



802.11g Wireless Internet Camera

User Manual

Version: 1.0

Released Date: Jan., 2005

Contents

1.	Introduc	tion		1
2.	Package	e Conten	t	1
3.	System	Requiren	າent	1
4.	Hardwai	e Installa	ition	2
	4.1.	LED and	Focusing	2
	4.2.	Camera	Ports	3
	4.3.	Installatio	n Procedure	4
5.	Software	e Installa	tion	5
6.	Using th	e Admini	strator Utility	10
	6.1.	General	Setting	11
	6.2.	Detail Se	tting	12
	6.2.1	. Netv	v ork Setting	14
	6.2.2	. Wire	ess Setting	15
	6.2.3	. E-N	ail Setting	19
	6.2.4	. Res	olution	20
	6.2.5	. Adv	anced Setting	21
	6.2.6	. Pas	sw ord	22
	6.2.7	. Тоо	s	23
	6.2.8	. Abc	ut	24
	6.3.	Setting V	√izard	25
7.	Using th	e Camer	a Viewer	27
	7.1.	Panel Int	roduction	27
	7.2.	Camera	Buttons	28
	7.3. Camera Status		Status	29
	7.4. Control Buttons		29	
	7.5. Video Recording		31	
	7.6.	Change	Resolution	32
	7.7.	View Fou	Ir Cameras Simultaneously	33
	7.8.	View er L	tility Setting	33
	7.8.1	. Sett	ing	34
	7.8.2	. Rec	ording	36

	7.8.3	Status		
	7.8.4	Genera	l	
	7.8.5	About		
	7.9.	Playback		41
	7.10.	Rotate Video)	
8.	Web Co	nnection and	d Setup	44
	8.1.	Camera Sett	ing	45
	8.2.	Netw ork Set	ting	
	8.3.	Wireless Set	ting	
	8.4.	Passw ord Se	etting	53
9.	Frequen	tly Asked Qu	uestions	55
10.	Technica	al Specificati	ons	56
11.	Appendi	A Router/C	Sateway Setup for Internet Viewing	57
12.	Appendi	k B Viewing	via UPnP in Windows XP	59

1. Introduction

Thank you for choosing the Internet Camera. This Internet Camera sends live video through 10/100 Mbps wired or 54 Mbps 11g wireless network to a web browser or camera view er across Internet anyw here in the world! This compact, self-contained unit lets you keep an eye on your home, your kids, and your workplace—w hatever's important to you.

How does the Camera do all of this? Unlike standard "web cams" that require an attached PC, the Internet Camera can connect directly to a network. The Motion JPEG video compression produces a high quality, high-frame rate, 640 x 480 video stream.

The included Camera View er utility lets you record the video stream to your local hard drive, "live" or on a predetermined schedule.

Use the instructions in this Guide to help you integrate the Camera into your network. These instructions should be all you need to get the most out of the Internet Camera.

2. Package Content

- One Internet Camera
- One Antenna
- One Pow er Adapter
- One Camera Stand
- One 100M Category 5 Ethernet Cable
- One Quick Installation Guide
- One CD (Including Manual/Utility/Driver)

If any of the above items are missing, please contact your supplier.

3. System Requirement

System requirement for PC, MAC or Notebook PC to access the Internet Camera are:

- OS System: Windows 98SE, Me, NT, 2000, XP, Server 2003
- CPU: Intel Pentium III 750 MHz above or Intel Celeron 1 GHz above
- Memory Size: 128MB (256MB recommended)
- VGA Card Resolution: 800 x 600 or above

4. Hardware Installation

4.1. LED and Focusing

The Camera head and its focus ring allow you to modify the aim and focus of the Camera. To adjust the Camera's focus, rotate the dark focus ring.

There are four LEDs indicating the camera status and networking status.

Monitoring

When someone is viewing the camera, the LED will light.

Ready

When the camera is pow er on and ready for access, the LED will light.

• WLAN

When the Internet Camera is linking to a Wireless LANAP or a Wireless Station, the LED is lighting. The LED is flashing when video is transmitted or received through wireless network.

• LAN

When the Internet Camera is linking to wired network, the LED is lighting. The LED is flashing when video is transmitted or received through wired network.



4.2. Camera Ports

The Camera features three ports and a Reset button.

Antenna Connector

This round connection is standard Reverse SMA connector where any antennas with Reverse SMA connector can connect to the Internet Camera.

• Power

The Pow er port is where you can connect the pow er adapter.

• LAN

The LAN port is where you can connect the Ethernet network cable.

- Reset
 - If problems occur with your Internet Camera, press the reset button with a pencil tip (for less than 2 seconds) and the Internet Camera will re-boot itself, keeping your original configurations.
 - 2. If problems persist or you experience extreme problems or you forgot your password, press the reset button for longer than 5 seconds and the Internet Camera will reset itself to the factory default settings (warning: your original configurations will be replaced with the factory default settings).



4.3. Installation Procedure

- 1. Unpack the Internet Camera package and verify that all the items listed in the Chapter 2 are provided.
- 2. Connect the Internet Camera to your network by attached the network cable from the sw itch/router to the UTP port of the Internet Camera.
- 3. Connect the power adapter to the Internet Camera and plug the power adapter to power outlet. The Internet Camera will be powered on. When the Internet Camera is ready, the Ready LED will show orange color.

Note: It is highly recommended to use the power adapter shipped with the Internet Camera, do NOT use any other power adapter from any sources.

5. Software Installation

Follow the simple steps below to run the Install Wizard to guide you quickly through the Installation process. The follow ing installation is implemented in Windows XP. The installation procedures in Windows 98SE/Me/2000/Server 2003 are similar.

- Insert the CD shipped along with the Internet Camera into your CD-ROM drive. The "Autorun.exe" program should be executed automatically. If not, run "Autorun.exe" manually from "Autorun" folder in the CD.
- The Install Wizard will show four selections, select the program you want to install or click "Exit" to install the program later. The following installation steps are the demonstration of "IC-1000/Wg" and "Click To Setup".



3. The system will start the installation procedures. Click "Next" to continue installation.



4. If you wish to install the software program in an alternate location, click "Change"; otherwise click "Next" to move on to the next step.

Internet C	amera - InstallShield Wizard		
Choose D Select fo	Destination Location Ider where setup will install files.		X
	Install Internet Camera to: C:\Program Files\Internet Camera		Change
InstallShield -		< Back Next >	Cancel

5. Click "Install" to start installing the program.



6. The system will install the program automatically.

Internet Camera - InstallShield Wizard	X
Setup Status	
Internet Camera Setup is performing the requested operations.	
Installing	
C:\Program Files\Internet Camera\util\util.exe	
InstallShield	Cancel

7. Click "Finish" to complete the software installation.

Internet Camera - InstallShield Wizard		
	InstallShield Wizard Complete The InstalShield Wizard has successfully installed Internet Camera software. Click Finish to exit the wizard.	
K Back Finish Cancel		

8. When the installation is completed. The system will auto run "Administrator Utility". On the Internet Camera first page, the cameras found in the network are listed in the left window. Choose the one you want to configure and click "Setting Wizard" to proceed.



