

Fast Ethernet / 150Mbps Wireless 802.11n / PoE Triple Mode IP Camera

IC-3030 / IC-3030Wn / IC-3030PoE

User Manual

Version 1.0 / May, 2010



ErP Announcement

Product: Internet Camera (IP Camera)

Purpose: 24 hour surveillance and transfer of footage for safety and health reasons as intended use.

Detailed description:

- **Health purposes:** Users can pass through the Internet (from anywhere) to control the product (IP Camera). It's intended to watch and listen to people who need to be cared for at home and automatically sends e-mails and phone alerts to warn observers and ask for their attention. The product also provides a record function to retain all images and voice information for the sake of reference.
- **Safety purposes:** Users can initiate a "motion detect" function to record and send e-mails to notify them when doors or windows are opened – potentially by unwarranted persons.
- **General purposes:** Record/monitor environment footage and sound and store them onto a hard disk as a record.

As we cannot predict when events of this nature may occur, we need for the product to remain active and alert at all times. If the product had to go into "standby/off" mode, it would impact the effectiveness of recording and warning functions resulting in users not getting the information they need.

Based on the ErP official journal of European Union

Directives 2009/125/CE of the European parliament and of the council of 21 October 2009 Article 15 sector 5 part (a) and (b) as below:

"Implementing measures shall have no significant negative impact on the functionality of the product, from the perspective of the user."

"Health, safety and environment shall not be adversely affected."

We announce that the product need not comply with the (EC) No 1275 Standby and on/off mode function of Implementing Measurement.

We will keep up to the newest Implementing Measurements in the future and make the necessary changes if it's related to this product.



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The product you have purchased and the setup screen may appear slightly different from those shown in this QIG. For more detailed information about this product, please refer to the User Manual on the CD-ROM. The software and specifications are subject to change without notice. Please visit our web site www.edimax.com for the update. All rights reserved including all brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

Notice according to GNU/GPL-Version 2

This product includes software that is subject to the GNU/GPL-Version 2. You find the text of the license on the product cd/dvd. The program is free software and distributed without any warranty of the author. We offer, valid for at least three years, to give you, for a charge no more than the costs of physically performing source distribution, a complete machine-readable copy of the corresponding source code.

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Chapter I: Familiar with your Internet IP Camera

1.1 Package Contents

Thank you for purchasing this IP camera! Before you start to use this IP camera, please check the package contents. If anything is missing, please contact the dealer of purchase and return the package to claim for missing contents.

	Item Name	Quantity
1	IP Camera	1
2	Detachable Antenna (IC-3030Wn only)	1
3	Power Adapter	1
4	Ethernet Cable	1
5	Driver and User Manual CD-ROM	1
6	Accessory kit	1
7	Quick Installation Guide	1

1.2 Basic Introduction

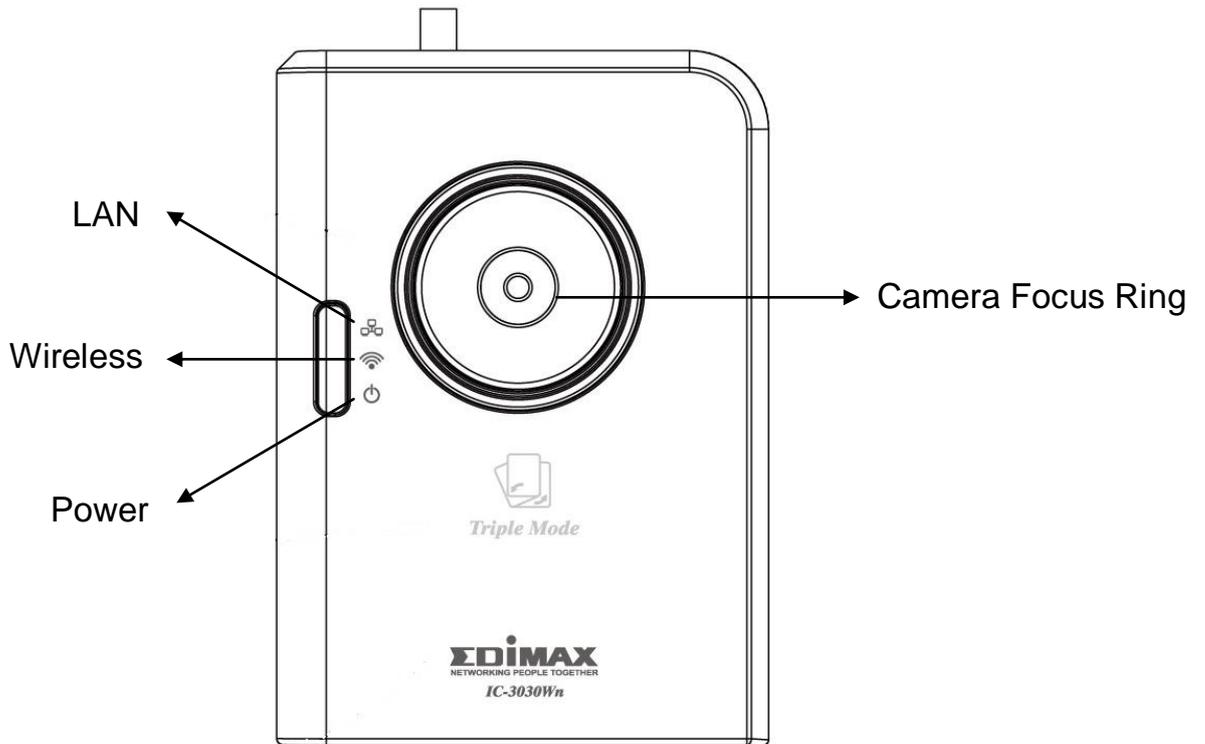
Thank you for purchasing this IP camera! This IP camera is an ideal product for all kinds of video surveillance purposes, like home/office safety, kid/pet monitoring, and remote video acquire etc. Edimax IC-3030 series is tailor made to stream live video over your network. You can view the IP camera's video from anywhere on your local computers or via the Internet. Besides, Edimax IC-3030 series features high quality and high frame rate video streaming through advanced video compression. In order to achieve the highest video quality, simply select H.264, MPEG4 or M-JPEG depending on your network settings.

1.3 Product Highlights

- ✚ No pre-loaded software required - all you need is a browser like Internet Explorer 6 (and above, with plugin installed).
- ✚ With supplied video surveillance software, you can connect up to 16 video cameras and view images captured by every camera at the same time.
- ✚ Supports video resolutions: MJPG and H.264 SXGA(1280 x 1024), VGA (640 x 480), and QVGA (320 x 240); MPEG4 XGA (1024 x 768), VGA (640 x 480), and QVGA (320 x 240).
- ✚ Anti-flicker function (eliminates flash caused by fluorescent lights, 50 / 60Hz selectable).
- ✚ Video control functions, like brightness and zoom-in / zoom-out.
- ✚ Audio function, suitable for applications such as video conference or environment monitor.
- ✚ Wired and wireless network (802.11b / 802.11g / 802.11n, IC-3030Wn only) support.
- ✚ Wireless data encryption (WEP / WPA, IC-3030Wn only)
- ✚ Supports DHCP and PPPoE protocol, you can also assign a fixed IP address to the camera also.
- ✚ Supports Dynamic DNS (used to allocate the IP camera's Internet address, when the ISP you're using does not assign you with a fixed Internet address).
- ✚ Supports UPnP, Windows XP (and above) will discover this IP camera in network neighbor automatically.
- ✚ Send captured picture and video by Email or FTP when motion is detected.
- ✚ Configurable motion detection sensitivity.
- ✚ Built-in real-time clock, date and time information will be recorded with every captured picture / video clip (also supports auto time synchronization via network time protocol).
- ✚ Upgradeable firmware - enjoy new functions without buying a new camera!
- ✚ Supports up to 16 users, and you can set different password to different user.
- ✚ Usage and event logging.

1.4 Familiar with Key Components

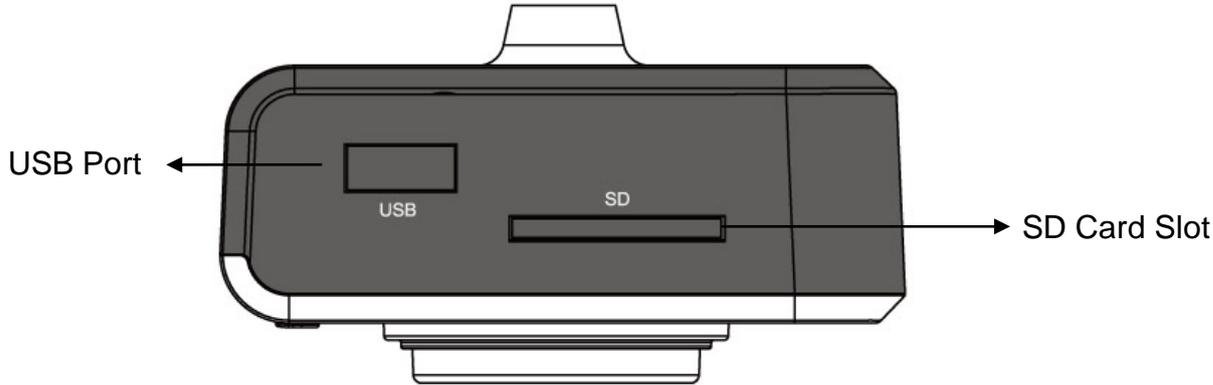
Front View



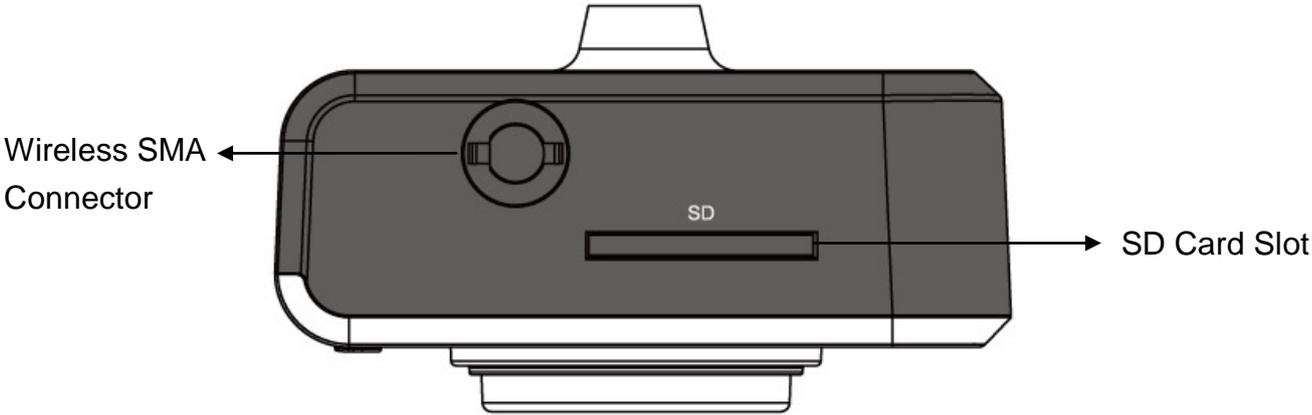
LED	Description
LAN 	When the IP Camera is linked to a wired network, this LED will light up. The LED will flash while video is transmitted or received through a wired network.
Wireless  (IC-3030Wn & IC-3030 only)	When the IP Camera is linked to a wireless network, this LED will light up. The LED will flash while video is transmitted or received through a wireless network.
Power 	When the camera is powered on and ready for access, this LED will light up.

Top View

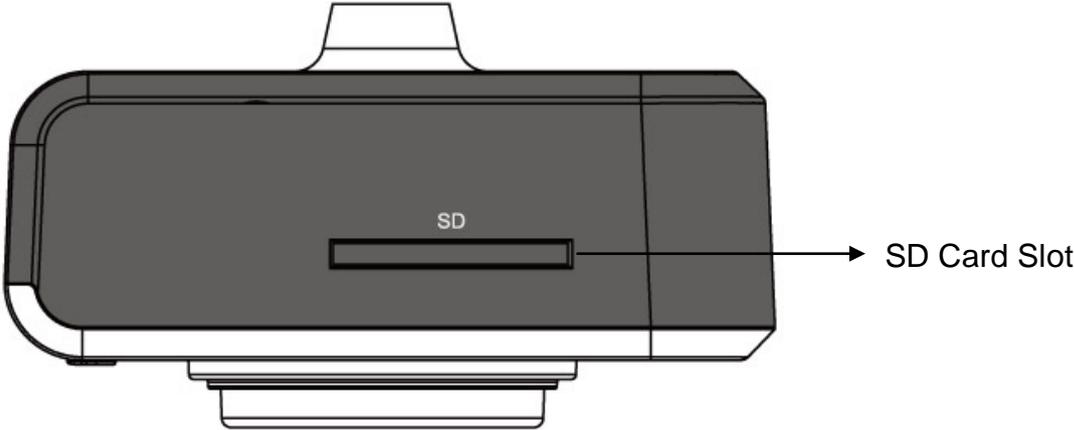
IC-3030:



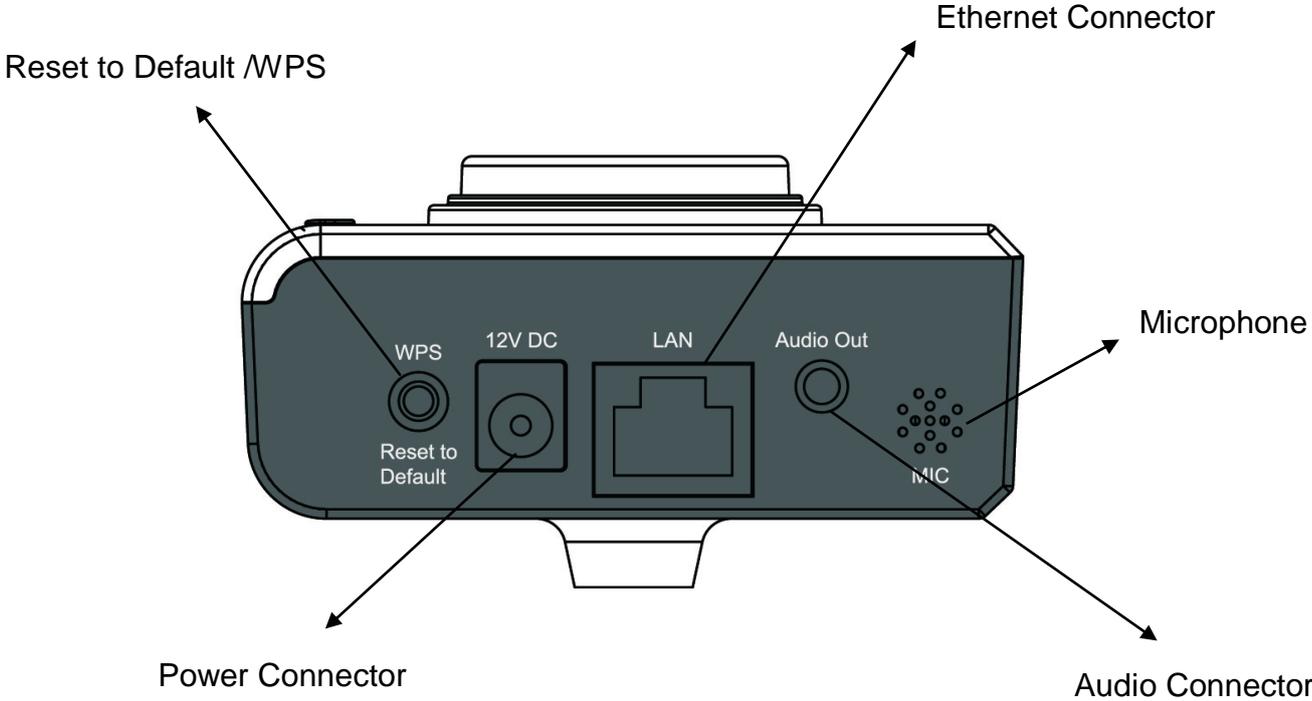
IC-3030Wn:



IC-3030PoE:



Bottom View



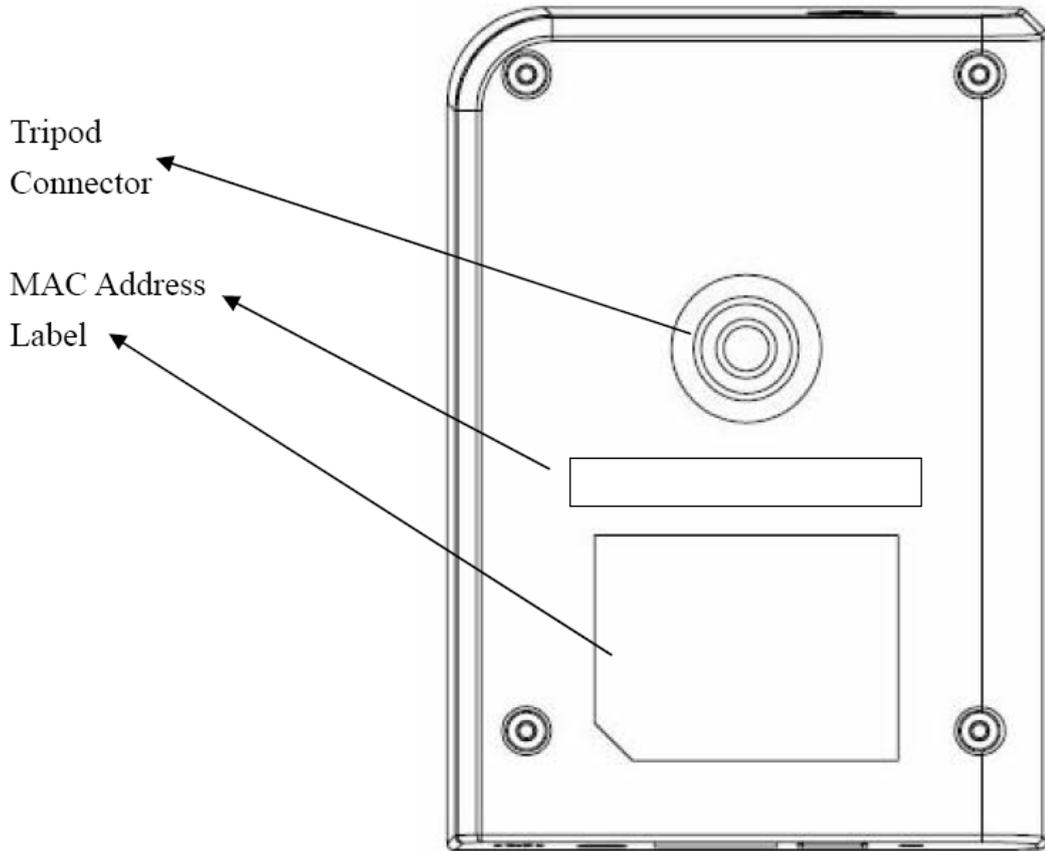
Name	Description
USB Port* (IC-3030 only)	Accepts USB WiFi adapter** to enable wireless
SD Card Slot	Accepts SD / SD-HC memory card for image and video storage
Wireless SMA Connector (IC-3030Wn only)	A standard reverse SMA connector allows any reverse SMA connector antenna to connect to the IP Camera.
Reset to Default / WPS (IC-3030W only)	Press and hold WPS button for more than 5 seconds to reset the camera settings to factory default. Press the WPS button (click) on the IP Cam and click on the Access Point that you want to wirelessly connect it to.
Power Connector	Connects to 12V DC power adapter
Ethernet Connector	Connects to your local area network
Audio Connector	Connects to external speaker for audio output

Microphone	Built-in microphone for voice pick-up
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Note: *The USB port only works with Edimax USB WiFi adapters.*

Note: *Edimax EW-7711HPn, EW-7711UAN, EW-7711USN, EW-7711UMn & EW-7711UTn*

Back View



Name	Description
Tripod Connector	Connects to any standard tripod / camera wall holder.
MAC Address Label	Shows the MAC address of this IP camera. Useful when you can't locate the camera on the network.

1.5 Camera Installation

Please follow the following instructions to set up your IP camera.

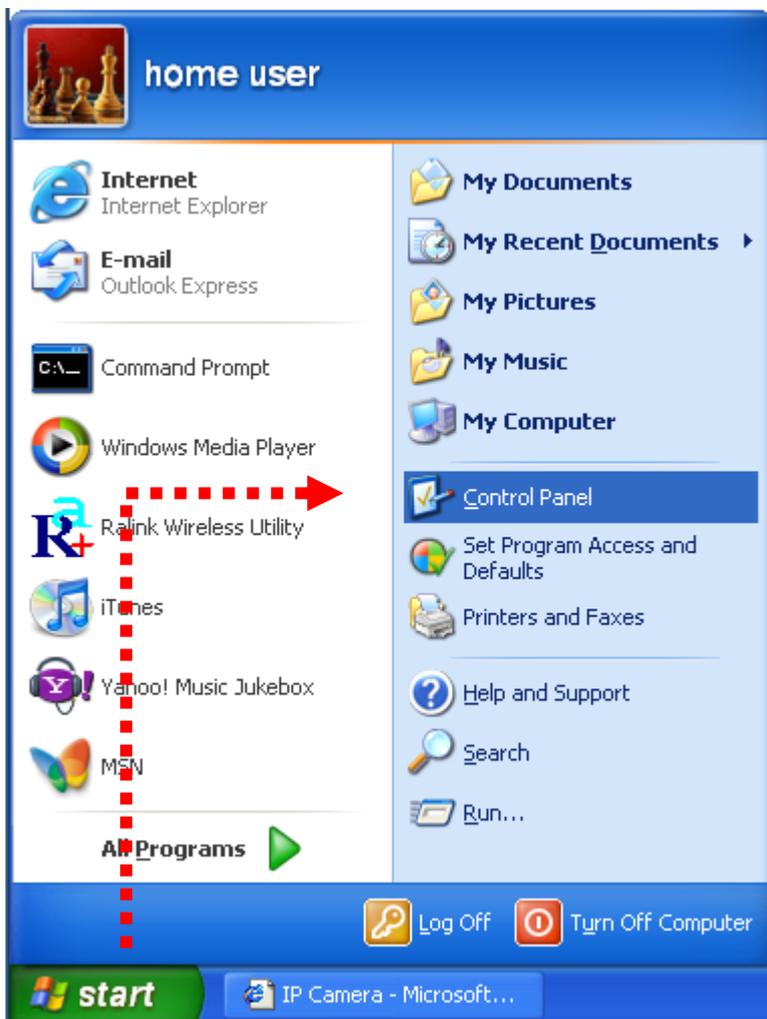
1. Unpack the product package and check if anything is missing.
2. Connect the Ethernet cable to your local area network, and connect the other end to the LAN jack of this IP camera.
NOTE: *You can skip this step if you plan to use wireless LAN only.*
3. Plug the power adapter to wall socket, and connect the power connector to the power jack located at the bottom of the IP camera.
4. Connect the antenna to the antenna bases, which is located at the top of this IP camera. (IC-3030Wn only)
5. Place the IP camera at a secure place, and point the camera to the place you wish to monitor. If you wish to hang the IP camera on the ceiling or wall, please use the tripod connector (located at the back of the IP camera) to secure the camera.
6. Launch Internet Explorer on your computer, and following the instructions given in next section to set the IP camera.

1.6 Locate the IP Address of this IP Camera

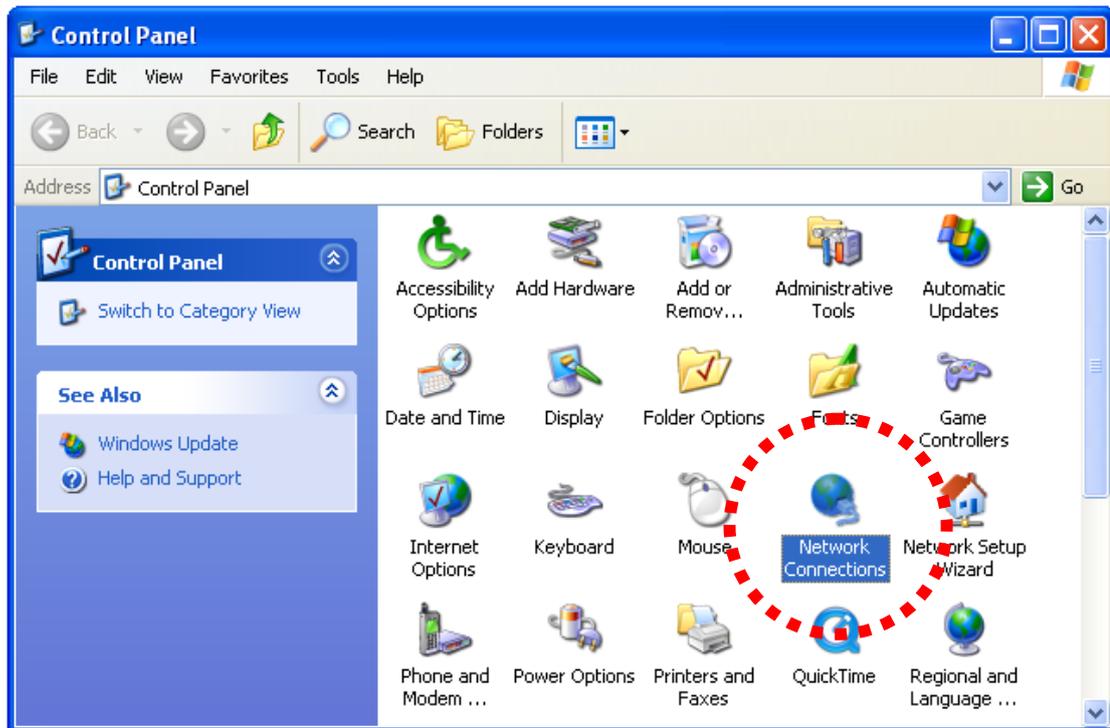
Default IP address of this IP camera is 192.168.2.3. If you wish to assign another IP address to this IP camera, you have to log onto the web configuration interface of the camera first.

