

# GRAND PAN/ TILT IP CAMERA GRAND PAN/ TILT Wi-Fi CAMERA

Pan & Tilt/ Video & Audio Transmission/ Digital Zoom In/ Bundle DivX (model 2)

## User's Manual

ISSUE : 2007/12/13



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Federal Communications Radio Frequency Interference Statement.

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

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

Notice :

- (1) The changes or modifications not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.
- (2) Shielded interface cables and AC power adapter, if any must be used in order to comply with the emission limits.

### CE DECLARATION

This device complies with CE class B.

\*EN55024

EN55022

EN61000-3-2

EN61000-3-3

EN61000-4-5

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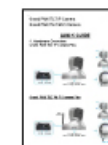
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## 1. Package Contents

This package contains the following items :



Grand PAN/ TITL IP Camera or  
Grand PAN/ TITL Wi-Fi Camera



Quick  
Guide



RJ-45  
Cable



Power Adapter  
(DC 12V, 2A)



Mounting Bracket  
& Screws



CD  
Driver

- Grand PAN/ TILT IP Camera or Grand PAN/ TILT Wi-Fi Camera
- Quick Guide
- RJ-45 Cable
- Power Adapter (DC 12V, 2A)
- Mounting bracket & Screws
- CD-ROM with user manual/ software (IP Detect)/ Surveillance software (model 2)

## 2. Introduction

The Grand Pan/ Tilt IP or Wi-Fi Camera is a full-featured network camera. It features pan, tile, digital zoom and built-in microphone, giving you greater remote viewing options.

You can use internet explorer to remotely view and listen in your property or your children when away from home. By using your internet explorer, you can even control the Grand Pan / Tilt IP or Wi-Fi Camera to pan (350°) and tilt (135°) and modify its digital zoom (15level) to bring the object into close view.

Choose the Grand Pan / Tilt IP or Wi-Fi Camera to enhance safety and security at your home or office.

### 3. System Requirements

- Router (with DDNS or PPPoE function) is required
- 10Base-T Ethernet or 100Base TX Fast Ethernet
- Pentium 800 MHz or Equivalent or above.
- 64M RAM or above
- VGA card with 8MB memory or above
- Microsoft DirectX 9

### 4. Product Features

- 1/4" Low Lux CMOS VGA Sensor (Omni Vision)
  - Built-in microphone for remotely listen in.
  - Supports PAN/ Tilt Function
    - **Pan Degree:** 350° (+175° to -175°)
    - **Tilt Degree:** 135° (+90° to -45°)
  - Supports 15 level digital zoom in function.
  - Supports IE recording function (AVI format).
  - High Resolution Image Processor. (640 x 480 、320 x 240 、176 x 144 )
  - Supports up to 30 frames per second in QCIF or QVGA mode.
  - Supports IP Address Hidden Function.
  - Supports Motion Detected Mail Function.
  - Supports Multi-Language: English/ Spanish/ Portuguese/ Dutch/ German/ Italian/ Russian/ French/ Japanese/ Traditional Chinese.
  - Supports Multiple Network Protocol: NTP/ SMTP/ FTP/ DHCP/ PPPOE/ DDNS/ UPnP.
  - Compatible with Windows 2000/ ME/ XP/ Vista & Linux OS.
- PS. 1. The **IE Recording** function is not available in Windows Vista.  
2. The **Remote Listen In, IE Recording, Digital Zoom In (Out)** and UPnP functions are not available in Linux OS.

#### Bundled Surveillance Software with the following functions (only for model 2)

- Supports 4/ 9/ 16 cameras preview and record in DivX format (v6.5.1).
- Video File Management: Video file database and playback control.
- Storage Recyclable: When running out of disk space, files with the earliest date will be overwrite automatically.
- Motion Detection: Detect any movement in the mask area and trigger the alarm as soon as motion is detected.
- Multi-Languages OSD: English/ French/ German/ Italian/ Dutch/ Spanish/ Russian/ Japanese/ Traditional Chinese.
- Compatible with **Windows 2000, XP and Vista.**