9. Please enter the default passw ord "1234" and click "OK" to login to the IP setup page.

Input the Password 🛛 🛛 🔀		
Name: admin	_	
Password:		

10. Internet Camera is working through the network (TCP/IP Protocol). The IP address setting must be correct, or you cannot access to the camera. The wizard program will detect the IP address status of your network automatically and suggest a free IP address for the Camera. You can accept the suggested value or enter the value manually. If you enter the value manually, please be aw are that the "Subnet Mask" must be the same for both the camera and the PC. Click "Finish" to apply the configuration.

Internet Camera Config Wizard 🛛 🛛 🔀		
Internet Camera Name:	IPCamera_MJPEG	
IP Address:	192.168.2.250	
Subnet Mask:	255 . 255 . 255 . 0	
Gateway:	0.0.0.0	
Video Port:	4321	
	Cancel	

11. This wizard will pop up a window to ask you if you want to run the "Camera View er" and see the video of the Camera immediately. Select "OK" to run "Camera View er".

Run Camera Viewer 🛛 🛛 🔀		
Do you want to Run Camera Viewer ?		
ОК	Cancel	

12. The "Camera View er" will show the video automatically. Congratulations, you can use the camera through the network to view the video from now on.



6. Using the Administrator Utility

The Administrator Utility allows users to search and setup the cameras located within the Intranet or on the Internet. From the utility, users can view all the information of the selected camera; furthermore, it provides a setting wizard, which can guide users to add the camera to the network easily and promptly.

There are two ways to run the Administrator Utility as follows.

- 1. Click "Start", select "Programs\IP Camera\Admin Utility" to run the utility.
- 2. Click the "IP Camera Admin" icon to run the utility.

Once the utility is started, it will search all the cameras within the network. To do more settings, please refer to the description in the following sections.



6.1. General Setting

LAN		
Auto Discover	Click the button will search the camera within the network automatically.	
Camera List	The list show s the camera name and the setup status of the camera. N IPCamera_MJPEG It means the camera is in the default setting. IPCamera_MJPEG It means the camera is configured before.	
Internet		
Add	Click "Add" will appear a window for you to enter the IP Address of the camera on the Internet.	
Delete	Click "Delete" to delete the camera from the list.	

Camera List	The list show s the camera name and the connect status of the camera. D Unknown Camera 1 It means the camera is disconnected or not in the Internet. M IPCamera_MJPEG It means the camera is connected.
Information of Camera	
Camera Information	It displays all information of the selected camera. The information includes Firmw are Version, Netw ork Information, IP Address, UPn P Setting, DDNS Setting, Wireless Setting, Resolution and E-mail setting, etc.
Camera Setting	
Detail Setting	Click "Detail Setting" to do more setting of the camera such as IP address, Resolution, passw ord and firmw are upgrade, etc.
Setting Wizard	Click "Setting Wizard" to setup the necessary setting for the camera.

6.2. Detail Setting

When you click the "Detail Setting", a screen will pop up for you to enter the "Administrator Name" and "Password". The default value is as follow s.

Name: "**Admin**"

Passw ord: "1234"



Input the Password 🛛 🛛 🔀		
Name: admin Password:	ОК	

If the name and password you enter are correct, you can start to setup the camera.

6.2.1. Network Setting

Edit Internet Camera 🛛 🔀		
Network Setting E-Mail Setting R	Resolution Advanced Setting Par	
Internet Camera Name:	IPCamera_MJPEG	
IP Address:	192 . 168 . 2 . 250	
Subnet Mask:	255 . 255 . 255 . 0	
Gateway:	0.0.0.0	
DNS Server:	168 . 95 . 192 . 1	
Video Port:	4321	
Web Port:	80	
	OK Cancel	

Network Setting	
Internet Camera Name	The default camera name is "WIPCamera_MJPEG". It is
	recommended to name a meaningful name for the camera.
IPAddress	Enter an unused IP Address within the IP address range used on
	your LAN. If the IP Address of your LAN is from the 192.168.2.1
	to 192.168.2.254, you can set an unused IP Address from the
	range for the camera, for example: 192.168.2.250.
Subnet Mask	The Subnet Mask field must match the subnet setting on your
	LAN. For example: 255.255.255.0.
Gatew ay	The Gatew ay is used to forw ard frames to destinations in a
	different subnet on the Internet. The Gateway setting must be the
	same with the gatew ay used by the PCs on your LAN.
DNS Server	DNS Server (Domain Name Server) that translates names to IP
	addresses. Set the same DNS Server as the PCs on your LAN.

Network Setting	
Video Port	The Video Port is used to transmit or receive the video streaming
	in the netw ork. The default port setting is "4321". If you want to
	view the video from the camera, the port setting should be
	correct.
Web Port	This camera support web connection, the default web port is 80.
	Since the web server may use port 80, you can use a different
	port for the camera. If you change the web port from 80 to 8080,
	you must type http://192.168.2.3 to connect the camera
	through the web browser.

6.2.2. Wireless Setting

If you want to use the Internet Camera through wireless LAN, please set up the Internet Camera through Ethernet first and make sure your wireless LAN setting is correct. After setting the wireless LAN, unplug the Ethernet cable then you can start to use the Internet Camera through wireless LAN. If the wireless configuration does not work, please plug the Ethernet cable again, and configure the Internet Camera through Ethernet until the wireless LAN settings are correct.

Edit Internet Camera		$\overline{\mathbf{X}}$
Network Setting Wireless Setting E-Mail Setting Resolution Advanced Set	tting Password	Tools About
Wireless Setting 📀 Enable 🕤 Disable		
Available Network	-Network Informa	tion
SSID Signal		
GOOD	Network Type	Infrastructure
	SSID	ОВМ
	Channel	5
Refresh Connect Add to Profile	BSSID	00:50:fc:8c:b6:0f
Profile List Profile N.,, SSID Channel Network ,.,, Encryption	Encryption	Disable
	Signal Strength	GOOD
Add Edit Delete Activate		
		OK Cancel

Add Profile		×
Profile Name		
SSID		
Channel	6	
Network Type	Infrastructure C Ad Hoc	
Encryption	C Enable 💿 Disable	
Key Length	€ 64-bit C 128-bit	
Key Format	• HEX C ASCII	
Default Key	Key 1	
Key 1	****	
Key 2	*****	
Key 3	******	
Key 4	*****	
	?? ??	

