

## User's Manual

**Wired/Wireless  
H.264 Mega-Pixel  
IP Camera  
ICA-HM100 / ICA-HM100W**



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## **Federal Communication Commission Interference Statement**

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

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

## **FCC Caution**

To assure continued compliance. (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

## **Federal Communication Commission (FCC) Radiation Exposure Statement**

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

## **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 manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

### **CE Mark Warning**

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

### **WEEE Regulation**



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

### **Revision**

User's Manual for PLANET Wired/Wireless H.264 Mega-Pixel IP Camera  
Model: ICA-HM100 / ICA-HM100W  
Rev: 1.1 (May. 2011)  
Part No. EM-ICAHM100 Series\_v1.1

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# 1. Introduction

PLANET has announced a wired/wireless CMOS IR IP camera, ICA-HM100/100W, for meeting the feedback from worldwide market. The ICA-HM100/100W with built-in high performance 1.3Mega-Pixel CMOS sensor delivers high quality image at maximum 1280x1024 resolutions. Integrated the next generation video compression technology – H.264, the ICA-HM100/100W can compress the video size to smaller one for users to transfer the Mega-Pixel image on Internet easily. Multi-profile stands for video stream simultaneously. The ICA-HM100/100W can generate H.264 / MPEG-4 and M-JPEG streaming to different users at the same time. It allows up to 20 users to access the ICA-HM100/100W simultaneously. With this state-of-the-art design, the ICA-HM100/100W is considerable to fit in various network environments.

The ICA-HM100/100W features zero-lux illumination. 6 white LEDs built around the lens bring the clearest vision at night. The ICA-HM100/100W offers color pictures both in the day and night with built-in CMOS sensor supporting up to 10 meters. It also uses new High-Light LED to provide greater performance in the dark and longer life of LED.

Supports Store-to-NAS function, the ICA-HM100/100W can work alone and save the video file to a NAS directly, which can save the PC resource and keep monitoring the environment with motion detection at 7/24. The ICA-HM100/100W takes surveillance using 2-Way audio. The administrator can speak to anyone at ICA-HM100/100W remote site with a speaker connected. Compliant with IEEE 802.3af PoE interface, the ICA-HM100 can be located in places where there are no power outlets. The ICA-HM100W uses IEEE 802.11N wireless technology that communicates at a maximum wireless signal rate and security features include WEP and WPA encryption.

The ICA-HM100/100W can be managed by PLANET Cam Viewer 3, the professional management software for multi-camera video surveillance application, to provide monitoring, recording and event management functions. The Cam Viewer 3 enables you to setup a comprehensive and effective surveillance system quickly and easily. With the ICA-HM100/100W managed by the Cam Viewer 3, it provides an enhanced professional security environment to protect your property and life.

## 1.1 Overview

This user's guide explains how to operate this camera from a computer. User should read this manual completely and carefully before you operate the device

## 1.2 Features

- 1.3Mega-Pixel CMOS sensor built-in
- 2-Way audio with built-in microphone and can be connected to speaker
- 6 white-light LEDs supporting visible distance up to 10 meter at night
- Multi-profile encoder supports H.264 / MPEG-4 and M-JPEG video compression simultaneously
- 3GPP for 3G mobile remote applications
- Plug-N-Watch that simplifies system integration in existing network environment



- Store-to-NAS function to save video files without operating software
- Easy configuration and management via Windows-based utility or web interface
- DDNS, PPPoE and FTP uploading supports more alternatives in surveillance network
- Motion Detection feature can monitor any suspicious movement in specific area
- Compliant with IEEE 802.3af PoE interface (ICA-HM100)
- IEEE 802.11n(draft 2.0) Wireless LAN Capability (ICA-HM100W)
- Cam Viewer 3 - Central management software supported

## 1.3 Package Contents

User can find the following items in the package:

Camera unit x 1  
Power Adapter x 1  
Camera Mount Kit x 1  
User's Manual CD x 1  
Quick Installation Guide x 1  
External Antenna x 1 (ICA-HM100W only)

- 
- NOTE:**
1. *If any of the above items are missing, please contact your dealer immediately.*
  2. *Using the power supply that is not the one included in Internet Camera packet will cause damage and void the warranty for this product.*
-

## 2. Basic Setup

This chapter provides details of installing and configuring the Internet Camera.

### 2.1 System Requirement

The Internet Camera can be monitoring on all of Windows operating system that suggest with system requirement below in order to got better video performance.