If the left three fields of the IP address of your computer is not 192.168.2, you'll have to change the IP address of your computer first:

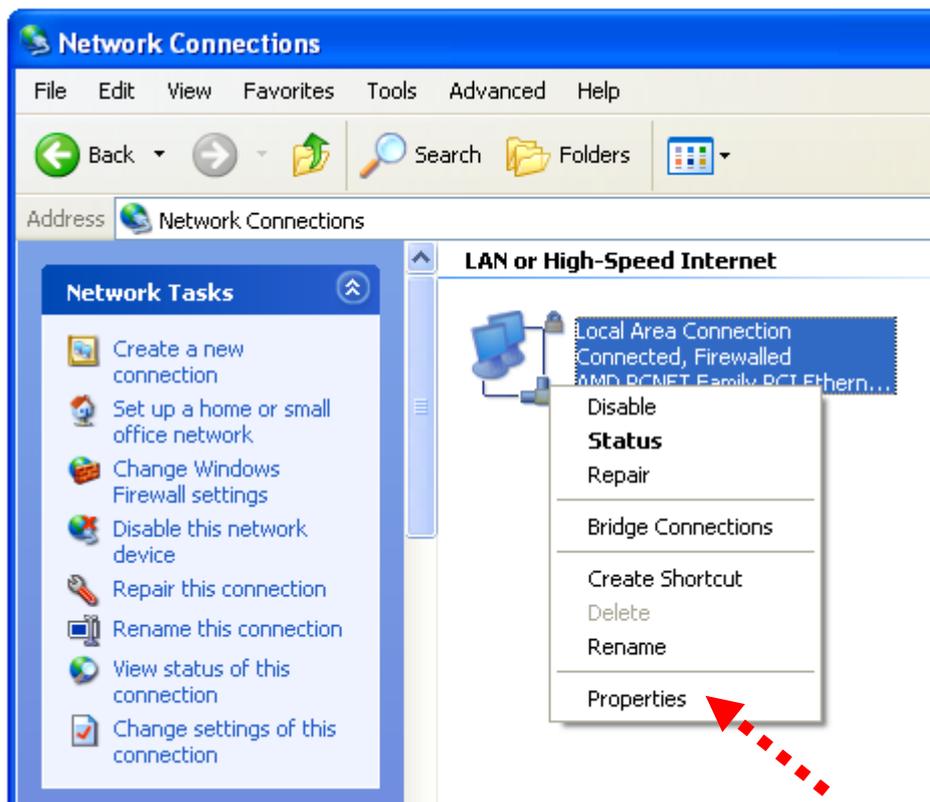
1. Click 'Start' -> 'Control Panel'



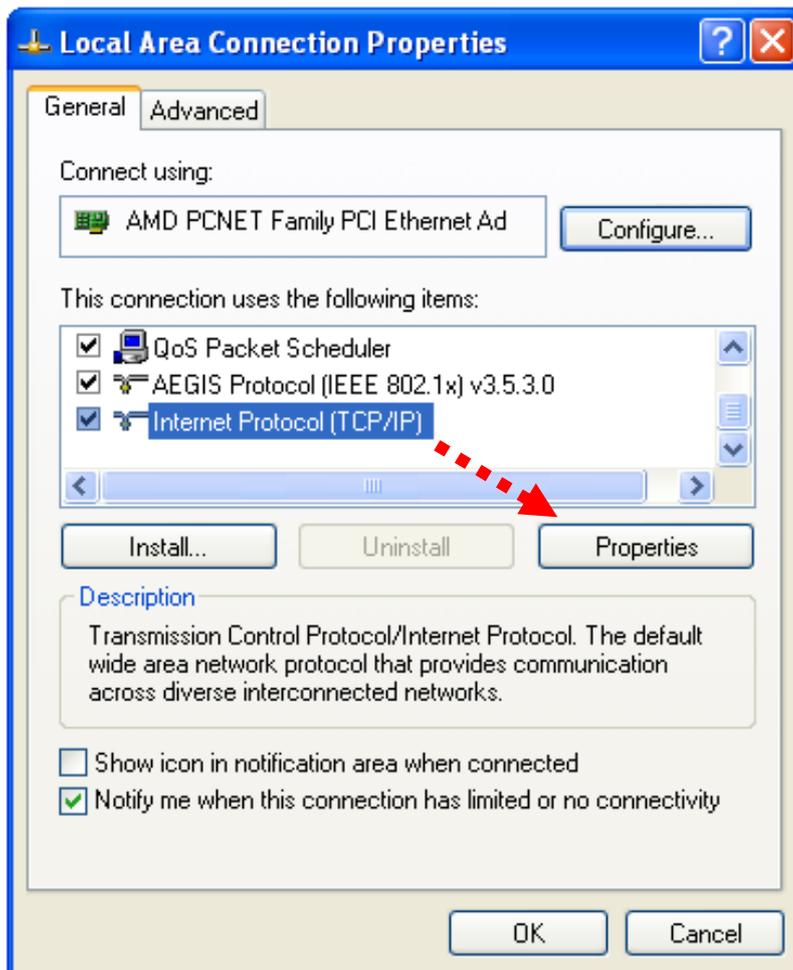
2. Double-click 'Network Connections' icon.



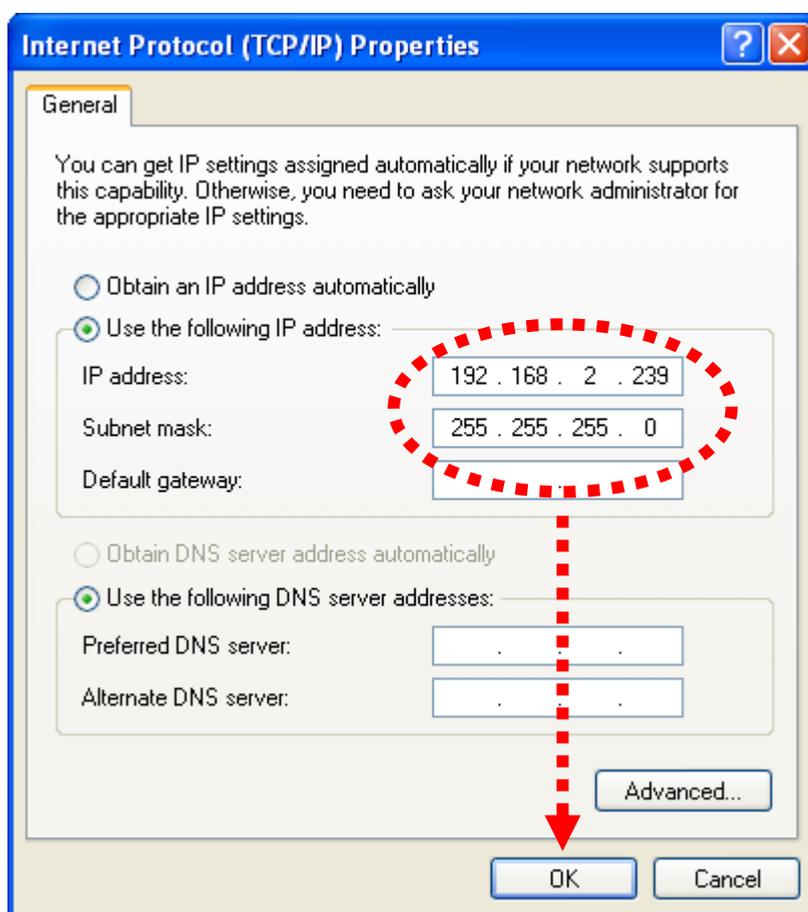
3. Right-click 'Local Area Connection', and click 'Properties'.



4. Select 'Internet Protocol (TCP/IP)', then click 'Properties'.



5. In 'IP address' field, please fill in any IP address begins with '192.168.2', and ends with a value greater than 2 and less than 254 (You can use the example in the picture '192.168.2.339'). In Subnet mask field, please fill '255.255.255.0'. Please keep all other fields empty, and click 'OK'.



If you changed the IP address of this IP camera and you forget it, there are 2 methods to recover it:

- a. Press and hold the 'Reset' button located at the bottom of this IP camera, to clear all settings of the IP camera and reset the IP address back to 192.168.2.3. You'll lose all settings in the IP camera.
- b. Ask network administrator to check the DHCP release table, if the camera was set to obtain the IP address by DHCP, a new record will be added to DHCP release table on DHCP server when the IP camera is connected to the local area network.

1.7 Using Camera Admin Software to Locate Camera

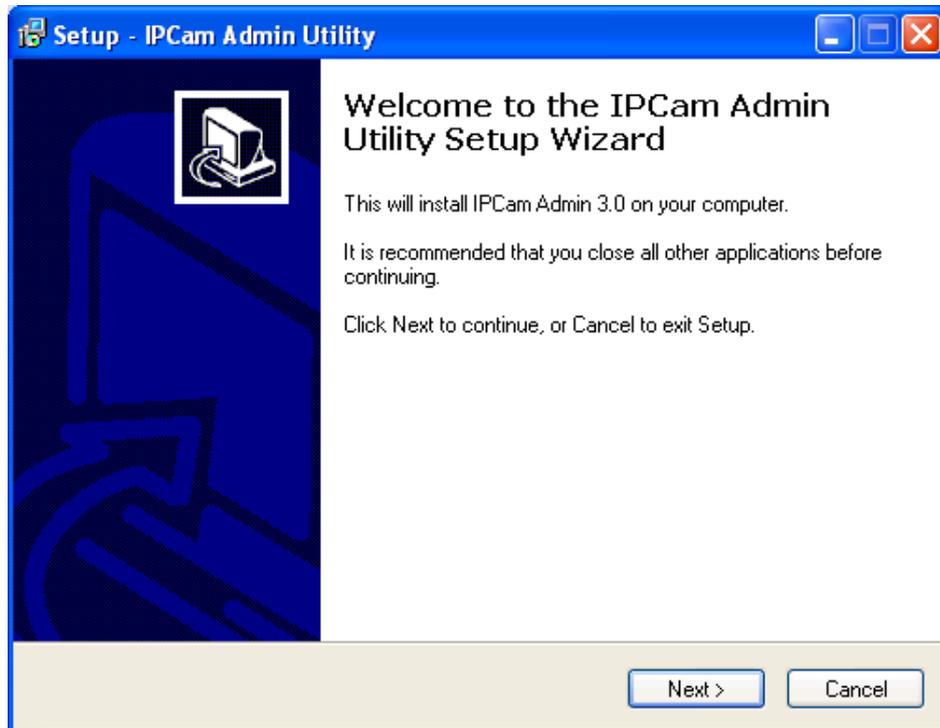
If you can't connect to the camera by the instructions given in last chapter, you can use camera admin software to search the camera which is connected to your local area network. The admin software is also capable to locate multiple cameras on your local area network.

Follow the simple steps below to run the Install Wizard to guide you quickly through the Installation process. The following installation is implemented in Windows Vista. The installation procedures in Windows 2000/XP/Vista/7 are similar.

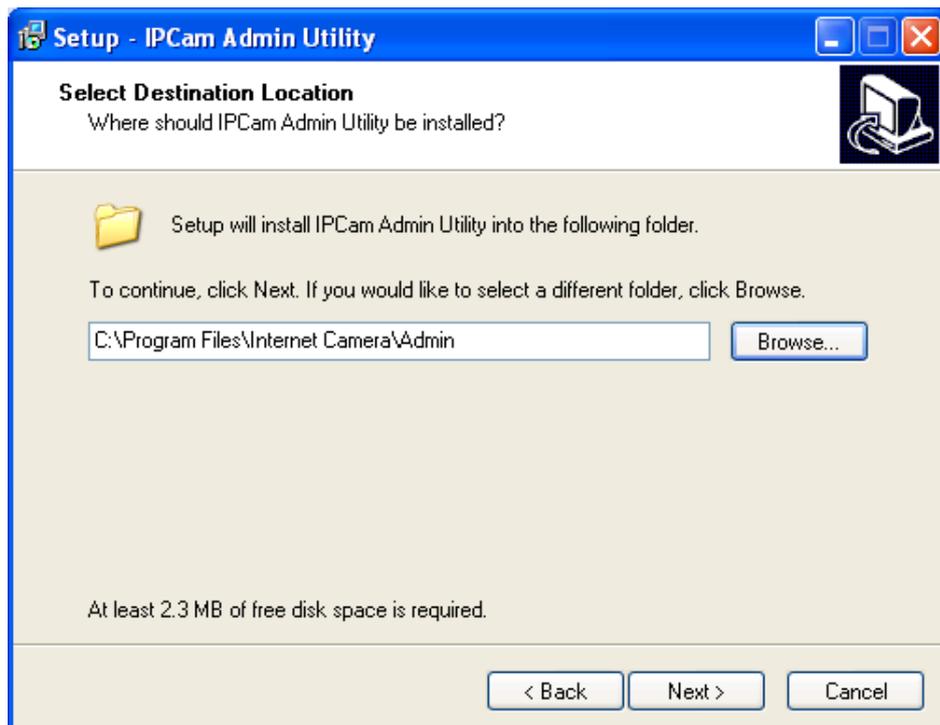
1. Insert the CD shipped along with the IP Internet Camera into your CD-ROM drive. The "Autorun.exe" program should be executed automatically. If not, run "Autorun.exe" manually from "Autorun" folder in the CD.
2. The Install Wizard will show four selections, select the program which you want to install or click 'EXIT' to install the program later. The following installation steps are the demonstration of 'Install Administrator Utility & Camera Viewer'.



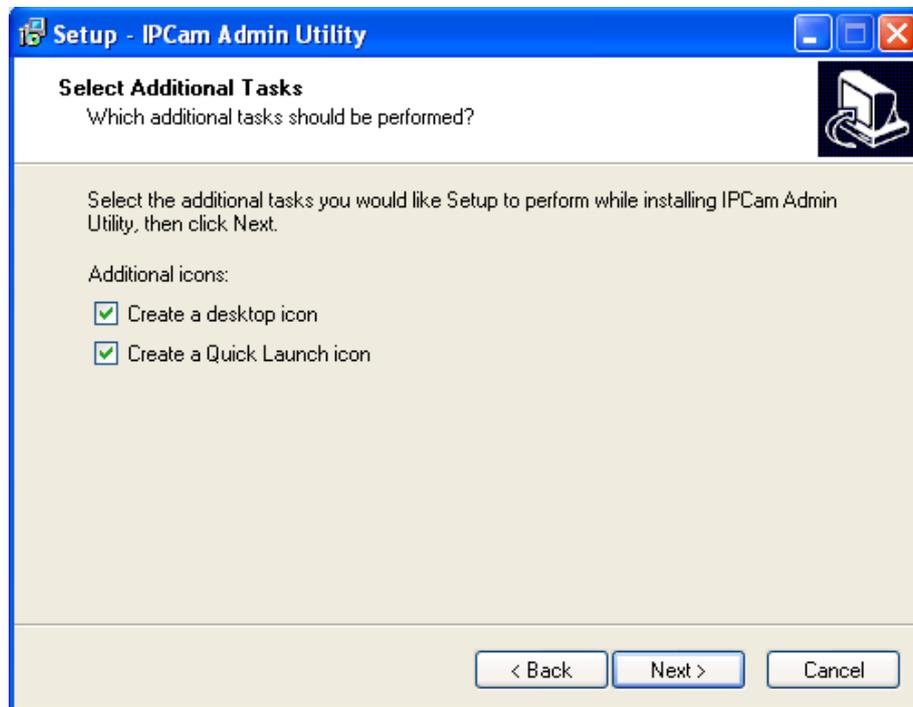
3. The system will start the installation procedures. Click 'Next' to continue installation.



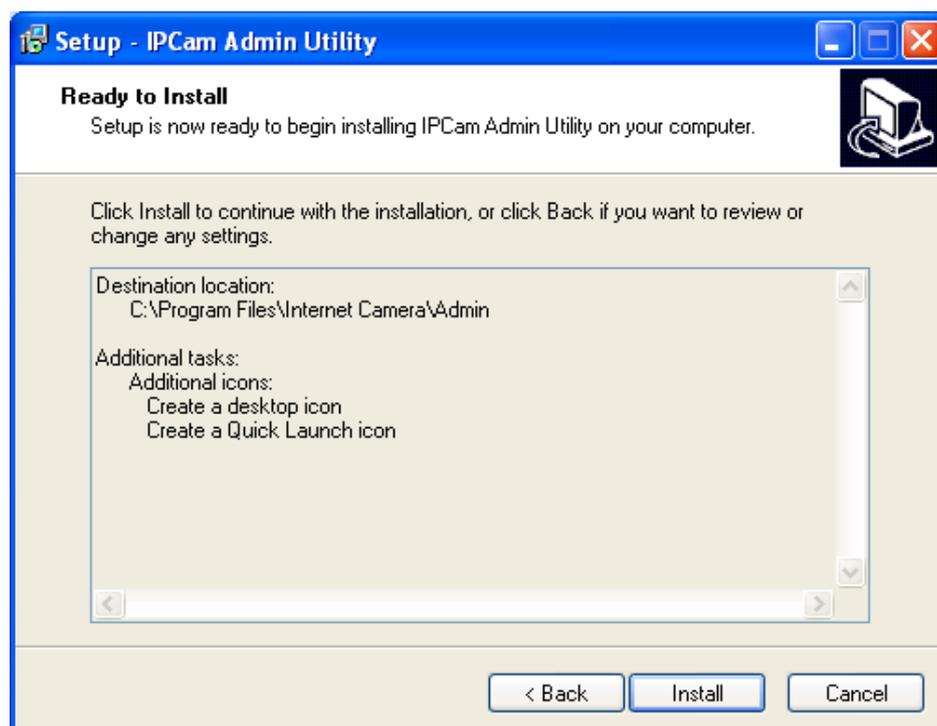
4. You can change the installation folder of IP camera setup software here, click 'Browse' to select an existing folder, or you can just click 'Next' to use default installation folder:



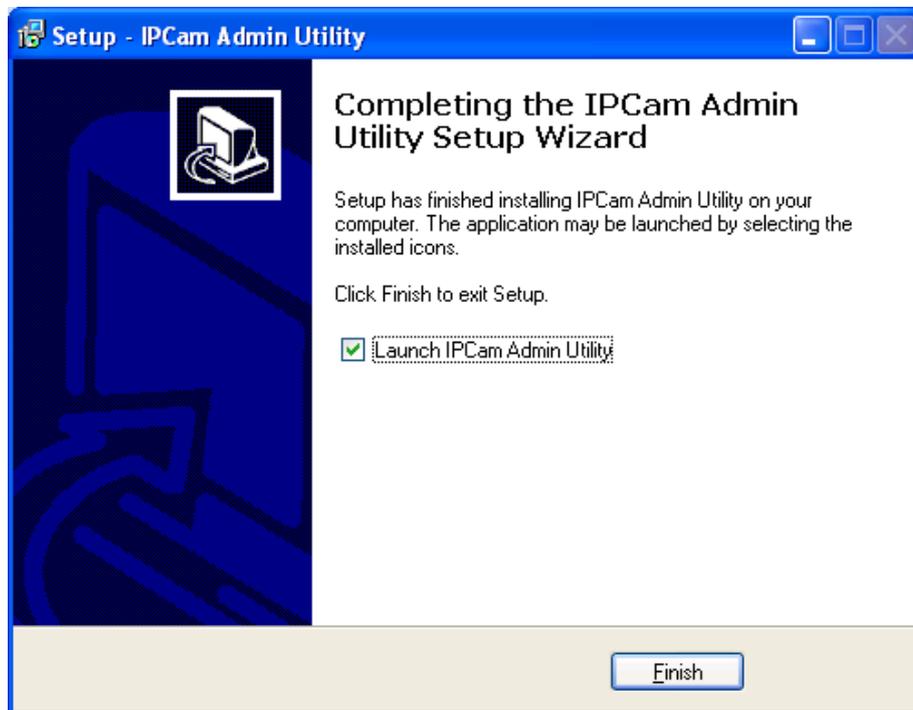
5. If you wish to create desktop icon and / or quick launch icon for camera admin software, please check corresponding box, and click 'Next' to continue.



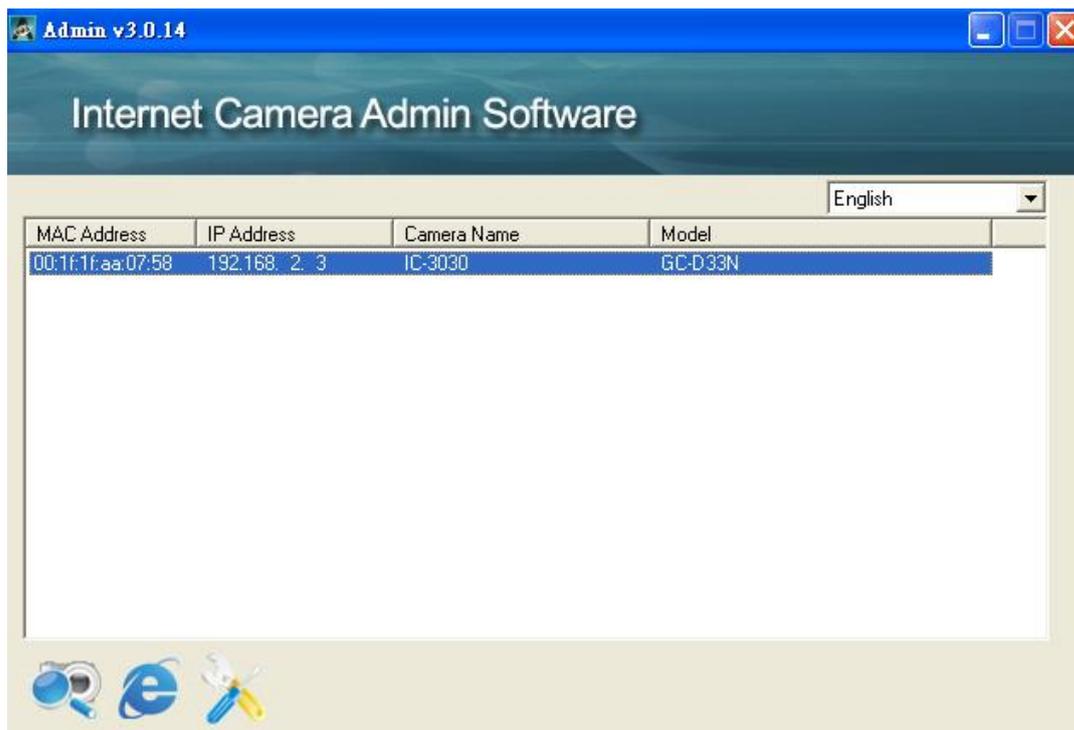
6. You will see a brief of all options you selected, click 'Install' to install camera admin software now, or click 'back' to back to previous steps to change settings.



7. When you see this message, the installation of camera admin software is complete. If you wish to launch camera admin software now, keep 'Launch IP Cam Admin Utility' box checked, and click 'Finish' to close installation utility.



After the camera admin software is launched, all cameras found on your local area network will be displayed:



All camera-related information will be displayed here. If you wish to connect to certain camera by web browser, double-click the IP camera listed here.

The camera admin software also provides several functions:



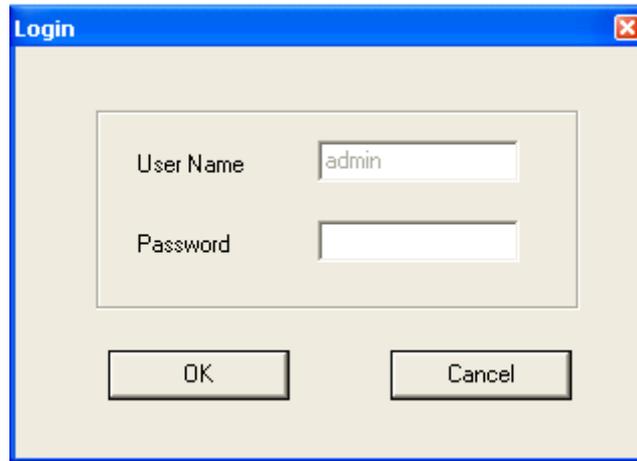
Search camera: Click this button to search all cameras on local area network again.



Browse camera via web: Select a camera listed above first, and then click this button to connect to the camera by web browser.



Configure camera: Click this button to configure camera's network and security setting. You'll be prompted to input camera's password:



Input the password (default: 1234) and click OK to configure the camera's network and security setting:



In 'Lan Setting' page, you can configure camera's network settings. Select 'DHCP' to set the camera to obtain an IP address from DHCP server on local area network automatically, and select 'Manual IP' to input the IP address information manually. Click 'OK' to save settings.