Wireless Setting	
Wireless Setting	Enable or disable the wireless function of the Internet Camera. By default, the function is disabled.
Available Network	
Available Network	This list show s all available w ireless networks within range of your Internet Camera. It also displays the information of the networks including the SSID and Signal Strength. If you want to connect to any networks on the list, double-click the item on the list or select the item and click "Connect", and the Internet Camera will automatically connect to the selected network.
Refresh Button	Click "Refresh" button to collect the new information of all the wireless networks nearby.
Connect Button	Click "Connect" to connect to the selected network.
Add to Profile Button	Add the selected netw ork to Profile List and save it in your PC.

Profile List

Profile List	The "Profiles List" is for you to manage the networks you connect to frequently. The profile list displays all the profiles and the relative settings of the profiles including Profile Name, SSID, Channel, etc. If you want to connect to any profiles on the list, double-click the profile or select the profile and click "Activate", and the Internet Camera will automatically connect to the selected profile.
Add/Delete/Edit Button	Click these buttons to add/delete/edit the selected profiles.
Activate Button	Click "Activate" to connect to the selected profile. When a profile is activated, the card will be initially connected to the profile.
Configure the Profile	
Profile Name	Define a recognizable profile name for you to identify the different netw orks.
SSID	The SSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the unintentional merging of two co-located WLANs.
	You may specify a SSID for the card and then only the device with the same SSID can interconnect to the card. If you want to add one of the networks nearby to the profile list, pull down the menu, all the networks nearby will be listed and you can add one of them to the profile list.
Channel	This setting is only available for Ad Hoc mode. Select the number of the radio channel used for the networking. The channel setting should be the same with the network you are connecting to.
Netw ork Type	Infrastructure – This operation mode requires the presence of a Wireless LAN Access Point or Router. All communication is done via the Access Point or Router. Ad-Hoc – Select this mode if you want to connect to another wireless stations in the Wireless LAN network without through an Access Point or Router.
Configure the Profile	

Encryption	Enable or disable the encryption function for the wireless data communications.
Key Length	You may select 64-bit or 128-bit to encrypt transmitted data. Larger key length will provide higher level of security, but the throughput will be low er.
Key Format	Hexdecimal – Only "A-F", "a-f" and "0-9" are allow ed to be set as WEP key. ASCII – Numerical values, characters or signs are allow ed to be WEP key. It is more recognizable for user.
Default Key	Select one of the keys (1~4) as the encryption key.
Key1 ~ Key4	The WEP keys are used to encrypt data transmitted in the wireless network. Fill the text box by follow ing rules below . 64-bit – Input 10-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII characters (including "a-z" and "0-9") as the encryption keys. For example: "0123456aef" or "test1". 128-bit – Input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 13-digit ASCII characters (including "a-z" and "0-9" range) or 13-digit ASCII characters (including "a-z" and "0-9") as the encryption keys. For example: "01234567890123456789abcdef" or "administrator".
Network Information	
Network Information List	This list shows the detailed network information of the selected network from the Available Network list. The information including Network Type, SSID, Channel, BSSID, Encryption Setting and Signal Strength. BSSID is the MAC Address of the wireless devices.

6.2.3. E-Mail Setting

Edit Internet Can	nera		
Network Setting	E-Mail Setting p	Resolution Advanced Setting	Pa:
			.
E	-Mail Account:	user@mailserver.com	
	SMTP Server:	mailserver.com	
		ОК	Cancel

E-Mail Setting	
E-Mail Account	This camera supports "Snap Shot" function. You can snapshot a picture and send the picture by E-Mail. Enter the E-Mail Account
	for receiving the picture.
SMTP Server	Enter the SMTP Server for the E-Mail sending.

6.2.4. Resolution

Edit Internet Camera			
Network Setting E-Mail Setting	Resolution	Advanced Setting	Pa:
Resolution:	320x240 160x120 320x240 640x480		
		ок	Cancel

Resolution Select the desired video resolution format. Larger resolution requires more bandw idth. 640 x 480 is "VGA" format. 320 x 240 is "CIF" format.

6.2.5. Advanced Setting

Edit Internet Camera	
Network Setting E-Mail Setting Resolution Advanced Setting	Pat 🔸 🕨
C Enable C Disable	
DDNS	
C Enable 📀 Disable	
Provider DynDNS	
Domain Name	
Account	
Password	
	Cancel

Advanced Setting	
UPnP	When the UPnP function is enabled, the camera can be detected by UPnP compliant system such as Windows XP. The camera will be displayed in the Neighborhood of Windows XP, so you can directly click the camera to view the video through web browser.
DDNS	Many internet connections use a "Dynamic IP address", where the Internet IP address is allocated dynamically whenever the Internet connection is established. Internet users should know the IP Address of the camera when they want to connect to the camera every time. DDNS is designed to solve this problem, by allow ing users to connect to your LAN using a domain name, rather than an IP address.
Enable/Disable	Enable or disable DDNS function of the camera.
Provider	Several companies provide DDNS service. This camera supports the service from Dyn DNS w ho is one of the DDNS providers.

Advanced Setting	
Domain Name	The domain name given by DynDNS is
	"registername.dyndns.com". Enter the domain name that you
	register for the camera from DynDNS web site.
Account	Enter the login name for the DDNS service.
Passw ord	Enter the passw ord for the DDNS service.

6.2.6. Password

Edit Internet Camera	\mathbf{X}
E-Mail Setting Resolution Advanced Settin	g Password Tools
Current Password:	
New Password:	
Confirm New Password:	
	OK Cancel

Password	
Current Passw ord	Enter the current password of the camera.
New Password	Enter the new password you want to use for the camera.
Confirm New Password	Retype the new password to confirm the setting.

6.2.7. Tools

Edit Internet Camera	×
Resolution Advanced Setting Password Tools About	•
Firmware Version: 1.11 Firmware Update	
Reset to Default	
OK Cance	

Tools	
Firmw are Version	Display current firmw are version.
Firmw are Update	The utility is not allow ed users to upgrade firmw are. Please
	upgrade firmw are in the Web Management.
Reset to Default	If you want to reset the camera, click this button. The default
	settings of the camera are as follow s.
	Camera Name: "WIPCamera_MJPEG"
	IPAddress: "192.168.2.3"
	Subnet Mask: 255.255.255.0
	Administrator Name: "Admin"
	Passw ord: "1234"
	Video Port: "4321"
	Web Port: "80"

6.2.8. About



About	
Administrator Utility	Display current Administrator Utility Version.
Version	

6.3. Setting Wizard

When you click the "Setting Wizard", a screen will pop up for you to enter the "Administrator Name" and "Passw ord". The default value is as follow s.