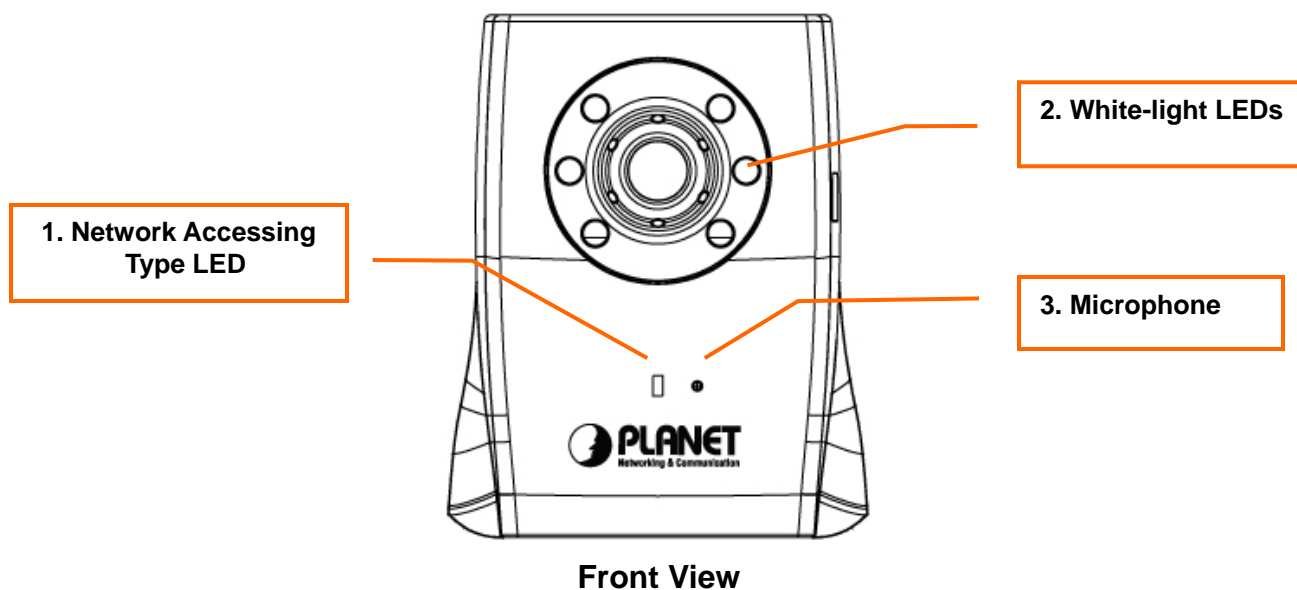
Network Interface	10/100MBase-TX Ethernet
Monitoring System	Recommended for Internet Explorer 6.0 or later
System Hardware	<ul style="list-style-type: none"><li>· CPU: Pentium 4, 3.0GHz or above</li><li>· Memory Size : 512 MB (512 MB above Recommended )</li><li>· VGA card resolution : 1024 x 768 or above</li><li>· VGA card memory : 64 MB or above</li><li>· Network bandwidth: In D1 resolution mode, minimum upload bandwidth is 1.5 ~ 2Mbps.</li></ul>

- 
- NOTE:**
1. The listed information is minimum system requirements only. Actual requirement will vary depending on the nature of your environment.
  2. The ICA-HM100 series can be managed by PLANET IP Wizard II if you want to configure more detail information and settings of PLANET IP Wizard II software please refer to the CD-ROM folder "**D:\Utility\IPWizardII\setup.exe**", assume D is your CD-ROM drive.
- 

## 2.2 Physical Description

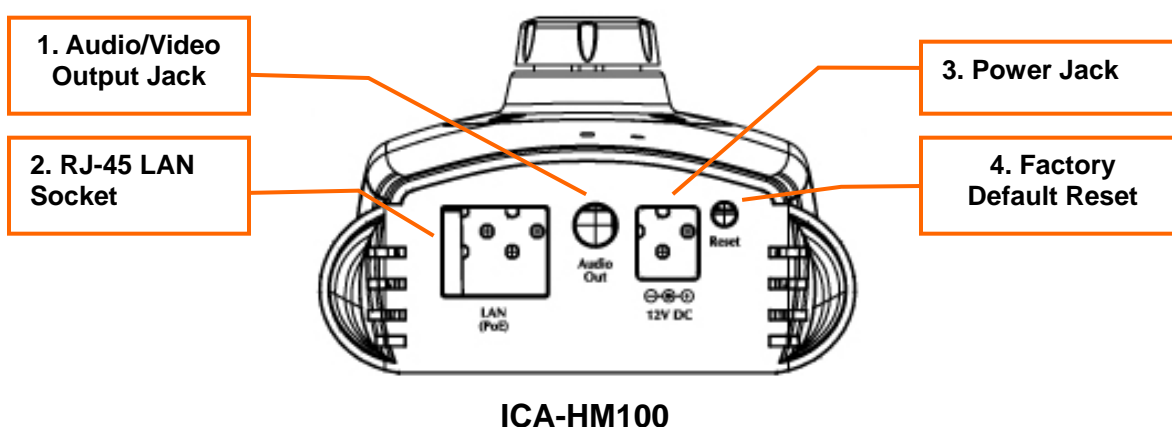
### 2.2.1 Terminal Connections

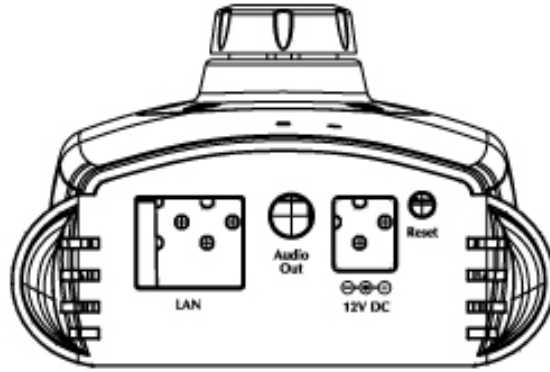




<b>1</b>	<b>Network Accessing Type LED</b>	This LED is used to indicate the network type of IP Camera. The green LED means the IP Camera under wired Ethernet mode (LAN) and orange LED means Camera under wireless mode (WLAN).
<b>2</b>	<b>White-light LEDs</b>	These LEDs are Infra-Red type. It's very useful for low-lux environment to provide extra light source for image sensor.
<b>3</b>	<b>Microphone</b>	The IP Camera has built-in an internal microphone. This microphone is hidden in the pinhole located on the front panel.