### 5. Hardware Overview

#### 5.1 Grand Pan/ Tilt IP Camera



#### 5.2 Grand Pan/ Tilt Wi-Fi Camera



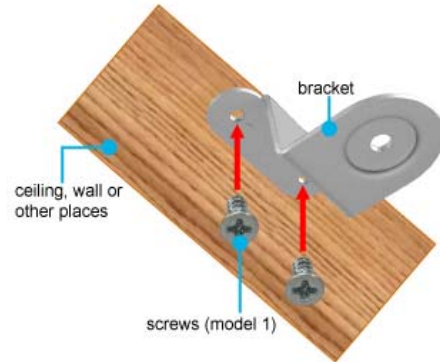
- **Swing Button:** Press the button for 3 seconds, and the camera will pan & tilt scan once automatically.
- **Default Button:** Reset all settings to the original (factory) setting.  
(Default IP Address: 192.168.1.100, Default User Name: root, Default Password: admin)
- **Reset Button:** Press the button to restart the camera.
- **Built-in Microphone:** For listening remotely.
- **System LED:** Steady green indicates a proper connection to the power supply.
- **DC Input:** Connects to the power adapter. (DC 12 V, 2A)
- **RJ-45 Ethernet Connector:** For connects to 10Base-T Ethernet cabling or 100Base-TX Fast Ethernet cabling.
- **Wireless/ RJ-45 Switch:** Select the network connection Wireless/ RJ-45 (Wi-Fi Camera only).

## 6. Hardware Installation

### 6.1 Assembling the Stand



- Use the two screws (model 1) to fix the bracket to a ceiling.



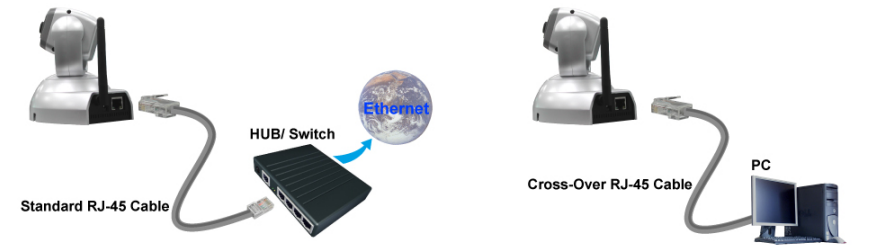
- After fixing the bracket, use the screw (model 2) to fix the Grand Pan/ Tilt IP or Wi-Fi Camera to the bracket.



**NOTE: If your camera is inverted on the wall, and the video of camera will be reversed. Refer to page 10 for vertically and horizontally rotate the video.**

### 6.2 Connecting to a Network

- Connect the Grand Pan/ Tilt IP or Wi-Fi Camera to an Ethernet hub or switch by using a standard cable. Also, you can connect computer by cross-over provided directly.



**Works Over Ethernet**  
(can be connected from anywhere via ethernet)

**Can only be connected by the PC**

### 6.3 Internet Browser Settings

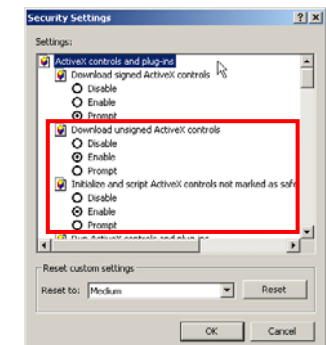
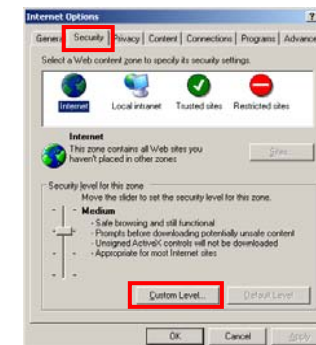
**NOTE: Your browser must be enabled the ActiveX for connect to the Grand Pan/ Tilt IP or Wi-Fi Camera first time.**

**Step 1:** Start the internet browser.

**Step 2:** Click the “Tools” at the top of the screen, and select “Internet Options...”.

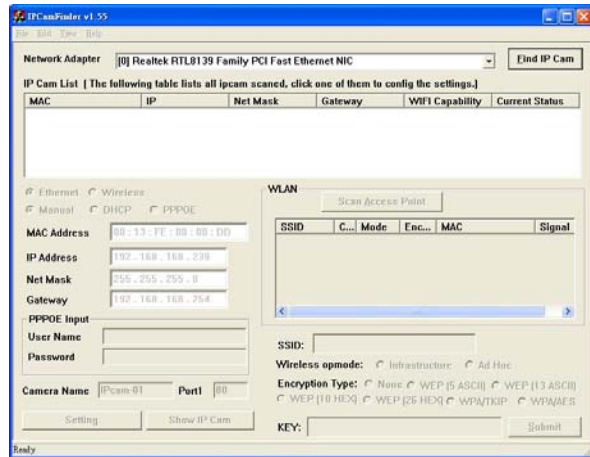


**Step 3:** Select the “Security” tab, and click the “Custom Level”. Set to “Enable” or “Prompt” on the “Download unsigned ActiveX controls” and “Initialize and script ActiveX controls not marked as safe” items.