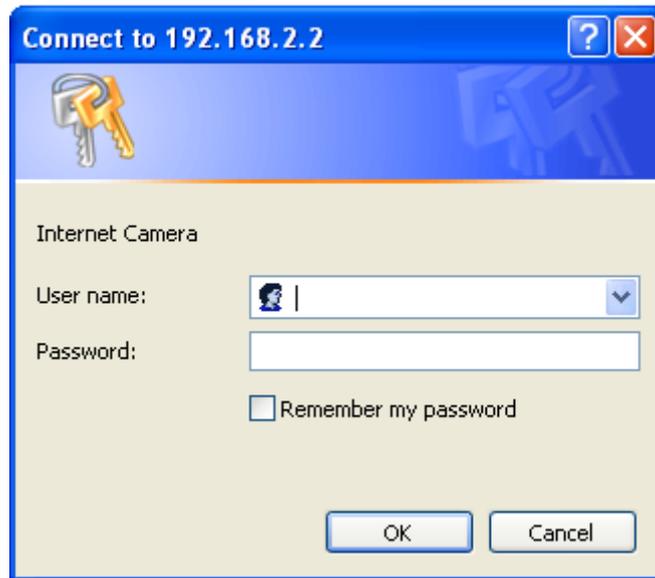
In 'Security' page, you can change the camera's name and password (user name is always 'admin' and cannot be changed). You have to input the same password in both 'New Password' and 'Confirm Password' field, or you'll be prompted to input new password again. Click 'OK' to save settings or click 'Cancel' to discard changes.



The screenshot shows a web-based administration interface for an internet camera. The window title is "Admin v3.0.14". The main heading is "Internet Camera Admin Software". There is a language dropdown menu set to "English". The "Security" tab is selected, with "Lan Setting" also visible. The form contains three input fields: "Camera Name" with the value "IC-3030", "New Password", and "Confirm Password". At the bottom, there are "OK" and "Cancel" buttons.

1.8 Log Onto Web Management Interface

Make sure the IP camera is correctly powered (Power LED is on), and then launch Internet Explorer and type the IP address of the IP camera in address bar of Internet Explorer. You should be prompted to input the user name and password:



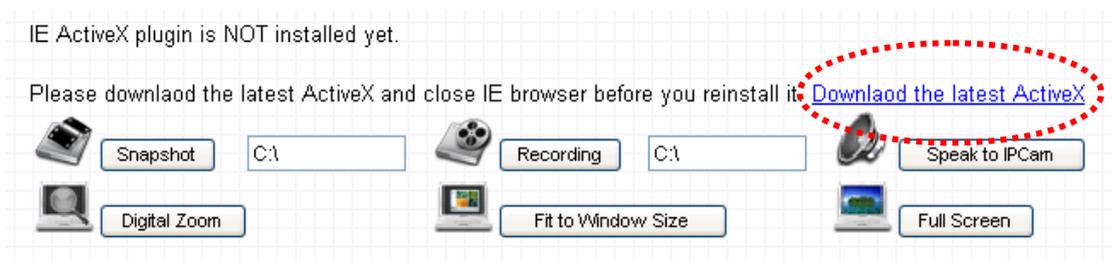
Default user name is 'admin' and password is '1234'. Click 'OK' to continue after user name and password has entered.

If you are rejected, maybe the password has been modified previously. This should not happen if this is a newly-purchased camera, however, if you get the camera from someone else, the password would be changed. Please try to obtain the correct user name / password, or you'll have to reset the camera.

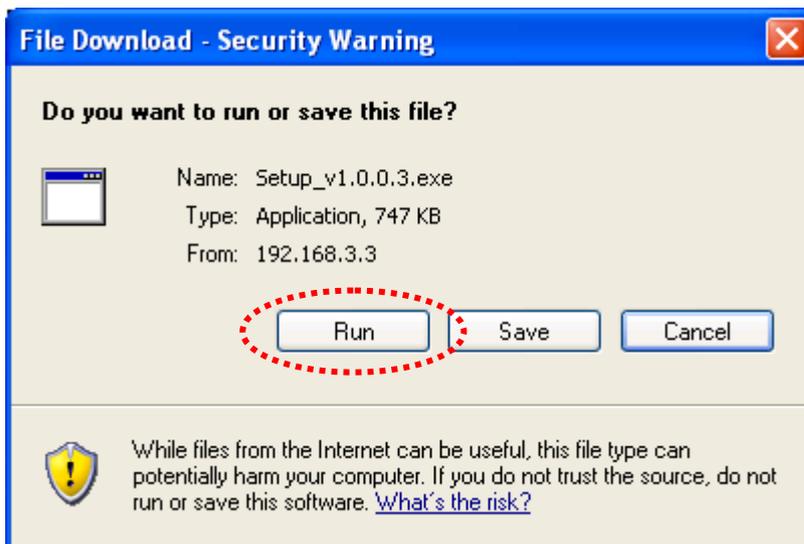
If this is the first time you log onto web management interface, you'll be prompted to install ActiveX Plugin:



When you see this message, please click 'OK', and click 'Download the latest ActiveX' link to download plugin so you can use this camera:



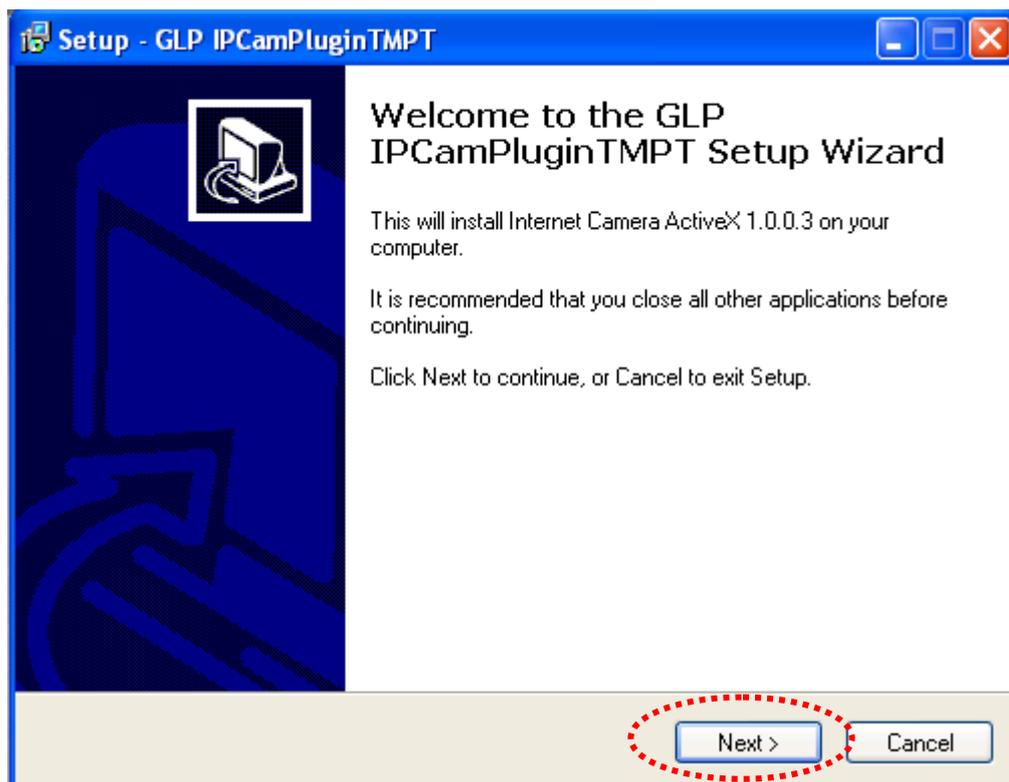
Click 'Run' to download plugin:



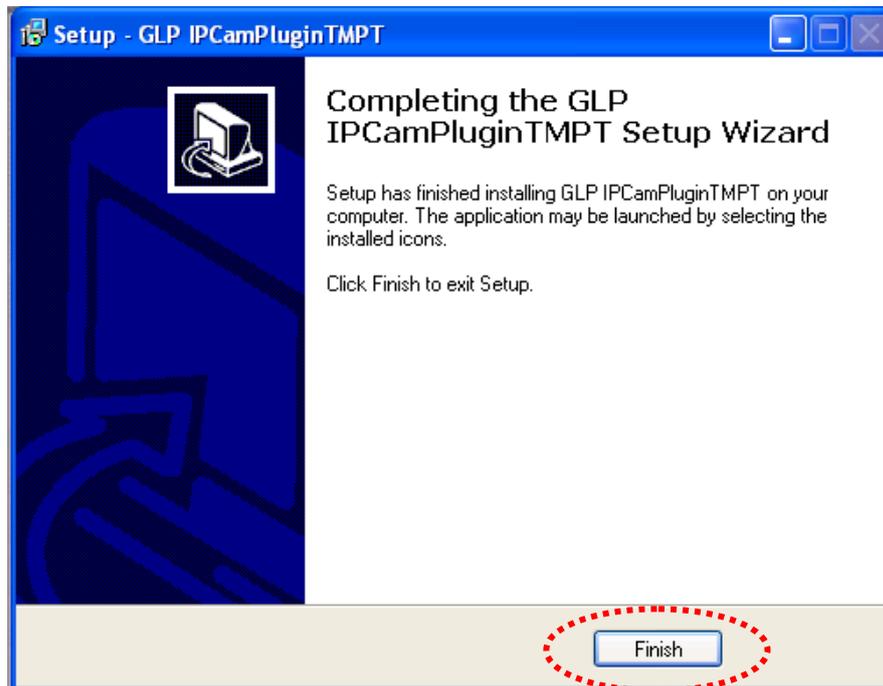
Click 'Run' to install plugin:



Please click 'Next' button to start installation (click 'Next' or 'Install' when you're prompted, until installation is complete).

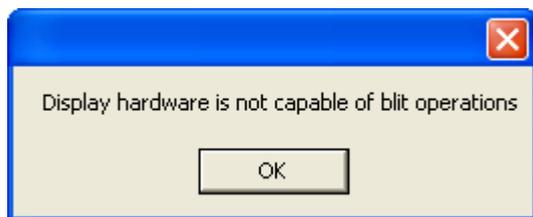


Click 'Finish' to complete plugin installation.



Now you can go back to web browser, and you should be able to see the image captured by camera (You may need to press F5 or CTRL-R to reload web page).

Note: If you see one of these messages (or both):



OR



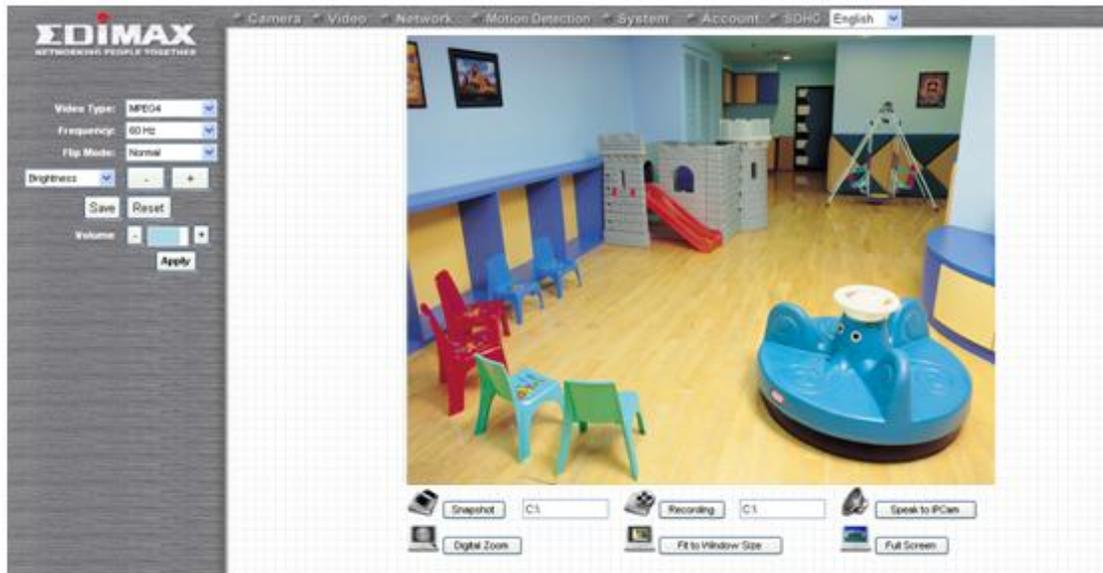
Your computer may not have the display capability that this IP camera requires, or you don't have Microsoft DirectX® installed. Please download Microsoft DirectX® from Microsoft's website (<http://www.microsoft.com>), and try again.

In some cases, your computer is able to display the image from IP camera correctly, but you'll still see these messages. If this happens, just ignore them.

Chapter II: Using Web Management Interface

2.1 Camera Settings

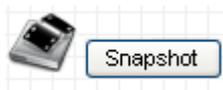
The first menu after you logged onto web management interface is 'Camera', and this is the only menu you can see the real-time image from camera.

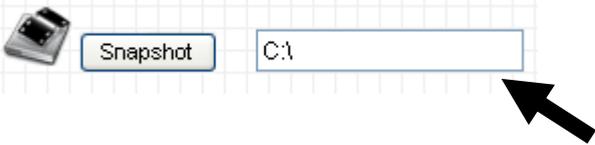
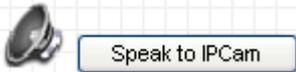
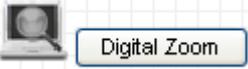
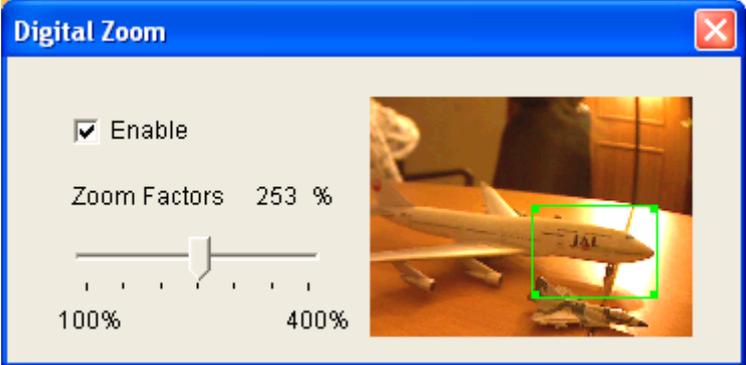
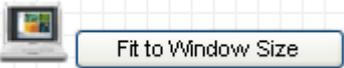


You can always back to this menu by clicking 'Camera' on the top of web management interface.



The descriptions of every setting in this menu will be given below:

Item	Description
Video Type	Specifies video encoding type. Available options are 'MPEG4', 'MJPEG', and 'H.264'. Different encoding type requires different bandwidth, and provides different video quality.
Frequency	If the place where this IP camera points to has a (or more) fluorescent light(s), the image may look flashing. In this case, you can adjust this setting to the frequency of electrical power; this can improve the image quality effectively. If you don't know which one you should use, just try any of them and select one with less flicker.
Flip Mode	If you're not putting this camera on a horizontal surface but hang the camera on the ceiling or wall, you can use this function to rotate the displaying image.
Brightness / Saturation / Sharpness	Select brightness, saturation, and sharpness from dropdown menu, and click ' - ' or ' + ' button to increase or decrease brightness / saturation / sharpness setting value. In certain environment, adjust brightness, saturation, and / or sharpness will help improve video quality.
Volume	Adjust the volume of audio output. Press ' + ' or ' - ' button to increase or decrease volume.
<p>NOTE: When you change any setting(s) listed above, please click 'Apply' button so the change(s) will take effect. For following functions, changes will take effect right away.</p>	
<p>Snapshot</p> 	<p>Click 'Snapshot' button to save the displaying image as an image file, a message box will appear after you click 'Snapshot' button, showing the filename and location of saved image file (default filename is current date and time).</p> <p>Default directory used to save image file is 'C:\', you</p>

	<p>can change the directory by clicking the text input box located at the right of 'Snapshot' button:</p>  <p>and you'll be prompted to select a new directory.</p>
<p>Recording</p> 	<p>Press this button to record the displaying image as a video file in AVI format, and you can play the video file back by Windows Media Player. To stop recording, press 'Stop Recording' button (the same button). You can also change the directory used to save video file.</p>
<p>Speak to IP Cam</p> 	<p>You can transmit the voice received by your computer's microphone to the camera's external speaker. Press and hold this button, then speak to the microphone. Please note that external speaker must be connected to this camera.</p>
<p>Digital Zoom</p> 	<p>If you wish to enlarge certain portion of the captured image, you can click this button to set digital zoom:</p>  <p>Click 'Enable' to enable digital zoom function, then you can drag the slide bar to adjust zoom ratio. You can also use your mouse to drag the zoom area (the green square) to reposition the zoom area.</p>
<p>Fit to Window Size</p> 	<p>Click this button and the image size will be adjusted to fit the size of browser window.</p>
<p>Full Screen</p>	<p>Click this button to display the image in full-screen</p>



Full Screen

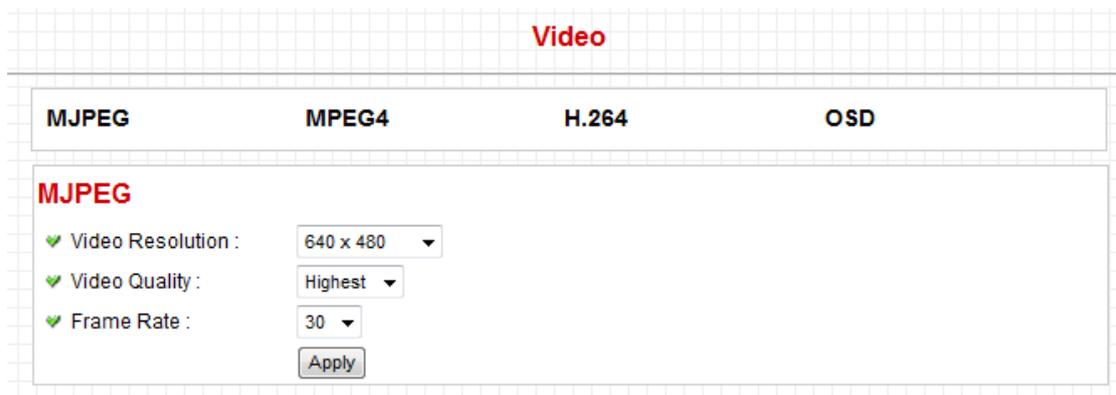
mode (uses all available space to display the image captured by this camera).

2.2 Video

You can change video-related settings of this IP camera in 'Video' menu. You can access this menu by clicking 'Video' on the top of web management interface.



There are 4 types of video settings for this IP camera. To set the option of a certain video setting, put mouse cursor on it and its options will appear.



2.2.1 MJPEG

You can adjust video settings when you select 'MJPEG' as video type in 'Camera' menu.

MJPEG

✔ Video Resolution : ▼

✔ Video Quality : ▼

✔ Frame Rate : ▼

The descriptions of every setting in this menu will be given below:

Item	Description
Video Resolution	Changes the resolution of video. Available options are 1280 x 1024, 640 x 480, and 320 x 240. Higher resolution provides better video quality and more detail, but requires more network bandwidth.
Video Quality	Changes video quality. There are 5 levels of video quality from 'Lowest' to 'Highest'. Selecting a higher video quality will provide better video quality, but requires more network bandwidth.
Frame Rate	Changes video frame rate. Available options from '30' to '1', indicates how many video frames this camera will transmit every second. Higher frame rate provides smooth video watching experience and will not lose details of video, but requires more network bandwidth. If you're using this video camera with insufficient network bandwidth, selecting a lower frame rate setting will help.

Click 'Apply' for settings to take effect.

2.2.2 MPEG4

You can adjust video settings when you select 'MPEG4' as video type in 'Camera' menu.

MPEG4

✔ Video Resolution : ▼

✔ Video Quality : ▼

✔ Frame Rate : ▼

The descriptions of every setting in this menu will be given below:

Item	Description
Video Resolution	Changes the resolution of video. Available options are 1024 x 768, 640 x 480, and 320 x 240. Higher resolution provides better video quality and more detail, but requires more network bandwidth.
Video Quality	Changes video quality. There are 5 levels of video quality from 'Lowest' to 'Highest'. Selecting a higher video quality will provide better video quality, but requires more network bandwidth.
Frame Rate	Changes video frame rate. Available options from '30' to '1', indicates how many video frames this camera will transmit every second. Higher frame rate provides smooth video watching experience and will not lose details of video, but requires more network bandwidth. If you're using this video camera with insufficient network bandwidth, selecting a lower frame rate setting will help.

Click 'Apply' for settings to take effect.

2.2.3 H.264

You can adjust video settings when you select 'H.264' as video type in 'Camera' menu.

H.264

✔ Video Resolution :

✔ Video Quality :

✔ Frame Rate :

The descriptions of every setting in this menu will be given below:

Item	Description
Video Resolution	Changes the resolution of video. Available options are 1280 x 1024, 640 x 480, and 320 x 240. Higher resolution provides better video quality and more detail, but requires more network bandwidth.
Video Quality	Changes video quality. There are 5 levels of video quality from 'Lowest' to 'Highest'. Selecting a higher video quality will provide better video quality, but requires more network bandwidth.
Frame Rate	Changes video frame rate. Available options from '30' to '1', indicates how many video frames this camera will transmit every second. Higher frame rate provides smooth video watching experience and will not lose details of video, but requires more network bandwidth. If you're using this video camera with insufficient network bandwidth, selecting a lower frame rate setting will help.

Click 'Apply' for settings to take effect.

2.2.4 OSD

If you need to display information about this camera, like camera's name or current date / time, you can use OSD (On-Screen Display) menu:

On-Screen Display

✔ On-Screen Display : Enable Disable

✔ Show Camera Name : Enable Disable

✔ Show Date : Enable Disable

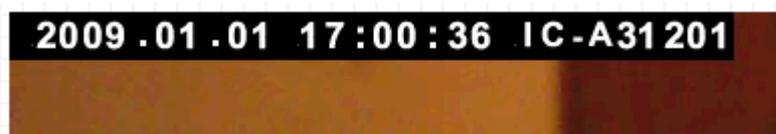
✔ Show Time : Enable Disable

The descriptions of every setting in this menu will be given below:

Item	Description
On-Screen Display	Select 'Enable' to enable on-screen display function (information about this camera will be displayed on camera's display image), and select 'Disable' to disable it.
Show Camera Name	Select 'Enable' to show camera's name on camera's display image, select 'Disable' to hide it.
Show Date	Select 'Enable' to show current date on camera's display image, select 'Disable' to hide it.
Show Time	Select 'Enable' to show current time on camera's display image, select 'Disable' to hide it.

Click 'Apply' for settings to take effect.

When OSD is enabled, selected OSD items will be displayed like this:



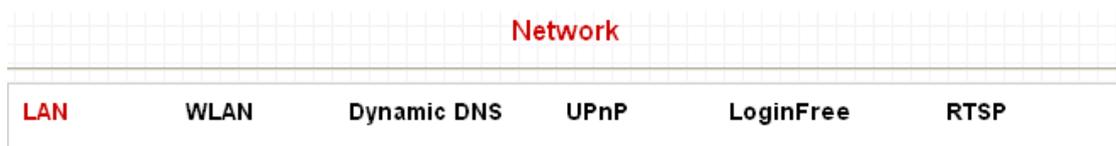
2.3 Network Settings

All network-related settings can be found in this menu, and you have to specify TCP/IP parameters in this menu if you want to change IP address, use PPPoE, Dynamic DNS, and activate UPnP function.

You can access this menu by clicking 'LAN' on the top of web management interface.



After you selected 'Network', network setting menu will appear. There are 6 sub-menus available here:



Please click the network setting you wish to set, and then refer to instructions given below:

2.3.1 LAN

You can define IP address and select the port number you wish to use here.

LAN

- ✔ Network Type : DHCP Static IP Address
- ✔ IP Address :
- ✔ Subnet Mask :
- ✔ Gateway :
- ✔ Primary DNS :
- ✔ Secondary DNS :
- ✔ Web Port :

PPPoE

- ✔ Enable PPPoE : Enable Disable
 - ✔ User Name :
 - ✔ Password :
 - ✔ MTU : (512 ≤ MTU Value ≤ 1492)
-

The descriptions of every setting in this menu will be given below:

Item	Description
Network Type	<p>This camera can obtain the IP address from DHCP server automatically (if you have one), or set a fixed IP address. Select 'DHCP' to obtain IP address automatically or 'Static IP Address' to assign this IP camera with a fixed IP address.</p> <p>When 'DHCP' is selected, IP address parameters below will be grayed out.</p>
IP Address	Specify the IP address for this IP camera here.
Subnet Mask	Specify the subnet mask for this IP camera here.
Gateway	Specify the gateway address of the local network here.
Primary DNS	Specify the IP address of DNS server here. Please input IP address only. If you don't know the address of DNS server, ask network administrator or your ISP for help.
Secondary DNS	<p>Specify the IP address of backup DNS server here. When primary DNS is unreachable, IP camera will use the IP address specified here as DNS server.</p> <p>This field is optional.</p>
Web Port	<p>Specify the port number of web management interface here. If it's not 80, you'll have to add ':port' after the IP address / hostname of this IP camera.</p> <p>For example, if the HTTP port number you specified here is 90 and the IP address of IP camera is 10.20.20.30, then you have to input '<i>http://10.20.20.30:90</i>' in the address bar of Internet explorer.</p>
Enable PPPoE	Select 'Enable' to activate PPPoE function of this IP camera, select 'Disable' to disable it.
User Name	Input the PPPoE username assigned by your ISP here.
Password	Input the PPPoE password assigned by your ISP here.
MTU	Input the MTU (Maximum Transmission Unit) given by your ISP here. Ask your ISP if you don't know what value you should input here. Default value should work with most of ISPs and will give you a nice network

	performance.
--	--------------

Click 'Apply' to save settings and make the new settings take effect.