### 2.2.2 Bottom Panel

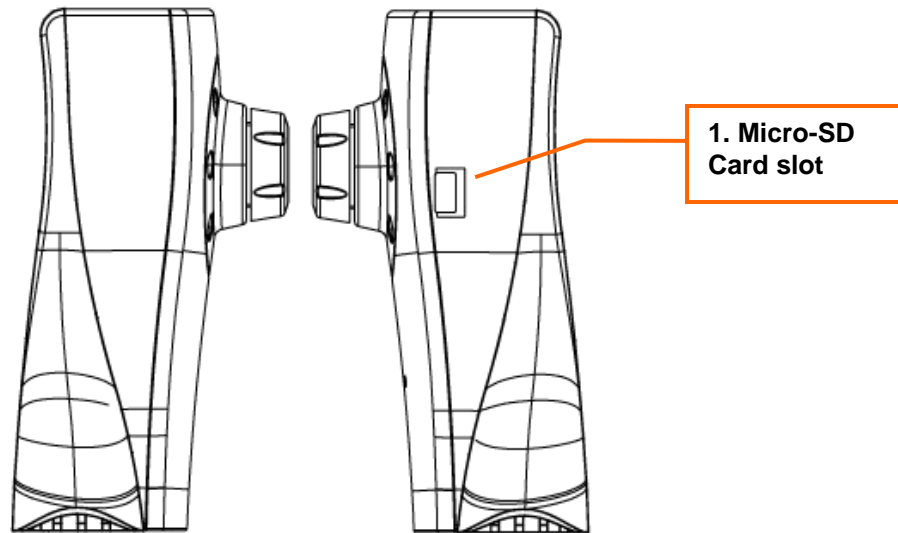




**ICA-HM100W**

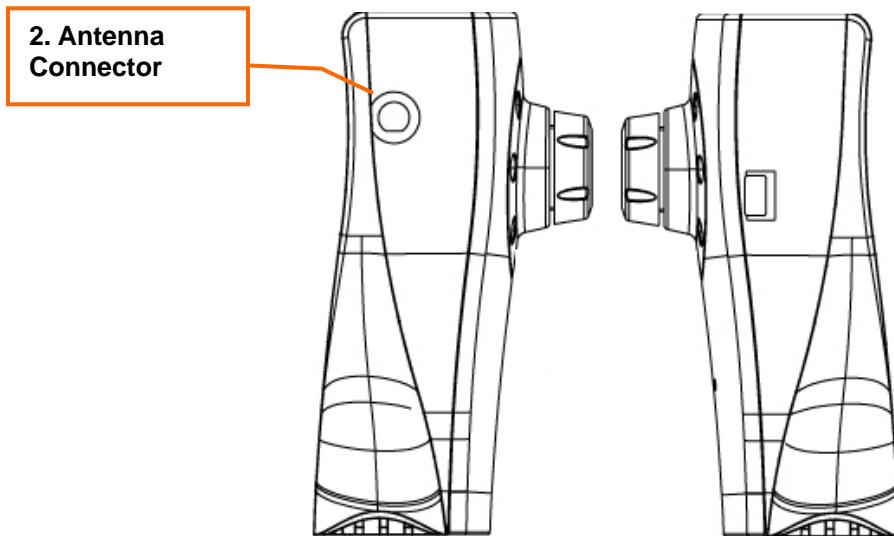
1. <b>Audio/Video Output Jack</b>	Audio-out Jack allows this device to output audio or alerting sound.
2. <b>RJ-45 LAN Socket</b>	The LAN socket is a RJ-45 connector for connections to 10/100Base-TX Fast Ethernet cabling. This Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT-5 cable to connect the IP camera to a 100Mbps Fast Ethernet network switch or hub. The ICA-HM100 LAN socket is compliant with IEEE802.3af standard PoE interface.
3. <b>Power Jack</b>	The input power is DC 12V.
4. <b>Factory Default Reset</b>	<p>This button is used to restore the all factory default settings. Sometimes restarting the device will make the system back to a normal state. However, if the system still got problems after restart, user can restore the factory default settings and install it again.</p> <p><b>Restore the device:</b></p> <ol style="list-style-type: none"> <li>Insert the paper clip or other tool and press and hold the button down continuously.</li> </ol> <p>Hold it at least 5 seconds and release the tool. Then the device has been restored to default settings and reboot again.</p>

### 2.2.3 Side Panel



**1. Micro-SD  
Card slot**

**ICA-HM100**



**2. Antenna  
Connector**

**ICA-HM100W**

<b>1. Micro-SD Card slot</b>	User can insert a micro SD card into this slot for event recording.
<b>2. Antenna Connector</b>	In case this Camera is wireless model, there is a connector for SMA type antenna.

## 2.3 Hardware Installation

**Step 1. Attach the Camera with the included stand**

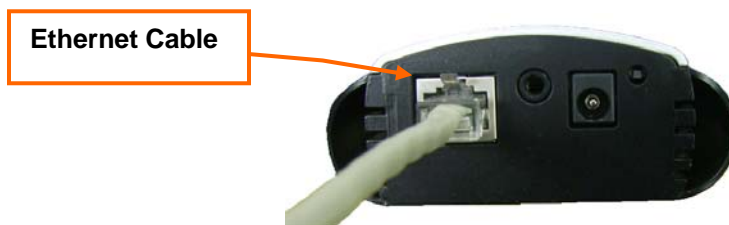
**Step 2. Place the Camera on the table or fix it onto ceiling or wall**

Use three screws to fix the IP Camera onto the ceiling or wall. You could also put the IP Camera on the table directly.



**Step 3. Plug an Ethernet cable into the Camera**

Connect an Ethernet cable to the LAN socket located on the IP Camera's bottom and attach it to the network.



**Step 4. Connect the external power supply to Camera**

Connect the attached power adapter to the DC power jack of the IP Camera. Note: Use the power adapter, 12VDC, included in the package and connect it to wall outlet for AC power.



