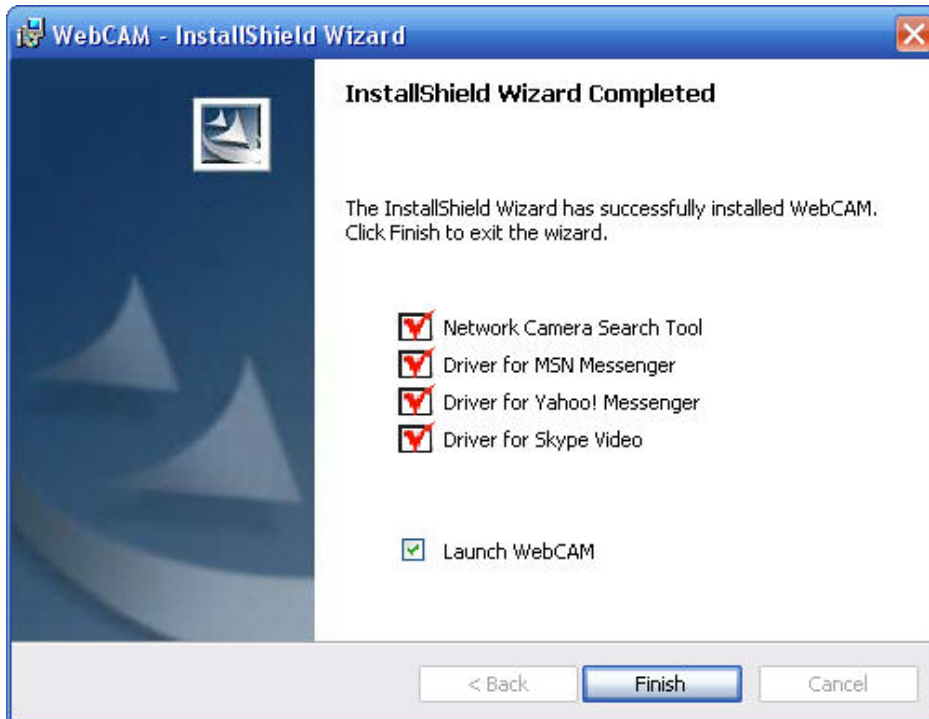
3. Click next or change the installation path



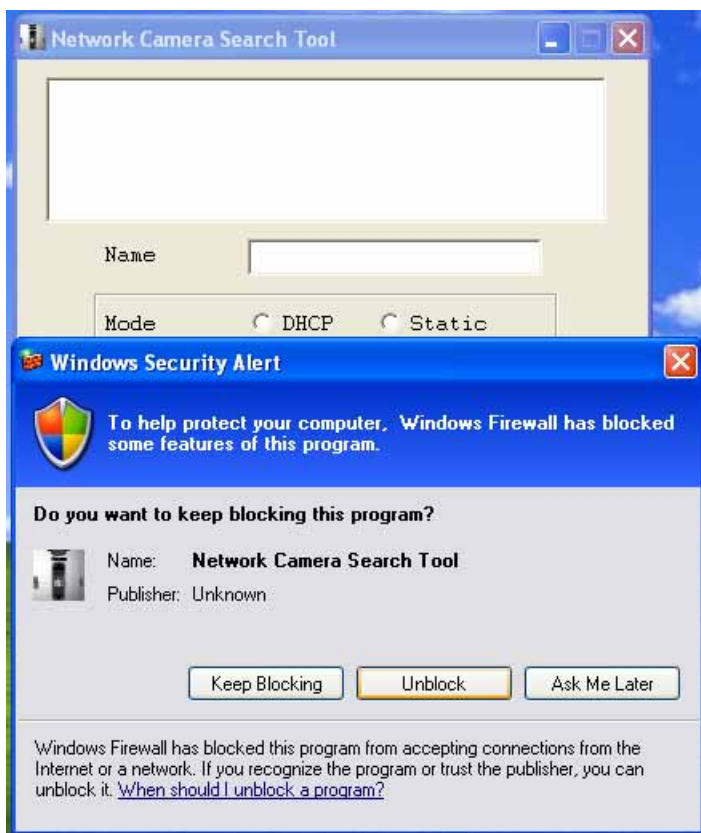
4. Click Install



5. Click Finish and launch the network search tool



6. Select Unblock to see the item list in the tool

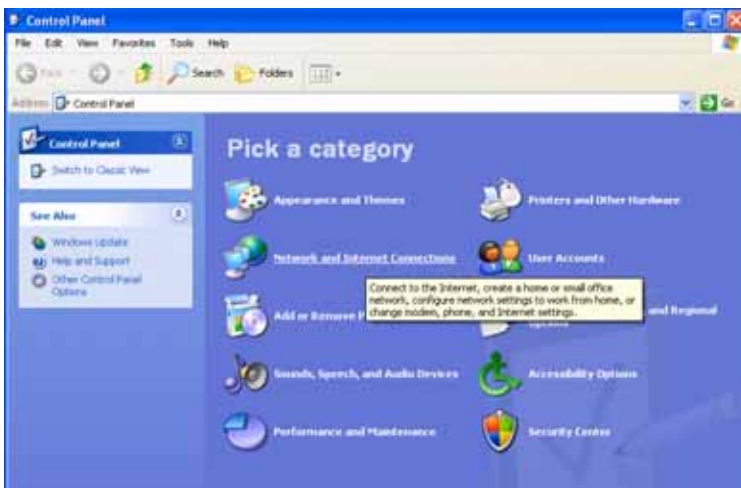


(Note: If you selected keep Blocking, you will can't see the item list in the tool. You should set the firewall as follow:)

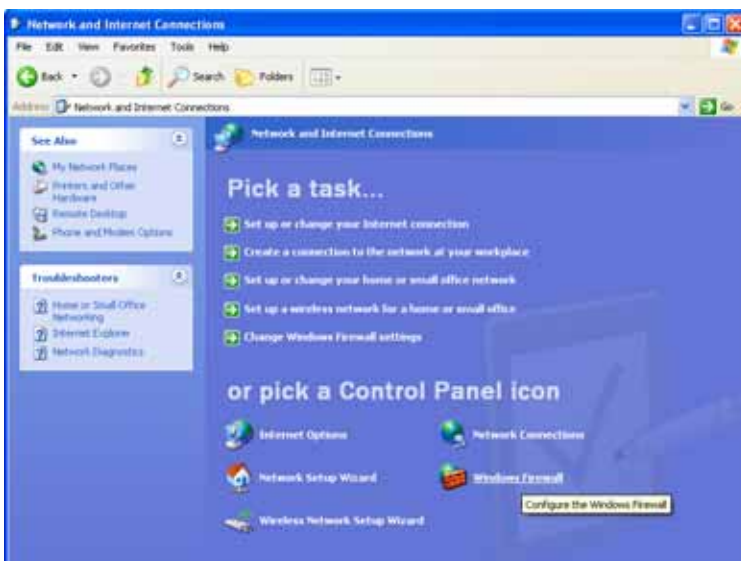
Enter Control Panel



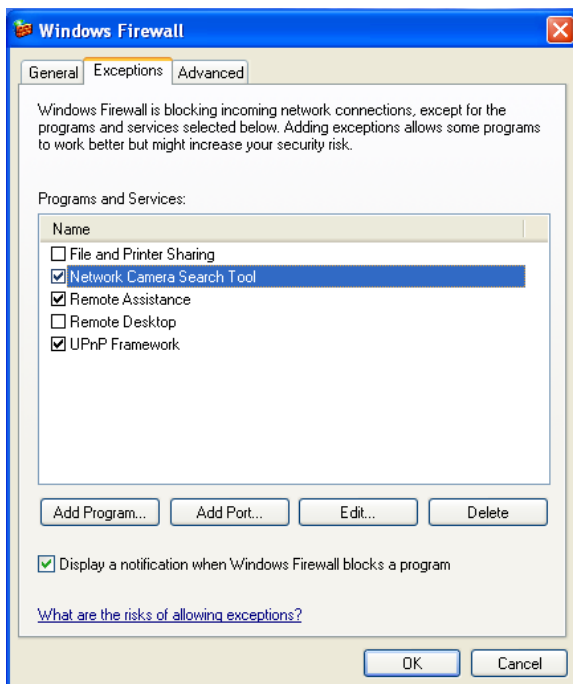
Select Network and Internet Connections



Select Windows Firewall

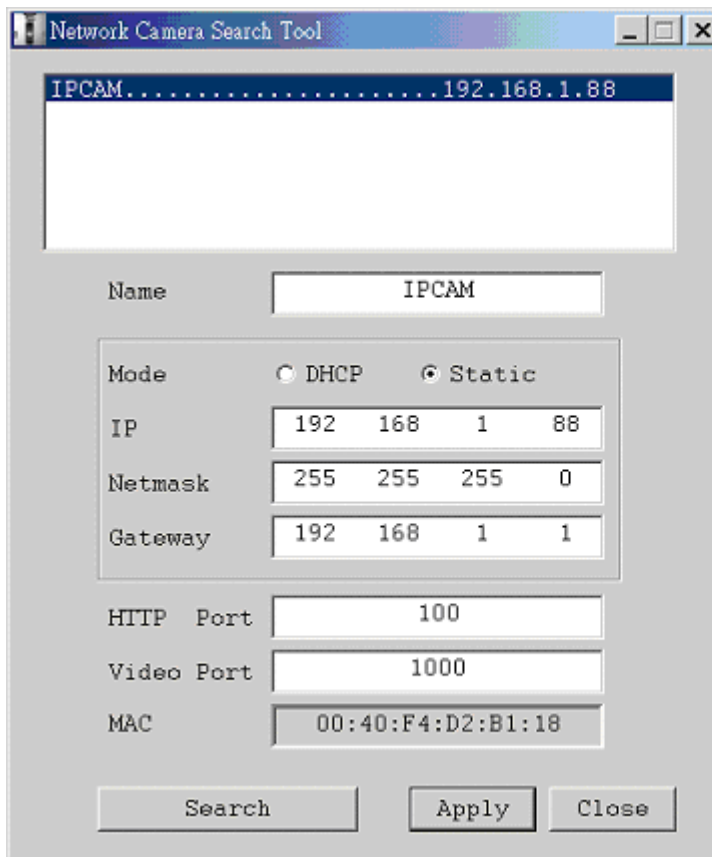


Checked in Network Camera Search Tool



Click OK to save the setting.

7. Double click the listed item in the tool to open browser window



8. Login in as " admin " The default password is " 0000 "

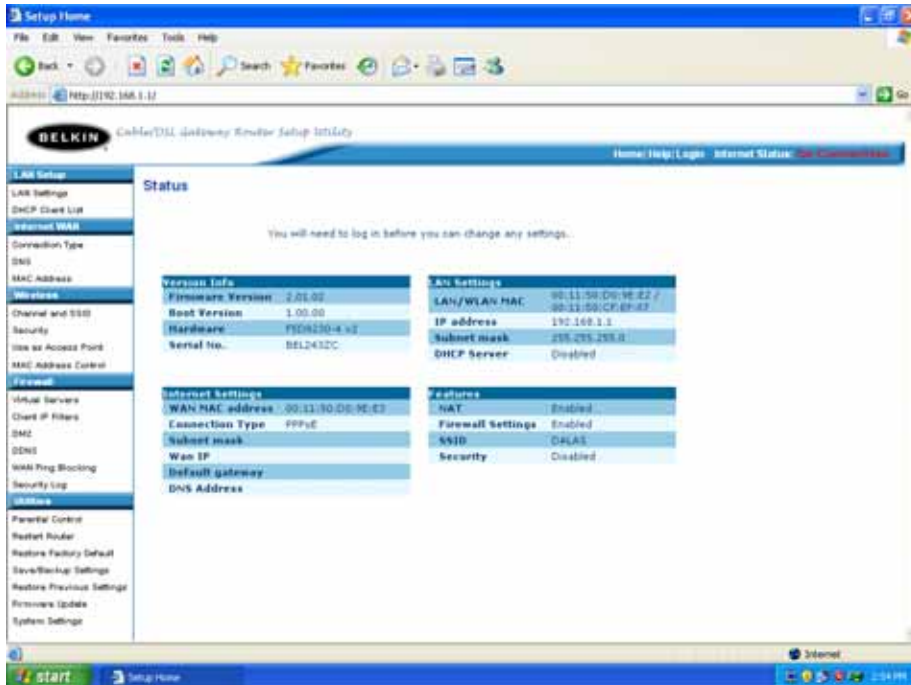


8. Use manual focus ring to adjust to intended focus range

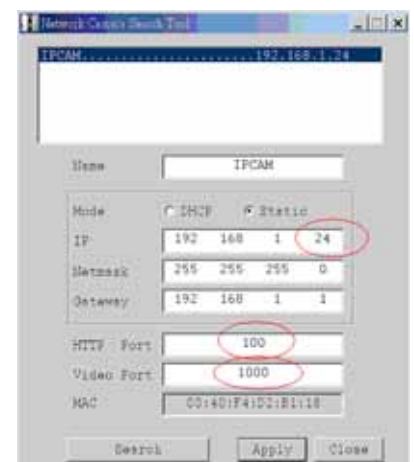
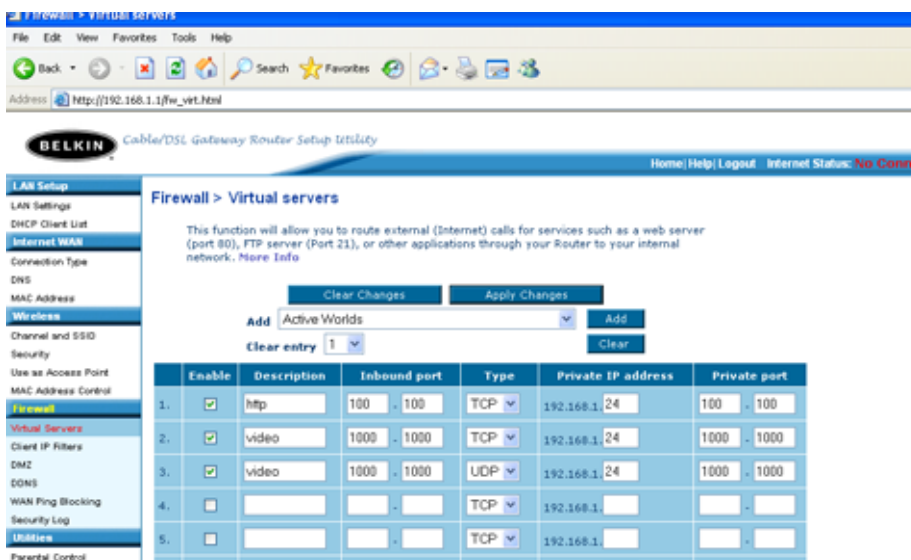