2.3.2 WLAN

Wireless LAN

✔ Wireless Connection : Enable Disable

✔ Network Type : Infrastructure

✔ Available Networks :

Connect	SSID	MAC Address	Signal	Channel	Encryption	Network Type
<input checked="" type="radio"/>		00:07:40:FE:60:7E		4	WPAPSK(TKIP)	Infrastructure
<input type="radio"/>	books	00:1B:11:62:84:68		8	WPA2PSK(AES)	Infrastructure

✔ SSID :

✔ Channel :

✔ Wireless Key :

WPS

✔ Self PinCode : 31500203

✔ Configure via Push Button :

✔ Configure via PinCode : Registrar SSID :

Wireless LAN

Wireless Connection : Enable Disable

Network Type : Infrastructure

Available Networks :

Connect	SSID/SSID	MAC Address	Signal	Channel	Encryption	Network Type
<input type="radio"/>	KEN1	00:1C:10:AA:FE:0D		6	WPAPSK(TKIP)	Infrastructure
<input type="radio"/>	Edimax	00:1F:1F:57:3C:24		6	Disabled	Infrastructure
<input type="radio"/>	6F-6400N	00:1F:1F:3A:36:34		6	WPA2PSK(AES)	Infrastructure
<input type="radio"/>	Jesse	00:1F:1F:1F:73:58		11	WEP	Infrastructure
<input type="radio"/>	3G-6400N	00:1F:1F:57:BB:78		11	WPAPSK(AES)	Infrastructure
<input type="radio"/>	6F_EMAX	00:0E:2E:FF:FF:01		11	Disabled	Infrastructure

SSID : any

Channel : 11

Authentication : WPA-PSK

Encryption Type : AES

WPA Pre-Shared Key :

WEP Key Length : 64-Bit

WEP Key Format : HEX

Default Key : 1

WEP Key 1 :

WEP Key 2 :

WEP Key 3 :

WEP Key 4 :

WPS

Self PinCode : 11430001

Configure via Push Button :

Configure via PinCode : Registrar SSID :

The descriptions of every setting in this menu will be given below:

Item	Description
Wireless Connection	Select 'Enable' to activate wireless network function of this IP camera, select 'Disable' to disable it.
Network Type	Select the network type of wireless connection. Available options are 'Infrastructure' (Connect the IP

	<p>camera to a wireless access point), and 'Adhoc' (This IP camera will become a stand-alone wireless network point, other wireless computers / devices can discover this IP camera and connect to it without wireless access point).</p> <p>You can set to 'Adhoc' when you don't have any wireless access point, but your computer has wireless network card. Set to 'Infrastructure' when you have wireless access point, and you have computers with wired network connection.</p>
<p>Available Networks</p>	<p>Here shows all wireless access points found by this IP camera. Please note not all access points will be displayed at the same time, if the access point you expected to connect does not appear, you may have to click 'Refresh' button for several times until it appears.</p> <p>The descriptions of all fields is listed below:</p> <p>Connect: You can select the wireless access point you wish to connect here.</p> <p>SSID: the SSID of all found wireless access points will be shown here. Some wireless access point may hide their SSID; in this case, you have to identify them by their MAC address.</p> <p>MAC Address: If you there are many wireless access points in proximity or some wireless access point hides it's SSID, you can use MAC address to distinguish them.</p> <p>Signal: Shows the radio signal strength in percent.</p> <p>Channel: Shows the radio channel of this wireless access point.</p> <p>Encryption: Shows the encryption type used by this wireless access point. You must use the same encryption type if you wish to connect to a certain wireless access point. If the wireless access point does not use</p>

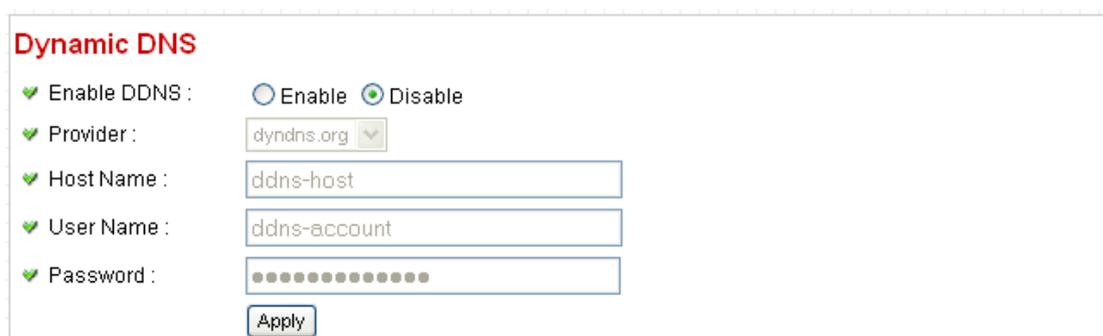
	<p>encryption, 'Disabled' will be displayed here.</p> <p>Network Type: Shows the network type of a certain wireless access point (Infrastructure or Adhoc).</p>
SSID	<p>Input the SSID of the wireless access point you wish to connect. It should be less than 32 alphanumerical characters.</p> <p>When you select a wireless access point above, it's SSID will be filled in this field automatically. However, if the SSID is not displayed (the wireless access point you selected choose to hide it's SSID), you have to know it's SSID and input it here, or you will not be able to connect it.</p>
Channel	<p>Select the radio channel you wish to use here. When network type is 'Infrastructure', the radio channel is auto-selected according to the channel that wireless access point uses. You can only select the channel number when network type is 'Adhoc'.</p>
Authentication	<p>Displays current wireless authentication mode.</p>
Encryption Type	<p>You are allowed to select the encryption type correspond to the wireless authentication mode.</p>
WPA Pre-Shared Key	<p>The Pre-shared key is used to authenticate and encrypt data transmitted over the wireless network. Fill the text box by following the rules listed here: Hex WEP: input 64-digit Hex values ("A-F", "a-f" and "0-9") or at least 8 character pass phrase as the pre-shared keys.</p>
WEP Key Length	<p>You can select the WEP key length for encryption, 64-bit or 128-bit. Larger WEP key length will provide higher level of security, but the data throughput will be lowered.</p>
WEP Key Format	<p>You can select ASCII Characters (alphanumeric format) or Hexadecimal Digits ("A-F", "a-f" and "0-9") to be the WEP Key.</p> <p>For example: ASCII Characters: guest Hexadecimal Digits: 12345abcde</p>
Default Key	<p>Select one of the four keys to encrypt your data. Only the key you select it in the "Default key" will be used.</p>
WEP Key 1- 4	<p>The WEP keys are used to encrypt data transmitted over</p>

	<p>the wireless network. Fill the text box by following the rules: 64-bit WEP: input 10-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII character as the encryption keys.</p> <p>128-bit WEP: input 26-digit Hex values ("A-F", "a-f" and "0-9") or 13-digit ASCII characters as the encryption keys.</p>
Wireless Key	Input the encryption key of selected wireless access point here. This is required when access point you wish to connect uses encryption.
Self PinCode	Here displays the WPS pin code used to connect to WPS-enabled wireless access points. You have to input this number into the WPS enabled access point to establish WPS connection.
Configure via Push Button	<p>Click this button and this camera will enter PBC-style WPS connection state for 120 seconds. Please push 'Start PBC' button on the wireless access point you wish to connect within 120 seconds to establish WPS connection (The remaining time will be displayed on the button).</p> <p>If connection can not be established after 120 seconds, you'll be prompted by a message box, and you can press 'Start PBC' button to try again.</p>
Configure via PinCode	If you have wireless access point's WPS PIN code, you can input it here and press 'Start PIN' button to start to establish PIN-style WPS connection.

2.3.3 Dynamic DNS

If your ISP does not give you a fixed Internet IP address (i.e. the Internet address you're using when you access the Internet is not always the same – ask your ISP for detailed information), you can use this function to help you locate the IP address of this IP camera when you're away from home or office.

Before you can use this function, you'll need to apply for an account at dyndns.org (<http://www.dyndns.org>). Detailed instructions of how to apply a new account can be found on dyndns.org's website.



Dynamic DNS

✔ Enable DDNS : Enable Disable

✔ Provider :

✔ Host Name :

✔ User Name :

✔ Password :

The descriptions of every setting in this menu will be given below:

Item	Description
Enable DDNS	Select 'Enable' to activate Dynamic DNS function of this IP camera, select 'Disable' to disable it.
Provider	Select dynamic DNS service provider here. Only dyndns.org is available currently.
Host Name	Input dynamic DNS host name here.
User Name	Input dynamic DNS user name here, must be the same as the one you applied on dyndns.org.
Password	Input dynamic DNS password here, must be the same as the one you applied on dyndns.org.

Click 'Apply' to save settings and make the new settings take effect.

2.3.4 UPnP

When UPnP function is activated, all UPnP-compatible computers / network devices will be able to discover this IP camera automatically (only those in the same local network).

This function is useful and you don't have to remember the IP address of this IP camera. Simply open 'Network neighbor' and it's there!



The descriptions of every setting in this menu will be given below:

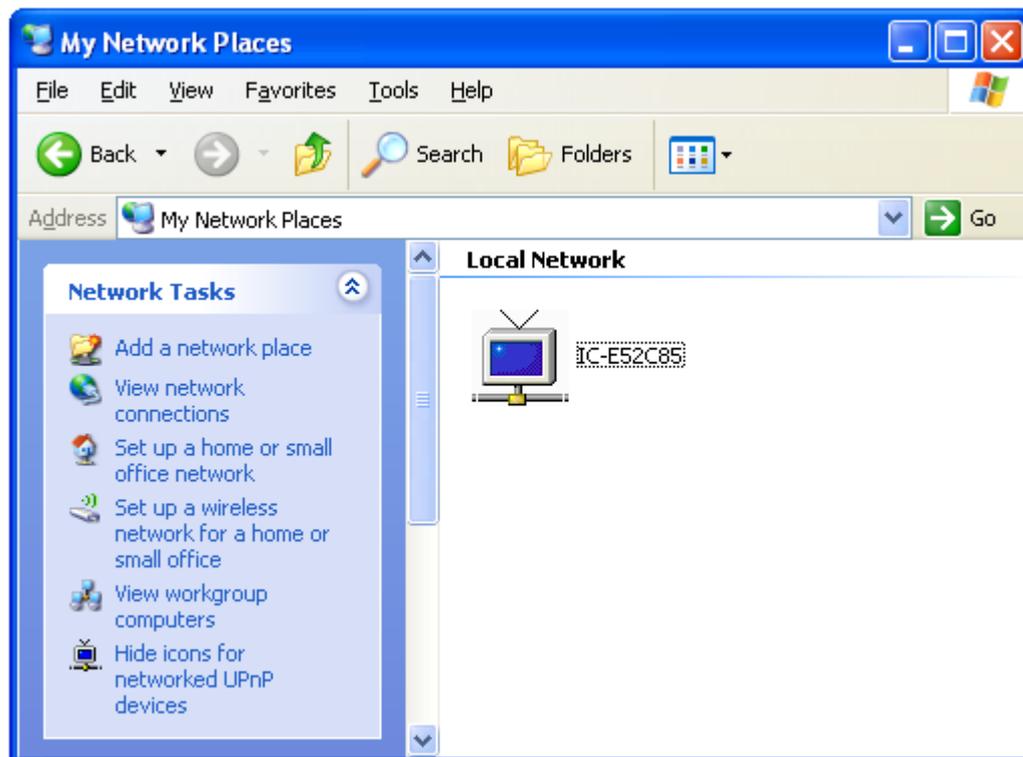
Item	Description
Enable UPnP	Select 'Enable' to activate UPnP function of this IP camera, select 'Disable' to disable it.

Click 'Apply' to save settings and make the new settings take effect.

After UPnP function is activated, a popup message will appear:



Click the message to open 'My Network Places', and you'll see the IP camera:



You can double-click the icon to launch Internet Explorer and log onto IP camera's web management interface directly.

2.3.5 LoginFree

This camera provides a method to let unauthorized users to view the image captured by this camera, which is called as 'LoginFree'. When you wish to let everyone to view the image captured by this camera, or integrate the image with your own web application, you can use this function:

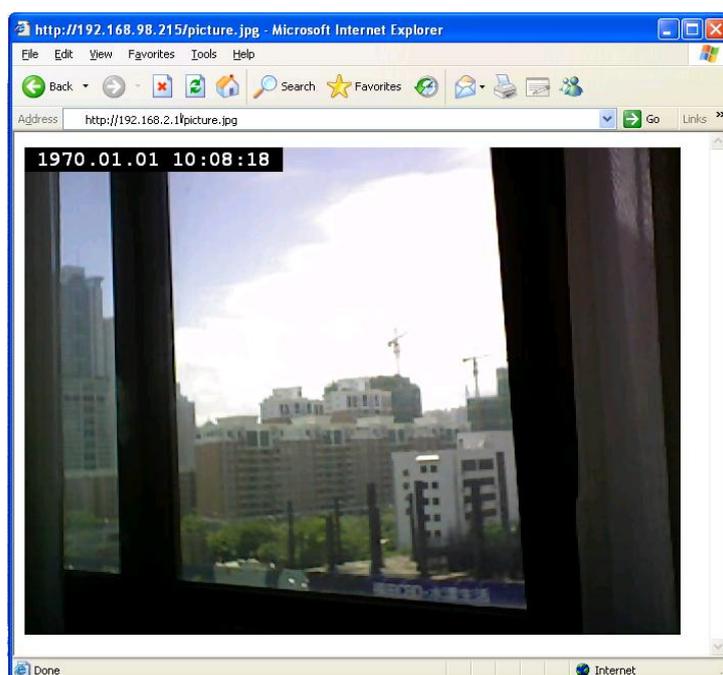
LoginFree

✔ Filename : .jpg

Input the filename here, and click 'Apply' to save settings, then other users can access the image by this filename with .jpg extension with the camera's IP address as prefix. For example, if your camera's IP address is '192.168.2.1' and the filename you set here is 'picture', then everyone on the web can access the image captured by this camera by using the following address:

<http://192.168.2.1/picture.jpg>

Please note that no authentication will be required to see the captured image. If you wish to disable this function, clear the text in 'Filename' field and click 'Apply'.



2.3.6 RTSP

If you want to watch video captured by this IP camera by your own RTSP (Real Time Streaming Protocol) media player, you can use this function to setup RTSP parameters, so your RTSP-compatible player will be able to receive video data.

Video Streaming

✔ RTSP Port :

✔ MPEG4 RTSP Path : .sdp

✔ H264 RTSP Path : .sdp

✔ RTP Port Range : -

The descriptions of every setting in this menu will be given below:

Item	Description
RTSP Port	Input the port number of RTSP here. Default setting is 554.
MPEG4 RTSP Path	Input the path of MPEG4 RTSP video file. When you use RTSP-compatible media player to play RTSP stream, please remember to add '.sdp' file extension.
H.264 RTSP Path	Input the path of H.264 RTSP video file. When you use RTSP-compatible media player to play RTSP stream, please remember to add '.sdp' file extension.

2.4 Motion Detection

When you wish to use this camera to monitor the activities, motion detection function will be very useful. Camera will detect the motion in captured image, and take a snapshot when motion is detected. So you can use this camera to keep the safety of the belongings you have.

To use motion detection, click the following link from the top of menu:



After you selected 'Motion Detection', a sub-menu will appear. There are 5 sub-menus available here:



Detailed descriptions of every setting will be given below.

2.4.1 Motion Detection

You can use this menu to setup basic motion detection settings:

Motion Detection	Motion Region	E-Mail	FTP Configuration	SD Card Configuration
Motion Detection				
✓ Enable Motion Detection :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable			
✓ Motion Detection Interval :	5 <input type="text"/> seconds			
✓ Pre Recording Time :	5 seconds (estimated time)			
✓ Post Recording Time :	2 <input type="text"/> seconds			
✓ Sending File Type :	AVI (MPEG4) <input type="text"/>			
✓ Send snapshot file to FTP :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable			
✓ Send snapshot file to E-Mail :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable			
SD Card				
✓ SD Card Record :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable			
✓ Storage File Type :	AVI (MPEG4) <input type="text"/>			
✓ Record File Size :	100 <input type="text"/> MBytes (Max 100 MB)			
Samba Network				
✓ Record to Folder :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable			
✓ Authentication :	Anonymous <input type="text"/>			
✓ User Name :	<input type="text"/>			
✓ Password :	<input type="text"/>			
✓ Samba Server :	192.168.3.61 <input type="text"/>			
✓ Shared Folder :	share <input type="text"/>			
✓ Storage File Type :	AVI (MPEG4) <input type="text"/>			
✓ Record File Size :	100 <input type="text"/> MBytes (Max 100 MB)			
<input type="button" value="Apply"/> <input type="button" value="Samba Test"/>				

The descriptions of every setting in this menu will be given below:

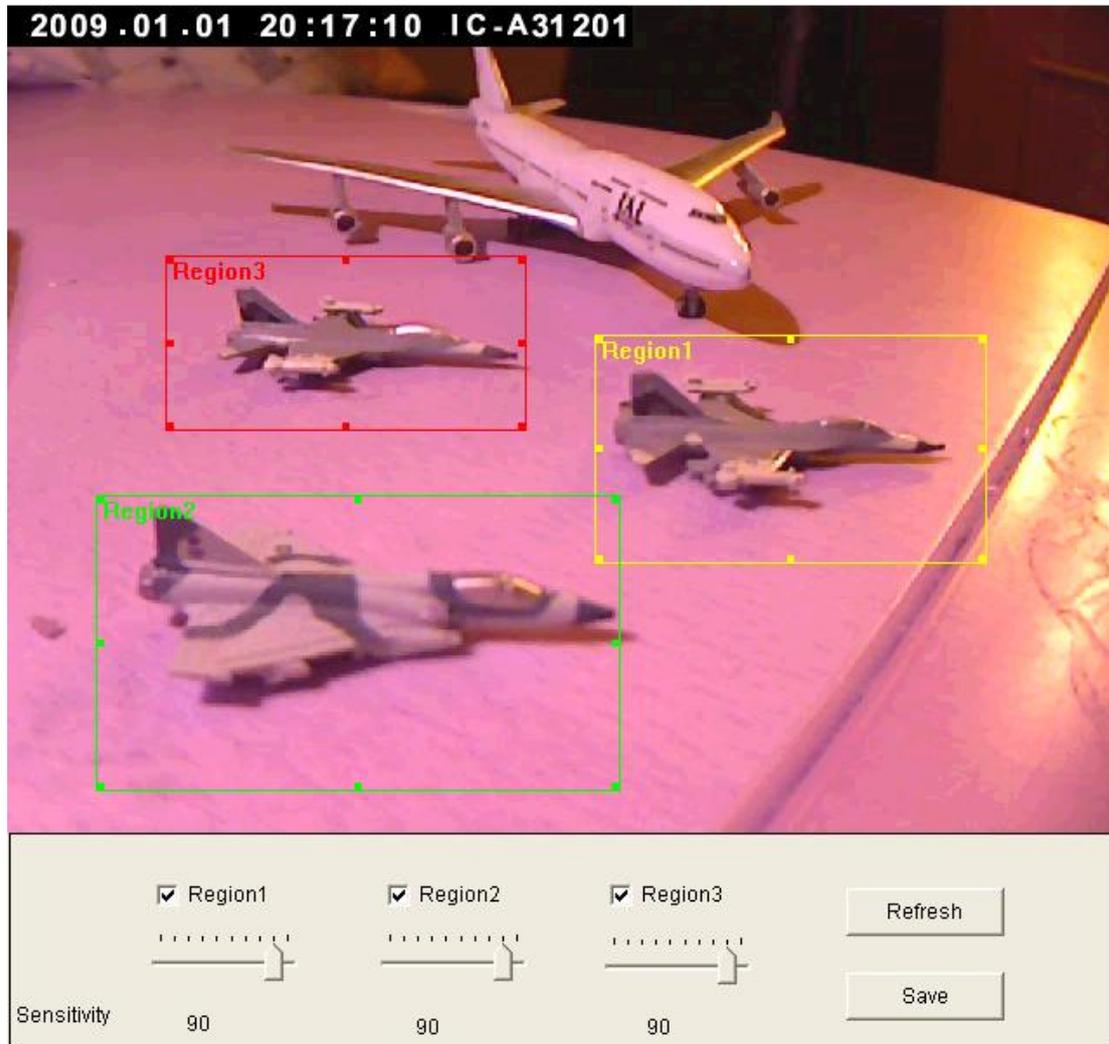
Item	Description
Enable Motion Detection	Select 'Enable' to enable motion detection, and select 'Disable' to disable this function.
Motion Detection Interval	Select the time interval between two motions from dropdown menu. When a motion is detected, camera will not detect any motion again within the time interval you specified here. Available options are from 0 second (always detect new motion) to 60 seconds.
Pre Recording Time	This option allows the IP cam to capture additional image frames prior to the event. The duration of pre recording is based on the settings of Resolution and estimated by the

	IP cam automatically.
Post Recording Time	Select the duration you wish this camera to record image when a motion is detected from dropdown menu. The available option of the duration is based on the settings of Resolution.
Sending File Type	Select the file type that will be saved when a motion is detected. Select 'JPEG' and a still picture in JPEG format will be saved; and select 'AVI' to save a motion video clip.
Send snapshot file to FTP	Select 'Enable' to send the saved file to appointed FTP server when a motion is detected, select 'Disable' to disable this function. You have to configure FTP server parameters in 'FTP Configuration' menu first, so this function will take effect
Send snapshot file to E-Mail	Select 'Enable' to send the saved file to appointed E-mail address when a motion is detected, select 'Disable' to disable this function. You have to configure mail server parameters in 'FTP Configuration' menu first, so this function will take effect
SD Card Record	Select 'Enable' to record detected motion to SD card (if there's one), and select 'Disable' to disable this function.
Storage File Type	Select saving file type for motion detection: JPEG (still picture) or AVI MPEG4 / AVI H264 (for motion picture).
Record File Size	Input the maximum file size of saved file in Mbytes. Maximum file size is 100.
Record to Folder	Select 'Enable' to save file to a network folder which supports SAMBA (also known as 'Windows Network Neighborhood'), select 'Disable' to disable this function.
Authentication	If username and password are not required to write files in specified folder, select 'Anonymous'; if required, select 'Account'.
User Name	Input user name required by destination network folder.
Password	Input password of the user name required by destination network folder.
Samba Server	Input the IP address or host name of network file server.
Shared Folder	Input the folder name on file server.
Storage File Type	Select saving file type for motion detection: JPEG (still picture) or AVI MPEG4 / AVI H264 (for motion picture).
Record File Size	Input the maximum file size of saved file in Mbytes. Maximum file size is 100.

Click 'Apply' to save settings and make the new settings take effect.

2.4.2 Motion Region

You can define the motion detection region within the image that camera captures, so this camera will ignore motions which are not covered by the motion region setting, and reduce the chances of false alarm.



The descriptions of every setting in this menu will be given below:

Item	Description
Region 1 – 3	Check the box to enable motion detection region 1 to 3. You can check multiple boxes to enable multiple motion detection regions. When you checked a box, a new region (and region number) will be displayed on captured image.
Sensitivity	Move the slide bar to change the motion detection

	sensitivity setting: Drag the slide to the right to increase sensitivity (camera will detect minor changes in the image), and drag the slide to the left to decrease sensitivity (camera will only detect major changes in the image).
Refresh	In case the objects of the image captured by the camera moved, click this button to reload the image captured by camera, so you can decide the motion detection region more precisely.
Save	Save motion detection region settings.

To change the motion detection region, you can 'resize' and 'reposition' it:



Move the mouse cursor to the eight dots located at the border of motion detection region, and the mouse cursor will switch to \leftrightarrow , \nwarrow , or \updownarrow . You can click and hold mouse button and move the mouse to resize the motion detection region.

To move reposition the motion detection region, move the mouse within the motion detection region, and the mouse cursor will switch to $\blacktriangleleft\blacktriangleright$. Click and hold mouse button and move the mouse to reposition the motion detection region.

2.4.3 Email

You can define the destination address of E-mail sending and mail server parameters here.

E-Mail

✔ Recipient E-Mail Address :	<input type="text"/>
✔ E-Mail Subject :	<input type="text" value="Motion Detection Notification"/>
✔ SMTP Server :	<input type="text"/>
✔ Sender E-Mail Address :	<input type="text"/>
✔ SMTP Port :	<input type="text" value="25"/>
✔ SMTP enable SSLv2/v3 function :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
✔ SMTP Authentication :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
✔ User Name :	<input type="text"/>
✔ Password :	<input type="password"/>
	<input type="button" value="Apply"/> <input type="button" value="Send a test email"/>

The descriptions of every setting in this menu will be given below:

Item	Description
Recipient E-Mail Address	Input the email recipient's Email address here.
E-Mail Subject	Specify the title of sending email, so you can identify the mail sent from this camera from others quickly.
SMTP Server	Input the IP address or host name of the SMTP server (the server that delivers the Email for you) here. If you don't know, please refer to the SMTP server you're using in your Email software (like Outlook, Outlook Express etc.), or ask your network administrator or ISP.
Sender E-Mail Address	Input the Email address of mail sender, this will help you to identify the Email sent by this IP camera by sender's Email address. <i>NOTE: Some mail server would reject to deliver the Email from unknown sender, it's recommended to input your own Email address here, or any other actual one.</i>
SMTP Port	You can set port number according to your mail server.
SMTP enable SSLv2/v3	Select 'Enable' if your SMTP server supports SSLv2/v3 such as gmail.