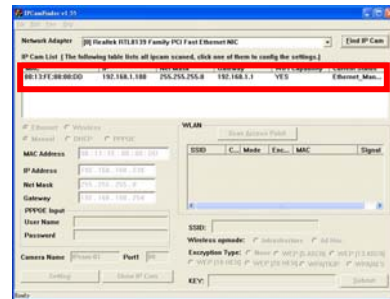
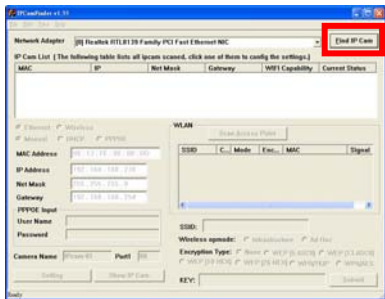


## 7. Network Installation

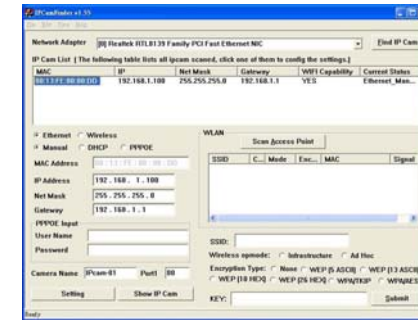
**Step 1:** Execute “Setup.exe” to install the “IPCamFinder” software in the CD driver. Execute the “IPCam Setup” on the desktop, and the following screen is displayed:



**Step 2:** Click the “Find IP Cam” button, and your camera’s MAC, default IP Address, Net Mask and Gateway will be listed.

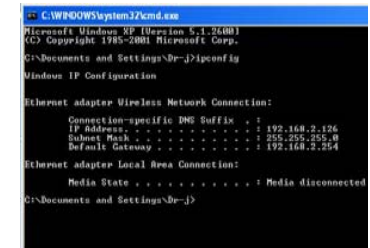
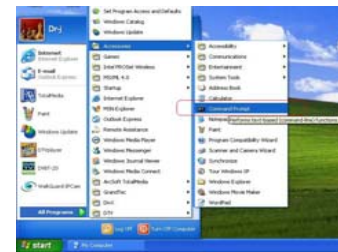


**Step 3:** Click on the “MAC”, and the “IP Address”, “Net Mask” and “Gateway” will be displayed as below.



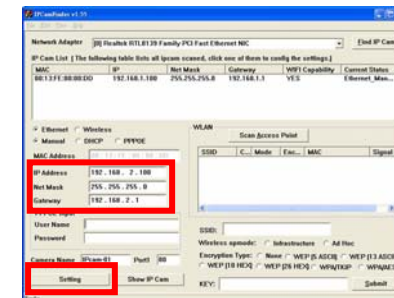
**NOTE:** The IP Address, Net Mask and Gateway must be corresponding with your network settings for you to access the camera. As below steps that you could follow to get your network information.

- Click “Start” → “All Programs” → “Accessories” → “Command Prompt”. A MS-DOS window will appear. Type “ipconfig” and then press “Enter” to get your network information.



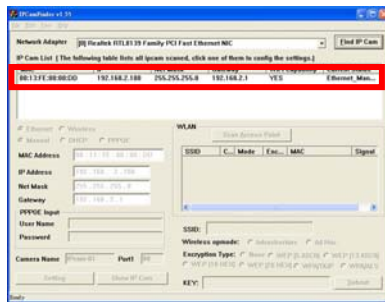
- Assign IP Address, Netmask (Subnet Mask) and Gateway (Default Gateway) for the Grand Pan/ Tilt IP or Wi-Fi Camera. (You must use the same Net Mask (ex. 255.255.255.0) and Gateway (192.168.2.254). You can use any IP address between 192.168.2.1-254, but make sure that the IP Address has never been used or is used by another IP addressable device.)

**Step 4:** Directly modify the “IP Address”, “Net Mask” and “Gateway”, and click “Setting” to save.

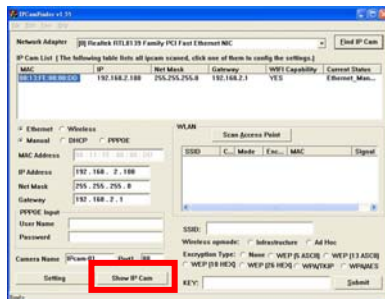




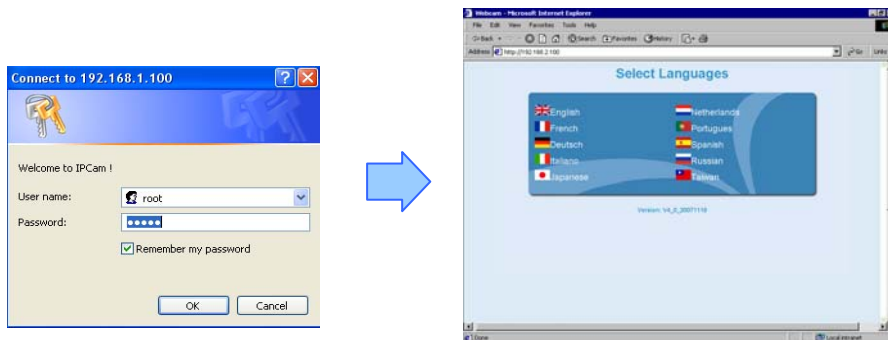
**Step 5:** Click the “Find IP Cam” button again, and the new network information will be listed.