Using IP Camera with Internet

Login into your router with your router IP(router mode: BEL243ZC)



Select Virtual Servers and type in the information contain private IP(24), http port(100), video port(1000)



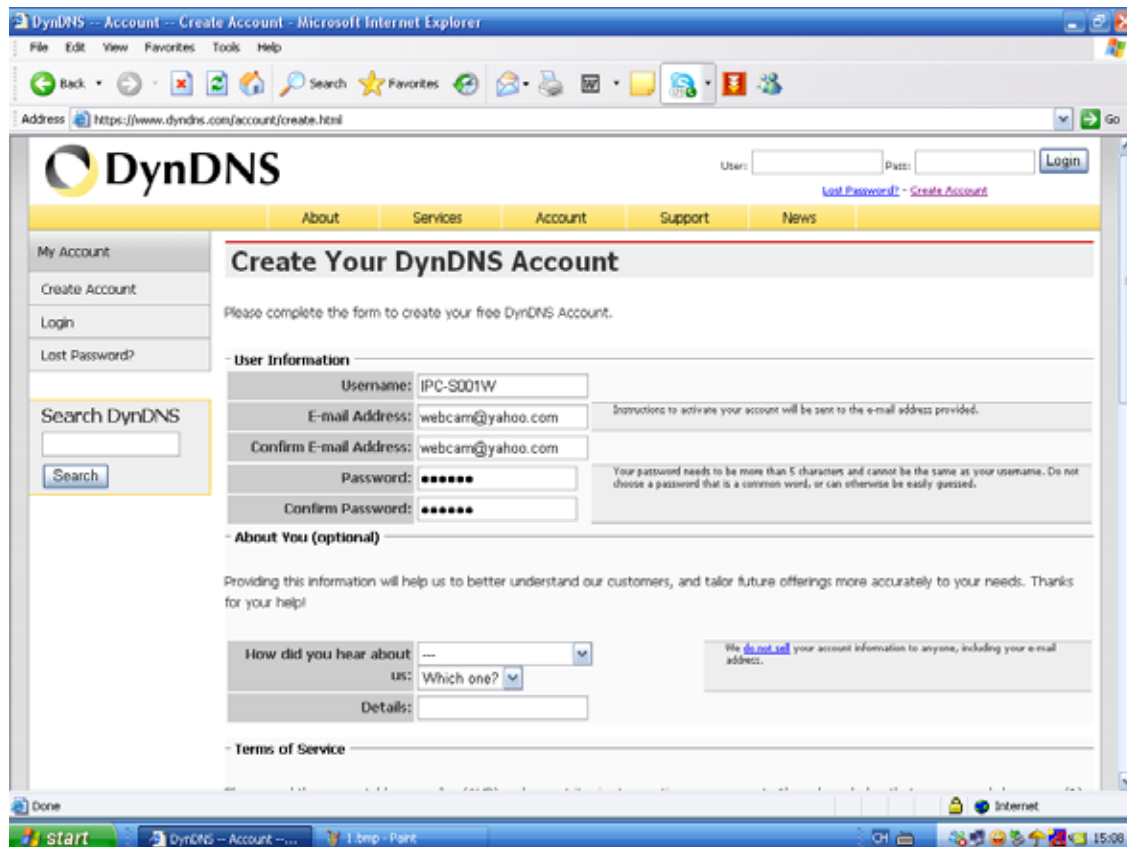
Click Apply Changes to save the settings

IPC-S001 USER MANUAL

Log into web site of DynDNS

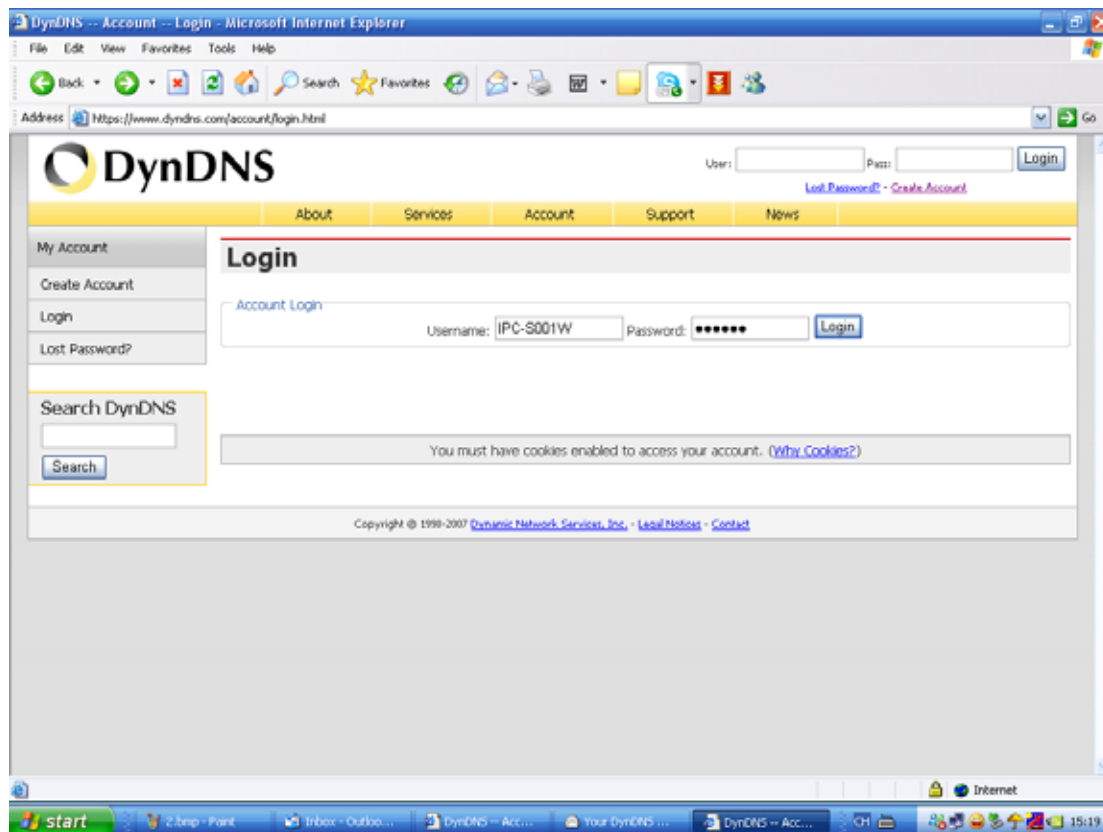


Create a account

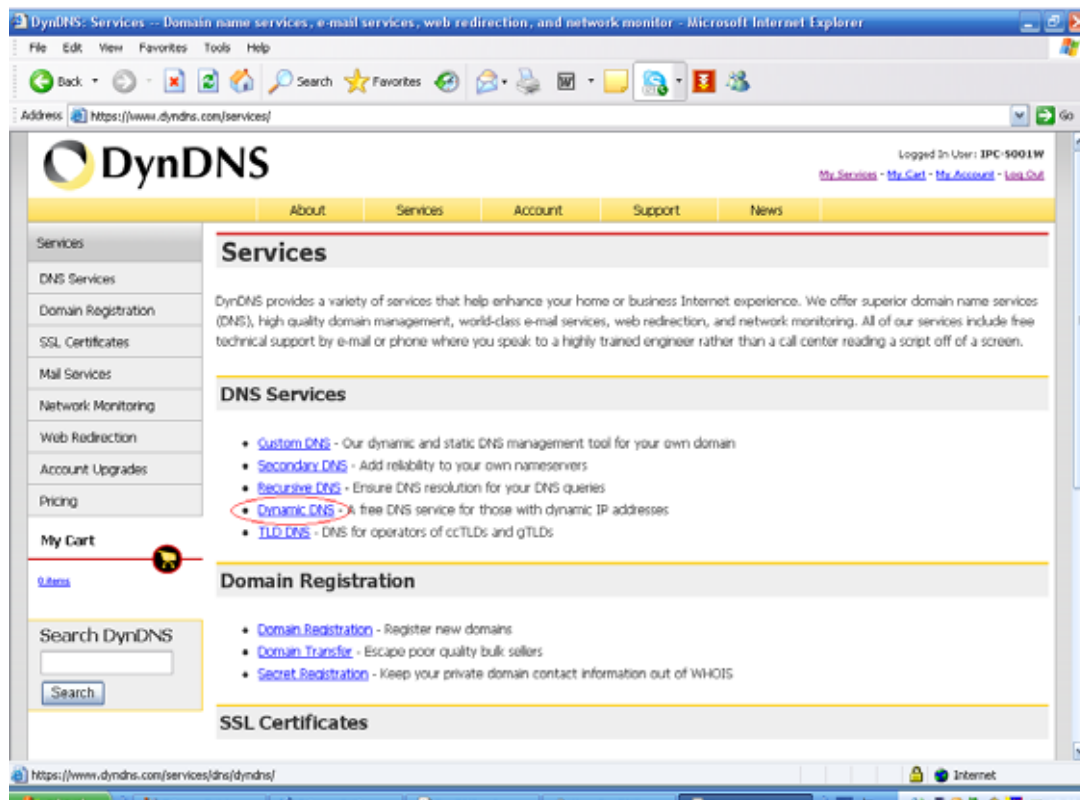


IPC-S001 USER MANUAL

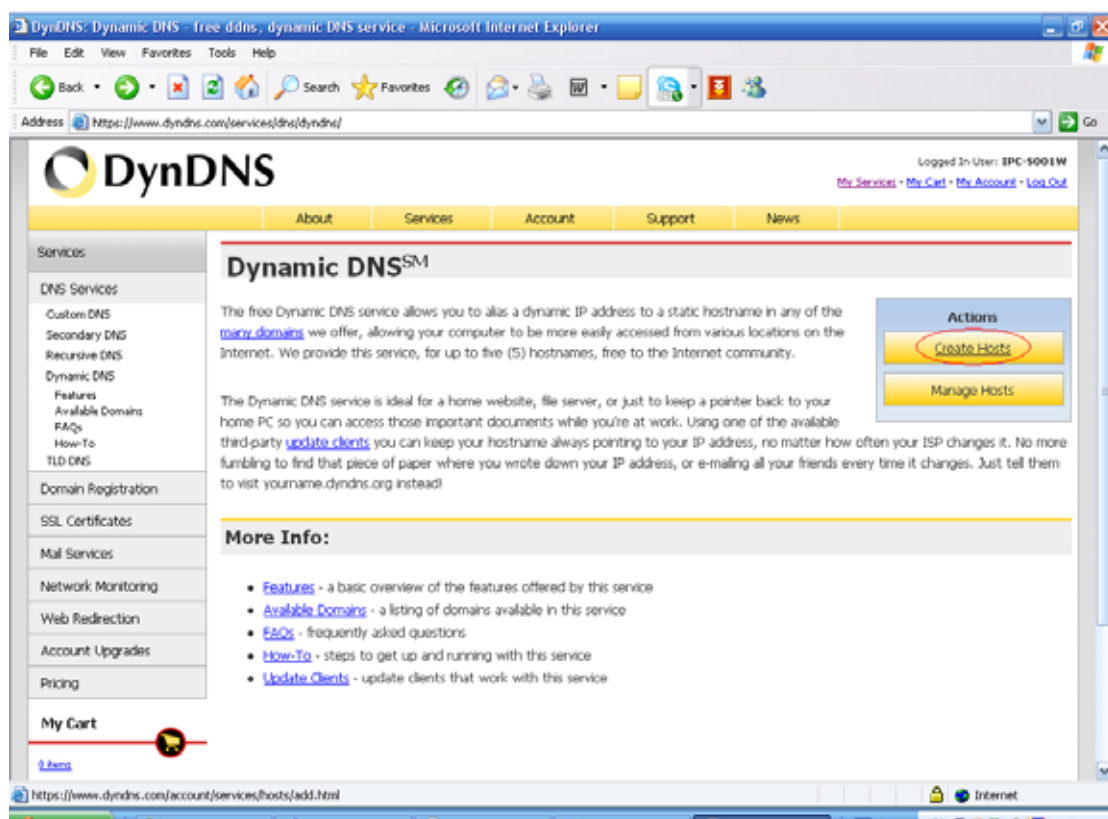
Log into your account with your user name & password