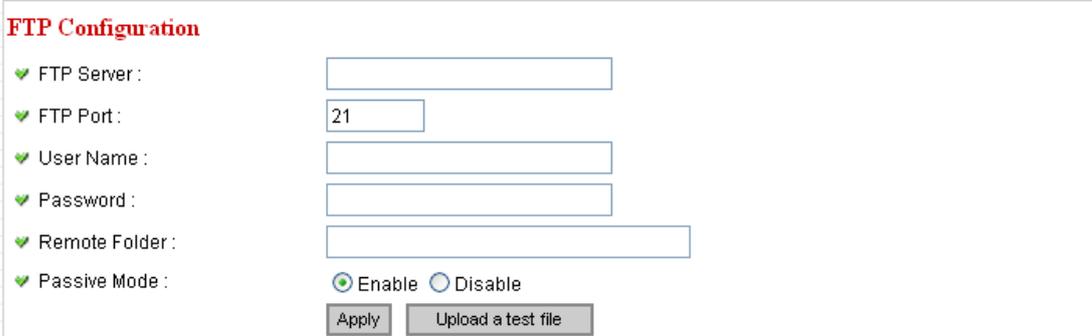
function	
SMTP Authentication	Some SMTP server requires mail senders to be authenticated before they can send Email. If your SMTP server requires you to do so, please select 'Enable', or select 'Disable' to disable it. If you don't know, please refer to the SMTP server you're using in your Email software (like Outlook, Outlook Express etc.), or ask your network administrator or ISP.
User Name	Please input the user name of SMTP server here, if your SMTP server requires the use of authentication.
Password	Please input the password of SMTP server here, if your SMTP server requires the use of authentication.

Click 'Apply' to save settings and make the new settings take effect.

After that, you can click 'Send a test email' to send a testing Email to the address you set here, so you can make sure the setting you specified here is correct and working.

2.4.4 FTP Configuration

You can set FTP server's parameters here.



FTP Configuration

✔ FTP Server :

✔ FTP Port :

✔ User Name :

✔ Password :

✔ Remote Folder :

✔ Passive Mode : Enable Disable

The descriptions of every setting in this menu will be given below:

Item	Description
FTP Server	Input the IP address or host name of the FTP server you wish to use here.
FTP Port	Input the port number of the FTP server you wish to use here.
User Name	Input the user name of the FTP server you wish to use here.
Password	Input the password of the FTP server you wish to use here.
Remote Folder	<p>Input the remote folder name on the FTP server here. If nothing is specified here, all uploaded image files will be placed in FTP server's root directory.</p> <p>Please ask FTP server's administrator to know which folder you should use. Certain user name may have restrictions and therefore can not place the file in the directory not owned by the user.</p>
Passive Mode	<p>Select 'Enable' to use passive mode to send file, or select 'Disable' to not to use passive mode to send file.</p> <p>Some FTP servers require passive mode, if you don't know, please ask FTP server's administrator; most of FTP servers will work fine with both modes, but if you</p>

	found that non-passive mode is not working, you can try to use passive mode.
--	--

Click 'Apply' to save settings and make the new settings take effect.

After that, you can click 'Upload a test file' to send a file to the FTP server you set here, so you can make sure the setting you specified here is correct and working.

2.4.5 SD Card Configuration

You can define the filename and destination folder when saving a file in SD card.

SD Card Configuration

Enable Cycle Recording

♥ File Name Prefix :

♥ Destination Folder :

The descriptions of every setting in this menu will be given below:

Item	Description
Enable Cycle Recording	Check this box and this camera will automatically erase oldest image file to make rooms for new image files when SD card is full. If you don't want to lose old image files, do not check this box.
File Name Prefix	Specify the filename prefix (the texts which will be added before the file sequence number).
Destination Folder	Specify the folder name that camera will store the saved image or video clip.

Click 'Apply' to save settings and make the new settings take effect.

2.5 System Info

You can use this menu to get the operational information of this camera:



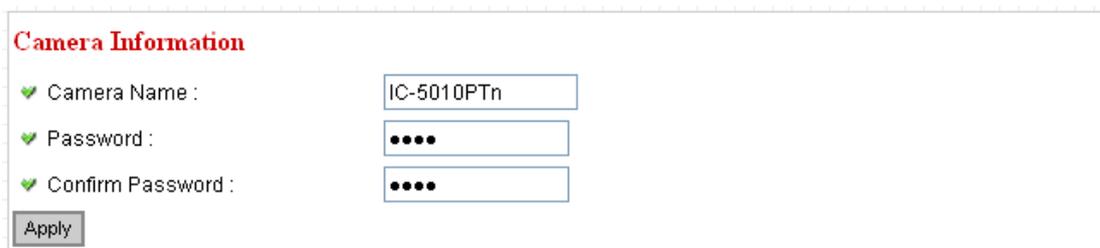
After you selected 'System Info.', a sub-menu will appear. There are 6 sub-menus available here:



Detailed descriptions of every setting will be given below.

2.5.1 Camera Information

Camera information allows you to set the name and administrator's password of this camera.



Camera Information

✔ Camera Name :

✔ Password :

✔ Confirm Password :

The descriptions of every setting in this menu will be given below:

Item	Description
Camera Name	<p>Please specify the name of this IP Camera here. This can be used to identify your camera on the network when you have more than one IP camera in the same network.</p> <p>Default name begins with 'IC-' plus the last 6 characters of the MAC address of this IP camera. You can modify the name to the one you can remember and meaningful to you, but never give all IP cameras in the same network with same name.</p>
Password	<p>Please specify user name 'admin' 's password here. (The one you need when you log onto web management interface and use 'admin' as user name.</p>
Confirm Password	<p>Please input the same password again, to make sure there's no typo.</p>

Click 'Apply' to save settings and make the new settings take effect.

2.5.2 Date / Time Setting

This setting allows you to change the date and time of the real time clock in this IP camera. You can set the time manually, or use network time protocol (NTP) to set the time automatically.

Date / Time Setting

Set Date/Time manually / / : :

NTP Server

Time Zone : (GMT+08:00) Taipei

NTP Server : pool.ntp.org

Daylight Saving Time : Yes No

The descriptions of every setting in this menu will be given below:

Item	Description
Set Date/Time manually / NTP Server	<p>If you select 'Set Date/Time manually', you can set the date and time of this camera manually. Please input the date and time you wish to set here.</p> <p>Date / time format is YYYY / MM / DD HH:MM:SS Time is in 24-hour format.</p> <p>You can click 'Synchronize to PC time' to use the time of the computer you're using.</p> <p><i>Example: 24th August 2007 = 2007/ 08 / 24, and PM 9:24:30 = 21:24:30</i></p> <p>If you select 'NTP Server', the camera will get the date and time from NTP Server automatically.</p>
Time Zone	Please select the time zone of the country / city of resident from dropdown menu here.
NTP Server	Please input the IP address or host name of NTP server here. You can use default value 'pool.ntp.org', or ask your ISP for the IP address or host name, if they have one.
Daylight Saving	If your area of residence uses daylight saving, select

Time	'Yes'; otherwise select 'No'.
Synchronize to PC time	Click to input current time of your computer to 'Set Date / Time manually' field.

Click 'Apply' to save settings and make the new settings take effect.

If you wish to use the date and time setting of the computer which is connecting to the camera, click 'Synchronize to PC time' button. The date and time setting of the computer will be filled to date and time setting in this page.

2.5.3 Schedule

You can use this menu to setup Schedule Snapshot/Recording settings:

Schedule Snapshot

Enable FTP Schedule : Enable Disable
 Time Interval : Upload one image to FTP server every hour(s) /Frame
 Upload one image to FTP server every Frames per Second
 File Control : Upload files with filename composed of date / time
 Overwrite file with the same filename : .jpg

Enable E-Mail Schedule : Enable Disable
 Time Interval : Send one image every hour(s)

Schedule Recording

Enable Schedule Recording : Enable Disable
 Time Interval : Send one recording file every minute(s)
 Recording Time : seconds (from 1 second to 10 seconds)

Send Recording File to FTP : Enable Disable
 File Control : Upload files with filename composed of date / time
 Overwrite file with the same filename : .avi

Send Recording File to E-Mail : Enable Disable

Item	Description
Enable FTP Schedule	Select 'Enable' to send the Schedule Snapshot to the appointed FTP server, or select 'Disable' to disable this function. You have to configure FTP server parameters in 'FTP Configuration' menu first, so this function will take effect.
Time Interval	You can choose to upload one image to FTP server according to the time interval you wish, or choose to upload image as you wish to FTP server every second.
File Control	This option allows you to choose to upload each schedule snapshot with different file name composed of date/time, or to choose to upload the schedule snapshot with the same file name you wish. If you choose the latter, the prior-saved schedule snapshot will be overwritten by the latest schedule snapshot.
Enable E-Mail	Select 'Enable' to send the Schedule Snapshot to the

Schedule	appointed e-mail address, or select 'Disable' to disable this function. You have to configure e-mail settings in 'Email' menu first, so this function will take effect.
Time Interval	This option allows the IP camera to send one image according to the time interval you wish.
Enable Schedule Recording	Select 'Enable' to enable schedule recording, or select 'Disable' to disable this function.
Time Interval	This option allows the IP camera to send one recording file according to the time interval you wish.
Recording Time	This option allows you to adjust the recoding time based on your preference. Note: <i>The available recording time is based on the video resolution and video frame rate settings in 'Video' menu.</i>
Send Recording File to FTP	Select 'Enable' to send the recoded video to the appointed FTP server, or select 'Disable' to disable this function. You have to configure FTP server parameters in 'email & FTP' menu first, so this function will take effect.
File Control	This option allows you to choose to upload each recorded video with different file name composed of date/time, or to choose to upload the recorded video with the same file name you wish. If you choose the latter, the prior-saved recorded video will be overwritten by the latest recorded video.
Send Recording File to E-Mail	Select 'Enable' to send the recorded video to the appointed e-mail address, or select 'Disable' to disable this function. You have to configure e-mail settings in 'email & FTP' menu first, so this function will take effect.

2.5.4 Utilities

This menu allows you to upgrade firmware, clear all settings, reboot the IP camera, and switch LED lights on/off.

Utilities

Upgrade Firmware :

Reset To Factory Defaults :

Reboot Device :

LED Setting :

The descriptions of every setting in this menu will be given below:

Item	Description
Upgrade Firmware	<p>If you downloaded latest firmware file from our website, you can click 'Browse' button to pick a firmware file located on your computer's hard drive and you can upload the firmware file to the IP camera later.</p> <p>After you selected a proper firmware file from your computer, click 'Upgrade Firmware' button to start upgrade. DO NOT DISCONNECT NOW!</p> <p>If the firmware file you provided is invalid or you didn't provide the firmware file, you'll be prompted to select another valid firmware file again.</p> <p>The IP camera will reboot after the upgrade procedure is done. PLEASE NOTE THAT THE IP ADDRESS OF THE CAMERA WILL RESET TO DEFAULT VALUE: 192.168.2.3</p>
Reset to Factory Defaults	<p>Clear all settings in the camera. Please think again before you do this, and then click this button to reset all settings.</p> <p><i>NOTE: IP address will be reset to default value '192.168.2.3' also. You'll need to change the IP address</i></p>

	<i>setting of your computer if the IP address of your computer does not begin with '192.168.2', and subnet mask is not '255.255.255.0', or you'll not be able to connect to this IP camera again.</i>
Reboot Device	If you found the IP camera is responding slowly or behaves strange, you can click this button to try to reboot the IP camera, this may help.
LED Setting	<p>Click 'Turn off LED light' button to switch the LED light of this IP camera off, so all LEDs on the IP camera will stop working, in case you don't want other people know the camera is transferring data.</p> <p>You can click this button again to switch LED lights on again.</p>

Click 'Apply' to save settings and make the new settings take effect.

2.5.5 Status

This menu provides all information about this IP camera, like firmware version, system uptime, date / time, and network information.

System

- ✔ Firmware Version : v1.4 (Dec 31 2009 14:46:39)
- ✔ Device Uptime : 12 hours 24 min 27 sec
- ✔ System Time : 2009/01/01 20:24:12

LAN

- ✔ IP Address : 192.168.3.3
- ✔ Subnet Mask : 255.255.255.0
- ✔ Gateway :
- ✔ DNS Server : 168.95.1.1
- ✔ MAC Address : 00:01:55:A3:12:01
- ✔ HTTP Port : 80

PPPoE

- ✔ Link Status : Disconnected
- ✔ IP Address :
- ✔ Subnet Mask :
- ✔ Gateway :
- ✔ DNS Server:

2.5.6 System Log

All activities of this IP camera will be logged, and you are allowed to enter 'System Log' menu to view these logs.

System Log

```
1970/01/01 00:00:13 Failed to open PT device!
1970/01/01 00:00:13 System startup [ v1.0 (May 4 2010 18:09:39) ]
2010/01/01 00:00:00 Start Storage Manager.. (PID:67)
2010/01/01 00:00:00 No storage medium found.
2010/01/01 00:00:00 Start Samba Storage Manager.. (PID:68)
2010/01/01 00:00:00 Set microphone volume to 80
2010/01/01 00:00:00 Set Line-Out volume to 80
2010/01/01 08:00:00 embedded av stream server started PID:72

2010/01/01 08:00:00 Failed to open PT device!
2010/01/01 08:00:00 Starting mpeg4 pipe server for Spook
2010/01/01 08:00:00 Starting h264 pipe server for Spook
2010/01/01 08:00:00 Starting audio pipe server for Spook
2010/01/01 08:00:00 embedded av stream controller started (PID:81)
2010/01/01 08:00:00 Opened /dev/pl_grab successfully
2010/01/01 08:00:01 Opened /dev/pl_enc successfully (MPEG4)
2010/01/01 08:00:01 Opened /dev/pl_enc successfully (MJPEG)
2010/01/01 08:00:01 Opened /dev/pl_264 successfully (H264)
2010/01/01 08:00:01 Opened /dev/pl_enc successfully (MD)
2010/01/01 08:00:01 Accepted a new connection from spook... (mpeg4 video)
2010/01/01 08:00:01 Accepted a new connection from spook... (h264 video)
2010/01/01 08:00:01 Accepted a new connection from spook... (audio)
2010/01/01 08:00:04 Schedule AVI system started (PID:62)
2010/01/01 08:00:04 E-mail schedule system started (PID:61)
2010/01/01 08:00:04 FTP schedule system started (PID:60)
```

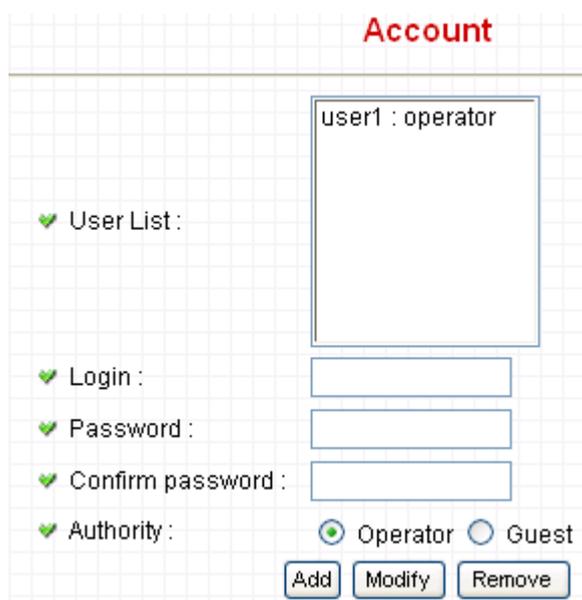
2.6 Account

If you wish to allow other people to view the live image captured by this camera, but don't want to allow them to modify system settings, you can give them user-level user name and password, so they can only view the image and can not change any system setting.

This camera supports up to 16 users.



After you selected 'Account', you'll be prompted to input user account information:

The 'Account' configuration page is displayed on a grid background. At the top, the word 'Account' is written in red. Below it, there is a 'User List' section with a green checkmark icon and a text box containing 'user1 : operator'. Below that are four input fields, each with a green checkmark icon: 'Login', 'Password', and 'Confirm password'. The 'Authority' section has two radio buttons: 'Operator' (selected) and 'Guest'. At the bottom, there are three buttons: 'Add', 'Modify', and 'Remove'.

The descriptions of every setting in this menu will be given below:

Item	Description
User List	Lists all users currently available.
Login	Input the login name (user name) of this account.
Password	Input the password of this user here.
Confirm password	Input the password of this user here again for confirmation.
Authority	Select the privilege of this user: Operator (able to enter camera & video menu) or Guest (view images only, but Guest account still needs to input User name/Password)

	when accessing the camera).
Add	Click this button to add the account.
Modify	Modify an existing user's information. You have to select a user from user list first.
Remove	Remove an existing user. You have to select a user from user list first.

Click 'Apply' to save settings and make the new settings take effect.

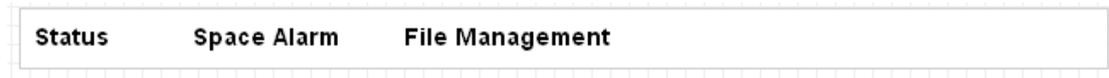
Please note: only one user (including administrator) will be able to view the image of IP camera at the same time.

If you wish to allow other people to view the live image captured by this IP camera without typing User name/Password, you can enable "Anonymous Login" in Anonymous page.

2.7 SDHC



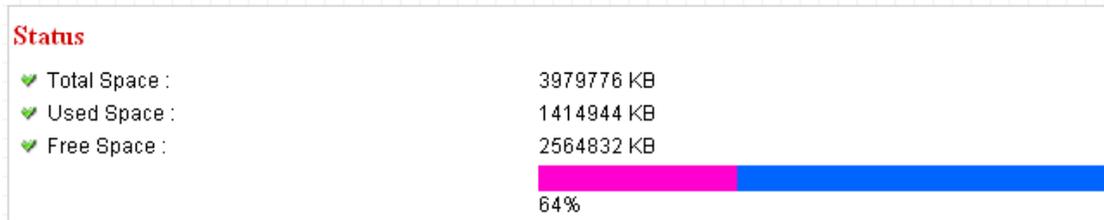
After you selected 'System Info.', a sub-menu will appear. There are 4 sub-menus available here:



Please click the SD card setting you wish to set, then refer to instructions given below:

2.7.1 Status

Here shows the remaining card space for you.



2.7.2 Space Alarm

When you're using SD card to store captured image and video clip, you can have this camera to send an E-mail to you when there's only little remaining space left on SD card.

Space Alarm

✔ Recipient E-Mail Address :	<input type="text"/>
✔ E-Mail Subject :	<input type="text" value="[SD Card Space Alarm]"/>
✔ SMTP Server :	<input type="text"/>
✔ Sender E-Mail Address :	<input type="text"/>
✔ SMTP Port :	<input type="text" value="25"/>
✔ SMTP enable SSLv2/v3 function :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
✔ SMTP Authentication :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
✔ User Name :	<input type="text"/>
✔ Password :	<input type="password"/>
✔ Reserved Space :	<input type="text" value="30"/> MB
	<input type="button" value="Apply"/> <input type="button" value="Send a test email"/> <input type="button" value="Copy Mail Config"/>

Please note: If you have set E-mail settings in 'Motion Picture' function, you can click 'Copy Mail Config' button to use the same setting. However, you can use a different setting here.

The descriptions of every setting in this menu will be given below:

Item	Description
Recipient E-Mail Address	Input the E-mail address you wish to receive space alarm.
E-Mail Subject	Input the title of space alarm E-mail.
SMTP Server	Input the SMTP server address you wish to use to send E-mail.
Sender E-Mail Address	Input the sender E-mail address of the space alarm E-mail.
SMTP Port	You can set port number according to your mail server.
SMTP enable SSLv2/v3 function	Select 'Enable' if your SMTP server supports SSLv2/v3 such as gmail.

SMTP Authentication	Select 'Enable' if the SMTP server you're using requires authentication, and input the username and password below; If the SMTP server you're using does not require authentication, select 'Disable' here. If you're not sure, ask your ISP or network administrator.
User Name	Type the user name of the user who has the mail account. This setting is necessary when the SMTP server which sends e-mails performs authentication.
Password	Type the password of the user who has the mail account. This setting is necessary when the SMTP server which sends e-mails performs authentication.
Reserved Space	Select the amount of SD card space which will be reserved and will not be used from dropdown menu.

Click 'Apply' to save settings and make the new settings take effect.

You can click 'Send a test email' button to send a test E-Mail by the configuration you set here.

2.7.3 File Management

You can use this menu to manage the files stored on SD card.

File Management



The descriptions of every setting in this menu will be given below:

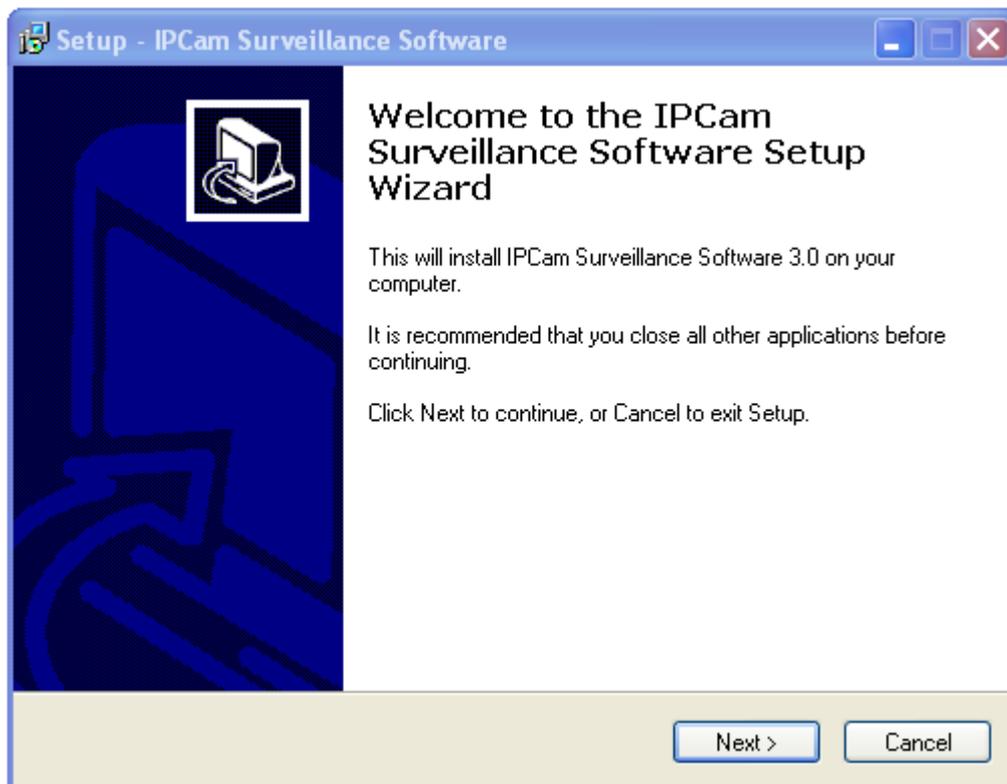
Item	Description
FirstPage	Jump to first page of file list.
PrevPage	Jump to previous page of file list.
NextPage	Jump to next page of file list.
LastPage	Jump to last page of file list.
SelectAll	Select all files in this page.
ClearAll	Clear all files in this page.
Delete	Delete selected files.

Chapter III: Using Surveillance Software

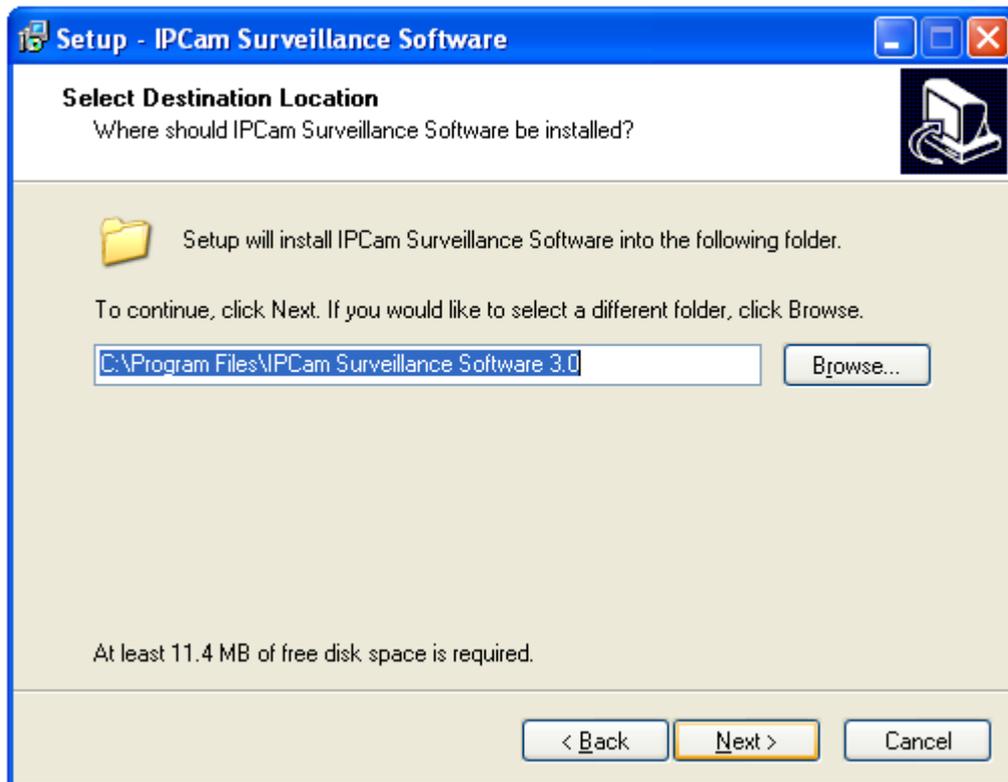
3-1 Installing IP Camera Surveillance Software

The IP camera surveillance software provides various functions like video recording, after this software is installed, you can use your IP camera to safeguard your property. Please follow the following instructions to install the surveillance software.