**Step 6:** Select the “MAC” and click the “Show IP Cam” button to connect the Grand Pan/ Tilt IP or Wi-Fi Camera.

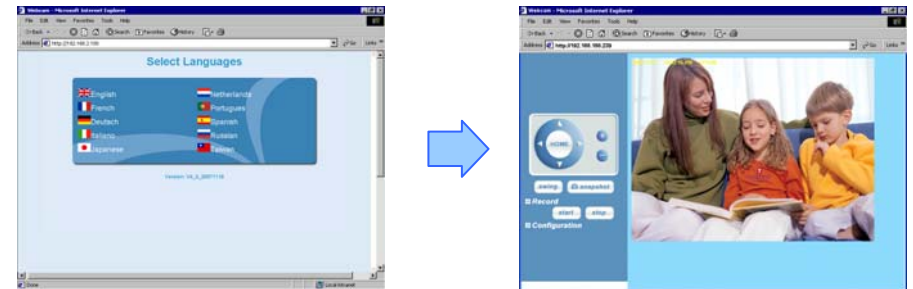


**Step 7:** When the login screen appears, enter the user name and password (default user name: root, default password: admin), and click the “OK” button to login your camera.



## 8. Using the Configuration Menu

**Step 1:** After login the camera, the “Select Languages” window will appear. Select your language and open up the main page.



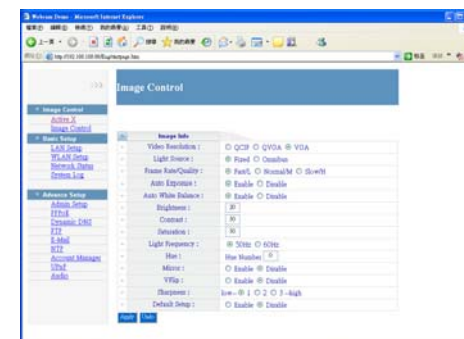
**Step 2:** Click on the **Configuration** item to open the **Configuration Menu**.



### 8.1 Image Control

**8.1.2 ActiveX:** Click the “ActiveX” to display image (live video) from any menu.

**8.1.3 Image Control**



- **Video Resolution:** Select the video resolution among QCIF (176x144)/ QVGA (320x240)/ VGA (640x480).
- **Light Source:** Set the light source to Fixed (for light environment) or Omnibus (for dim environment).

- **Frame Rate/ Quality:** Frame Rate/ Quality selection (If the frame rate more than network bandwidth, the video will be lag or damage).
- **Auto Exposure:** Enable/ disable the auto exposure function.
- **Auto White Balance:** Enable/ disable the auto white balance function.
- **Brightness:** Adjust the brightness of the image.
- **Contrast:** Adjust the contrast of the image.
- **Saturation:** Adjust the saturation of the image.
- **Light Frequency:** Select your frequency (50Hz/ 60Hz).
- **Hue:** Adjust the hue of the image.
- **Mirror:** Horizontally rotate the video.
- **VFlip:** Vertically rotate the video.
- **Sharpness:** Sharpness selection.
- **Default Setup:** Select “Enable” and click “Apply” to restore factory default settings.

**NOTE: Click “Apply” to confirm your settings.**

## 8.2 Basic Setup

### 8.2.1 LAN Setup

- **Camera Name:** Display the camera name, you can rename directly in the field.
- **MAC Address:** Display the MAC address of camera.
- **Get Address by PPPoE:** If your camera via PPPoE dial up to internet, select the function and complete the settings of PPPoE (refer to 8.3.2).
- **Get Address by DHCP:** If you have a DHCP-enabled router, please select the function, then the router will automatically assigns an IP address to the camera.
- **Specify an Address:** If the camera is connected to a network without a DHCP server, type the fixed IP Address, Subnet Mask Address, Gateway IP Address and Domain Name Server for the camera.