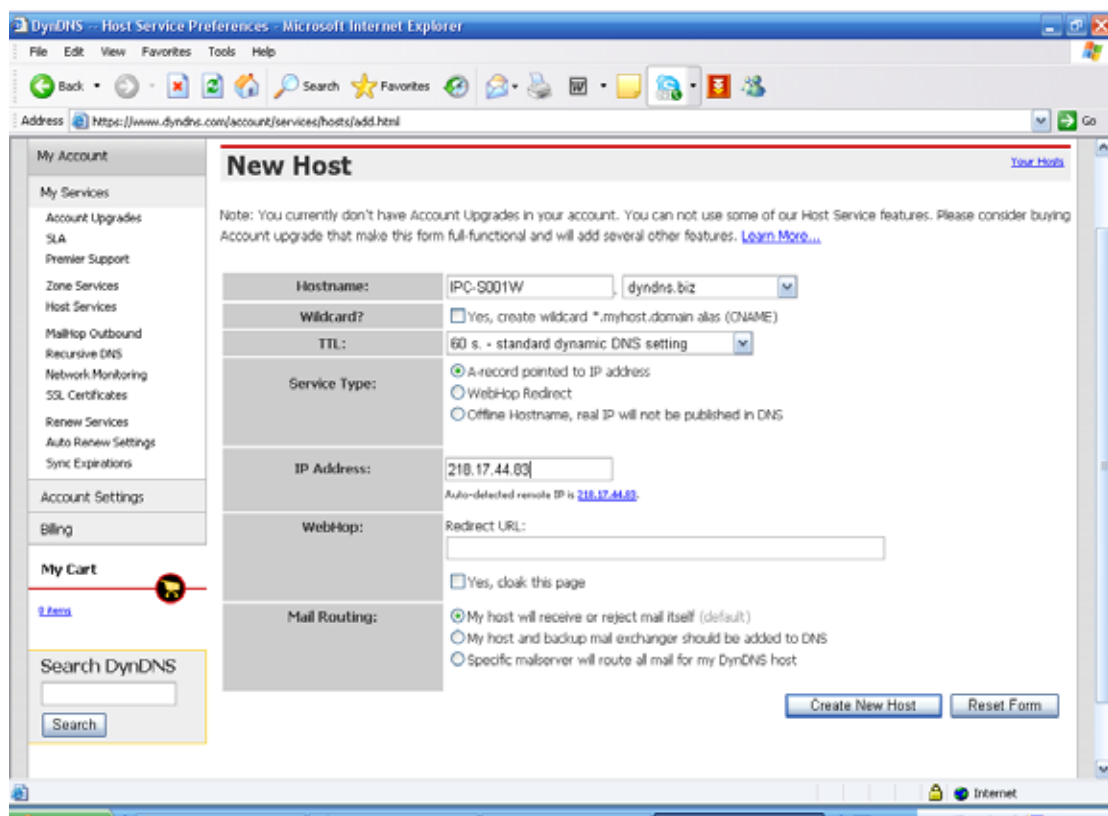
Click Dynamic DNS



Click Create Hosts



Type in host name, IP address, then click Create New Host to finish it



Log into your WebCAM and set DDNS dialog box as below

DDNS Function	<input checked="" type="checkbox"/> enable
DDNS Server	<input type="radio"/> DynDns
Domain Name	IPC-S001W.dyndns.biz
Account	IPC-S001W
Password	*****

SAVE

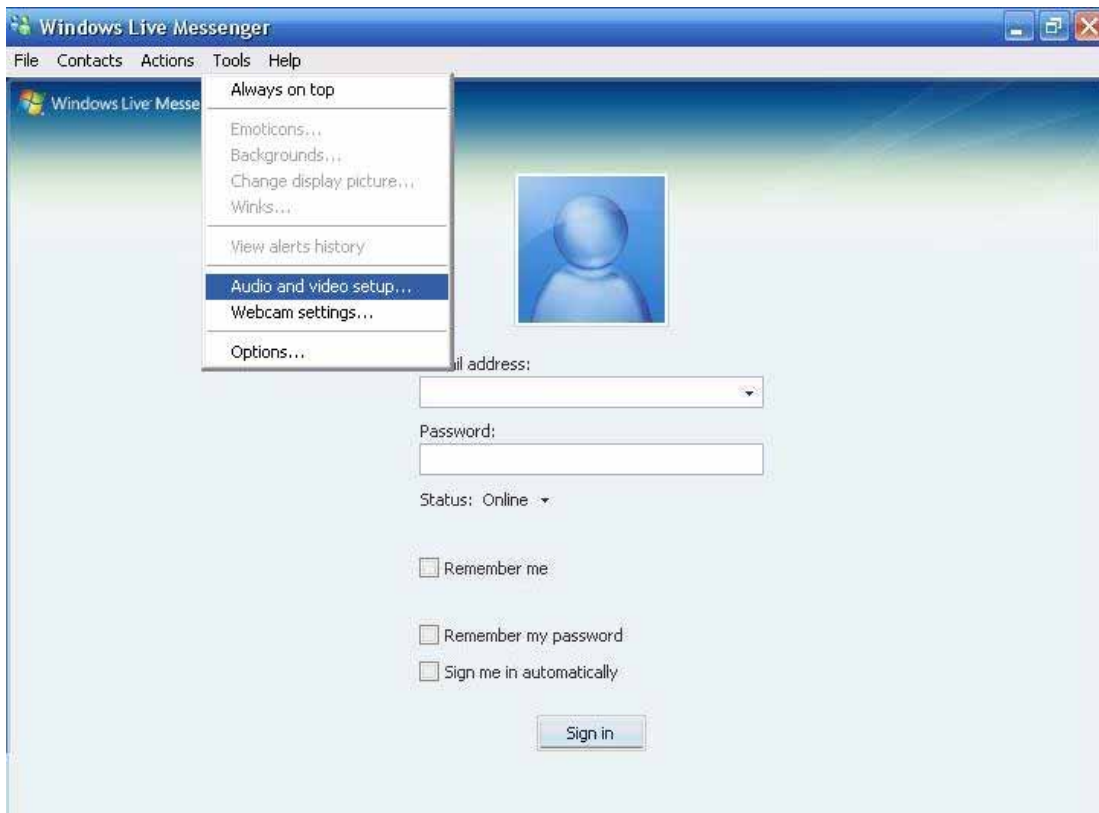
Click save button to finish setting

You can remote access the WebCAM through <http://IPC-S001W.dyndns.biz:100>

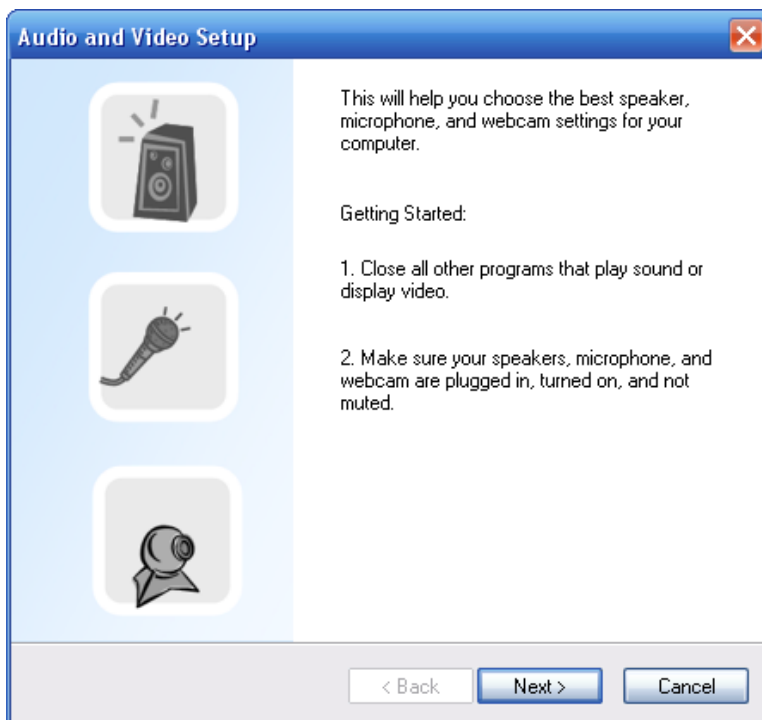
Note: 100 is the http port, you can modify it by Network Search Tool.

Using IP Camera with MSN Messenger

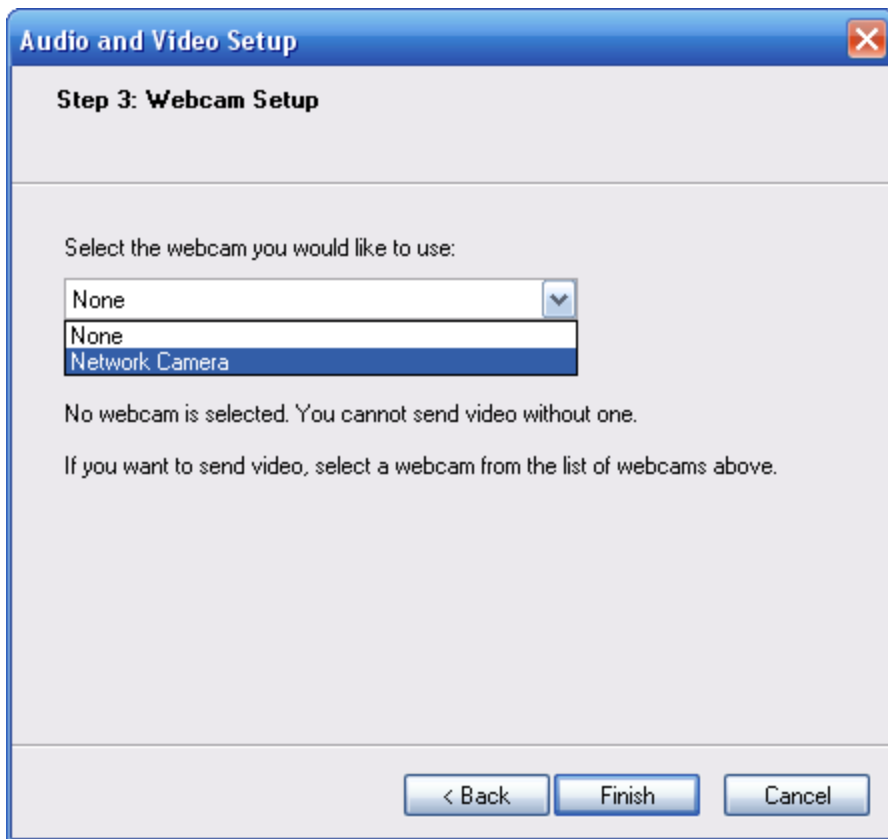
In MSN, select " Tools " and then " Audio and Video setup "



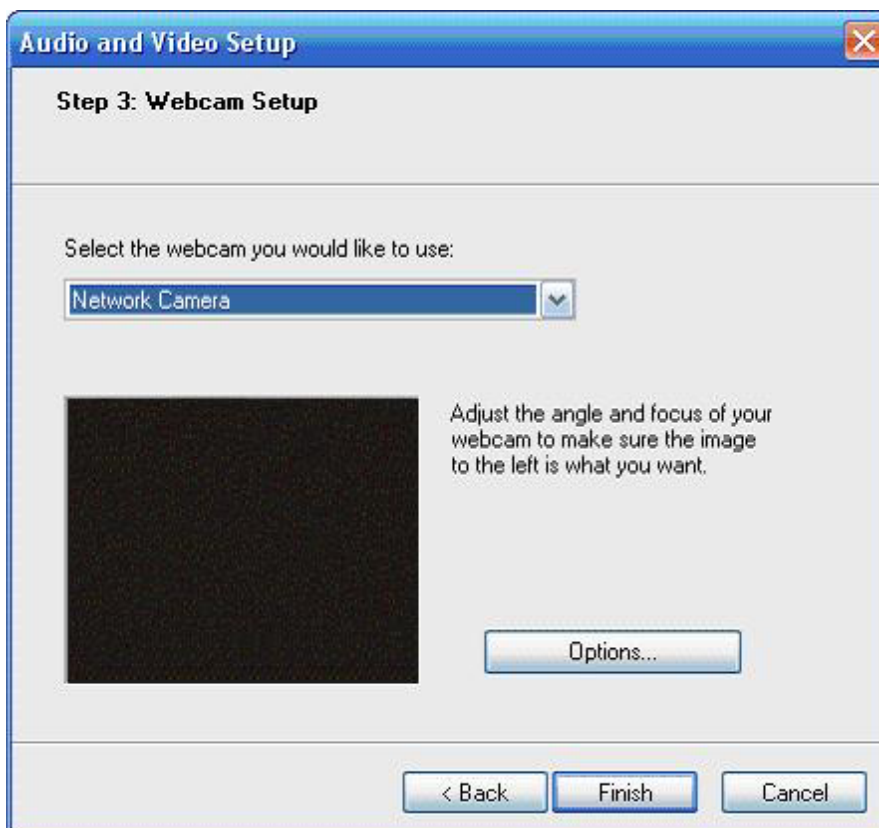
Click next.