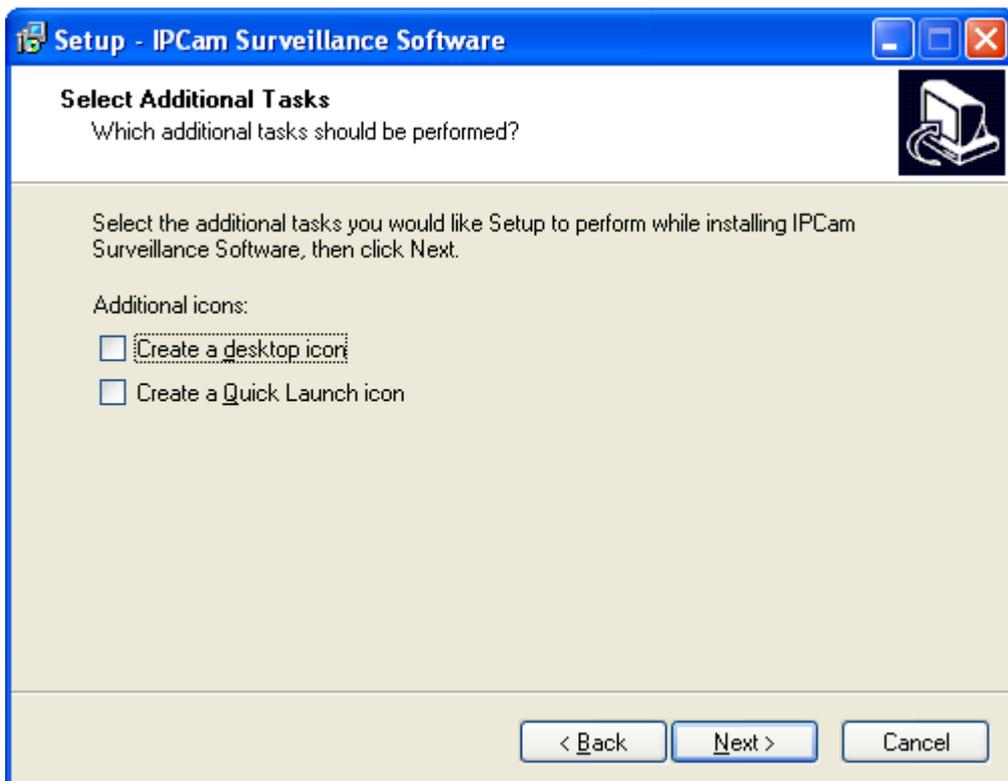
1. Click “16 channel viewer” in supplied CD-ROM, when the following window appears, click ‘Next’.



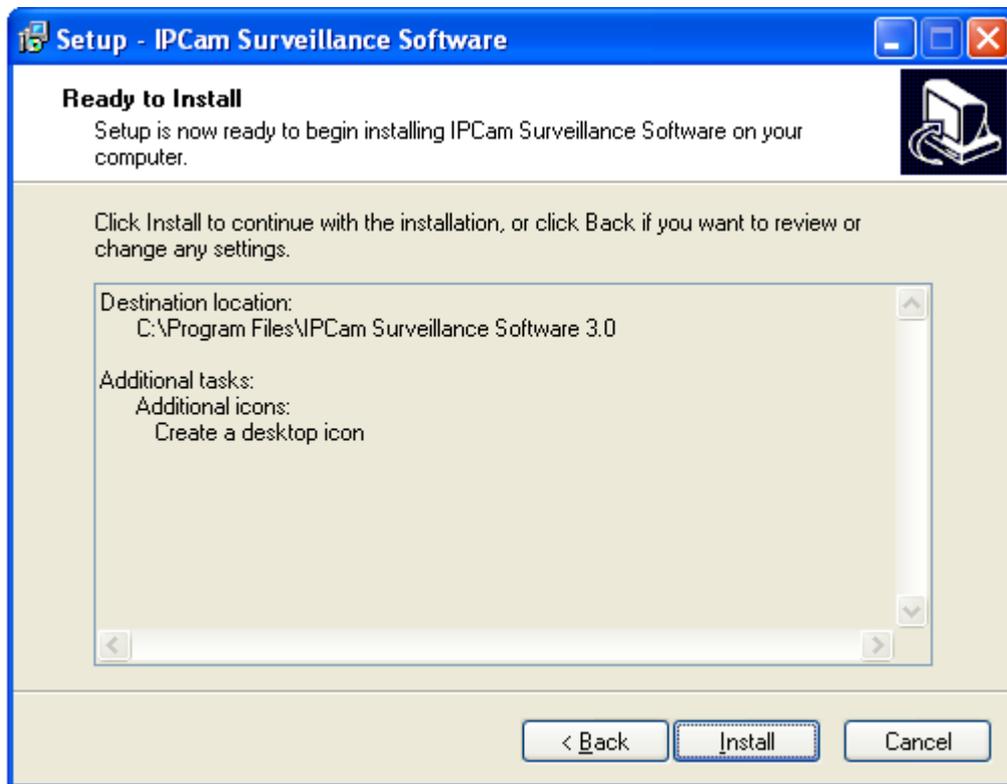
2. You can specify the destination folder of software installation, you can just use the default folder, and click ‘Next’ to continue.



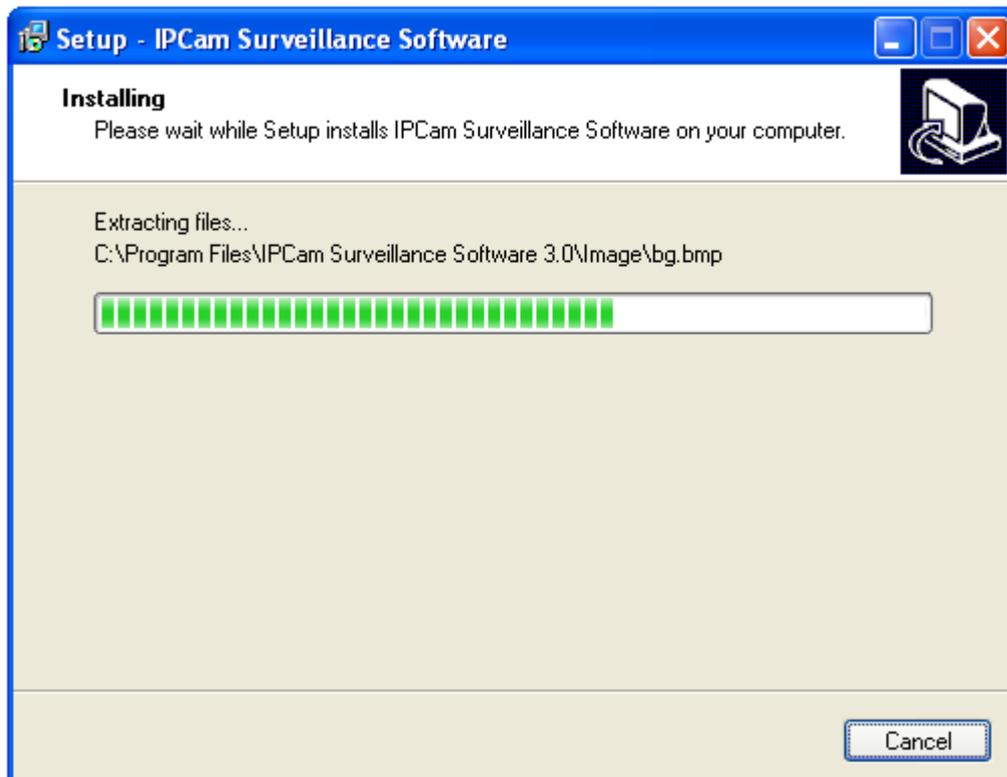
3. If you need installation program to create a desktop icon or a quick launch icon for you, click all items you need here, than click 'Next' to continue.



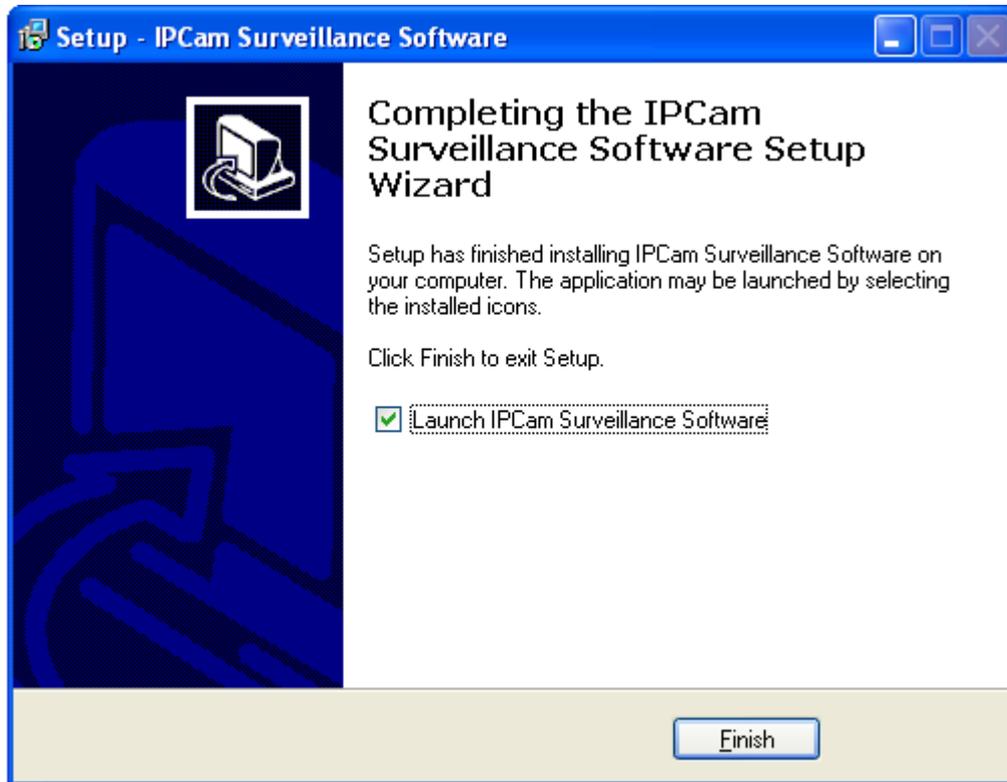
4. Here lists all options you chose in previous steps, if everything's correct, click 'Install' to start installing procedure, or click 'Back' to go back to previous step to modify installing settings.



5. The installing procedure will take some time, please be patient.



6. When you see this window, it means the software installing procedure is complete. Please click 'Finish' to finish the procedure (IP camera surveillance software will start after you click 'Finish' button, if you want to start it later, uncheck 'Launch IPCam Surveillance Software' box).



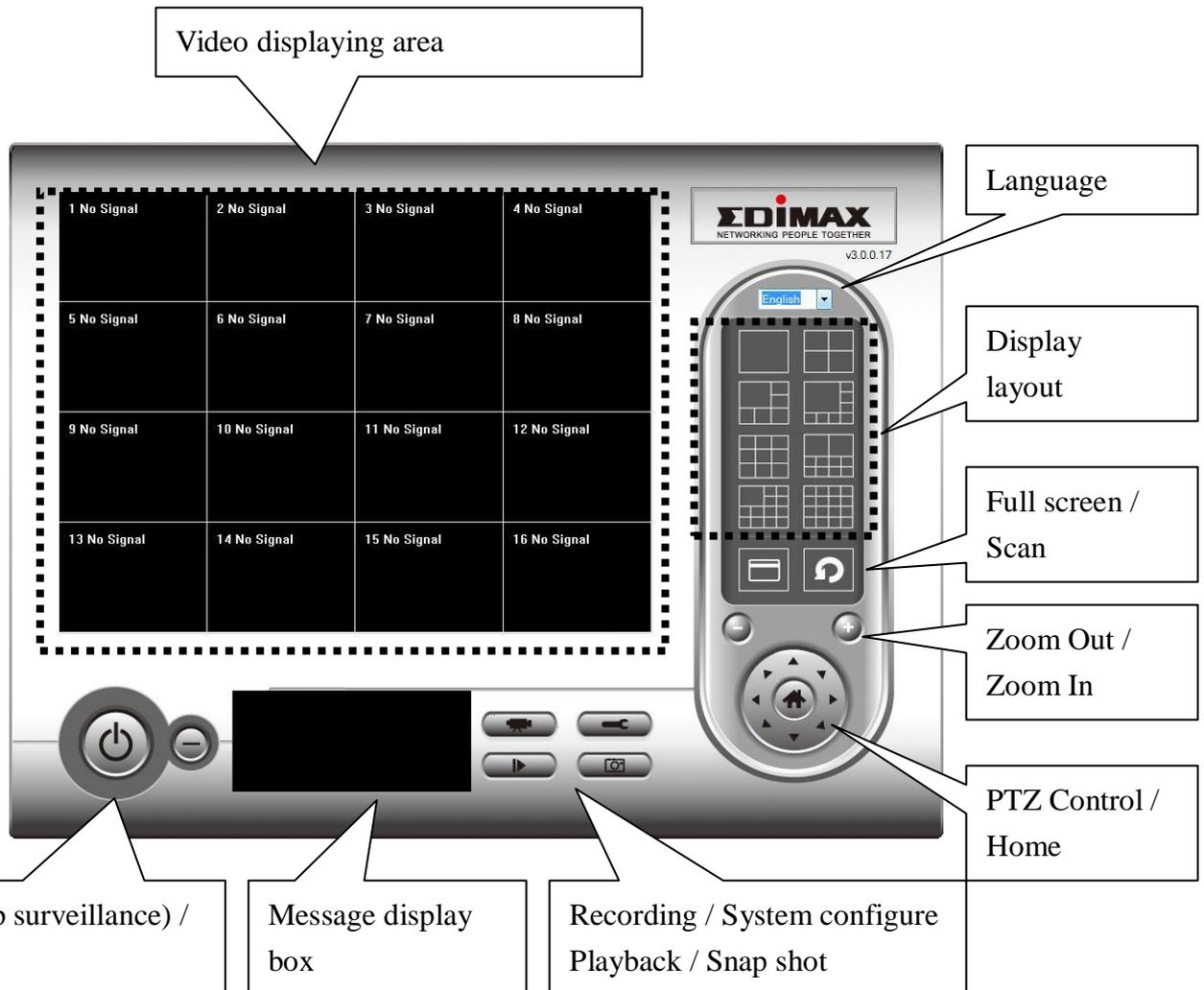
3-2 Using IP camera surveillance software

You can click 'IPCam Surveillance Software' icon from desktop, quick launch bar, or start menu to start the IP camera surveillance software.

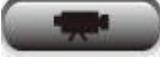
Before you start:

IP camera surveillance software will only work when your monitor's resolution is '1024 x 768'. Please change the resolution before you use IP camera surveillance software, or it won't start.

Here are descriptions for all components of IP camera surveillance software:



You can put the mouse cursor on a certain component and see its button name, and here're detailed descriptions of all buttons:

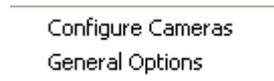
Item	Description
Video displaying area	The image of all connected cameras will be displayed here.
Language	Select a language from this dropdown menu to change display language.
Display layout 	Change camera image display layout (Click a layout icon to change camera display layout). There are 8 kinds of available display layouts.
Full screen 	Click this button to switch to full screen mode (only display all camera's image), press 'ESC' key to quit full screen mode.
Scan 	Click this button and the IP camera surveillance software will switch displaying the image of all connected camera automatically. Click this button once to activate scan function (scan icon will become blue ) , click again to stop scanning (scan icon will become white ) .
Zoom out 	Zoom-out (To see more objects). This function is only available for supported cameras.
Zoom In 	Zoom-in (Too see more details). This function is only available for supported cameras.
PTZ control 	There are 8 directions in PTZ control ring. If the camera you connect support PTZ, you can use PTZ control ring to change the direction that camera points to. This function is only available for supported cameras.
Home 	Click this button to return the camera to 'Home' (default) position. This function is only available for supported cameras.
Recording 	Start video recording.
Configure 	Software / camera configuration.

<p>Playback</p> 	<p>Playback a recorded video file.</p>
<p>Snapshot</p> 	<p>Take a snapshot of current camera.</p>
<p>Message display</p>	<p>Displays all system messages like camera is disconnected etc.</p>
<p>Close window (stop surveillance)</p> 	<p>Terminates IP camera surveillance software.</p>
<p>Minimize window</p> 	<p>Minimizes IP camera surveillance software window.</p>
<p>Video displaying area</p>	<p>Displays the image of all cameras by the display layout you selected.</p>

3-3 Configure IP camera surveillance software

3-3-1 Configure cameras

Before you use this IP camera surveillance software, you must configure the camera(s) you wish to connect. Please click 'System configure' button  and a popup menu will appear:



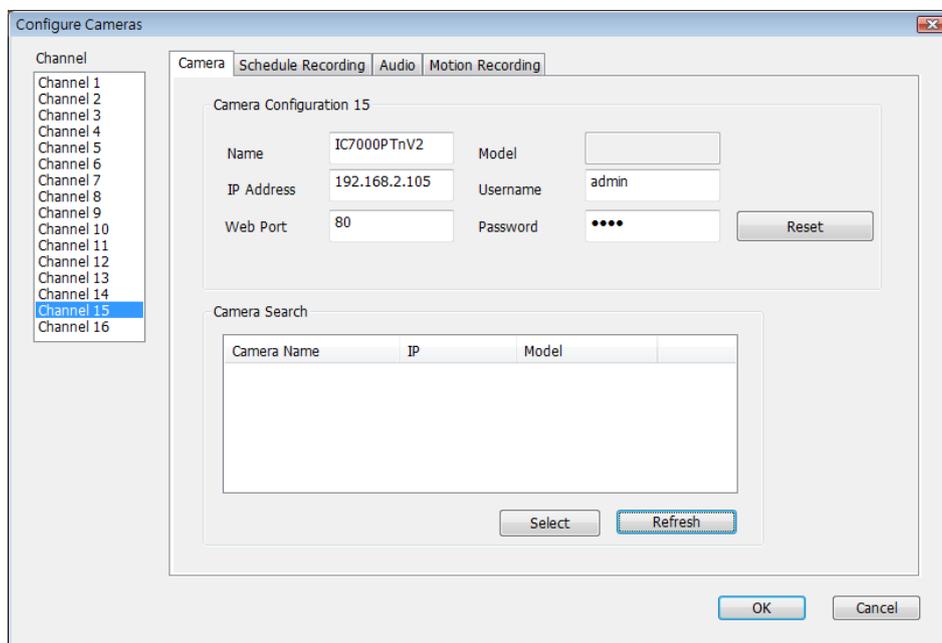
Please select 'Configure Cameras' to configure cameras:

Note: If you're prompted by a windows security alert which asks you if you want to block 'IPCamViewer' program, please click 'Unblock' button, of IP camera surveillance software will not be able to function correctly.



3-3-1-1 'Camera' tab

In this tab you can configure all cameras you wish to connect. Up to 16 cameras can be connected simultaneously:



Here are the descriptions of all setting items:

Item	Description
Channel	Select the channel number you wish to set.
Camera Search	All cameras found on your local network will be displayed in 'Camera Search' box.
Select	Select a camera listed in 'Camera Search' box, and click 'Select' button to fill all parameters of selected camera in every camera configuration fields.
Refresh	Rescan all cameras on your local network. If you didn't see the camera you expected in 'Camera Search' box, or new cameras has been joined to your local network after last scan.
Name*	Input the name of camera here. Default value is the first 6 bytes of camera's MAC address, you can change the name of camera so you can remember the camera's location of purpose easily.
Model	Displays the model of selected camera, this field can not be changed.

IP*	Input the IP address of camera.
Username*	Input the user name of camera.
Web Port*	Input the web port of the camera. By default it's '80'.
Password	Input the password of camera. Default value is '1234'. You should change the password if you changed the password of selected camera.
Video Format**	Select the video encoding format of this camera (MJPEG or MPEG4).
Reset	Clear all fields in 'Camera Configuration' section.
OK	Save settings in this tab.
Cancel	Discard all settings in this tab.

*: It's recommended to use 'Select' button to fill the content of this field.

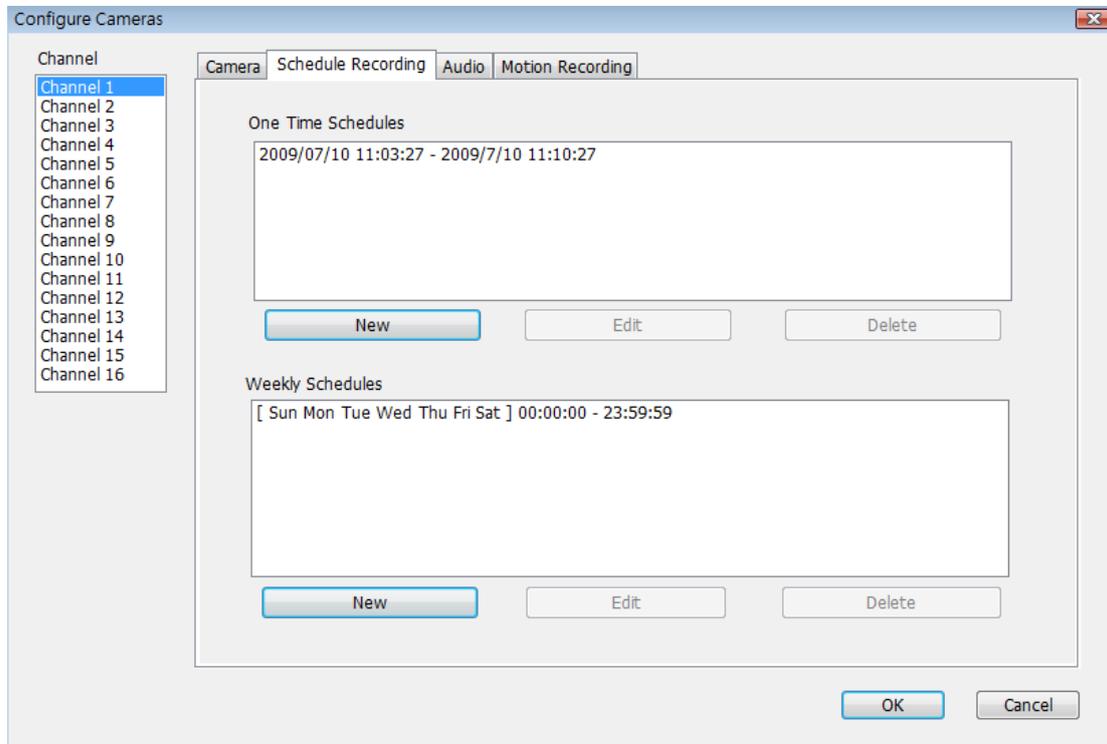
** : Only available for cameras support this function.

After you've set all channels you wish to set, click 'OK' to save settings, and if everything's correct, you'll see the camera's image in IP camera surveillance software's main menu:



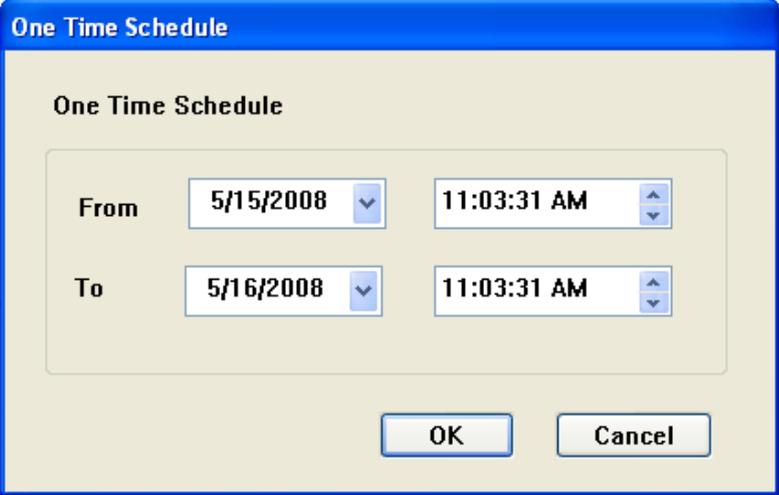
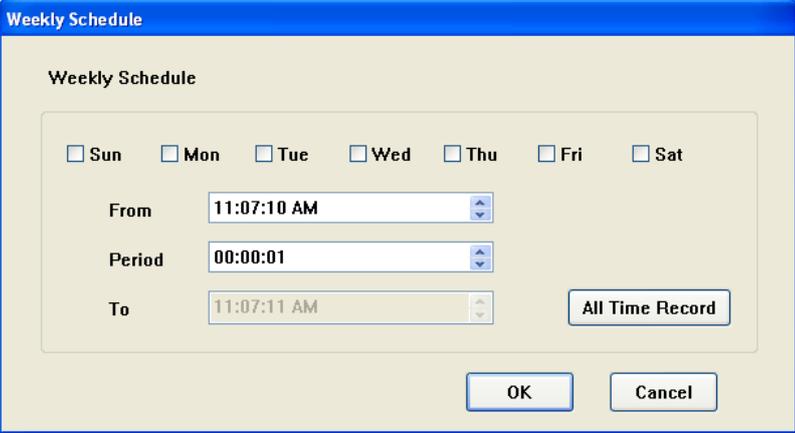
3-3-1-2 Schedule Recording

In this tab, you can setup scheduled video recording, so you can record the video captured by all cameras you have by a pre-defined schedule.