Once you have installed the IP Camera well and powered it on, the network accessing type LED will turn on. It means the system is booting up successfully. Furthermore, if you have a

proper network connection, and access to the IP Camera, the LED will flash green under wired mode or orange under wireless mode.

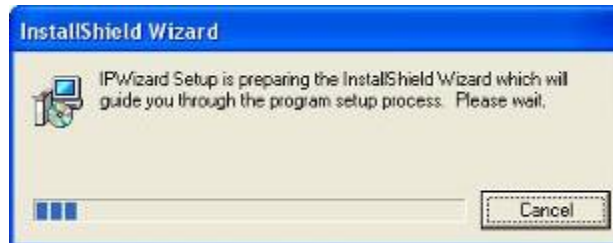
- 
- NOTE:**
1. Only use the power adapter supplied with Internet Camera. Otherwise, the product may be damaged.
  2. The power adapter is unnecessary when Internet Camera is connected to a IEEE802.3af PoE switch. Otherwise, the product may be damaged when Internet Camera is connected to a PoE switch and power adapter simultaneously.
- 

## 2.4 Initial Utility Installation

This chapter shows how to quick set up your H.264 camera. The camera is with the default settings. However to help you find the networked camera quickly the windows utility PLANET IP Wizard II can search the cameras in the network that shall help you to configure some basic setting before you started advanced management and monitoring.

1. Insert the bundled CD into the CD-ROM drive to launch the auto-run program. Once completed, a welcome menu screen will appear.
2. Click the "IP Wizard II" hyperlink; you will see the dialog box as below.

- 
- NOTE:** If the welcome screen does not appear, click "Start" at the taskbar. Then, select "Run" and type "D:\Utility\IPWizard II\setup.exe", assume D is your CD-ROM drive.
- 



3. The "Welcome to the InstallShield Wizard for PLANET IP Wizard II" prompt will display on the screen and click "**Next**" to continue.



4. Please click **"Next"** to install with original settings, or you may click **"Change..."** button to modify the install folder then press "Next" to continue.



5. Please click **"Install"** to start the installation.



6. Please click **"Finish"** to complete the installation and launch program immediately.



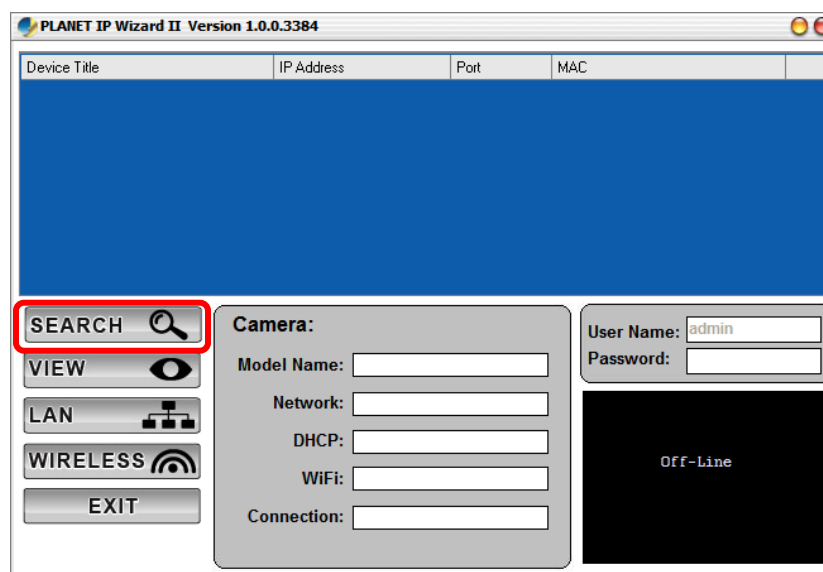
## 2.5 Preparation

When you installed the Internet Camera on a LAN environment, you may execute PLANET IP Wizard II to discover camera's IP address and set up related parameters in the camera.

### 2.5.1. Search and View by PLANET IP Wizard II

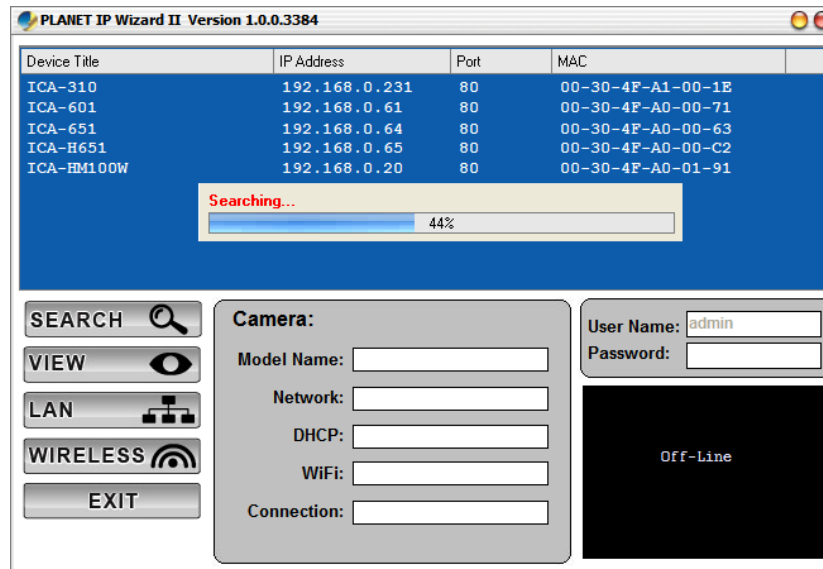
When you installed the Internet Camera on a LAN environment, you have two easy ways to search your cameras by PLANET IP Wizard II or UPnP discovery. Here is the way to execute PLANET IP Wizard II to discover camera's IP address and set up related parameter in a camera.