Name: "**Admin**"

Passw ord: "1234"

Input the Password	\mathbf{X}
Name: admin	Í
Password:	ОК

If the name and password you enter are correct, you can start to setup the camera.

Internet Camera Config	Wizard	X
Internet Camera Name:	IPCamera_MJPEG	
IP Address:	192.168.2.250	
Subnet Mask:	255 . 255 . 255 . 0	
Gateway:	0.0.0.0	
Video Port:	4321	
	Cancel	

Setting Wizard	
Internet Camera Name	The default camera name is "WIPCamera_MJPEG". It is
	recommended to enter a meaningful name for the camera.

Setting Wizard	
IP Address	The wizard will auto setup an available IP Address to the camera. For example: if the IP address of the network is 192.168.2.x, the wizard will search an unused IP Address from 192.168.2.250 to 192.168.2.0 and assign the camera an available IP Address.
	You are allowed to enter another IP Address to change the setting.
Subnet Mask	The wizard will auto search the Subnet Mask setting of the network and set the camera in the same Subnet Mask.
	You can enter another Subnet Mask to change the setting.
Gatew ay	The wizard will auto search the Gatew ay setting of the network and set the camera to use the same Gateway.
	You can enter another Gatew ay to change the setting.
Video Port	It defines the video stream port. The default value is "4321".
Cancel	Click "Cancel" to stop w zard setting.
Finish	Click "Finish" to complete the camera setting.

Run Camera Viewer 🛛 🔀	
Do you want to Run Camera Viewer ?	
OK	Cancel

When you finish the camera setting, you can click "Ok" to run the "Camera View er" immediately or click "Cancel" to run the "Camera View er" later.

7. Using the Camera Viewer

The Camera View er Utility allows users to view video from up to four cameras. It also allow s users to manual/schedule record video and playback the recording file. The status of camera view ing such as frame rate, video received, and etc. are also recorded in time.

There are three ways to run the Camera View er Utility as follows.

- 1. Click "Start", select "Programs\IP Camera\Camera View er" to run the utility.
- 2. Click the "IP Camera View er" icon to run the utility.
- 3. Click "Setting Wizard" from Administrator Utility and follow the instructions in the utility.

7.1. Panel Introduction

In the beginning when you start the Camera View er, you would see a Control Panel and a four division View er window.





7.2. Camera Buttons



Camera Buttons	
Camera	Click one of these four cameras will connect to the selected
	camera that you want to view and configure. If you want to
	remove the camera from the view er, please right click the icon
	and select "Reset Camera x". If you want to configure the
	camera, please right click the icon and select "Configure Camera
	x".

7.3. Camera Status

There is a status bar show n different color to indicate the status of each Internet Camera.



Camera Status	
Yellow	It means that there is no camera set to connect.
Blue	It means that the camera is connected and playing the live video.
Pink	It means that the camera is not connected now.
Red	It means that the camera is recording.

7.4. Control Buttons



Control Buttons	
Play	The "Play" button is an intelligent play user-interface. In the
	normal display mode and the Internet Camera is disconnected,
0	clicking on the "Play" can make the view er connect to the Internet
	Camera. In the playback mode, clicking on the "Play" can play the
	video in the normal speed.
Stop	The "Stop" button is an intelligent play user-interface. In the
	normal display mode and the Internet Camera is connected,
	clicking on the "Stop" can make the view er disconnect the
	camera. In the playback mode, clicking on the "Stop" can stop
	playing the video.
Pause	The "Pause" button provides you a way to pause the current
The	video display. When the displaying video is paused, click on the
	"Play" again to resume the video display.
Forw ard	The "Forw ard" button to forw ard the speed of display when
1	playback the recording file. Click the button at a time will increase
	the playing speed one time.
Constant	
Snapsnot	Click Shapshot will make the view of to take a shapshot of the
0	video and save the picture as a bitmap file in the hard disk. (Fou
	7 8 4)
	1.0.7
Record	By clicking on "Record" you can record video immediately.
0	

7.5. Video Recording

This utility allows you record the video in AVI format files. There are two ways of video recording – Manual Recording and Schedule Recording.

Manual Recording

You can manually record the video stream into an assigned video file.

Click "Record", then the "Record to Disk" window will pop up. Assign the path and file name that you want to save and click "Save", then the view er utility will start to record the video stream. If you want to stop recording, click "Stop".

Note: Before manual recording, you have to click the camera button to select the Internet Camera that you want to record first and make sure that the view er is successfully connecting to the Internet Camera.

Recor	d To Disk				
Look in: [)) admir) util) test.a	S:/Program Files/Internet Camera/	+	£	ď	
ile name:	(T			c	240

Schedule Recording

You can assign a schedule and let this view er automatically recording the video stream into video files. Please refer to Section 7.8 to see how to setup schedule for the recording. The file name of the recorded video file is the start time of recording. For example, the file name "IPCamera_MJPEG_2004-10-8-23-56-40.avi" was started to record at 2004/10/8 23:56:40.

7.6. Change Resolution

The Internet Camera supports two resolution, 640x480 (VGA) and 320x240 (CIF). You can change the resolution of each Internet Camera by clicking the resolution button.

Note: Before changing the resolution of the Internet Camera, you have to select the Internet Camera by clicking the camera button first. If you change the resolution of an Internet Camera, other clients that are view ing the same Internet Camera simultaneously will also see the video with the changed resolution, too.



Resolution	
VGA	Change the resolution to 640x480 (VGA) mode.
CIF	Change the resolution to 320x240 (CIF) mode.

7.7. View Four Cameras Simultaneously

Click the four division button (a) can view the 4 cameras simultaneously in a four-division window. When



7.8. Viewer Utility Setting

Click the "Setting" (A), then the setting window of the Internet Camera will pop up. **Note:** When you want to change the settings such as IPAddress, Video Port, etc. in the "Setting" option, you must disconnect the Internet Camera first by clicking the "Stop".

	Internet	t Camera Se	ettings		? 🗙
[Setting	Recording	Status	General	
			Name: IP Address: Video Port: Model: Username: Password:	IPCamera_MJPEG 192.168.2.3 4321 MJPEG Camera admin ••••• Discover	
				<u> </u>	el

7.8.1. Setting

8	Internet	t Camera Se	ettings	? 🛛
٢	Setting	Recording	Status	General
			Name: IP Address: Video Port: Model: Username: Password:	IPCamera_MJPEG 192.168.2.3 4321 MJPEG Camera admin •••••
				Discover
				<u>D</u> K <u>C</u> ancel



Setting	
Name	It is not required to fill the camera name for connecting camera. It is for users to identify the camera.
IPAddress	IP address/Domain name of the Internet Camera.
Video Port	The number of service port used by the Internet Camera.
Model	Select "MJPEG Camera" (This camera only supports Motion JPEG).
Username	The user name for login into the Internet Camera. By default, the user name is "Admin".
Passw ord	The passw ord for login into the Internet Camera. By default, the password is "1234".
Discover	Click "Discover", then camera auto-discover windows will pop up. The window will show all the discovered cameras on LAN environment for you to select.