Here are the descriptions of all setting items:

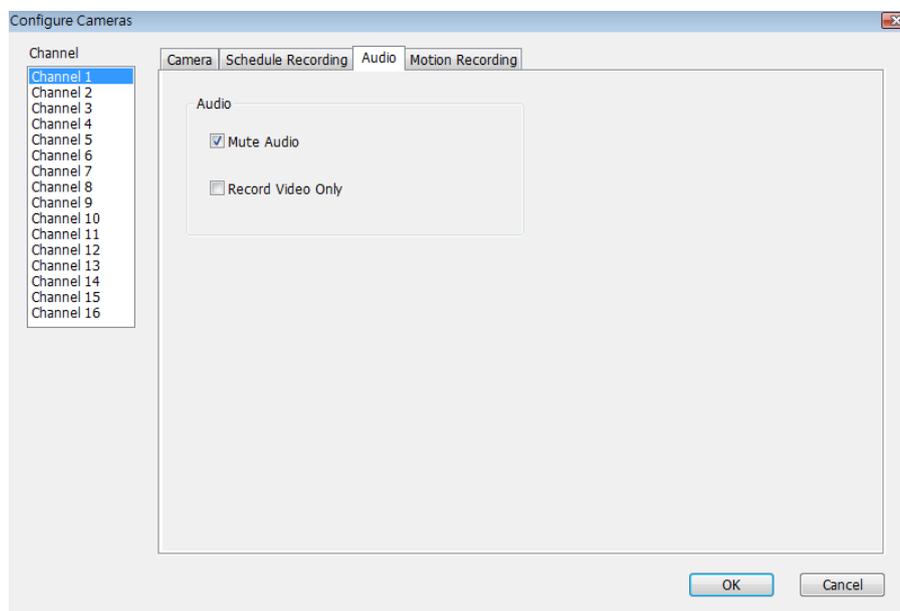
Item	Description
Channel	Select the channel number you wish to set.
One Time Schedules	You can specify the one-time schedule for selected camera; this schedule will be executed once only.
New (One Time Schedules)	Click this button and a new window will appear:

	 <p>Please specify the time duration of this one-time schedule (the date and time of 'From' and 'To'), then click 'OK' to save settings.</p> <p>Please note you must set a schedule that will be happened in the future, you can not set a schedule in the past.</p>
Edit	<p>You can modify a scheduled recording item. Select a schedule in 'One Time Schedules' list, and click 'Edit' button to edit the start and end time of this schedule.</p>
Delete	<p>Delete a selected schedule item.</p>
New (Weekly Schedules)	<p>Click this button and a new window will appear:</p>  <p>You can define recording schedule that will be executed at the specified time of certain weekday(s) in a week.</p>

	<p>Please check all weekdays that applies, and set the start time in 'From' field. You can set the duration of video recording in 'Period' field (format is HH:MM:SS), and the end time will be calculated automatically and displayed in 'To' field. You can also click 'All Time Record' button to define a recording schedule that will be executed every weekday, from 12:00:00AM to 11:59:59PM.</p> <p>Click 'OK' to save changes.</p>
Edit	You can modify a scheduled recording item. Select a schedule in 'One Time Schedules' list, and click 'Edit' button to edit the start and end time of this schedule.
Delete	Delete a selected schedule item.
OK	Save settings in this tab.
Cancel	Discard all settings in this tab.

3-3-1-3 Audio

For cameras that support audio, you can use this tab to decide if you wish to hear the audio captured by selected camera.



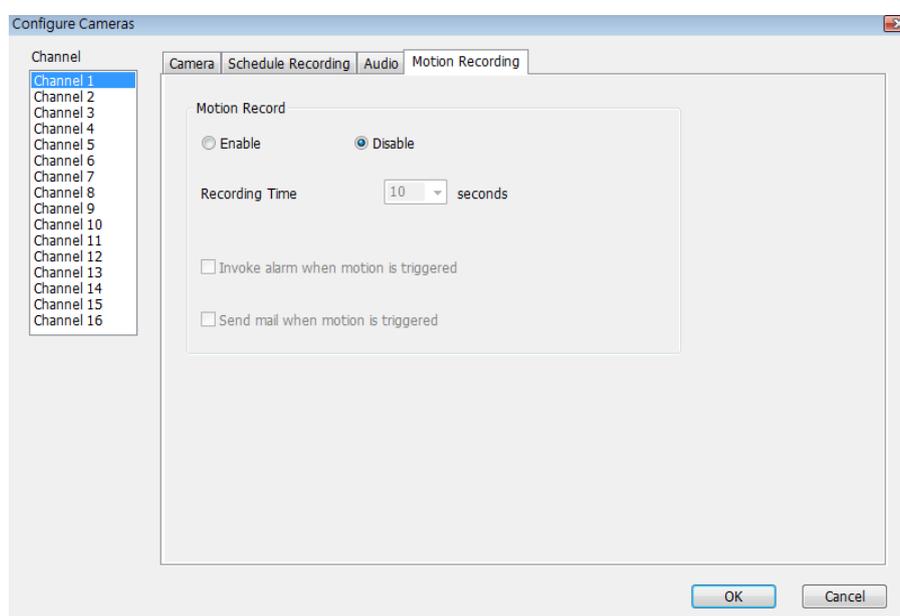
Here are the descriptions of all setting items:

Item	Description
Channel	Select the channel number you wish to set.
Mute Audio	Check this box and the IP camera surveillance software will not play the audio captured by this camera.
Record Video Only	Check this box and the IP camera surveillance software will not record the audio captured by this camera.
OK	Save settings in this tab.
Cancel	Discard all settings in this tab.

3-3-1-4 Motion Record

With this function activated, only motions captured by the camera will be recorded, so you don't have to waste hard disk storage space on images you don't need to pay attention to.

WARNING: For applications that security is highly concerned, it's not recommended to use this function since some tiny changes you may need to know may not be able to trigger the camera and the camera will not start recording.



Here are the descriptions of all setting items:

Item	Description
Channel	Select the channel number you wish to set.
Enable	Enable motion record function.
Disable	Disable motion record function.
Recording Time	Select the time duration that camera will record when a motion has been detected from dropdown menu in seconds.
Invoke alarm when motion is triggered	Send an alarm when a motion has been detected by the camera.
Send mail when	Send an email to a pre-defined address when a motion

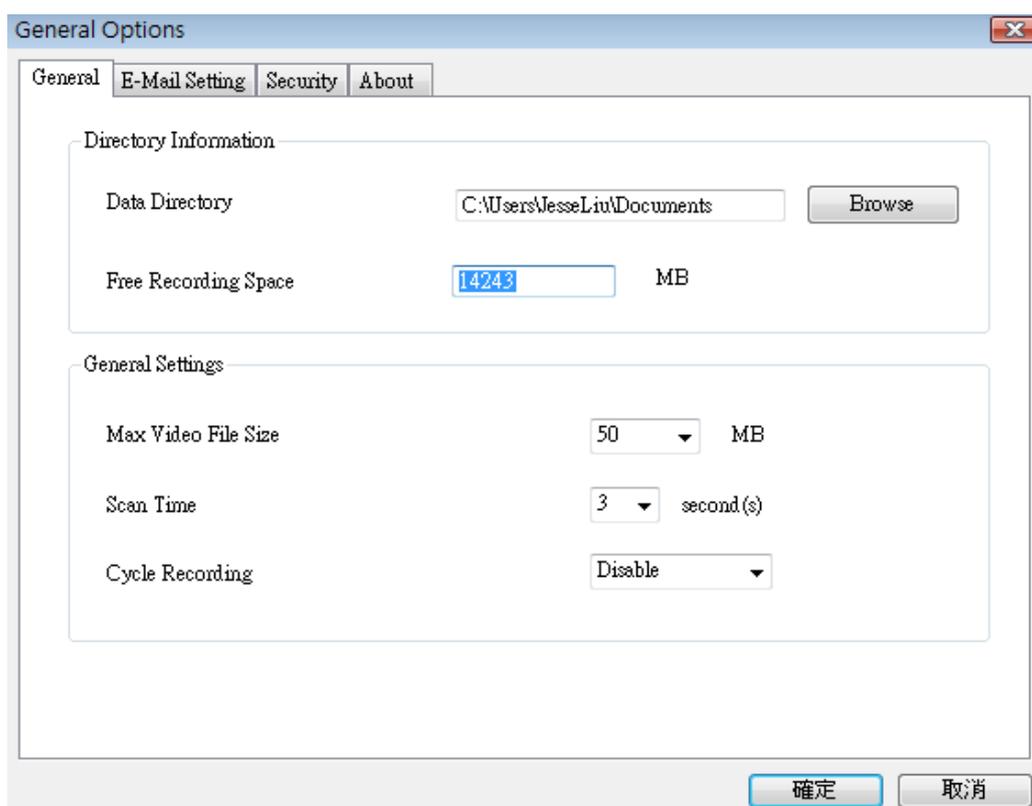
motion is triggered	has been detected by the camera.
OK	Save settings in this tab.
Cancel	Discard all settings in this tab.

3-3-2 General Settings

You can set system-wide settings of this IP camera surveillance software in this menu.

3-3-2-1 'General' tab

All general settings like file storage directory and recording spaces can be set here.



Here are the descriptions of all setting items:

Item	Description
Data Directory	Set the directory (folder) you wish to store the recorded video and captured image. You can click 'Browse' button to pick a directory in your hard disk.
Free Recording Space	Displays remaining storage space.
Max Video File Size	Defines the maximum file size of every video file. When the size of file exceeds this value, IP camera surveillance software will open another file to record the video.

Scan Time	Define the time period to pause between every camera switch when you activate 'Scan' function.
Cycle Recording	You can decide the behavior when hard disk space is full: Disable: Do not overwrite recorded video files. Enable: Overwrite recorded video files.
OK	Save settings in this tab.
Cancel	Discard all settings in this tab.

3-3-2-2 'E-Mail Setting' tab

If you want to use motion detection function and wish to get an email that contains the image captured by the camera, please setup your email related parameters here first.

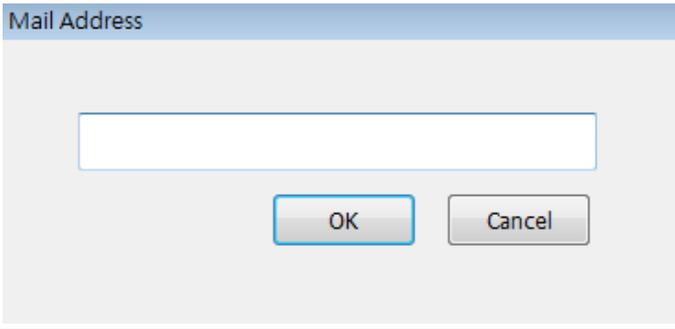
The screenshot shows a window titled "General Options" with a close button in the top right corner. Below the title bar are four tabs: "General", "E-Mail Setting", "Security", and "About". The "E-Mail Setting" tab is selected. The main area contains the following elements:

- E-Mail Subject: A text input field.
- Recipient E-Mail Address: A list box.
- New, Edit, Delete: Three buttons for managing the recipient list.
- Sender E-Mail Address: A text input field.
- SMTP Server: A text input field.
- SMTP Port: A text input field containing the value "25".
- SMTP Auth: Two radio buttons, "Enable" and "Disable", with "Disable" selected.
- SMTP Account: A text input field.
- SMTP Password: A text input field.

At the bottom right of the dialog are two buttons: "確定" (OK) and "取消" (Cancel).

Here are the descriptions of all setting items:

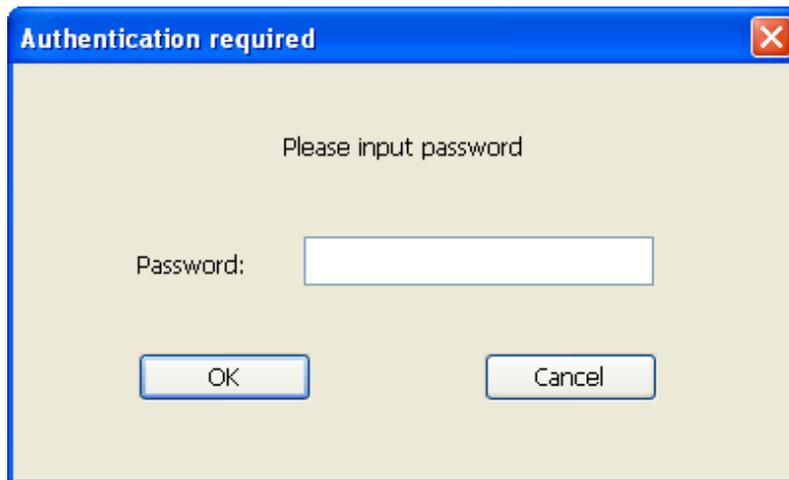
Item	Description
E-Mail Subject	Specify the subject of sending email.
Recipient E-Mail Address	Here lists all email addresses you set.
New	Click this button and you'll be prompted to input the email address. Click 'OK' to save changes.

	
Edit	Select an email address from 'Recipient E-Mail Address' box, and click 'Edit' to edit the email address.
Delete	Delete selected email address.
Sender E-Mail Address	Specify the email address of email sender.
SMTP Server	Specify the IP address or host name of the SMTP server you wish to use. For most of ISPs they will only allow its subscriber to use their SMTP server, if you don't know which SMTP server you should use, please refer to the setting of your email software or ask your ISP / network administrator.
SMTP port	Specify the port number of the SMTP server you wish to use here. By default (and the setting of most of SMTP servers) it's '25'.
SMTP Auth	Select 'Enable' if your SMTP server requires authentication, select 'Disable' if it's not required. If you don't know if your SMTP server requires authentication, please refer to the setting of your email software or ask your ISP / network administrator.
SMTP Account	Input the SMTP account (username) of your SMTP server here. In most cases, it's the same with your POP3 username (the one you used to receive email). Please refer to the setting of your email software or ask your ISP / network administrator if you're not sure about this.
SMTP Password	Input the SMTP password of your SMTP server here. In most cases, it's the same with your POP3 password (the one you used to receive email). Please refer to the setting of your email software or ask your ISP / network administrator if you're not sure about this.
OK	Save settings in this tab.
Cancel	Discard all settings in this tab.

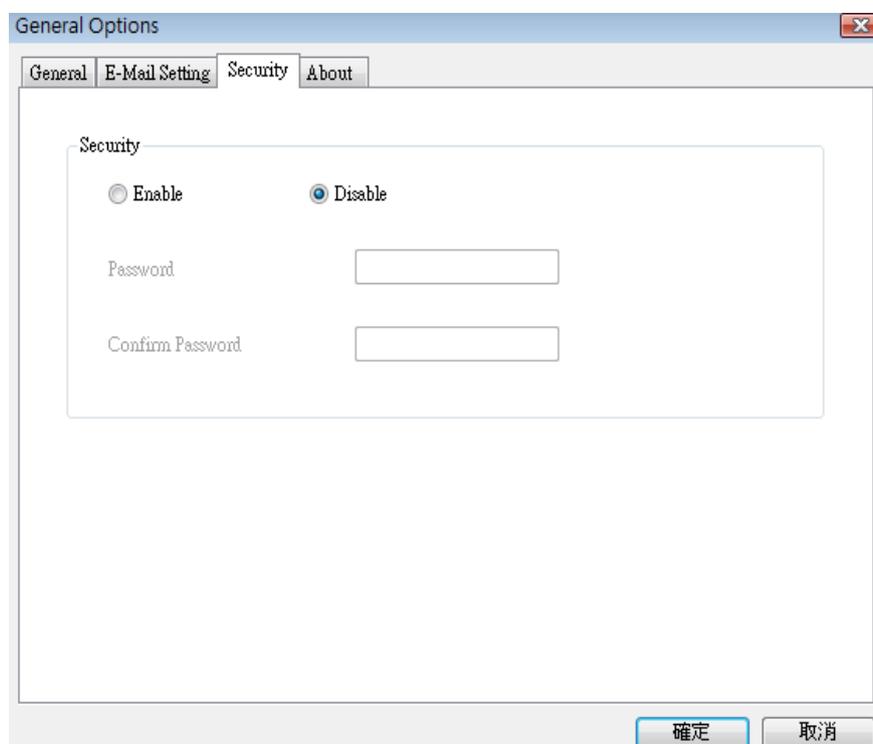
3-3-2-3 Security

If you don't want other people to access this IP camera surveillance software, you can set a password to protect it.

You'll need to input the password every time you wish to use this IP camera surveillance software:



To set password, please use 'Security' tab in 'General Options' menu:

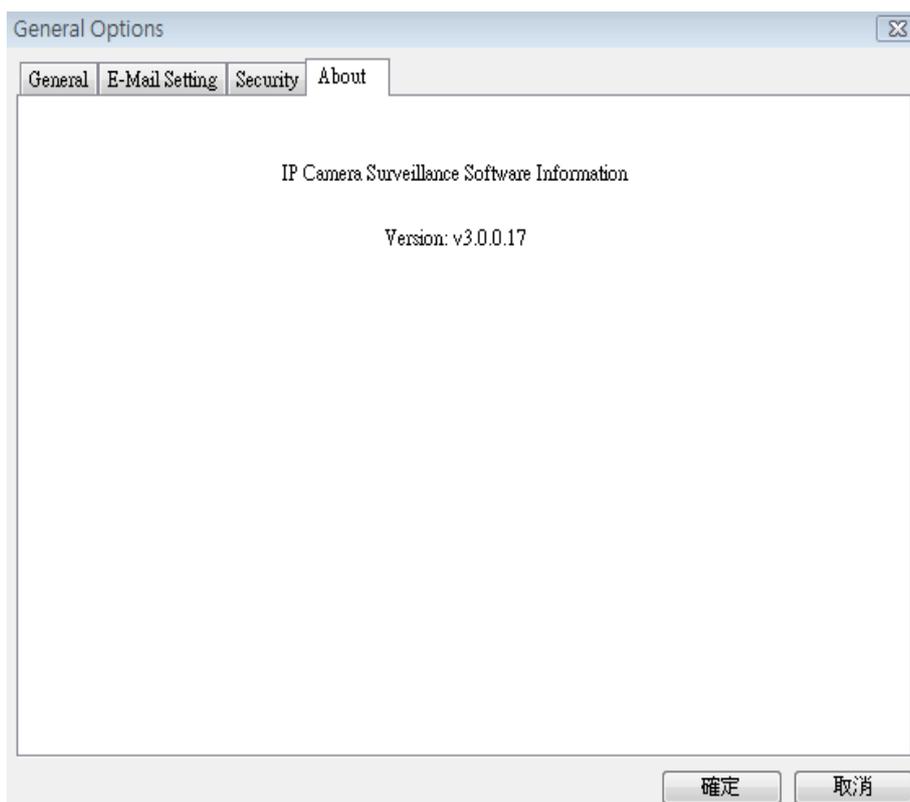


Here are the descriptions of all setting items:

Item	Description
Enable	Requires password authentication when this software starts.
Disable	Password authentication is not required when this software starts.
Password	Input the password you wish to use here.
Confirm Password	Input the password you wish to use here again.

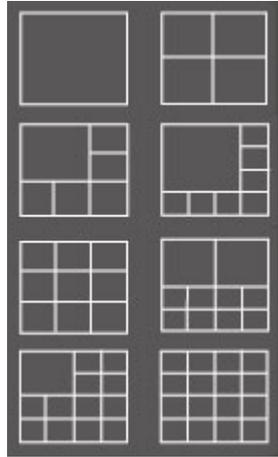
3-3-2-4 About

This tab shows the version number of the IP camera surveillance software you're using.

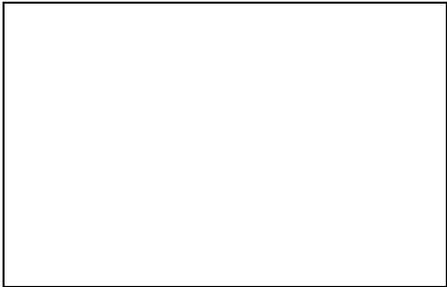
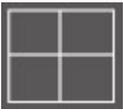
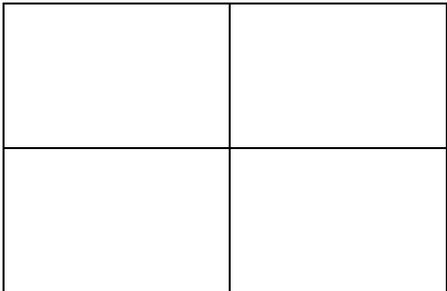


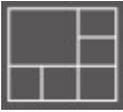
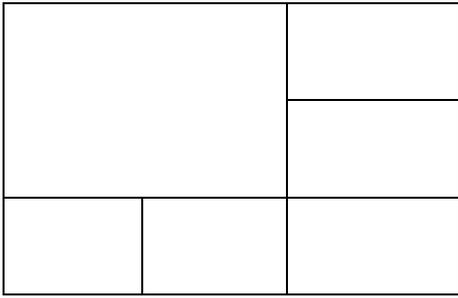
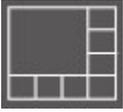
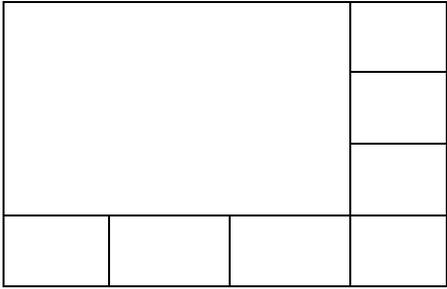
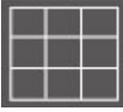
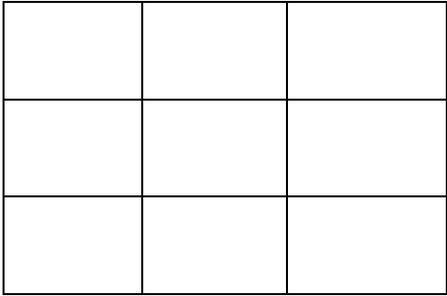
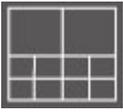
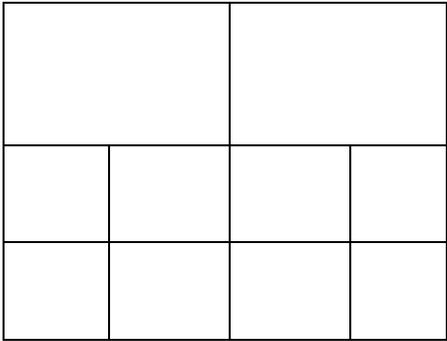
3-4 Change Display Layout

This IP camera surveillance software provides 8 kinds of display layout:

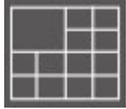


Every layout displays different number of camera and camera arrangement, you can click the icon that presents a specific kind of layout, and the video displaying area will change accordingly.

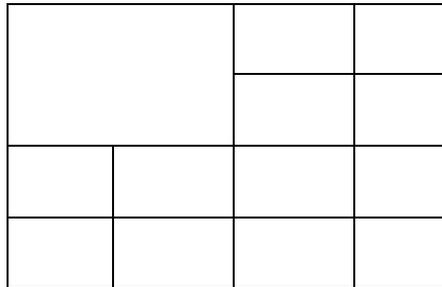
<p>Layout style 1: 1 Camera only</p> 	<p>Displays the video of 1 camera only.</p> 
<p>Layout style 2: 4 Cameras</p> 	<p>Displays the video of up to 4 cameras.</p> 

<p>Layout style 3: 6 Cameras</p> 	<p>Displays the video of up to 6 cameras.</p> 
<p>Layout style 4: 8 Cameras</p> 	<p>Displays the video of up to 8 cameras.</p> 
<p>Layout style 5: 9 Cameras</p> 	<p>Displays the video of up to 9 cameras.</p> 
<p>Layout style 6: 10 Cameras</p> 	<p>Displays the video of up to 10 cameras.</p> 

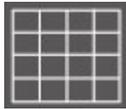
Layout style 7: 13
Cameras



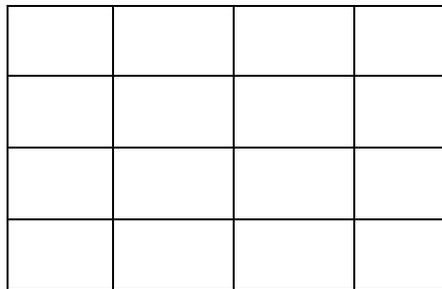
Displays the video of up to 13 cameras.