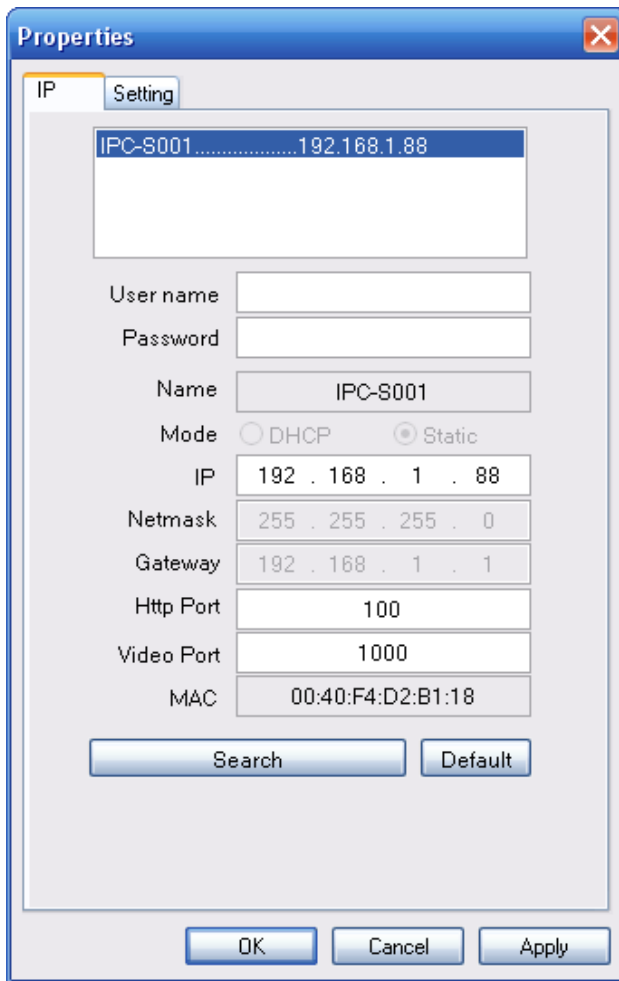
Click next to Step 3: Webcam setup. Pull down the menu and select “ Network Camera ”



The default screen is blank. Click “ Options ” to search the IP Camera.

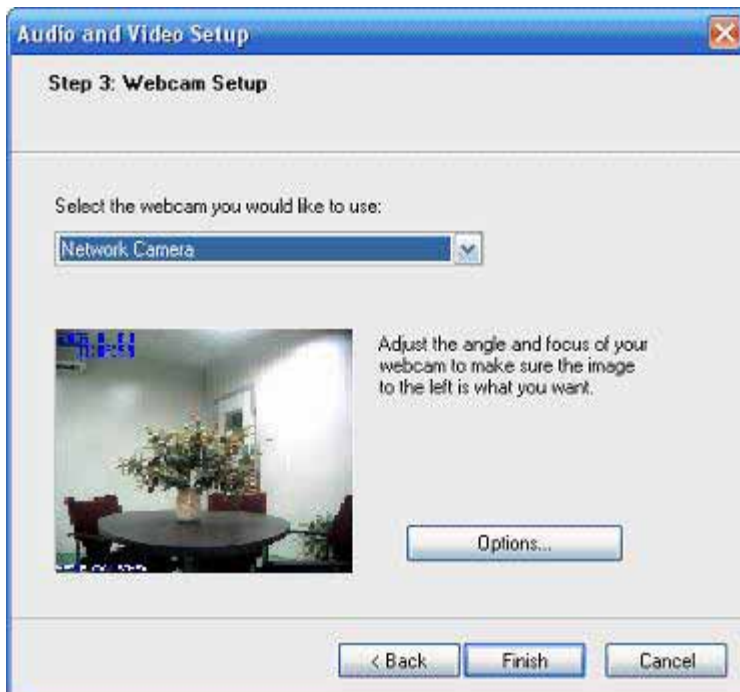


Select the IP Camera you like and click OK.



The 'Properties' dialog box has a blue title bar with a close button. It contains two tabs: 'IP' (selected) and 'Setting'. Under the 'IP' tab, there is a list box showing 'IPC-S001.....192.168.1.88'. Below this are input fields for 'User name', 'Password', and 'Name' (containing 'IPC-S001'). The 'Mode' section has two radio buttons: 'DHCP' and 'Static' (selected). Below these are input fields for 'IP' (192 . 168 . 1 . 88), 'Netmask' (255 . 255 . 255 . 0), 'Gateway' (192 . 168 . 1 . 1), 'Http Port' (100), 'Video Port' (1000), and 'MAC' (00:40:F4:D2:B1:18). At the bottom of the IP tab are 'Search' and 'Default' buttons. The main dialog has 'OK', 'Cancel', and 'Apply' buttons at the bottom.

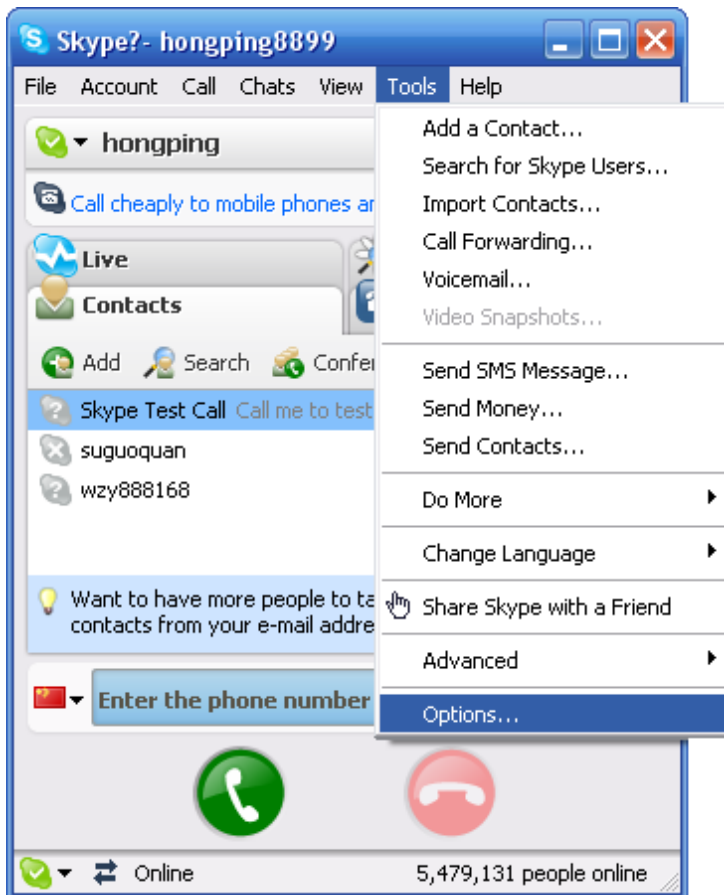
The screen reflects the viewing image of the IP camera. Click finish



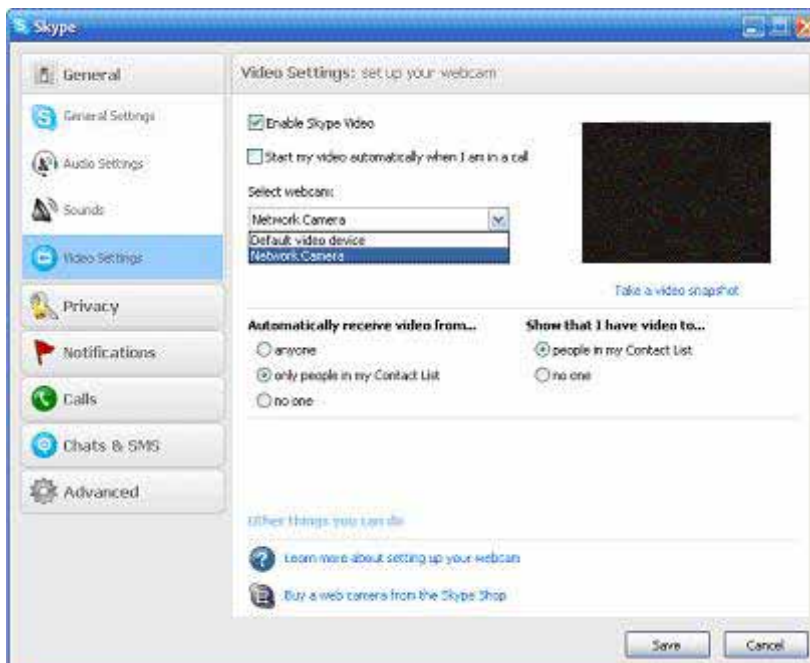
The 'Audio and Video Setup' dialog box has a blue title bar with a close button. It is titled 'Step 3: Webcam Setup'. It contains the text 'Select the webcam you would like to use:' followed by a dropdown menu showing 'Network Camera'. Below this is a video preview window showing a room with a table and chairs. To the right of the preview is the text: 'Adjust the angle and focus of your webcam to make sure the image to the left is what you want.' Below the preview is an 'Options...' button. At the bottom are '< Back', 'Finish', and 'Cancel' buttons.

Using IP Camera with Skype

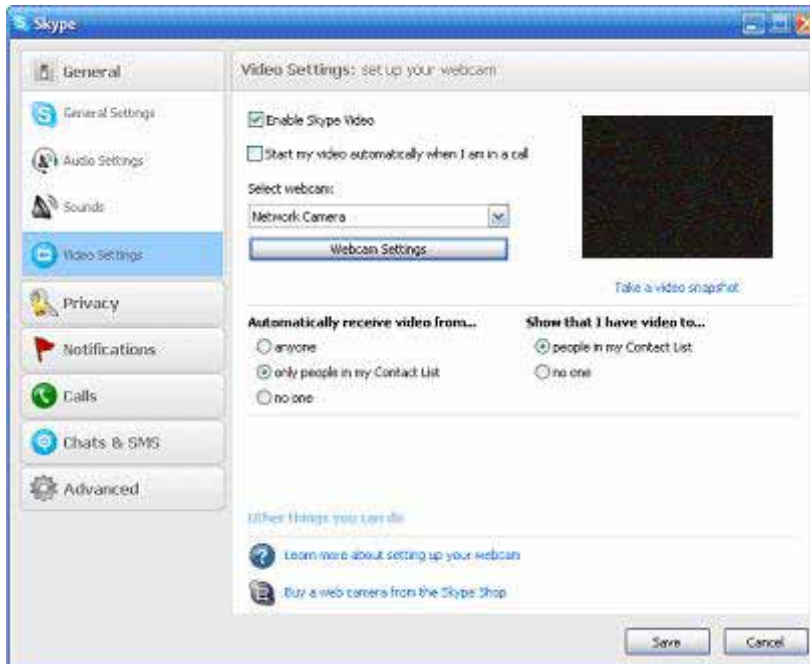
In Skype, select “ Tools ” and click “ Options ” .



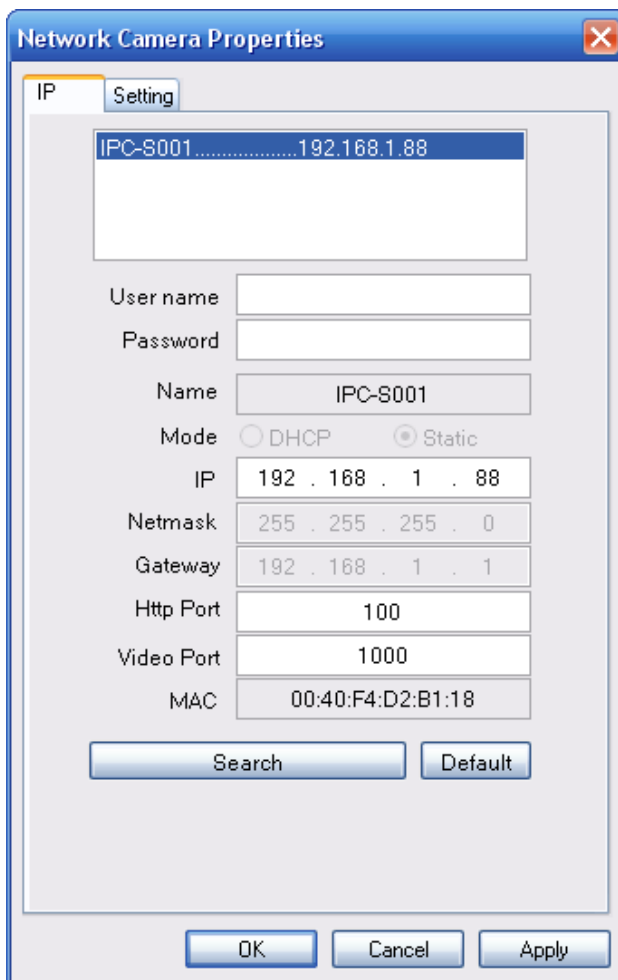
Select “ Video (Beta) ” tab and pull down to select “ Network Camera ”



Click " Webcam Settings " .