7.8.2. Recording

You can setup schedule for the recording here. This utility will record the video stream in the assigned file folder according to the schedule automatically. The recorded video files are AVI format.

Note:

- 1. The utility will only start to record the video stream when this utility is running and is successfully connecting to the Internet camera in the beginning of the schedule.
- 2. The schedule setting of one-time or weekly schedule should not overlap, or the recording will fail.

🕅 Internet Camera Se	ttings		? 🔀
Setting Recording	Status Genera		
One-Time Schedules:			
2004/12/20 19:41	- 2004/12/20	19:42	
New	Edit	Delete	
Weekly Schedules:			
[Mon] 19:42 -	19:43		<u>~</u>
New	Edit	Delete	
			<u>C</u> ancel

🕅 One-Time Schedule 🛛 🔹 💽			? 🗙
One-Time S	chedule		
From:	12/20/2004	🚔 19:41	
To:	12/20/2004	19:42	
	ОК	Ca	ancel

One-Time Schedule

🗟 Weekly Sche	dule	? 🔀
Weekly Schedule		
🔲 Sun 🗹 M	on 🗌 Tue 🗌 Wed 🗌 Thu 🗌 Fr	i 🔲 Sat
From:	19:42	
To:	19:43	
	ОК Са	ancel

Weekly Schedule

Schedule	
Cycle Recording	Select this item to enable cycle recording. When the Cycle
	Recording is enabled and the storage usage has already reached
	the maximum reserved storage space, the utility will automatically
	delete the oldest recorded video file and use the space to store
	the new ly recorded video stream.
One-Time Schedule	You can assign a range of time and the utility will automatically
	record the video stream only during the period of time. The
	default time is 2 minutes later from the current time.
Weekly Schedule	You can assign the days in a week and the period of time in a day
Weekly Conclude	when you want to record the video stream. The utility will
	automatically record the video stream during the periods of time
	every week again and again.

Schedule	
New	Click "New" to add a new recording schedule.
Edit	Select an existing schedule in the schedule list and click "Edit" to edit the schedule.
Delete	Select an existing schedule in the schedule list and click "Delete" to delete the schedule.

7.8.3. Status

You can see the current status information of the connection session between the utility and the Internet Camera.

🕅 Internet Camera Settin	ıgs	? 🔀
Setting Recording	Status General	
Connected: Stream Started At:	Yes 21:02:07	
Time Elapsed (sec):	20	
Video Received (KB) Frame Rate (Frame/s)	: <u> </u>	
Data Rate (KB/s):	43	
Number of Frames:	253	
		<u>OK</u> <u>Cancel</u>



Status	
Stream Started At	The beginning time of the current connection session betw een the utility and the Internet Camera.
Time Elapsed	The elapsed time of the current connection session between the utility and the Internet Camera.
Video Received	The total size (Unit is KByte) of video stream received during the current connection session between the utility and the Internet Camera.
Frame Rate	The frame rate (frame per second) of the current video dow nload speed from the Internet Camera to the utility.
Data Rate	The data rate (KByte per second) of the current video dow nload speed from the Internet Camera to the utility.
Number of Frames	The total number of video frames received during the current connection session between the utility and the Internet Camera.

7.8.4. General

You can manage storage usage for this Internet Camera here.

🕅 Internet Camera Se	ettings	? 🔀
Setting Recording	Status General	
Snap Shot Directory:	C:\Program Files\Internet Camera	Change
Record Directory:	C:\Program Files\Internet Camera	Change
Free Disk Space	231	мв
Max Recording Space	118	мв
Used Disk Space	1	мв
Max Video File Size	2048	МВ
	<u>K</u>	<u>C</u> ancel

General	
Snap Shot Directory	This lets you assign the directory where bitmap files will be stored when you click "Snapshot" to take pictures. The default folder is where the software program is installed, for example: "C:\Program Files\Internet Camera".
Record Directory	This lets you assign the directory where the recorded video files will be stored. The default folder is where the software program is installed, for example: "C:\Program Files\Internet Camera".
Free Disk Space	The current free disk space of the hard drive where is assigned to save recording files.
Max Recording Space	You can reserve a disk space to store the recorded video and snapshot files. If the space is run out, a message will pop up to remind you.
Used Disk Space	The current used disk space for saving the recording file.
Max Video File Size	This let you assign a maximum size of each video file. The upper bound of this value is 2 GB per file.

7.8.5. About



About	
Camera View er Utility	Display current Camera View er Utility Version.
Version	

7.9. Playback

Click the "Open File" and a "Load File" window will be popped up. Select the file that you want to play.

🕈 Load File	
Look jn: 🔄 C:/Program Files/Internet Camera/	💌 🖛 🗈 💣 🏢 🎬
🗀	
🔁 util	
en lest avi	
File name:	Open
File <u>n</u> ame:	<u>Open</u>

The view er will start to play the selected video file.



Playing Control	
Play	When the video playback is in Stop state, just click "Play" and the view er will play the video file from the beginning point. When the video playback is in Pause state, just click "Play" and the view er will play the video file from the current pause point. When the view er is playing with fast speed, just click "Play" to let the view er play with the normal speed.
Pause	When the recorded video is playing, you can click "Pause" to freeze the playback. If you want the viewer to continue playing from the current pause point, just click "Play".
Stop	When the view er is playing, you can click "Stop" to stop the playback. If you want the view er to play again, just click "Play" and the view er will play the video file from the beginning point.

Playing Control	
Forw ard	If you want the view er to play the video file in a faster speed when
-	the view er is playing the video file, just click "Forw ard" and the
300	view er will double the playing speed. If you want the viewer play
	with the normal speed when the viewer is playing with fast speed,
	just click "Play".

7.10. Rotate Video

Rotate function lets you rotate the video frame 90 of degree angle counterclockwise each time

you click the "Rotate" O. With this function, you can view the live video with normal, 90 degree, 180 degree and 270 degree angles counterclockwise. Below is the video with 90 of degree angle counterclockwise rotation.



8. Web Connection and Setup

You can use the Web browser to connect the camera for viewing or setting. Open the web browser and enter the IP Address of the camera to establish a connection. The default IP Address of the camera is "**192.168.2.3**".