Layout style 8: 16
Cameras

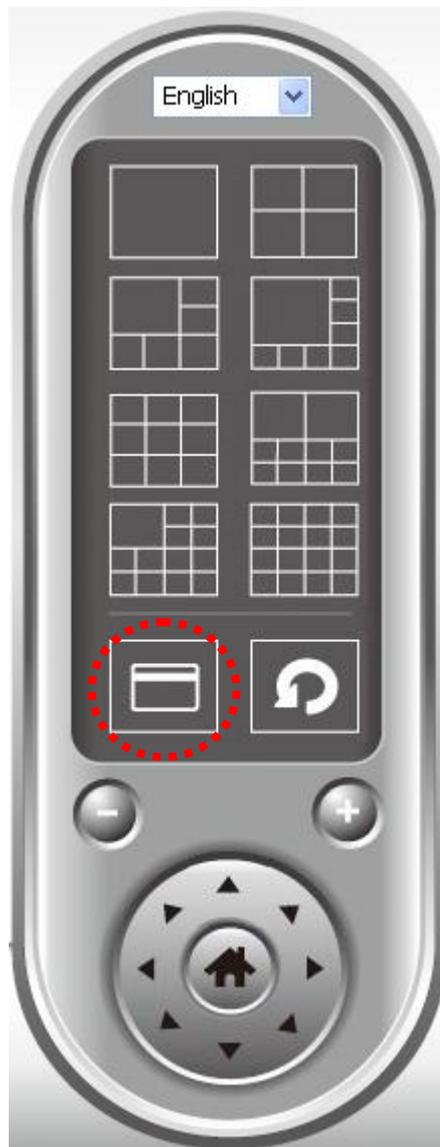


Displays the video of up to 16 cameras.



3-5 Full-screen mode

If you want to use all available spaces on your monitor to display surveillance image, you can click 'Full Screen' button to switch display mode to full-screen mode.



To exit full-screen mode, press 'ESC' key.

3-6 Scan

If you have more than one camera configured, and you wish to switch the displaying image between cameras, you can click 'Scan' button to switch between all configured cameras.

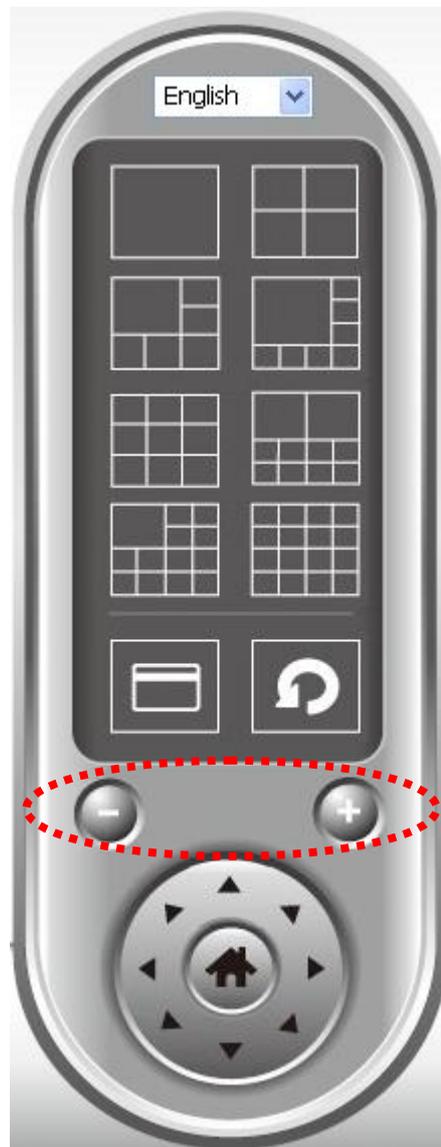
NOTE: If a camera is configured but disconnected, it will still be displayed in a scan sequence (you'll see nothing and you'll see 'Disconnected' text displayed at the upper-left corner of display image).



Click 'Scan' button once to activate scan function (scan icon will become blue ) , click again to stop scanning (scan icon will become white ).

3-7 Zoom-in / Zoom-out

For cameras that support zoom-in / zoom-out function, you can use this function to see more objects that fall in the scope of camera's view, or enlarge the image size of a certain object to see its detail.



Please select a camera in video displaying area by clicking on its image, then click  button to see more objects that fall in the scope of camera's view, or click  to enlarge the image size of a certain object to see its detail (Before zoom-in, you may need to use PTZ buttons - described in next section) to find an object you wish to see its detail).

3-8 PTZ

For cameras that support pan - tilt function (but this model doesn't support PTZ function), you can change the position that camera points to, to see different places that fall in the scope of camera's view.



Please select a camera in video displaying area by clicking on its image, and then click the directions you wish the camera to move to (total 8 directions available). Click 'Home' button (🏠) to return to camera's home (default) position.

3-9 Snapshot

You can take a snapshot of selected camera and save it to 'Snapshot' sub-folder of pre-defined data directory.



Click snapshot button once to take a snapshot; you can take as much snapshot as you want before hard disk is full.

3-10 Recording

You can start video recording of selected camera manually by clicking 'Start Recording' button:

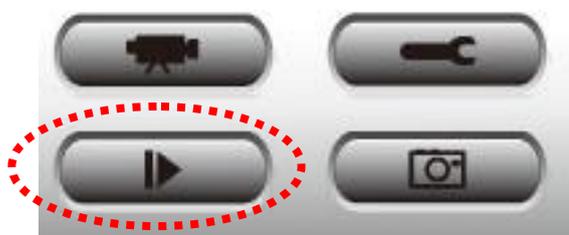


When recording starts, you'll see a message displayed in message displaying box like '1/1 10:00:00, Camera 2 Start Manual', which means camera 1 starts recording manually on 1/1 at 10:00:00.

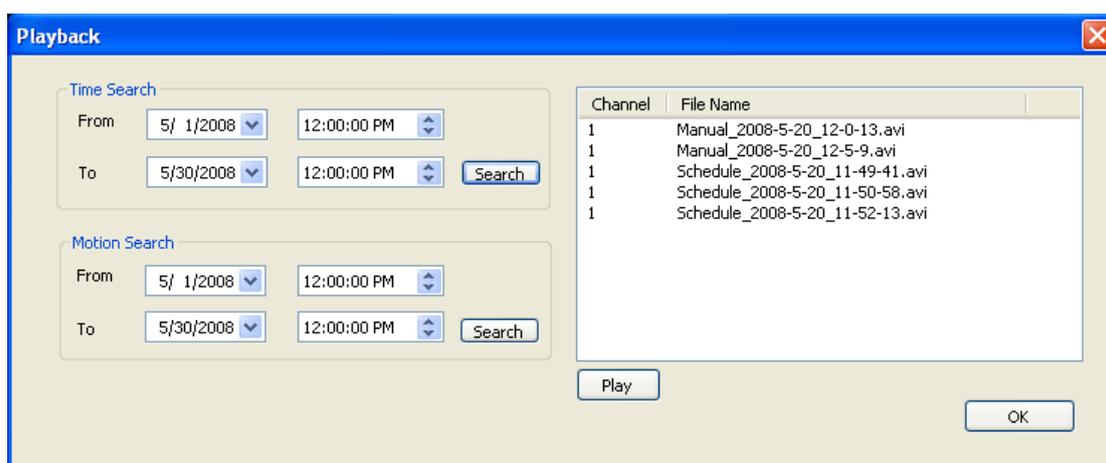
To stop recording, click 'Start Recording' button again, and you'll see a message displayed in message displaying box like '1/1 10:00:00, Camera 2 Stop Manual'.

3-11 Video Playback

You can playback all recorded video by clicking this button.



A new window will appear:



You have to search the video file before you can play it. There are two kinds of video search: Time Search (search all videos file that falls in a specific period of time) and Motion Search (search all videos recorded by motion detection function and falls in a specific period of time).

Please define the start and end date / time of the time period you wish to search, and then click 'Search' button (of 'Time Search' of 'Motion' Search'). All found videos will be displayed, select the video you wish to play and click 'Play' button to playback.

Chapter V: How to View IP Camera over the Internet with iPhone

IC-3030 series features iPhone support for iPhone users to monitor their home using Edimax IP-Cameras.

Please check following instruction for installation. The following instruction applies to all Edimax routers

Step1:

Ensure My-PC is Internet-ready via Router

Step 2:

Check with your ISP (Internet Service Provider) whether a Public and fixed IP address is assigned to you. An IP address is like an unique phone number that is totally different from all the others' for calling a particular person. You could browse the Internet or monitor your home over the Internet with iPhone by using this unique IP address. Therefore, an unique IP address is a Public and fixed IP address. With this, it's much easy for iPhone monitoring your home. For example, an IP address looks like numbers separated with a dot as: 192.168.2.3

(1) Fixed and public IP address:

All IP addresses different from the following are fixed and public IP address

10.0.0.0 - 10.255.255.255
172.16.0.0 - 172.31.255.255
192.168.0.0 - 192.168.255.255

Write down this IP address and go to Step 3. In this guide, we use a hypothetical IP address, 61.61.61.1 (yours is different)

(2) Dynamic IP address

If your ISP service staff cannot tell you what IP address is for you, you can still monitor your home with iPhone, but it turns more complicated.

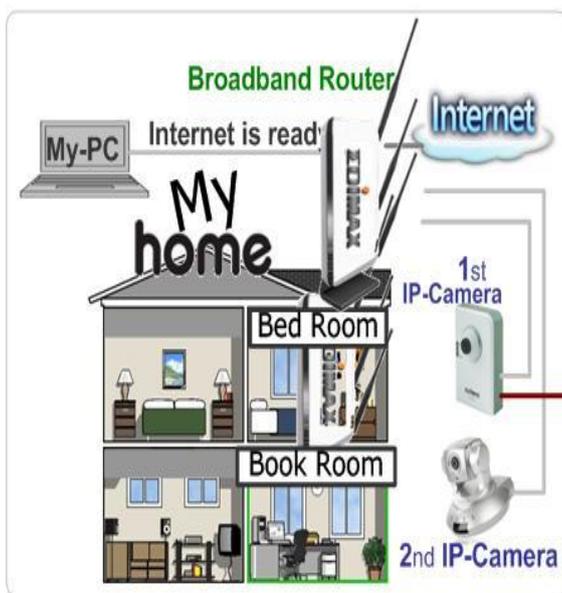
Your IP address for browsing Internet will change by hours or by days.

Over 90% chance, you may get a dynamic IP address. There is a solution called Dynamic DNS (DDNS) for free. With this, you could register a name like <http://my-name.dyndns.org> for example to find out Edimax IP camera in the I-Phone. To apply for this, refer to the Appendix "How to apply for a free

DNS account in the <http://www.dyndns.org> ” In this guide, we assume you have already got <http://my-name.dyndns.org>. (yours may vary) and go to Step 3.

Step 3:

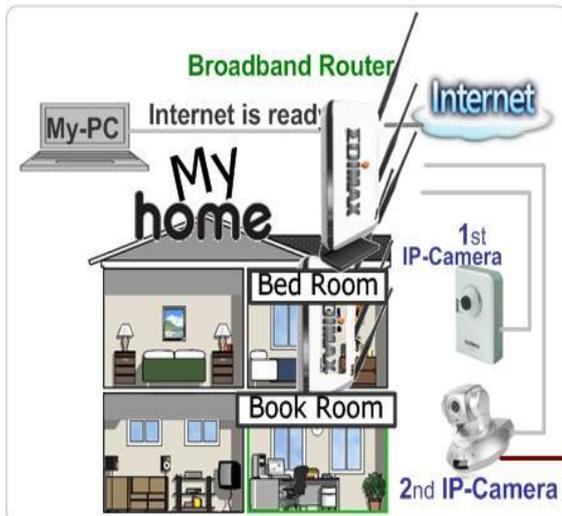
Configure the 1st Camera based on the following:



Configuration for the 1st camera

- LAN Audio/Video E-mail & FTP
- 1
- Network Type DHCP Static IP Address
- IP Address 2 Change the IP to 192.168.2.10
- Subnet Mask
- Gateway This is the IP of Edimax router
- Primary DNS
- Second DNS
- AV Control Port 3
- Web port "Web port" 80 is preserved for the 1st camera

Configure the 2nd Camera based on the following:



Configuration for the 2nd camera

- LAN Audio/Video E-mail & FTP
- 1
- Network Type DHCP Static IP Address
- IP Address 2 Change the IP to 192.168.2.20
- Subnet Mask
- Gateway This is the IP of Edimax router
- Primary DNS
- Second DNS
- AV Control Port 3
- Web port "Web port" 82 is preserved for the 2nd camera

Configure the Broadband Router based on the following:

Quick Setup | General Setup | EZ View | Status | Tools

Home / General Setup / Advanced Settings / NAT / Virtual Server

1 Go to "Virtual server" setup page

Enable Virtual Server

Private IP	Computer name	Private Port	Type	Public Port	Comment
192.168.2.10	<< -----Select----- >>	80	Both	80	1st-camera

2 Enter required information for the 1st camera and click "Add"

Enable Virtual Server

Private IP	Computer name	Private Port	Type	Public Port	Comment
192.168.2.20	<< -----Select----- >>	82	Both	82	2nd-camera

3 Enter required information for the 2nd camera and click "Add"

Current Virtual Server Table:

NO.	Computer name	Private IP	Private Port	Type	Public Port	Comment	Select
1		192.168.2.10	80	TCP+UDP	80	1st-camera	
2		192.168.2.20	82	TCP+UDP	82	2nd-camera	

4 Click "Apply"

Apply Cancel

Step 4:

Configuration for iPhone.

(1) Make sure Internet connection is ok with iPhone and click “Safari”



(2) Enter the IP address of your router’s “fixed and public IP address” (check the Step 2 for details)

Note: “/ipcam.asp” is needed



If no fixed and public IP address is given by your ISP, you may enter a link like <http://my-name.dyndns.org/ipcam.asp> (Again, this link is hypothetic)

You could have your own name like <http://john.dyndns.org>, mary.dyndns.org etc. To apply for a free account, refer to the Appendix “How to apply for a free DNS account in the <http://www.dyndns.org> “



(3) Enter user name & password for the Edimax IP camera. By default, user name is admin and password is 1234



(4) Let's add the 1st IP camera. Click first window and Setting.



(5) Click “Add” when finishing the following configuration:



(6) Click “Add” when finishing the following configuration for the 2nd IP camera



(7) Configuration is complete. You could see the live video of the 2nd IP camera.

Chapter V: Appendix

5.1 Specification

Max Resolution: 1280 x 1024 pixels

Sensor: 1.3Mega pixels 1/4" color CMOS sensor

Gain control: Automatic

Exposure: Automatic

White Balance: Automatic

Image (Video Setting)

Image compression: MJPEG/MPEG4/H.264 Image Video

Digital 24-bit Color

Frame rate: 10-15fps@SXGA, XGA, 30fps@QVGA, 20fps@VGA

Video resolution: MJPG&H.264: 1280x1024, 640x480, 320x240

MPEG4: 1024x768, 640x480, 320x240

System Hardware

LAN Connector: One RJ-45 port to connect to 10/100Mbps Ethernet

Wireless: IEEE 802.11b/g/n (*IC-3030Wn only)

LED Indicator: LAN/Wireless/Power for IC-3030 and IC-3030Wn

LAN/Power for IC-3030PoE

HTTP/Utility

Supports H.264, MPEG4 and M-JPEG Triple mode video streaming

Features multi-area motion detection and snapshot to E-mail and FTP

Features Manual Focus Lens

Supports up to 30 fps Video Frame Rate @ VGA

Supports 2-way audio

High speed hardware based compression

Supports pre-recording + post-recording for the triggered event

Includes easy-to-view 16-channel viewer to views up to 16 cameras simultaneously*

Built-in SDHC/SD card slot to store snapshots and recorded video locally to a

SDHC/SD memory card

Manual/Schedule/Cycle recording and Playback/Forward/Pause/Stop video with the software utility

Supports up to 16 user login accounts for web access

Supports Windows 2000/XP/Vista/7
Firmware upgradable

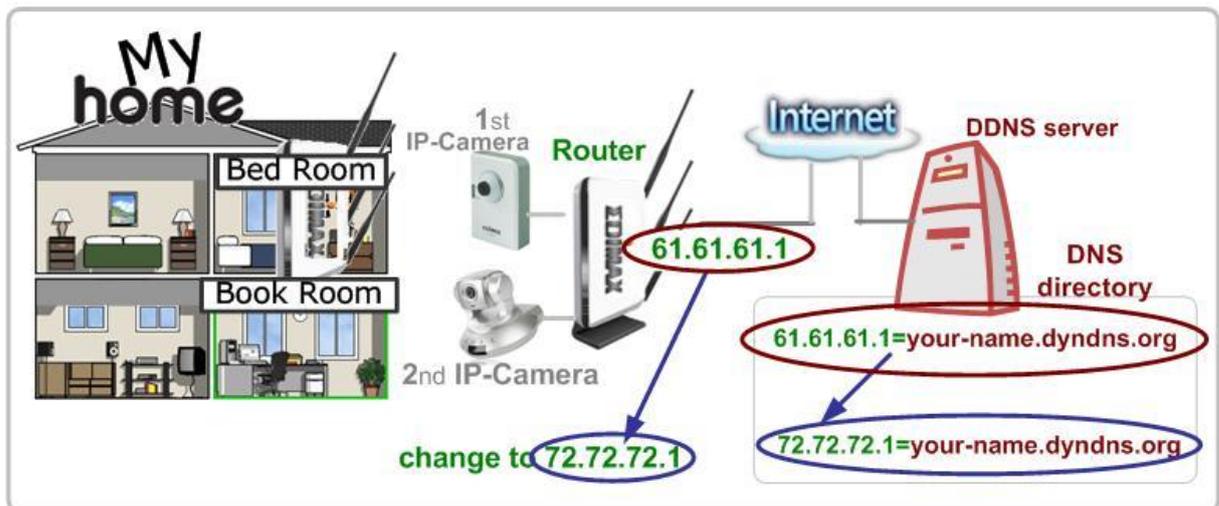
EMI & Safety

FCC, CE class B

5.2 How to apply for a free DNS account in the <http://www.dyndns.org>

It's very likely your IP address (the Internet location) keeps changing every a couple of hours or every day depending on your ISP's policy. Therefore, as shown in the following figure, you may be assigned with an IP address, "61.61.61.1" hours ago, and now with a new IP address, "72.72.72.1". This means the router at "My-home" can be found at <http://61.61.61.1> over the Internet is no longer available after a few hours. To find out the new location (IP address) of the router at My home over the Internet, you need to login to the router, checking the new IP address. However, this is not a workable solution.

To overcome this problem, an Internet service called DDNS is designed to help you trace the log of the changing IP address linking with a web site address (URL). As shown in the following figure, one PC called DDNS server keeps revising the record "your-name.dyndns.org vs 61.61.61.1" in its internal DNS directory. It ends up entering <http://your-name.dyndns.org> in the iPhone can find out the 2 IP camera at My-home.



The following are steps to apply for an account named "your-name.dyndns.org" in the <http://www.dyndn.org> and how this account is configured into Edimax router.

Note: <http://www.dyndn.org> is not a branch or affiliate of Edimax. No commercial relation is involved between these 2 companies. The related service offered in the <http://www.dyndns.org> is for free for a specific time. However, Edimax does not guarantee this service.

First, go to <http://www.dyndns.org> and apply for an account.
And follow the steps:

1 Go to www.dyndns.org

Address  <http://www.dyndns.org> Go

2 Click "Dynamic DNS"

3 Click "Manage Hosts"



4 Click "Add New Host"

Host Services [↑ M](#)

Hostname	Service	Details	Last Updated
----------	---------	---------	--------------

[Add New Host](#)

5 Decide your preferred name . Click "Add to cart"

Hostname: . ▼

Wildcard Status: Disabled [[Want Wildcard support?](#)]

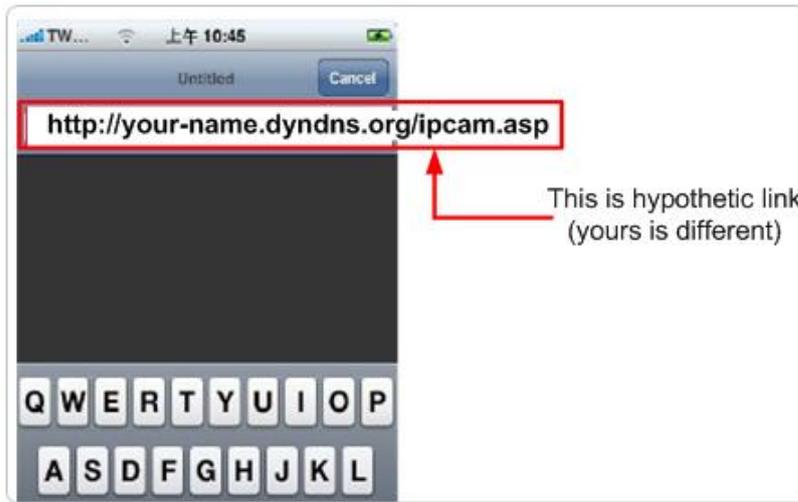
Service Type: Host with IP address [?]
 WebHop Redirect [?]
 Offline Hostname [?]

[Add To Cart](#)

6 Finished. The new DDNS record is traced

Hostname	Service	Details	Last Updated
your-name.dyndns.org	Host	61.61.61.1	Apr. 06, 2010 10:35 PM

Now, you could locate your home IP camera using
<http://your-name.dyndns.org>



5.3 Troubleshooting

If the IP camera is not working properly, before you contact the dealer of purchase for help, please check the troubleshooting list here, this may help you to solve the problem by yourself and therefore saves your valuable time.

Scenario	Possible Solution
I cannot connect to IP camera	<p>a. Please confirm the IP address setting of the computer you're using. If they're not in the same subnet, they will not be able to communicate with each other.</p> <p>b. Please make the IP address you used to connect to the IP camera is correct.</p> <p>c. If you forget the IP address of the IP camera, you will have to reset it to factory default value (which is 192.168.2.3) by pressing 'reset' button at the bottom of the IP camera. You'll need a pen or pin to be able to press the reset button. Press and hold reset button for 5 seconds, then try to connect to the IP camera with IP address '192.168.2.3' again.</p> <p>d. Please make sure IP camera is correctly powered (the 'Power' LED should be on).</p> <p>e. If you're trying to connect to the IP camera from Internet, please make sure the port that IP camera uses (Video and HTTP port, see section 2.3.1) is not blocked by firewall or other software / hardware.</p> <p>f. Contact dealer of purchase for help, if above solutions do not work.</p>
Image refreshes very slow	<p>a. Try a higher frame rate setting, if it's not 30.</p> <p>b. Try a lower resolution.</p>

	<p>c. If you're connecting this camera from Internet, it could be caused by a slow Internet connection, and it's not a problem caused by camera. However, when the network connection is slow, you should use lower frame rate / resolution.</p> <p>d. Adjust the antenna if you're using wireless connection. The antenna should be perpendicular to the ground to get best reception, and the distance between IP camera and computer / wireless access point should not be too far.</p> <p>e. Try to adjust 'MTU' setting if you're using PPPoE to connect to Internet. Ask your ISP or network administrator for detailed instruction.</p>
IP camera is not responding	<p>a. Is the network cable or wireless connection disconnected? Please check it.</p> <p>b. Unplug the power adapter from wall socket and plug it in again after 10 seconds, then try to connect to the IP camera again.</p> <p>c. If IP camera is correctly powered ('Power' LED is on), but you still cannot connect to the camera when you're sure that IP address is correct, please contact dealer of purchase for help).</p>
Image is fuzzy	<p>a. Adjust the focus ring on the camera until the image becomes clear.</p> <p>b. Use a soft cloth to clean the lens on the camera. You can use cloth with water, but <i>DO NOT</i> use alcohol or other chemical solution.</p> <p>c. Try to adjust brightness setting.</p> <p>d. If there's any light at the place where IP camera is located, switch it on and see if image looks better.</p>

<p>I set the IP camera to send image by Email or FTP, but nothing is received</p>	<p>a. If the image is sent by Email, please make sure it's not blocked by any anti-spam mechanism.</p> <p>b. Please make sure you have enough permission for FTP uploading (You can try this by clicking 'Upload a test file' button).</p> <p>c. Make sure the user name and / or password of SMTP server is correct, if your SMTP server requires authentication (You can try this by click 'Send a test Email' button).</p> <p>d. Please check log, if FTP upload or Email sending is failed, it will be logged, and this may give you some clue on how to solve the problem.</p> <p>e. Change the threshold to a more sensitive setting.</p>
<p>I heard strange sound when I use pan / tilt function</p>	<p>a. Please check if anything jams the camera, remove it.</p> <p>a. If the camera does not respond to you when you're trying to use pan / tilt function, the servo motor inside the camera may dead. Please return the camera to the dealer of purchase and ask for help.</p>
<p>Nothing is heard at the camera side when I use 'Speak to IPCam' function</p>	<p>An external speaker is required to playback the voice received at computer side.</p>

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE) The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Bulgaria, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Romania, Slovakia, Slovenia, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries not intended for use

None





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