#### ✓ Search



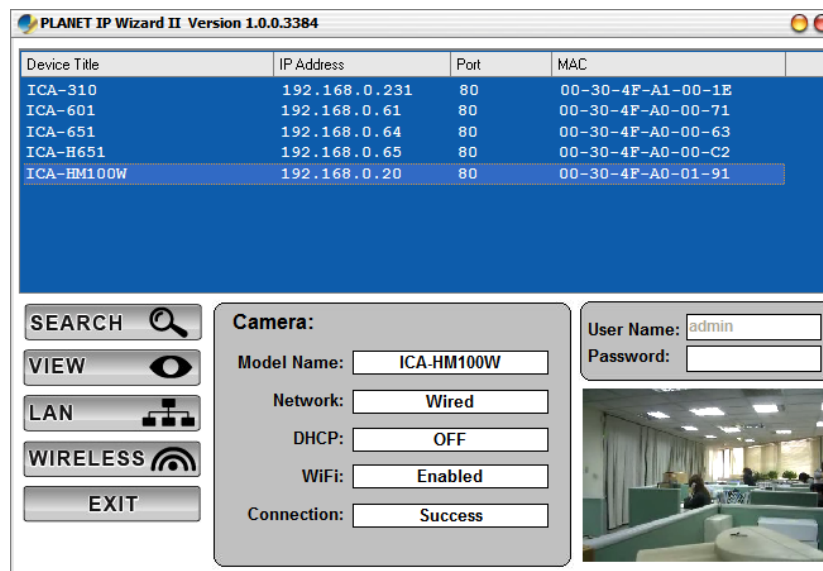
When launch the PLANET IP Wizard II, a searching window will pop up. PLANET IP Wizard II is starting to search Internet Cameras on the LAN. The existed devices will be listed as below.





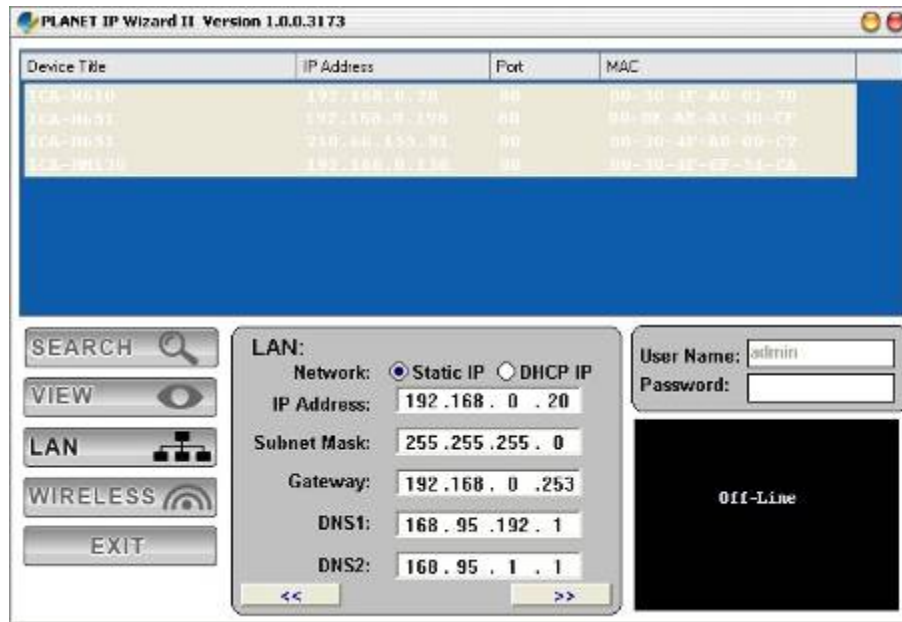
### ✓ View

If PLANET IP Wizard II finds Internet Camera, **View** button will be available. Please select the camera you want to view and click the **View** button. Then you could see the video from camera directly. Furthermore you could double click the left button of mouse to link to the Internet Camera by browser.



## 2.5.2. Configure Network by PLANET IP Wizard II

In case you want to change the IP related parameters of wired interface, please select the Internet Camera you want to configure and click the **LAN** button. Relative settings will be carried out as below.



PLANET IP Wizard II Version 1.0.0.3173

Device Title	IP Address	Port	MAC
ICA-M610	192.168.0.20	80	00-10-4F-A0-01-70
ICA-M651	192.168.0.198	80	00-0F-AD-A1-30-CF
ICA-M651	210.66.155.91	80	00-30-4F-A0-00-C2
ICA-M610	192.168.0.130	80	00-10-4E-CE-54-CA

SEARCH [magnifying glass icon]  
VIEW [eye icon]  
LAN [network icon]  
WIRELESS [wifi icon]  
EXIT

**LAN:**  
Network: ☒ Static IP ☐ DHCP IP  
IP Address: 192.168.0.20  
Subnet Mask: 255.255.255.0  
Gateway: 192.168.0.253  
DNS1: 168.95.192.1  
DNS2: 168.95.1.1  
<< >>

User Name: admin  
Password:   
Off-Line

You could modify the relative settings of the selected device. Click "<<" button will quit the LAN setting procedure and click ">>" button will move to next page as below.