When the welcome screen appears, enter the "Admin Name" and "Password". The default values are:

Admin Name: "**admin**" Passw ord: "**1234**"

Microsoft Internet Explorer Fle Edit New Favorites Tools Help G Back +) +	10 X 1 2 X
Address 🔊 http://192.168.2.3	💌 🎦 Go 🛛 Links 🎽
Internet Camera Accommendation in	EDIMAX
Please enter user name and passw User Name : Password : OK: Reset	
2) Done	😵 Internet

When the camera is connected, the video image will be show n up in the web screen directly. The menu options for the web control screen are as follows.

Camera Setting – View live video and adjust the video format from the menu.

Network Setting – Setup the camera functions in the menu.

Wireless Setting – Configure the Internet Camera to connect to a wireless network.

Password Setting – Up to four sets of user name and password can be set here.

8.1. Camera Setting



Camera Setting	
Digital Zoom	It allows you to zoom in or zoom out the video size.
	Click "x2", the image size in the display area will be magnified 2
	times to the original size. In 640x480 resolution, only central area
	of the screen will be magnified two times. Click " $x1$ ", the image
	size in the display area will be minified to the original size.
Frequency	Select the line frequency (50 or 60MHz) to improve the view ing
	quality under the fluorescent light.
Resolution	Select the desired video resolution format. Larger resolution
	requires more bandw idth. 640 x 480 is "VGA" format. 320 x 240 is
	"CIF" format. The default resolution is CIF format.

Camera Setting	
Snapshot & Mail	If you want to snapshot a picture for the current video, click this
	button. The system will send the picture to the E-Mail account you
	set up in the "E-Mail Setting" immediately.
Apply	Click "Apply" to validate "Frequency" or "Resolution" setting.

8.2. Network Setting

Microsoft Internet Explo	rer	1105						
FIG COL NEW Favories	1005	Hep				12-12-12-12-12-12-12-12-12-12-12-12-12-1		
🌀 Badk 🔹 🐑 🕙 🔛	2 (Search	Tavorit	es 🚱 🔂 - 👙	2 3		
ddress 👌 http://192.168.3	2.3						💌 🛃 G0 🛛 L	nks
Int	ern	et Ga	imer	8 100.00	rww.edimax.com.tw	Σ	DIMAX	
Camera Setting	stwork S	Secting	• Wire	less Setting	Password Settin	9		
Change	Admin P	assword	Apply		Email Setting	Apply		
Current Pas	sword		201 - 203		E-Mail Add :	User@mailServer.com]	
New Passw	and			1	SMTP Server	MailServer.com		
Contirm Plas	ssword]	SMTP Auth	O Enable O Disable		
					SMTP Account]	
					SMTP Password		1	
· IP Infor	mation	Apply			DENS Service	Apply	-	
IP Address	192	168	1	. 23	Control Con	(care d		
IP Address	255	255	248	0	U Enable () Di	53010		
Gateway	102	168	1	. 14	Provider	DynDNS V		
DNS Server	168	. 85	192	1	Domain Name			
Video Port	4321				Account			
Web Port	80	1			Password			
• Camera	Informa	tion (Ap)	ply		• UPNP Apply			
Dane		-			0		Internet	

Change Admin Password				
Current Passw ord	Enter current password.			
New Password	Specify the new password you want to change to.			
Confirm Passw ord	Enter the new password again for confirmation.			
Apply	When you finish the "Change Admin Passw ord", click "Apply".			

	Sotting
l a l	Jelling

E-Mail Address	Set up the E-Mail account as the receiver for the snapshot picture.
SMTP Server	Specify the SMTP mail server for sending E-Mail.
Apply	When you finish the "E-Mail Setting", click "Apply".
IP Information	
IP Address	Enter an unused IP Address within the IP address range used on your LAN. If the IP Address of your LAN is from the 192.168.2.0 to 192.168.2.250, you can set an unused IP Address from the range for the camera, for example: 192.168.2.250.
Subnet Mask	The Subnet Mask field must match the subnet setting on your LAN. For example: 255.255.255.0.
Gatew ay	The Gatew ay is used to forw ard frames to destinations in a different subnet on the Internet. The Gatew ay setting must be the same with the gatew ay used by the PCs on your LAN.
DNS Server	DNS Server (Domain Name Server) that translates names to IP addresses. Set the same DNS Server as the PCs on your LAN.
Video Port	The Video Port is used to transmit or receive the video streaming in the netw ork. The default port setting is "4321". If you want to view the video from the camera, the port setting should be correct.
Web Port	This camera support w eb connection, the default w eb port is 80. Since the w eb server may use port 80, you can use a different port for the camera. If you change the w eb port from 80 to 8080, you must type <u>http://192.168.2.3:8080</u> to connect the camera through the w eb browser.
Apply	When you finish the "IP Information", click "Apply".

Camera Information

Camera Name	The default camera name is "WIPCamera_MJPEG". It is recommended to name a meaningful name for the camera.
Firmware	Display the current firmw are version of the camera.
Apply	When you finish the "Camera Information", click "Apply".
DDNS Service	
Enable/Disable	Enable or disable DDNS function of the camera.
Provider	Several companies provide DDNS service. This camera supports the service from Dyn DNS company.
Domain Name	The domain name given by DynDNS is "registername.dyndns.com". Enter the domain name that you register for the camera from DynDNS web site.
Account	Enter the login name for the DDNS service.
Passw ord	Enter the passw ord for the DDNS service.
Apply	When you finish the "DDNS Service" setting, click "Apply".
UPnP	
Enable/Disable	Enable or disable UPnP function of the camera.
Apply	When you finish the "UPnP" setting, click "Apply".

Reset to Default	To reset the camera to factory default, click "Apply". Then, follow the instruction of the screen to complete the process. The factory defaults are as follow s. Camera Name: "WIPCamera_MJPEG" IP Address: "192.168.2.3" Subnet Mask: 255.255.255.0 Administrator Name: "Admin". Passw ord: "1234"
	Video Port: "4321", Web Port: "80"
Reboot System	To reboot the Internet Camera, click "Reboot System" and click "Apply".
LED Light OFF/ON	There are four LEDs to indicate the status of Internet Camera. If you wan to secure the camera from noticing, you can turn off the LED light by clicking "LED Light OFF" and click "Apply". To turn on the LED light, click "LED Light ON" and click "Apply".
Upgrade Firmw are	Click "Upgrade Firmw are" and "Apply" buttons the Web Management will lead you to enter into upgrade mode. Select the "*.bin" file and click "Upgrade" to start upgrading. Note that the Internet Camera will stay in Upgrade Mode until you finish the firmw are upgrading.