Select the IP Camera and click " OK " .

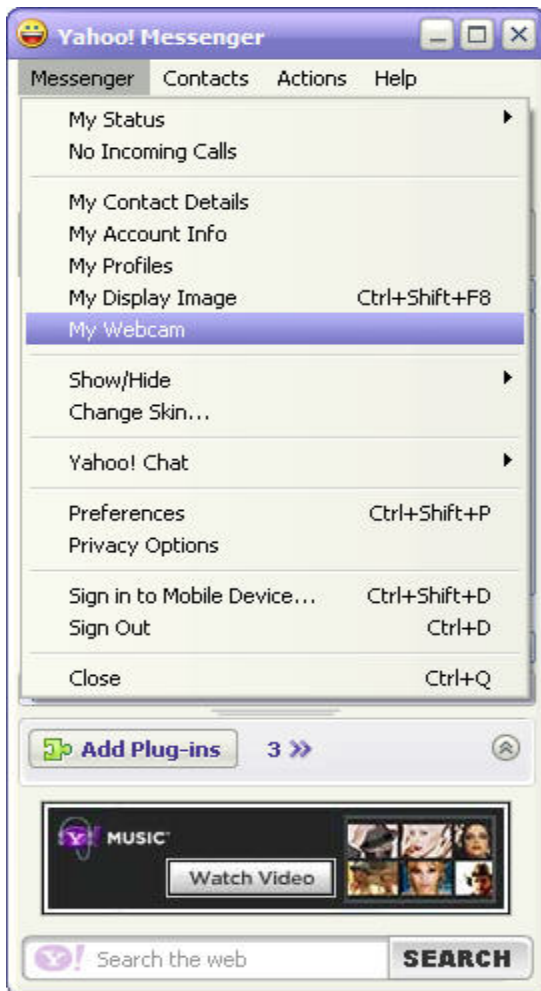


Click " Take a video snapshot " .

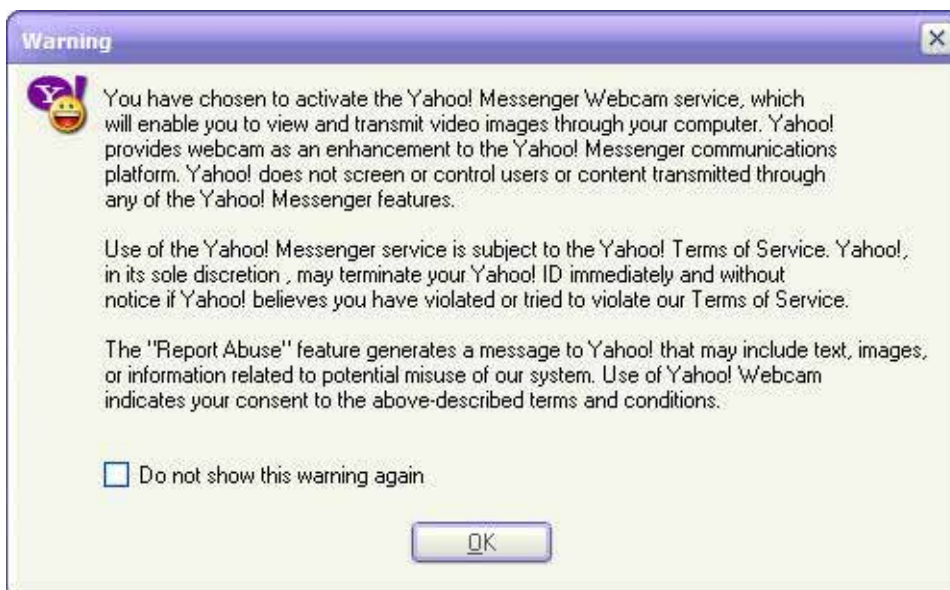


Using IP Camera with Yahoo! Messenger

In Yahoo! Messenger, select " Messenger " and click " My Webcam " .



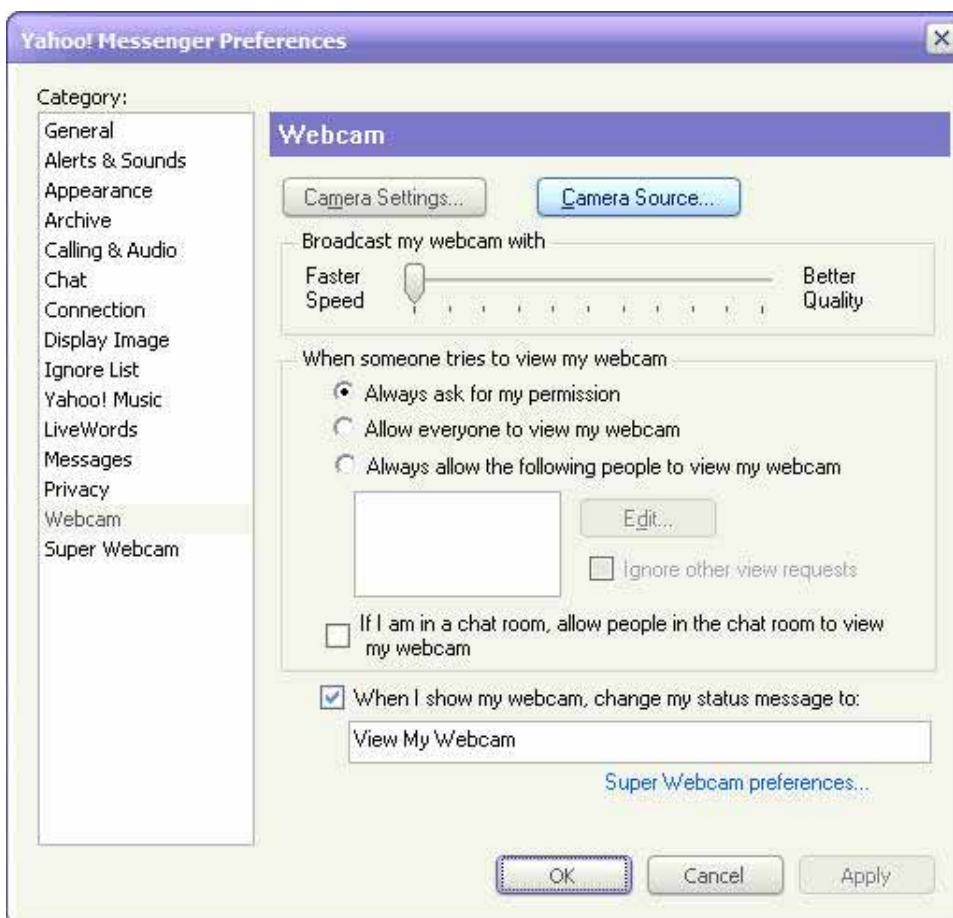
Click OK.



Select " File " and click " Preferences " .



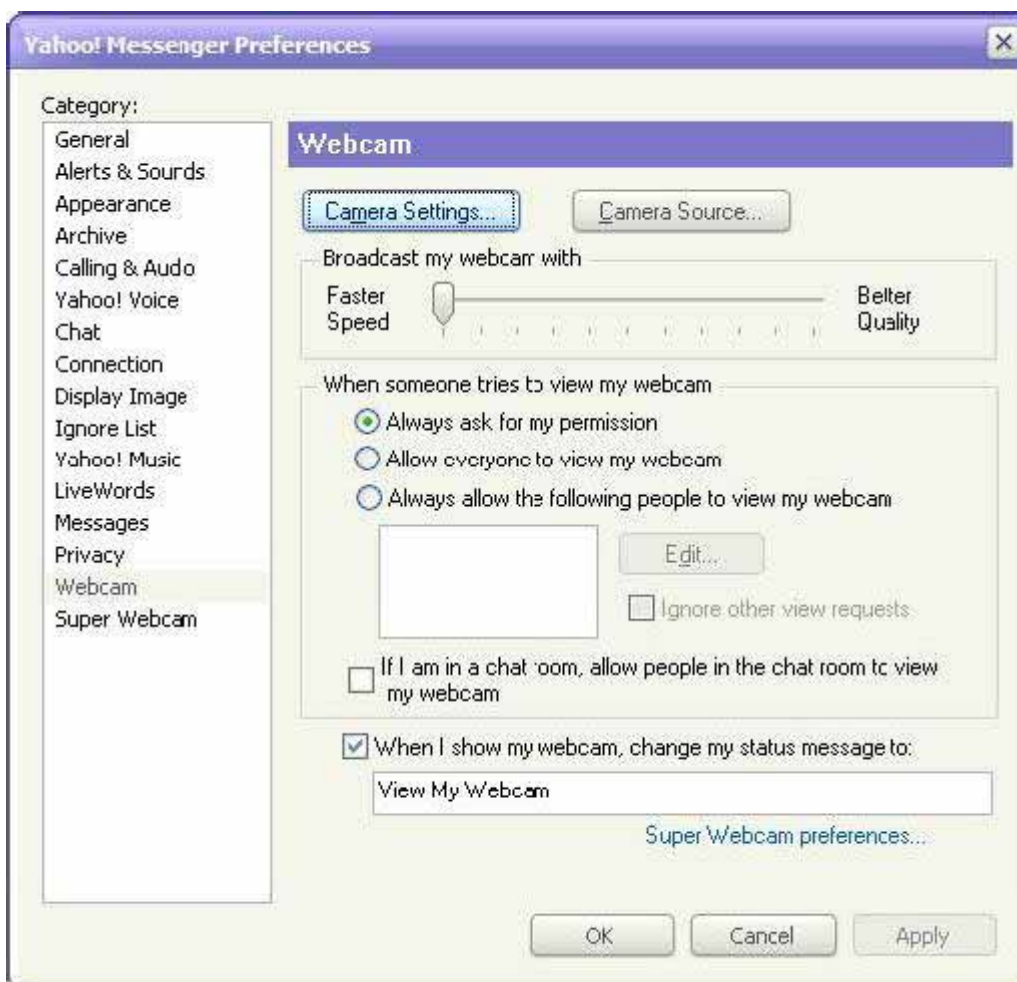
Select " Webcam " tab and click " Camera Source " .



Pull down and select " Network Camera " and click OK.



Click " Camera Settings " .



Select the IP Camera and click " OK " .

The screenshot shows a 'Properties' dialog box with two tabs: 'IP' and 'Setting'. The 'IP' tab is active, displaying a list of IP addresses. The first entry, 'IPC-S001.(wLAN).....192.168.8.21', is selected. Below the list, several configuration fields are visible:

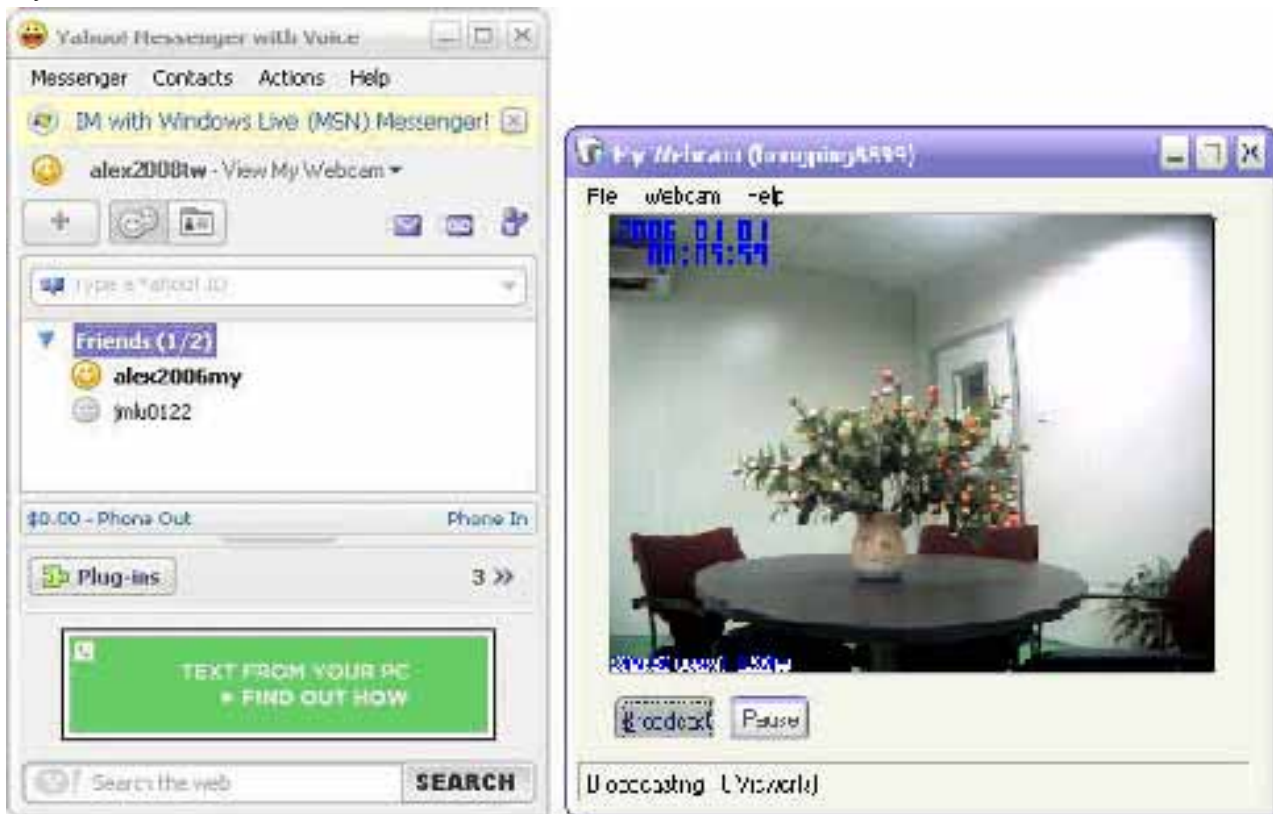
- User name: admin
- Password: ****
- Name: IPC-S001
- Mode: ☒ DHCP ☐ Static
- IP: 192 . 168 . 8 . 21
- Netmask: 255 . 255 . 255 . 0
- Gateway: 192 . 168 . 8 . 20
- Http Port: 100
- Video Port: 81
- MAC: 00:40:F4:D2:B1:18

At the bottom of the IP configuration section are 'Search' and 'Default' buttons. The main dialog box has 'OK', 'Cancel', and 'Apply' buttons at the bottom.