PLANET IP Wizard II Version 1.0.0.3173

Device Title	IP Address	Port	MAC
ICA-M610	192.168.0.20	80	00-10-4F-A0-01-70
ICA-M651	192.168.0.198	80	00-0F-AD-A1-30-CF
ICA-M651	210.66.155.91	80	00-30-4F-A0-00-C2
ICA-M610	192.168.0.130	80	00-10-4E-CE-54-CA

SEARCH [magnifying glass icon]  
VIEW [eye icon]  
LAN [network icon]  
WIRELESS [wifi icon]  
EXIT

**User:**  
☐ Change Password  
<< Submit

User Name: admin  
Password:   
Off-Line

In case, you do not want to change username and/or password, then just click "Submit" button to perform your setting accordingly. Click "<<" button will go back to previous page.  
If you like to change username and/or password of the device, just click the check button. Then, the related fields will show up as below.

Device Title	IP Address	Port	MAC
ICA-H650	192.168.0.20	80	00-10-4F-A0-01-70
ICA-H651	192.168.0.198	80	00-0E-AD-A1-30-CF
ICA-H651	210.66.153.81	80	00-10-4F-A0-00-C2
ICA-H65130	192.168.0.130	80	00-10-4F-6E-51-CA

SEARCH

VIEW

LAN

WIRELESS

EXIT

User:

☒ Change Password

User Name:

New Password:

Confirm Password:

User Name:

Password:

Off-Line

After keying in new username and password, click “**Submit**” button to perform your setting accordingly. Click “<<” button will go back to previous page.

## 2.6 Using UPnP of Windows XP or Vista

### 2.6.1. Windows XP

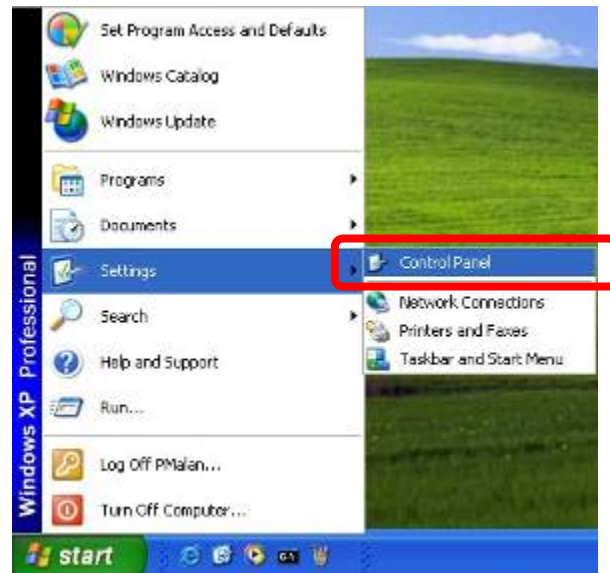
UPnP™ is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. This device is an UPnP enabled device. If the operating system, Windows XP, of your PC is UPnP enabled, the device will be very easy to configure. Use the following steps to enable UPnP settings only if your operating system of PC is running Windows XP.

---

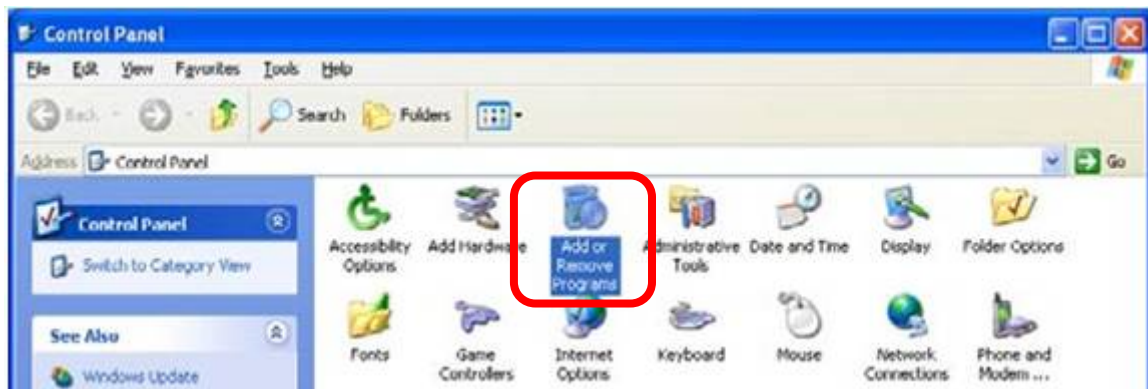
**NOTE:** Please notice that MS Windows 2000 does not support UPnP feature.