**NOTE: Click “Apply” to confirm your settings after setting.**

### 8.2.2 WLAN Setup (only for Grand Pan/ Tilt Wi-Fi Camera)

- **Wireless mode:**
  - **Ad Hoc:** Connect directly to a computer in a peer-to-peer environment.
  - **Infrastructure:** By using an AP (Access Point) or a wireless router to connecting the WLAN.
- **Rate:** Select the wireless rate Fixed Rate/ Full Rate.
- **SSID:** SSID is a name to identify a wireless network. You can enter SSID name manually.
- **Encryption Type:** Select the Encryption Type.
- **Key:** To connect to an encrypted wireless device, the password you enter here must match the password of the device exactly.
- **MAC Address:** Display the MAC address of camera.
- **Get Address by PPPoE:** If your camera via PPPoE dial up to internet, select the function and complete the settings of PPPoE (refer to 8.3.2).
- **Get Address by DHCP:** If you have a DHCP-enabled router, please select the function, then the router will automatically assigns an IP address to the camera.
- **Specify an Address:** If the camera is connected to a network without a DHCP server, type the fixed IP Address, Subnet Mask Address, Gateway IP Address and Domain Name Server for the camera.

**NOTE:**

**1. Click “Apply” to confirm your settings.**

**2. If you want to use the wireless network connection, you must change the Wireless/ RJ-45 switch (on the right side of the Grand Pan/ Tilt Wi-Fi Camera) to the wireless mode after setting the WLAN Setup.**

### 8.2.3 Network Status: Display the current information of network.

### Network Status

Main Info	
Use ethernet/wireless :	ethernet
IP Address	192 . 168 . 168 . 239
Network Mask	255 . 255 . 255 . 0
Default Gateway	192 . 168 . 168 . 254
Domain Name Server 1	168 . 95 . 1 . 1
Domain Name Server 2	168 . 95 . 1 . 1
Domain Name Server 3	168 . 95 . 1 . 1

Reload

**8.2.4 System Log:** List the information of connection logged (IP Address, MAC Address and Login Time). Click the “Reload” to load the latest information.

### System/Client Logs

Main Info			
Main Info	IP Address	MAC Address	Time
System Boot			1/1/2005 8:0
Information			1/1/2005 8:0
Information			1/1/2005 8:0
Information			1/1/2005 8:0
Information			1/1/2005 8:0
Information			1/1/2005 8:0
New client	192.168.168.85	00:0C:76:81:59:1A	11/13/2007 10:6

Reload

## 8.3 Advance Setup

### 8.3.1 Admin Setup

### Administration Setup

Main Info	
Product Name :	IPCam
Version :	V4_0_20071119
Administrator Password	
Password Change :	.....
Password Confirm :	.....
MAC Address :	00 . 13 . FE . 00 . 00 . DD
Reset Device :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Factory Defaults :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Port Number1 :	80
Port Number2 :	8888
Ping Service :	<input checked="" type="radio"/> Yes <input type="radio"/> No
Video with password :	<input checked="" type="radio"/> Yes <input type="radio"/> No
Firmware Update :	<div>LINK</div>

Apply Undo

- **Product Name:** Display the camera's name.
- **Version:** Display the firmware version of camera.
- **Administrator Password:**
  - **Password Change:** Enter the new administrator password to access the camera.
  - **Password Confirm:** Confirm the new password, enter it again.
- **MAC Address:** Display the MAC address of camera.
- **Reset Device:** Select “Yes” and click the “Apply” to restart the camera.
- **Factory Default:** Select “Yes” and click the “Apply” to restore factory default settings.
- **Port Setting:** You can change the port number if using multiple cameras (Port Number 1: Defaulted as 80, Port Number 2: Defaulted as 8888).

**NOTE: You must also set up your router to open the ports of cameras for remote access the cameras via internet (refer to your router's user manual for how to open up ports).**

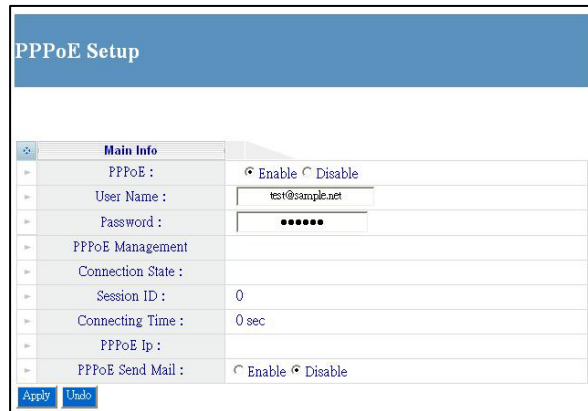
- **Ping Service:** Select “No” to hide the IP address. (prevent the ping command)
- **Video with password:** Select “Enable”, and you can login the camera without password.
- **Firmware Update:** Search the latest firmware and update automatically.