8.3. Wireless Setting

A Microsoft Internet Explo	rer		
A c i new Pavorites			40
G Back • O ·	Search X Favorite	• • • • • • • • • • • • • • • • • • •	
Address 🚷 http://192.168.2	2.3		Go Links '
Int	ernet Camera	ww.edimax.com.to	EDIMAX
• Camera Setting • Ne	twork Setting 🍨 Wireless Setting	Password Setting	
 Wirele 	ess Setting Apply		
	Wireless Connection :	Enable O Disable	
	Mode :	Infrastruct 💌	
	SSID :	dofault	
	Channel	11 💌	
	Add Sitesurvey :	Sitesurvey	
	Encryption Mode :	Disable 💌	
	Key Type:	ASCI V	
	Default Key :	Key 1 😒	
	Key 1.		
	Key 2:		
	Key 3:		
	Key 4:		
Dura			🔿 Internet

Wireless Setting	
Wireless Connection	Enable or disable the wireless function of the Internet Camera. By default, the function is disabled.
Mode	Infrastructure – This operation mode requires the presence of a Wireless LAN Access Point or Router. All communication is done via the Access Point or Router.
	Ad-Hoc – Select this mode if you want to connect to another wireless stations in the Wireless LAN network without through an Access Point or Router.

Wireless Setting	
SSID	The SSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the unintentional merging of two co-located WLANs.
	You may specify a SSID for the card and then only the device with the same SSID can interconnect to the card. If you want to add one of the networks nearby to the profile list, pull down the menu, all the networks nearby will be listed and you can add one of them to the profile list.
Channel	This setting is only available for Ad Hoc mode. Select the number of the radio channel used for the networking. The channel setting should be the same with the network you are connecting to.
Site Survey	Click "Site Survey" button to search all the wireless LAN networks nearby the Internet Camera.
Encryption Setting	
Encryption Mode	Disable – Disable the encryption function for the wireless data communications. WEP64 – Enable data encryption function with 64-bit key length of encryption keys. WEP128 – Enable data encryption function with 128-bit key length of encryption keys.
Кеу Туре	HEX – Only "A-F", "a-f" and "0-9" are allow ed to be set as WEP key. ASCII – Numerical values, characters or signs are allow ed to be WEP key. It is more recognizable for user.
Default Key	Select one of the keys $(1 \sim 4)$ as the encryption key.

Encryption Setting	
Key1 ~ Key4	The WEP keys are used to encrypt data transmitted in the
	wireless network.
	Fill the text box by following rules below.
	64-bit – Input 10-digit Hex values (in the "A-F", "a-f" and "0-9"
	range) or 5-digit ASCII characters (including "a-z" and "0-9") as
	the encryption keys. For example: "0123456aef" or "test1".
	128-bit – Input 26-digit Hex values (in the "A-F", "a-f" and "0-9"
	range) or 13-digit ASCII characters (including "a-z" and "0-9") as
	the encryption keys. For example:
	"01234567890123456789abcdef" or "administrator".
Apply	When you finish "Wireless Setting", click this button to validate
	the setting values.

	1 5 al addres/ www.extertion.com	ii ba		ΣDİ	MAX
g 🔹 Network Setting	• Wireless Setting • Passwo	ord Setting			
y					
SSID	BSSID	Signal	Channel	Encryption	Network Type
TS-6204Wg	00:0e:2e:00:08:2a	Excelent	1	No	Infrastructure
7203	00:50:fc:99:99:88	Excelent	1	Yes	Infrastructure
6F_EMAX	00:0e:2e:ff:ff:01	Excelent	11	No	Infrastructure
	g Network Setting SSID TS-6204Wg 7203 6F_EMAX	g Network Settling Wireless Settling Passwork SSID BSSID TS-6204Wg 00:0e:2e:00:08:2a 7203 00:50:fc:99:99:88 6F_EMAX 00:0e:2e:ff:ff:01	g Network Settling Wireless Settling Pessword Settling SSID BSSID Signal TS-6204Wg 00:0e:2e:00:08:2a Excelent 7203 00:50:fc:99:99:88 Excelent 6F_EMAX 00:0e:2e:ff:ff:01 Excelent	g Network Settling Wireless Settling Password Settling SSID BSSID Signal Channel TS-6204Wg 00:0e:2e:00:08:2a Excelent 1 7203 00:50:fc:99:99:88 Excelent 1 6F_EMAX 00:0e:2e:ff:ff:01 Excelent 11	g Notwork Settling Wireless Settling Pessword Settling SSID BSSID Signal Channel Encryption TS-6204Wg 00:0e:2e:00:08:2a Excelent 1 No 7203 00:50:fc:99:99:88 Excelent 1 Yes 6F_EMAX 00:0e:2e:ff:ff:01 Excelent 11 No

Site Survey	
Site Survey List	The list displays the information of all the wireless networks
	nearby the Internet Camera. The information includes Connect
	Status, SSID, BSSID, Signal, Channel, Encryption Setting and
	Netw ork Type.
Refresh Button	Click "Refresh" button to collect the new information of all the
	wireless networks nearby.
Connect Button	Click "Connect" to connect to the selected network.
Close Button	To close the Site Survey list, click this button.

8.4. Password Setting

The "Passw ord Setting" allows users to add four user accounts who are able to view video from Camera View er and Web Management. These users, unlike Administrator, are not allow ed to configure the camera.

🗿 Microsoft Internet Explorer		
File Edit New Favorites Tools		
😋 Back 🔹 🐑 · 💌 🚨 (🞧 🔑 Search 🤺 Favorites 🚱 🔀	· \$ 2 3
Address at http://192.168.2.3		ど 🛃 Go Links 🎽
Intern	let camera Indervervedenas con	EDIMAX
Camera Setting Metwork	Setting 🔸 Wireless Setting 🚺 Passwor	d Setting
 User 1 		
	User Name :	
	Password	
	Confirm Password :	Apply
• User 2		
	User Name	
	Password :	
	Confirm Password	Apply
• User 3		
	User Name :	
2 Done		🔮 Internet

User 1 / 2 / 3 / 4	
User Name	Up to four sets of user name and password can be added. Enter
	the user name to be the login name to the camera.
Password	Enter up to 4 digits passw ord for the new user account.
Confirm Password	Enter the passw ord again to confirm the setting.
Apply	Click "Apply" to add the user account.

9. Frequently Asked Questions

Q1: What is an Internet Camera?

A: The Internet Camera is a standalone system connecting directly to an Ethernet or Fast Ethernet network. It is different from the conventional PC Camera; the Internet Camera is an all-in-one system with built-in CPU and web-based solutions providing a low cost solution that can transmit high quality video images for monitoring. The Internet Camera can be managed remotely, accessed and controlled from any PC/Notebook over the Intranet via a web browser or camera viewer.