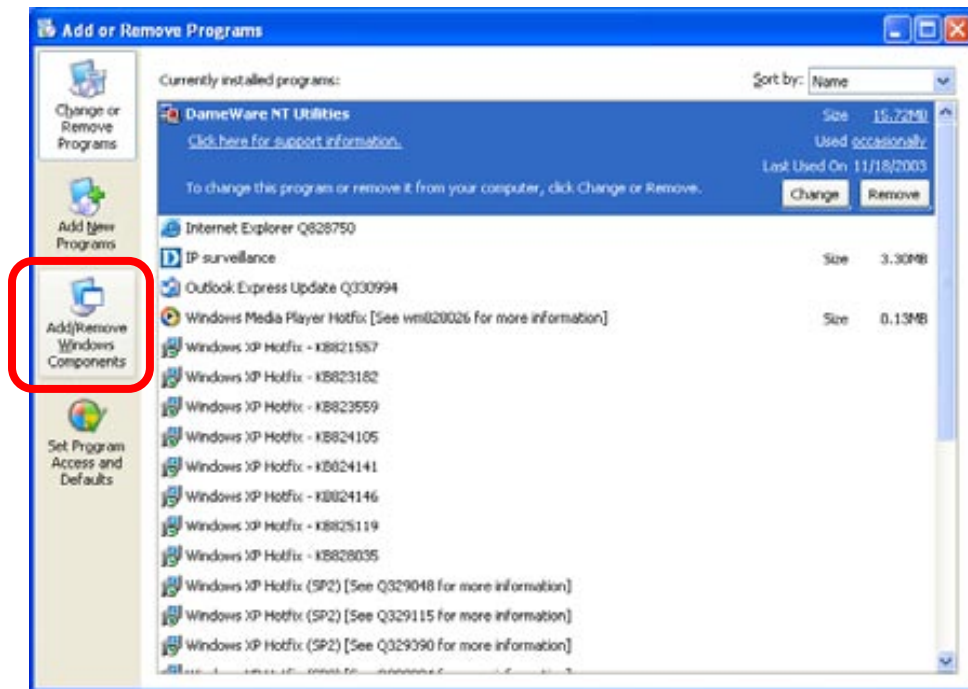
---

Go to **Start > Settings**, and Click **Control Panel**.

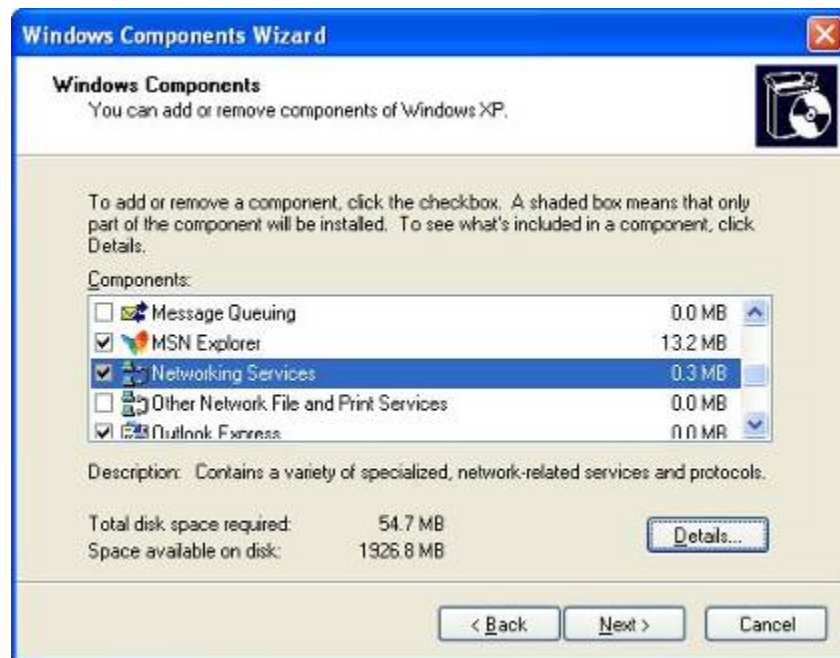


The **"Control Panel"** will display on the screen and double click **"Add or Remove Programs"** to continue.

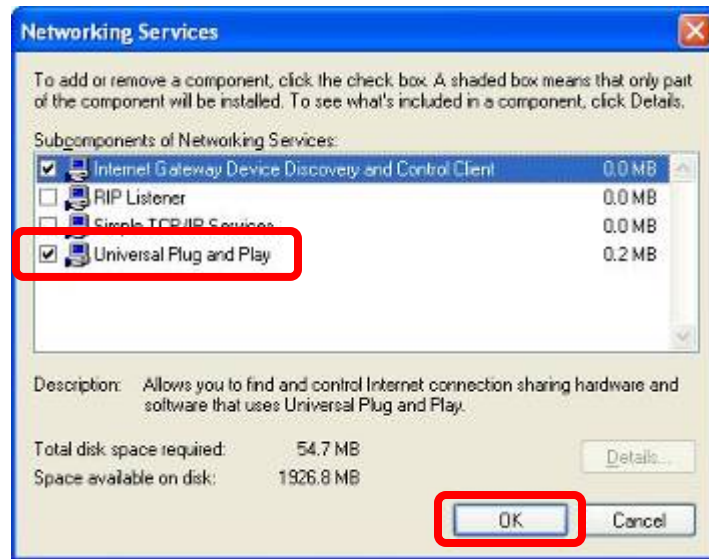




The following screen will appear, select **“Networking Services”** and click **“Details”** to continue.



The “Networking Services” will display on the screen, select **“Universal Plug and Play”** and click **“OK”** to continue.

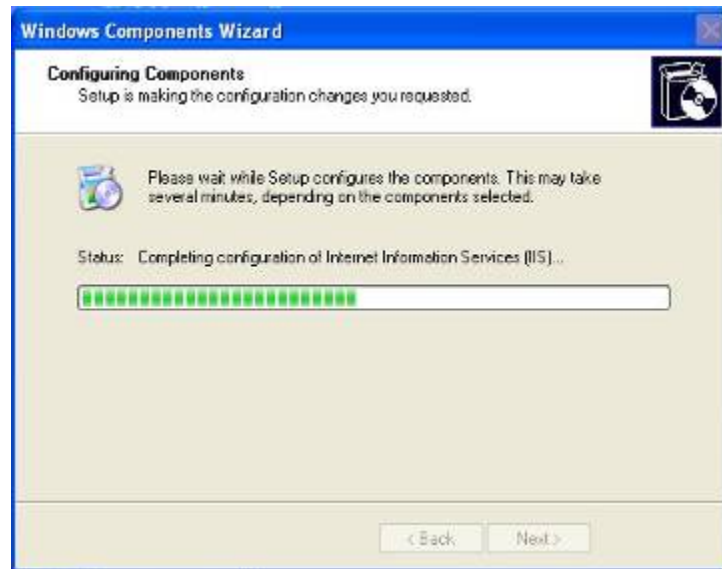


Please click **Next** to continue.