**NOTE: Click “Apply” to confirm your settings.**



### 8.3.2 PPPoE:

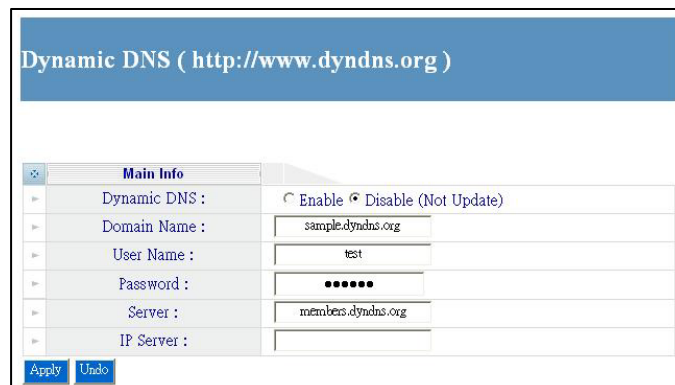
The Grand Pan/ Tilt IP or Wi-Fi Camera can directly connect to the ADSL. It should be setup on the LAN environment to setup the PPPoE information before connecting to the ADSL modem.



- **PPPoE:** Enable/ disable the PPPoE function.
- **User Name:** Enter the PPPoE account provided by the ISP
- **Password:** Enter the password provided by the ISP.
- **PPPoE Management:** If the ADSL modem and the camera are connected and after the information of PPPoE are set, the current PPPoE status will be displayed.

**NOTE:** Click “Apply” to confirm your settings.

**8.3.3 Dynamic DNS:** If you are using a DDNS connection, enable the DDNS function and enter domain name, User Name and Password.



**NOTE:** Click “Apply” to confirm your settings.

### 8.3.4 FTP: Upload the motion-detected images to FTP server.



- **Enable:** Enable/ disable the FTP function.
- **Server URL:** Enter the domain name or IP address of the FTP server.
- **User:** Enter the user name of the FTP server.
- **Password:** Enter the password of the FTP server.
- **Remote Path:** Enter the folder path to store the images on the FTP server.
- **Interval Sec:** Set the interval time to upload the image.
- **Enable file name:** If you select “Disable”, the latest image will replace the original image.
- **File name:** Set the file name of the image.

**NOTE:** Click “Apply” to confirm your settings.

### 8.3.5 E-Mail: Capture and e-mail the image.



- **Enable:** Enable/ disable the E-mail function.
- **Mail Server:** Enter the domain name or IP address of the Mail server (POP3).
- **Sender's Address:** Enter the e-mail address of the sender.
- **Recipient's Address:** Enter the e-mail address of the recipient.
- **Subject:** Enter the subject of the mail.
- **User ID:** Enter the user name of the Mail server.
- **Password:** Enter the password of the Mail server
- **Interval In Minute:** Set the interval time to mail the image.
- **Motion send Mail:** Send the mail with image while sensing approaching subjects (refer to page 17 for set the motion detection sensitivity).

**NOTE:** Click “Apply” to confirm your settings.

### 8.3.6 NTP

NTP Setup

Main Info	
Enable Time Zone :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Time Zone :	GMT+08:00 Taipei
Enable Time Server :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Time Server IP :	161.53.40.3
Set Time :	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Date :	2006-01-01 01:01:01

Apply Undo

- **Enable Time Zone:** Enable/ disable the **Time Zone** function.
- **Time Zone:** Local time zone selection. (the **Time Zone** function must be enabled)
- **Enable Time Server:** Enable/ disable the NTP server function.
- **Time Server IP:** Enter the domain name or IP address of the NTP server.
- **Set Time:** Enable/ disable the manually set time function.
- **Date:** Display the current time, you can set the time manually.

**PS: If you use the NTP server function, please disable the Set Time (manual) function.**

**NOTE: Click “Apply” to confirm your settings.**

**8.3.7 Account Manager:** Set up the users and administrators for the camera (provides 3 layers: administrator/ User/ Guest).

Main Info

Current User

User Name	Level
-----------	-------

Assign User

User Name:

Password:

Confirm password:

Level:

Assign Clear

Delete User

Delete

Refresh

**8.3.8 UPnP:** The Grand Wi-Fi/ IP Camera supports UPnP function. If your operating system is UPnP enabled, the device will easier to configure. (If your operating system is Windows 98/ 2000, UPnP is unavailable.)

UPnP Setup

Main Info	
Enable UPnP :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Apply Undo

- **Enable UPnP:** Enable/ disable the UPnP function.

**NOTE: Click “Apply” to confirm your settings.**

### 8.3.9 Audio

Audio Setup

Main Info	
Enable Audio :	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Boost :	<input type="radio"/> off <input type="radio"/> 13dB <input checked="" type="radio"/> 20dB <input type="radio"/> 29dB
MIC Volume :	9

Apply Undo

- **Enable Audio:** Enable/ disable the Audio function.
- **Boost:** Enter the domain name or IP address of the NTP server.
- **MIC Volume:** Enter the value of microphone volume.