Click " OK " to finish.



My Webcam shows video from IP Camera.

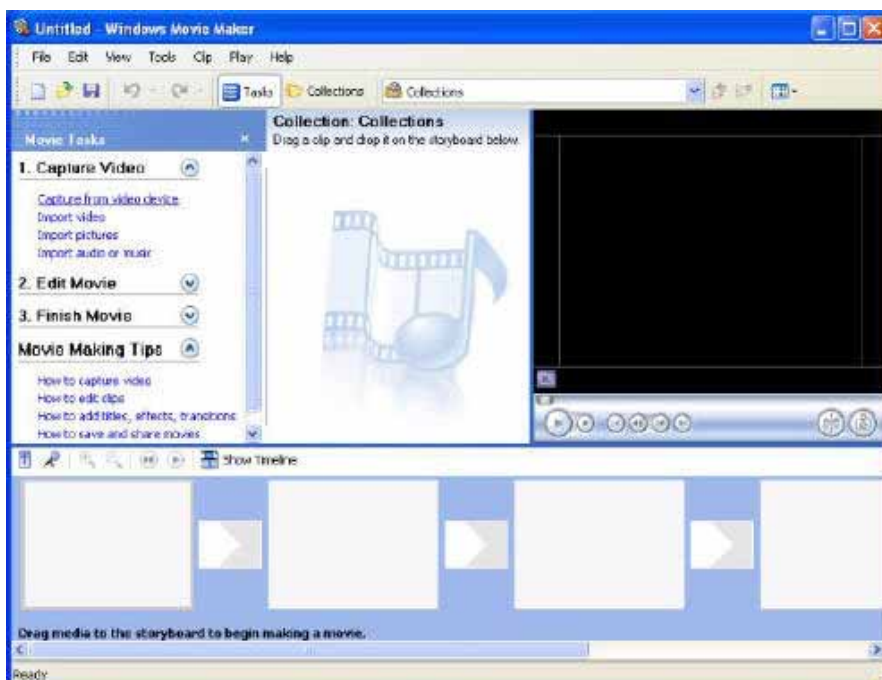


Using IP Camera with windows Movie Maker

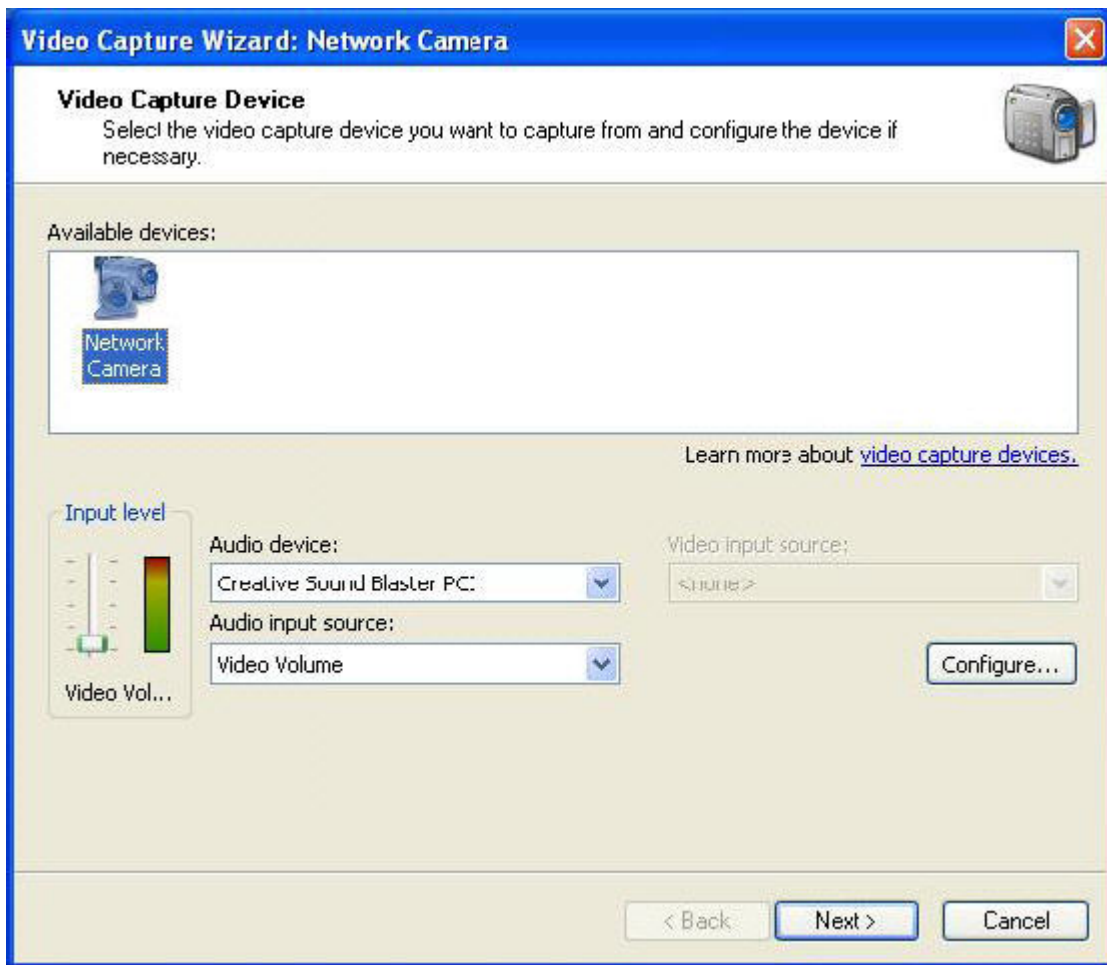
Launch Windows Movie Maker from “ Start ” -> “ Programs ” -> Accessories ” . (Note: windows movie maker is available for Windows XP SP2 or later)



Select “ capture from video device ” .



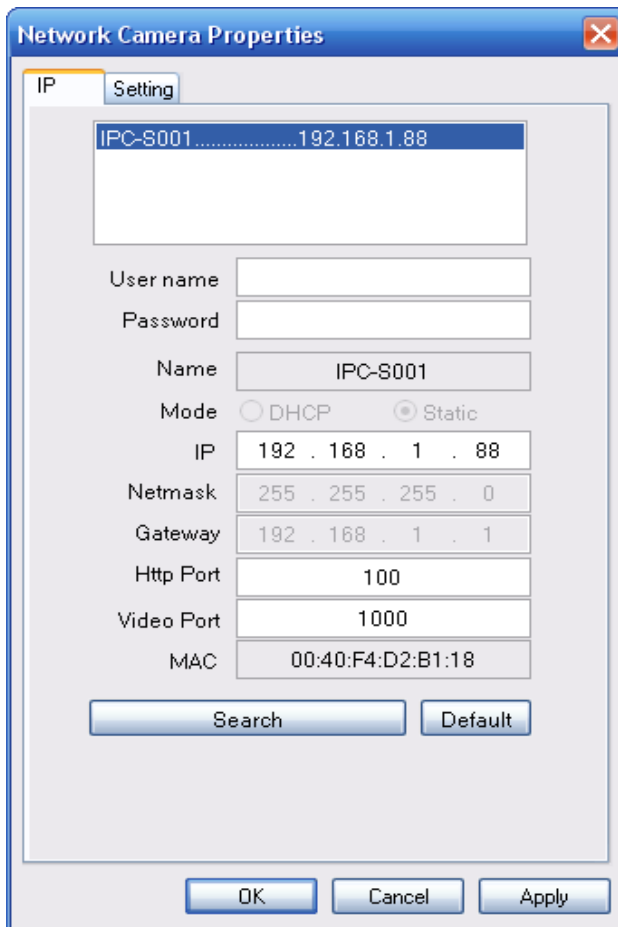
Select " Network Camera " and click " Configure " .



Click Camera Settings.



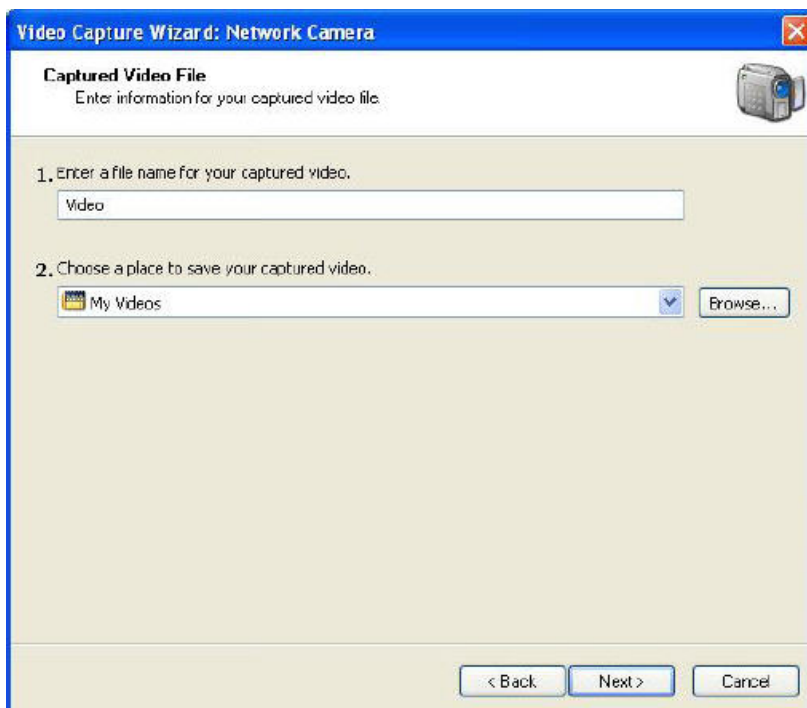
Select the IP Camera and click “ OK ” .



The "Network Camera Properties" dialog box is shown with the "IP" tab selected. It contains the following fields and controls:

- IP List:** A list box containing "IPC-S001.....192.168.1.88".
- User name:** An empty text field.
- Password:** An empty text field.
- Name:** A text field containing "IPC-S001".
- Mode:** Radio buttons for "DHCP" and "Static" (selected).
- IP:** A text field containing "192 . 168 . 1 . 88".
- Netmask:** A text field containing "255 . 255 . 255 . 0".
- Gateway:** A text field containing "192 . 168 . 1 . 1".
- Http Port:** A text field containing "100".
- Video Port:** A text field containing "1000".
- MAC:** A text field containing "00:40:F4:D2:B1:18".
- Buttons:** "Search" and "Default" buttons are located below the network settings. "OK", "Cancel", and "Apply" buttons are at the bottom of the dialog.