Q2: What algorithm is used to compress the digital image?

A: The Internet Camera utilizes JPEG image compression technology to provide high quality images. JPEG is a standard for image compression and can be applied to various web browser and application software.

Q3: Can I capture or record still images from the Internet Camera?

A: Yes, you are able to capture or record still images with the snapshot function from the Camera Viewer application supplied with the Internet Camera CD-ROM.

Q4: What network cabling is required for the Internet Camera?

A: The Internet Camera uses Category 5 UTP Twisted-pair cable allowing 10 Base-T and 100 Base-T networking.

Q5: Can the Internet Camera be setup as a PC-cam on the computer?

A: No, the Internet Camera is used only on Ethernet and Fast Ethernet network.

Q6: Can the Internet Camera be connected on the network if it consists of only private IP Addresses?

A: Yes, the Internet Camera can be connected to a LAN with private IP Addresses.

Q7: The focus on the Internet Camera is bad, how can I correct it?

A1: Adjust the Internet Camera focus manually.

Q8: There are no images available through the web browser.

A1: The Java Applet might be disabled, it usually happens in Windows XP SP2 and Windows Server 2003. If you are viewing the images from Internet Explorer make sure Java Applet has been enabled in the Internet Options menu (Select Advanced option and then Microsoft VM). To download the free software, please surf http://java.com/en/index.jsp.

10. Technical Specifications

Video specification

Max Resolution: 640 x 480 pixels Sensor: 300,000K pixels 1/4" color CMOS sensor Gain control: Automatic Exposure: Automatic White Balance: Automatic Focal Length: 6.0 mm Aperture: F=1.8

Image (Video Setting)

Image compression: Motion-JPEG Image Video Digital 24-bit Color Frame rate: 30fps@CIF, 20fps@VGA Video resolution: 320x240, 640x480

System Hardware

LAN Connector: One RJ-45 port to connect to 10/100Mbps Ethernet Antenna Connector: One RP-SMA port to connect to antenna LED Indicator: Monitoring LED (Green), Ready LED (Orange), LAN LED (Green), WLAN LED (Green) Pow er Supply: 12VDC, 0.5A

■ HTTP/Utility

Includes easy-to-use Viewer & Recorder utility Provides Admin utility & WEB browser Management View multiple cameras simultaneously - Up to 4 cameras at a time Manual/Schedule Record, Video Playback/Stop/Forw ard/Pause Supports four additional user accounts for viewing camera Auto sending Snap Shot by E-mail Support DDNS and UPnPfunctions Supports Window s 98SE/ME/NT/2000/XP/2003 Firmw are Upgradeable

EMI & Safety

FCC, CE

11. Appendix A Router/Gateway Setup for Internet

Viewing

To view Internet Camera across the Internet, you have to make sure Router/Gatew ay has configured to pass incoming TCP/UDP connections from remote PC to the Internet Camera. The Router/Gatew ay should set port forwarding or virtual server for the connections. Please see the illustration as below.



Router/Gateway Port Forwarding/Virtual Server Setup

Name	Protocol	Port	LAN IP
Setup 1	ТСР	80	192.168.2.3
Setup 2	ТСР	4321	192.168.2.3
Setup 3	UDP	13364	192.168.2.3
Setup 4	UDP	15973	192.168.2.3

Port Definition	
Setup 1	It is the port of Web port. You have to configure the protocol to "TCP".
Setup 2	It is the port of Video port. You have to configure the protocol to "TCP".
Setup 3	It is the port for Internet Camera and Administrator Utility communication. The protocol setting should be "UDP".
Setup 4	It is the port for Internet Camera and Camera View er Utility communication. The protocol setting should be "UDP".
Viewing Internet Camera	via Web Browser

Setup 1/Setup 2 If you want to view the video via Web Browser, you have to ensure the Router/Gatew ay has configured setup1 and setup 2. If the web port is not default port "80", but changed to 8080. The remote user has to enter http://203.30.212.82:8080.

Viewing Internet Camera via Camera Viewer Utility		
Setup 2/Setup 4	If you want to use Camera View er Utility to view the camera, please make sure the Router/Gatew ay has configured setup2 and setup 4.	
Setup Internet Camera via Administrator Utility		
Setup 3	If you want to use Administrator Utility to configure the Internet	
	Camera via Internet, the Router/Gatew ay should configure setup	
	3.	

12. Appendix B Viewing via UPnP in Windows XP

When the UPnP function is enabled, the camera can be detected by UPnP compliant system such as Windows XP. The camera will be displayed in the Neighborhood of Windows XP, so you can directly double click the camera or right click the camera and select "Invoke" to view the video through web browser.



🗃 Microsoft Internet Explorer	
File Edit View Favorites Tools Help	1
3 Badk • 🕥 · 📓 🙆 🏠 🔎 Search 👷 Favorites 🔗 🙆 · 🌺 🚍	-35
Address 👌 http://192.168.2.3	💽 🛃 Go 🛛 Links 🍾
Internet Camera	EDIMAX
Please enter user name and password	
User Name :]	
Password :	
OK Reset	
Done	Internet

Enable UPnP in Windows XP SP2

If you can't find the camera in the Neighborhood of Windows XPSP2 or you have seen the follow ing message when you double click the camera. You have to check if UPnP function is blocked by the firew all. Please follow the steps below to enable it.

Device (Offline 🛛 🔀
<u>^</u>	The device you are trying to use is not currently available on your network. Check to see if the device is on the network and try again.
	OK]

- 1. Go to "Start\Settings\Netw ork Connections".
- 2. Right click the "Local Area Connection" and select "Properties".
- 3. In the "Local Area Connection Properties", select "Advanced" option menu and click "Settings".

🕹 Local Area Connection Properties 🛛 🔹 💽
General Authentication Advanced
Windows Firewall Protect my computer and network by limiting or preventing access to this computer from the Internet
If you're not sure how to set these properties, use the <u>Network Setup Wizard</u> instead.
OK Cancel

4. The "Windows Firew all" screen will be popped up, select "Exceptions" option menu.



5. Enable "UPn P Framew ork" from the "Programs and Services list" and click "Ok".

👹 Windows Firewall	$\overline{\times}$
General Exceptions Advanced	
Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk.	
Programs and Services:	
Name	
⊠ calldl	
🔽 calldli	
☐ File and Printer Sharing	
✓ Network Ports Quick Setup	
✓ PSAdmin	
Remote Desktop	
UPnP Framework	
Add Program Add Port Edit Delete	ן ו
Display a notification when Windows Firewall blocks a program	
What are the risks of allowing exceptions?	
OK Cancel	