**NOTE: Click “Apply” to confirm your settings.**

### 8.3.10 Motion

Motion Setup

Main Info	
Sensitivity :	<input type="radio"/> High <input checked="" type="radio"/> Normal <input type="radio"/> Low

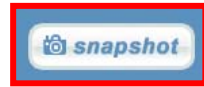
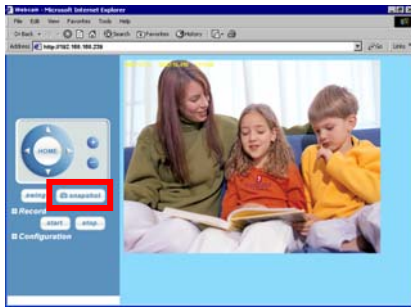
Apply Undo

- **Sensitivity:** Set the motion detection sensitivity (High/ Normal/ Low).

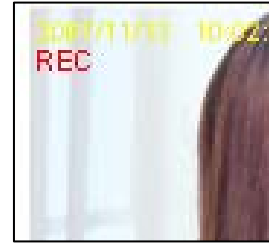
**NOTE: Click “Apply” to confirm your settings.**

## 8.4 Snapshot Function

Click the **Snapshot** button to open a browser window and display the current image. You can Right Click on the screen and save the image.



**Step 2:** The “REC” will appear on right-up position of the image when recording, you can click “Stop” to stop recording.

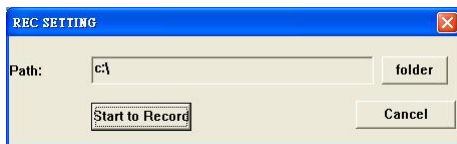
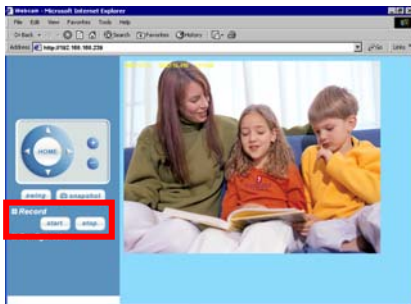


**Step 3:** The recording files (AVI format) can be played by Windows Media Player program. These files are named as yyyy\_mm\_dd\_hh\_mm\_ss\_ms.avi.

**NOTE: Do not adjust the image settings (ex. resolution, quality, brightness or contrast) while recording, otherwise the recording file may be error.**

## 8.5 Image Recording

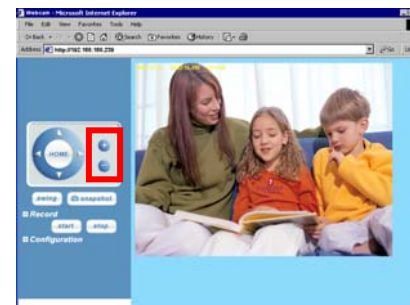
**Step 1:** Click “Start”, and the “REC SETTING” window will appear. Enter the folder path, and click the “Start to Record” button to start recording (AVI format).



REC SETTING

## 8.6 Zoom In (Out) Function

Click the + - button to digital zoom the image. (up to 15 level)



## 8.7 Pan & Tilt Control

- **SWING:** Click the button to pan scan once automatically (move one step in every five seconds), press again to stop immediately.

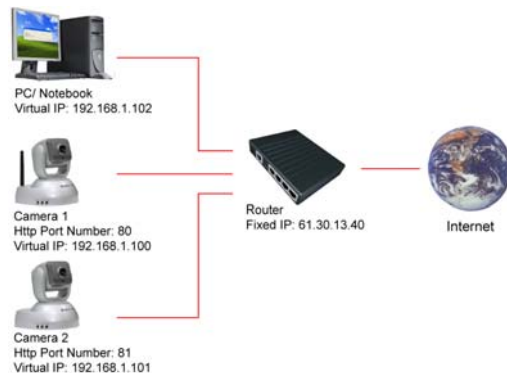
NOTE:

1. If the initial position is not in the center when the “swing” is pressed, the camera will start to pan for a moment slightly (the longest about 1 minute).
2. If the page of camera is closed while the camera is swing, and the camera will stop swing automatically.
3. If there are more than one person remotely control the swing function, it may cause error.

- **HOME:** Click the button to back to center.
- **4 Way Moving Control:** Click the **up**, **down**, **left** or **right** arrow to control the camera movement.



## 9. Connecting Multiple Cameras to a Router



**Step 1:** Assign a local IP Address and Http Ports for your cameras (confirm the cameras settings corresponding to your network settings; you must use the same gateway and Subnet Mask).

**Step 2:** Set up the router to open the ports of cameras for remote access the cameras via internet (refer to your router's user manual for how to open up ports).

**Step 3:** Accessing your cameras.

- **Access on local network**

Enter “http:// 192.168.1.100” to access the camera 1; enter “http:// 192.168.1.101” to access the camera 2.