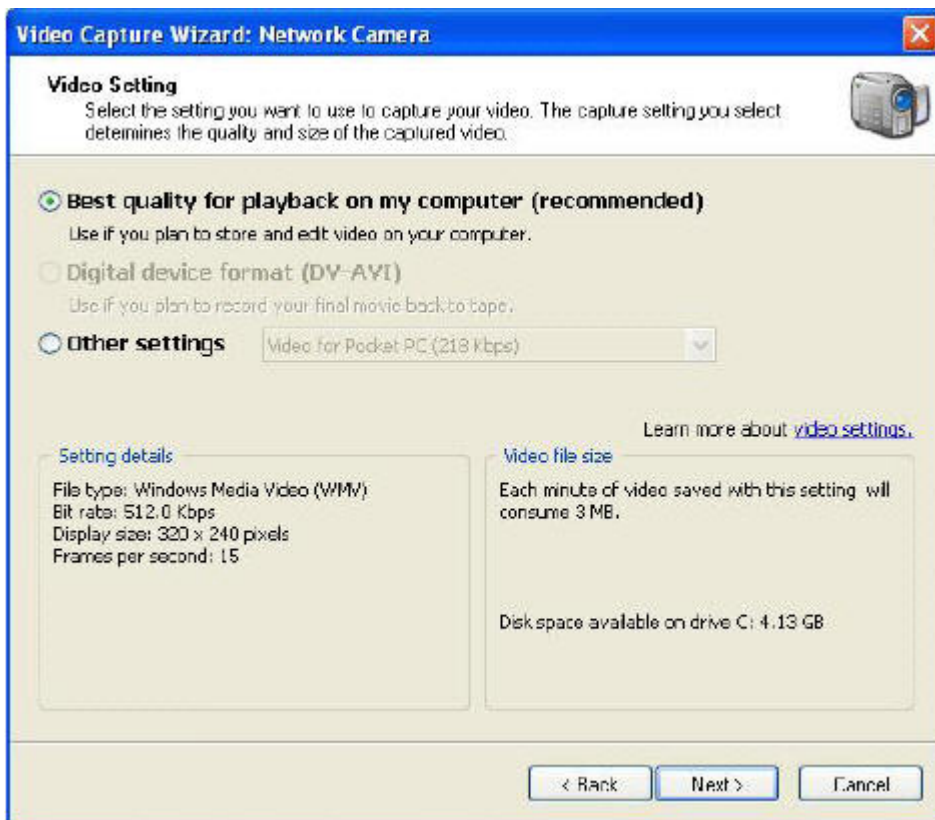
Click “ Next ” .



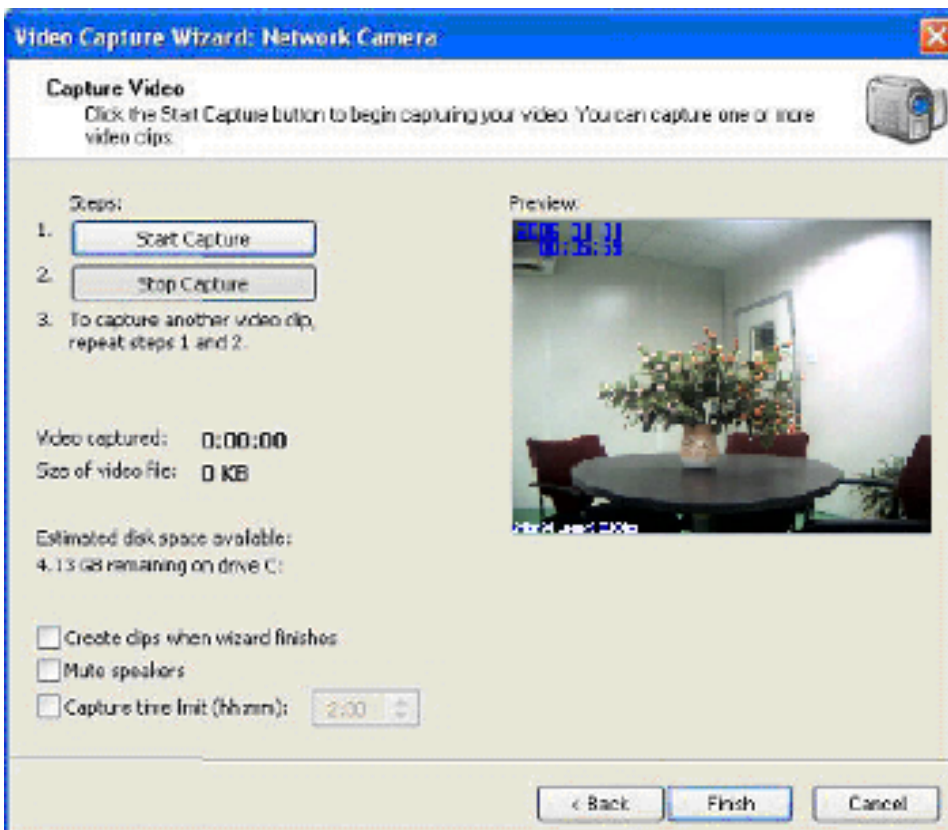
The "Video Capture Wizard: Network Camera" dialog box is shown. It contains the following elements:

- Title Bar:** "Video Capture Wizard: Network Camera".
- Section Header:** "Captured Video File".
- Instruction:** "Enter information for your captured video file." with a camera icon.
- Step 1:** "1. Enter a file name for your captured video." with a text field containing "Video".
- Step 2:** "2. Choose a place to save your captured video." with a dropdown menu showing "My Videos" and a "Browse..." button.
- Navigation Buttons:** "< Back", "Next >", and "Cancel" buttons at the bottom.

Click “ Next ” .

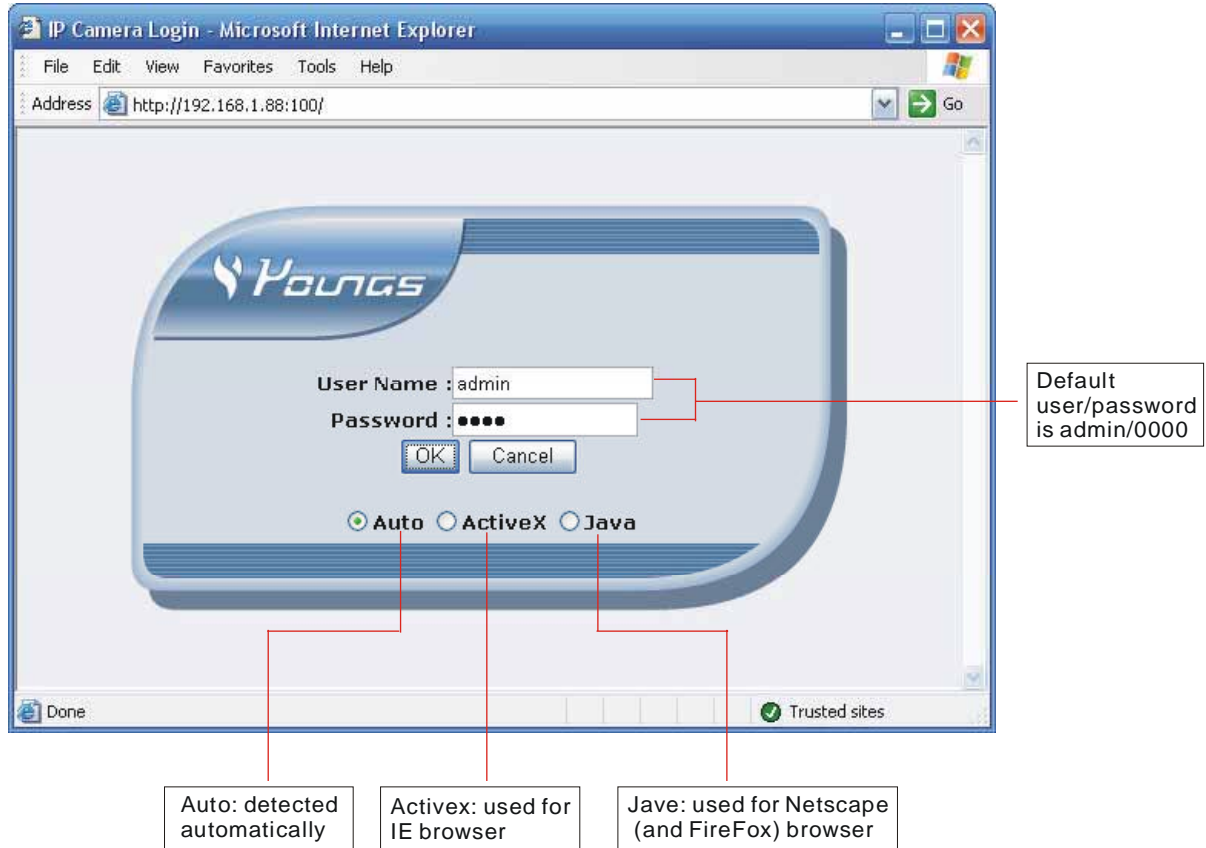


Click “ Start Capture ” to start recording, “ Stop Capture ” to stop, and “ Finish ” when finished.



System Definitions

Login Window

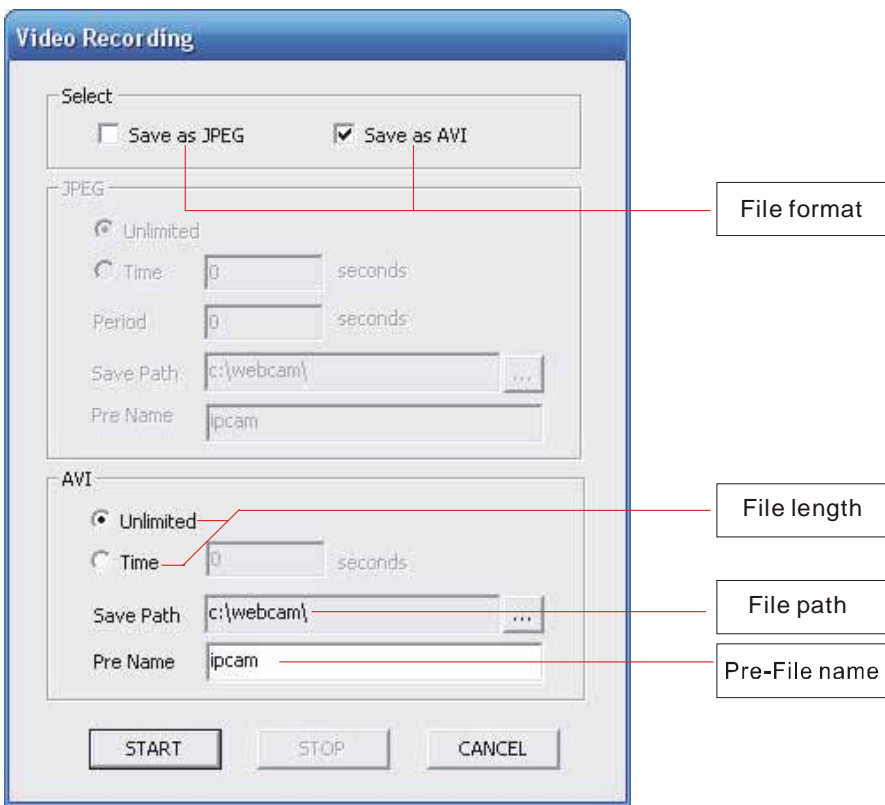


View Window

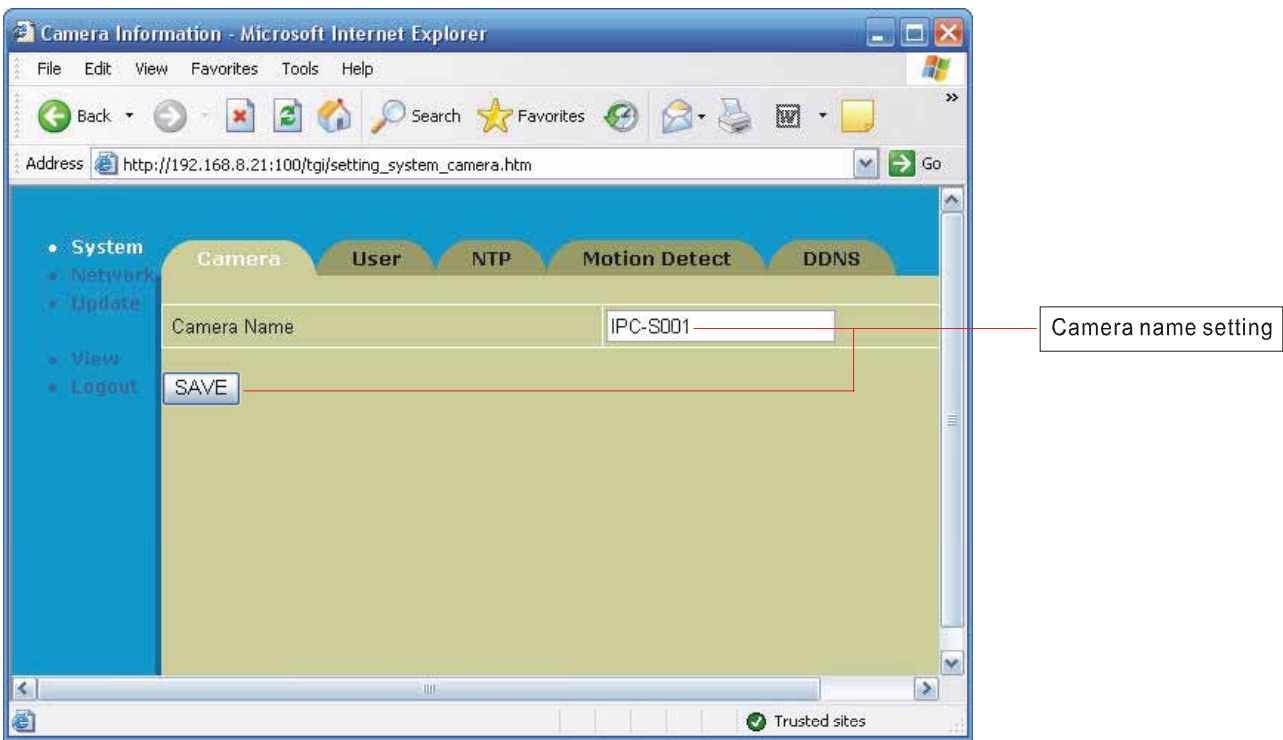
The screenshot displays the IPC-S001 web interface within a Microsoft Internet Explorer window. The address bar shows the URL `http://192.168.1.00:100/cgi/login.cgi`. The main video feed shows a dining room scene. On the right, the control panel includes buttons for 'Digital pan/tilt', 'Snapshots(to c:\webcam)', 'Logout', and 'IP Cam settings'. Below these are sliders for 'Size' (640x400), 'Quality' (Normal), 'Contrast' (Normal), 'Brightness' (Highest), 'Sharpness' (Highest), 'Saturation' (High), 'Time' (0.50), 'Blue', 'Frequency' (50Hz), and 'Video setting' (SAVE). A context menu is open over the video feed, showing options: 'Show status' (checked), 'Resolution', 'Quality', 'Record ...', and 'Snapshot ...'. The bottom status bar displays '640x400 userx1 0.50fps' and 'boot since 2007/8/20 10:28'.