- **Access from the internet**

Enter “http:// 61.30.13.40:80” to access the camera 1; enter “http:// 61.30.13.40:81” to access the camera 2.

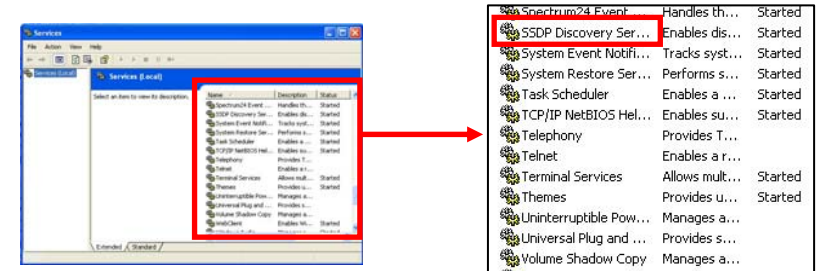
## 10. Using UPnP to Connect to the Camera

**NOTE: If your operating system is Windows 98/ 2000, UPnP is not available.**

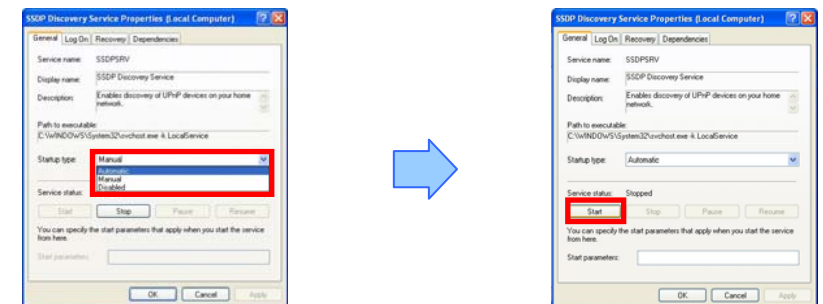
**Step 1:** Confirm the UPnP function of camera has been enabled (refer to 8.3.8).

**Step 2:** Follow the steps below to enable UPnP for Windows ME/ XP.

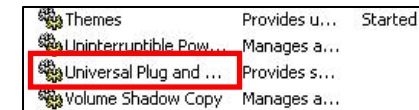
- Click “Start” → “Setting” → “Control Panel” → “Administrative Tools” → “Services”.
- In the “Services” window, double-click the service “SSDP Discovery Service”.



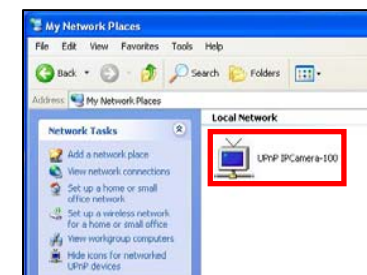
- Select “Automatic” in the “Startup type” item, and click “Start” to start the service. Click “OK” to quit.



- Repeat the steps above to start the “Universal Plug and Play” service.



**Step 3:** Open the “My Network Places” on the desktop, click the “UPnP IP Camera-100” to connect the camera directly. (The last digits “100”, represent the fourth octet of your camera's IP address)



## 11. Troubleshooting

Situation	Check Point
The focus is bad	<ol style="list-style-type: none"><li>1. Adjust the camera's image quality through the configuration menu (refer to page 9).</li><li>2. Adjust by turning clockwise or counter-clockwise the focus manually.</li></ol>
Noisy Image	<ol style="list-style-type: none"><li>1. If the camera works in dim environment, the images might be noisy. You need more lighting, or set the light source to Omnibus mode (refer to page 9).</li></ol>
No images available through Web browser	<ol style="list-style-type: none"><li>1. Confirm the ActiveX has been enabled (refer to page 5).</li><li>2. Confirm the version of your Internet Explorer. If the version number lower than 5, you need to upgrade it.</li></ol>
Can't connect externally (can work locally)	<ol style="list-style-type: none"><li>1. This might be caused by the firewall protection. Check the internet firewall with your system administrator.</li><li>2. Refer to page 20 for more information about connecting multiple cameras to a router.</li></ol>
Forgot the login user name and password	<ol style="list-style-type: none"><li>1. Press continuously the default button on the top of the camera about 5 seconds to restore the factory default settings. Default User Name: root Default Password: admin Default IP Address: 192.168.1.100</li></ol>
Wireless network not working (only for Grand Pan/ Tilt Wi-Fi Camera)	<ol style="list-style-type: none"><li>1. Confirm the WLAN Setup has been set correctly refer to page 11).</li><li>2. Confirm the Wireless/ RJ-45 switch (on the right side of camera) has been switched to Wireless mode.</li><li>3. Ensure that you wireless router supports 802.11b/g.</li><li>4. Adjust the wireless antennas for better signal reception.</li></ol>