Labels pointing to the interface elements:

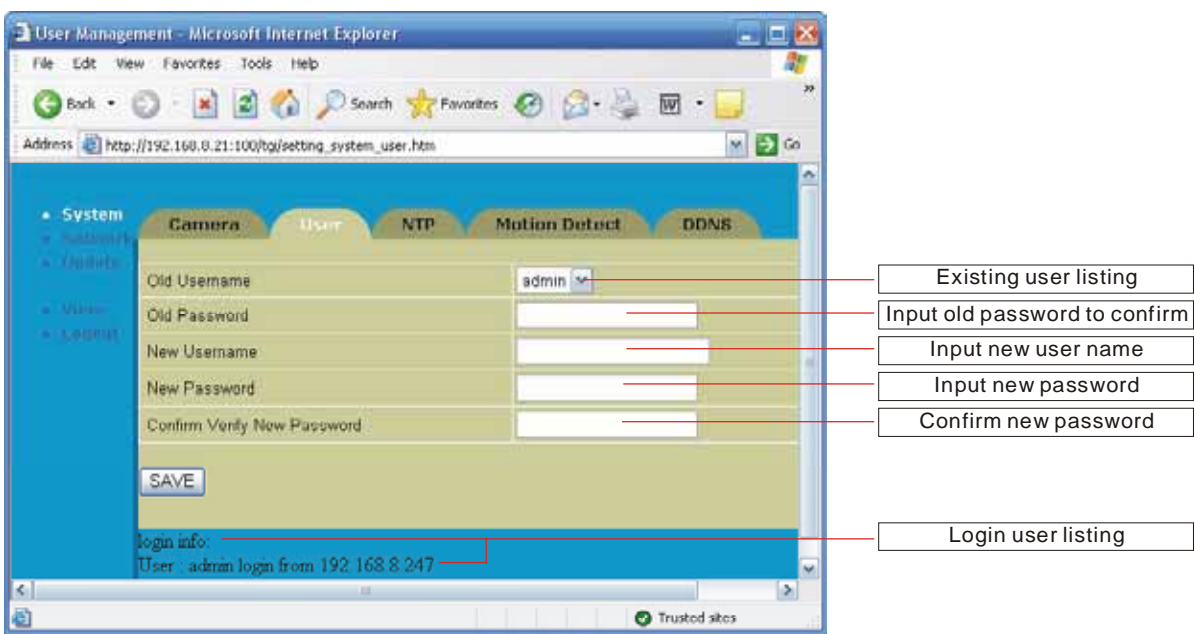
- Digital pan/tilt
- Snapshots(to c:\webcam)
- Logout
- IP Cam settings
- Digital Zoom-in /zoom-out
- Image Settings
- On-screen display(OSD) (time stamp)
- CMOS sensor refresh rate
- Status: resolution/number of user/frame rate
Note: if displayed in red ,it means motion Detection occurs
- Status: IP Camera boot time
- Recording (left click and then right click) in viewing arca



System
Camera

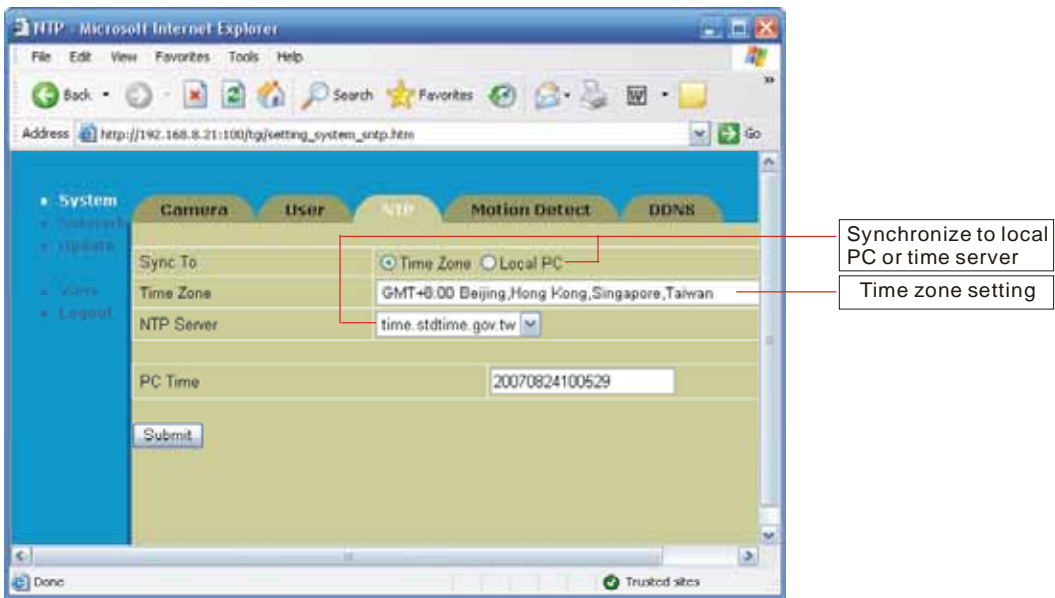


User



Note: there are pre-defined three users “ admin ” , “ user1 ” , and “ user2 ” . User “ admin ” has administrator privilege while others are limited to view only. Also, there can be only one user login on a PC at a time. One user should logout before another user to login.

NTP



Motion Detection

Motion Detect - Microsoft Internet Explorer
Address: http://192.168.1.88:100/cgi/setting_system_motiondetect.htm

System | Camera | User | NTP | **Motion Detection** | DDNS

Motion Detection Enable: ☒ enable

Motion Detection Sensitivity: 10 (High:1 - Low:15)

Mail when motion detected: ☒ enable

Motion Detected Interval: 60 sec

Sender E-mail: jacky1979888@163.com

Receiver E-mail: dallas_dev@163.com

SMTP Server: smtp.163.com

SMTP Authentication: ☒ enable

SMTP Account: jacky1979888

SMTP Password: *****

FTP when motion detected: ☒ enable

Motion Detected Interval: 60 sec

FTP Server:

FTP Username:

FTP Password:

FTP Upload Path:

SAVE

Trusted sites

Callouts:

- Enable/disable motion detection
- Enable e-mail when motion detected
- Intervals between two successive mail
- E-mail address and SMTP server settings
- Enable ftp when motion detected
- Intervals between two successive ftp
- FTP server related settings

DDNS

Dynamic DNS - Microsoft Internet Explorer
Address: http://192.168.8.21:100/cgi/setting_system_ddns.htm

System | Camera | User | NTP | Motion Detect | **DDNS**

DDNS Function: ☐ enable

DDNS Server: ☒ DynDns

Domain Name:

Account:

Password:

SAVE

Trusted sites

Callouts:

- Enable/disable DDNS function
- Currently DynDNS server is supported
- Enter domain name, account, and password from DynDNS server

Network

LAN Settings

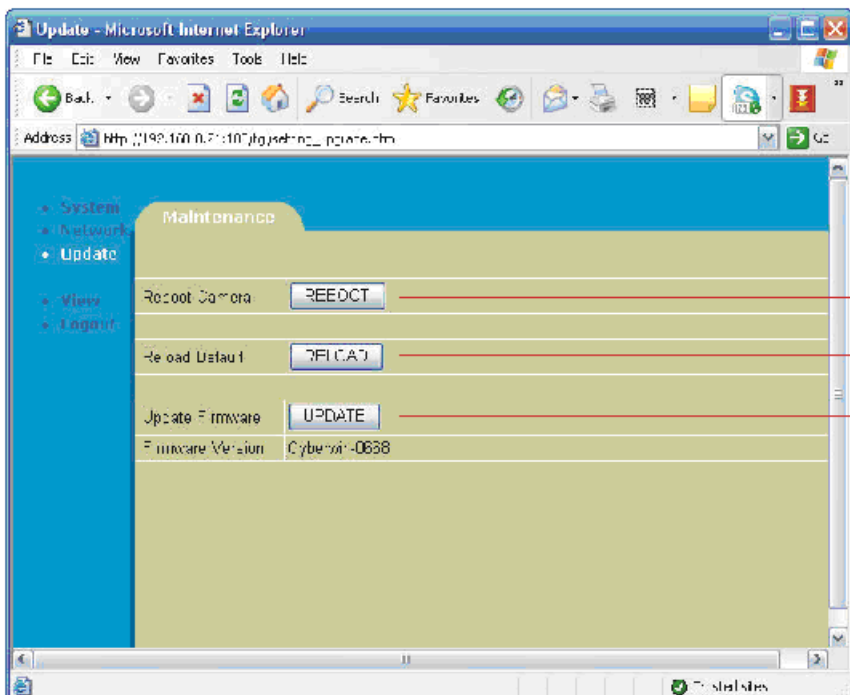
The screenshot shows the 'Setting LAN - Microsoft Internet Explorer' window. The address bar displays 'http://192.168.1.00:100/cgi/setting_network_lan.htm'. The left sidebar contains a tree view with 'System', 'Network', 'Upgrade', 'View', and 'Logout'. The main content area is titled 'LAN Settings' and 'Wireless LAN Settings'. The 'LAN Settings' tab is active, showing three radio button options: 'Obtain IP address automatically (DHCP)', 'PPPoE', and 'Use the following IP settings'. The 'DHCP' option is selected. Below these options are input fields for 'User Name' and 'Password' under the 'PPPoE' section. Under the 'Use the following IP settings' section, there are input fields for 'IP Address', 'Subnet Mask', 'Default Gateway', and 'DNS Server', each with a table of values. At the bottom, there are input fields for 'Control port' and 'Video port'. A 'SAVE' button is at the bottom left. On the right side, four text boxes with red lines pointing to specific settings provide additional information:

- Checked:DHCP**
Unchecked:Fixed IP
(IP camera firmware update needs to be set to fixed IP)
- PPPoE settings
- Network settings
- IP Camera control and video port, allow these two ports in port forwarding settings (of router) to enable remote surveillance

Wireless LAN Settings

The wireless LAN setting is invalid in this model.

Firmware Update



The screenshot shows a web browser window titled "Update - Microsoft Internet Explorer" with the address bar displaying "http://192.168.0.7:8080/jsp/setting_maintenance.htm". The main content area is titled "Maintenance" and contains the following options:

Maintenance	
Reboot Camera	REEDCT
Reload Default	REFLCAO
Update Firmware	UPDATE
Firmware Version	CyberShot-0638

Annotations on the right side of the image:

- Click to reboot IP camera
- Click to reload factory default
- Online firmware update

note: the IP camera should be set to fixed IP and wired mode before firmware update can start

Technical Specification

Image Sensor:

Sensor Type:	1/4" Color CMOS sensor
Sensor Resolution:	640x480 pixels
Lens:	f: 6.0mm, F:1.8
Viewable Angle:	60°

Video:

Image Compression:	Motion JPEG
Image Frame Rate:	Up to 20fps@QCIF Up to 20fps@QVGA Up to 15fps@VGA
Quality level:	5 levels
Video Resolution:	160x120, 480x320, 640x480
Image Setting:	contrast, brightness, sharpness and saturation
Digital Zoom:	2 levels

Hardware:

MCU:	MR8910, TF520
RAM:	2MB
Flash ROM:	1MB

Communication:

LAN Port:	RJ45 10/100M Base
Supported protocols:	TCP/IP, SMTP client, HTTP server, FTP client, DHCP client, NTP client, DDNS, PPPOE

Power:

Power Supply:	DC 5V, 2A, External power supply
Power Consumption:	4.5W @ 900mA/5V(max.)

Environment:

Operating Temperature:	0 ~50
Operating Humidity:	20%~85%, no-condensing
Storage Temperature:	-10 ~60
Storage Humidity:	0%~90%, no-condensing

EMI:	FCC , CE
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