The program will start installing the UPnP automatically. You will see the below pop-up screen, please wait while Setup configures the components.



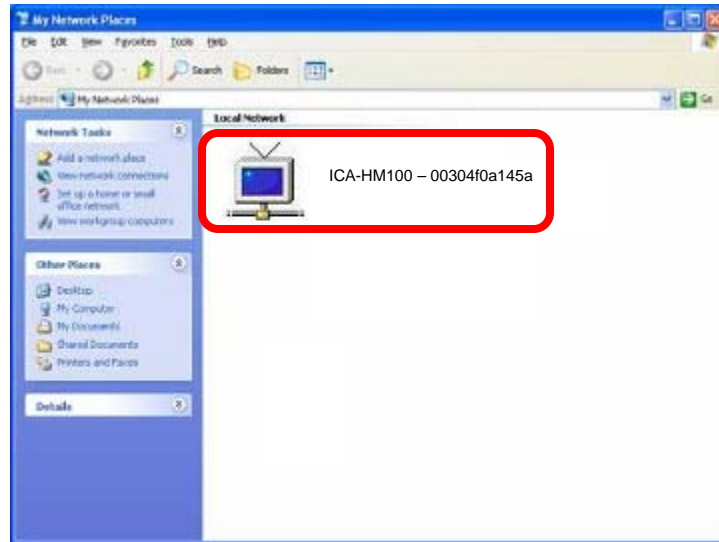


Please click **Finish** to complete the UPnP installation



Double-click **My Network Places** on the desktop, the "My Network Places" will display on the screen and double-click the UPnP icon with Internet Camera to view your device in an internet browser.

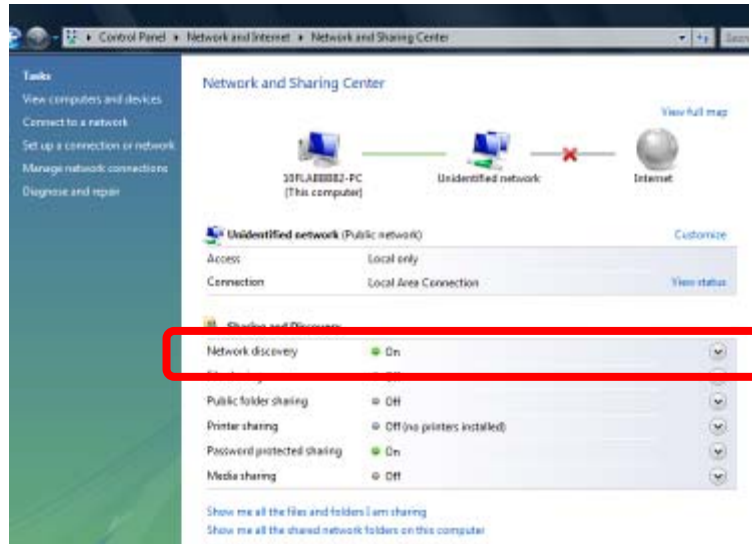




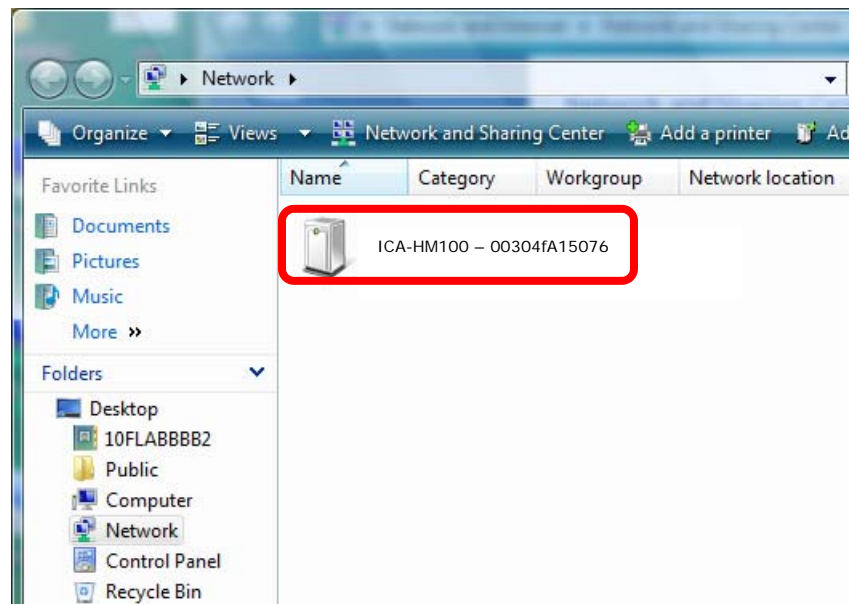
### 2.6.2. Windows Vista

UPnP™ is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. This device is an UPnP enabled device. If the operating system, Windows Vista, of your PC is UPnP enabled, the device will be very easy to configure. Use the following steps to enable UPnP settings only if your operating system of PC is running Windows Vista.

Go to **Start > Control Panel > Network and Internet > Network and Sharing Center**, and turn on **“Network Discovery”**.



Double-click **"My Network Places"** on the desktop, the "My Network Places" will display on the screen and double-click the UPnP icon with Internet Camera to view your device in an internet browser.



## 2.7 Setup ActiveX to use the Internet Camera

The Internet Camera web pages communicate with the Internet Camera using an ActiveX control. The ActiveX control must be downloaded from the Internet Camera and installed on your PC. Your Internet Explorer security settings must allow for the web page to work correctly. To use the Internet Camera, user must setup his IE browser as follows:

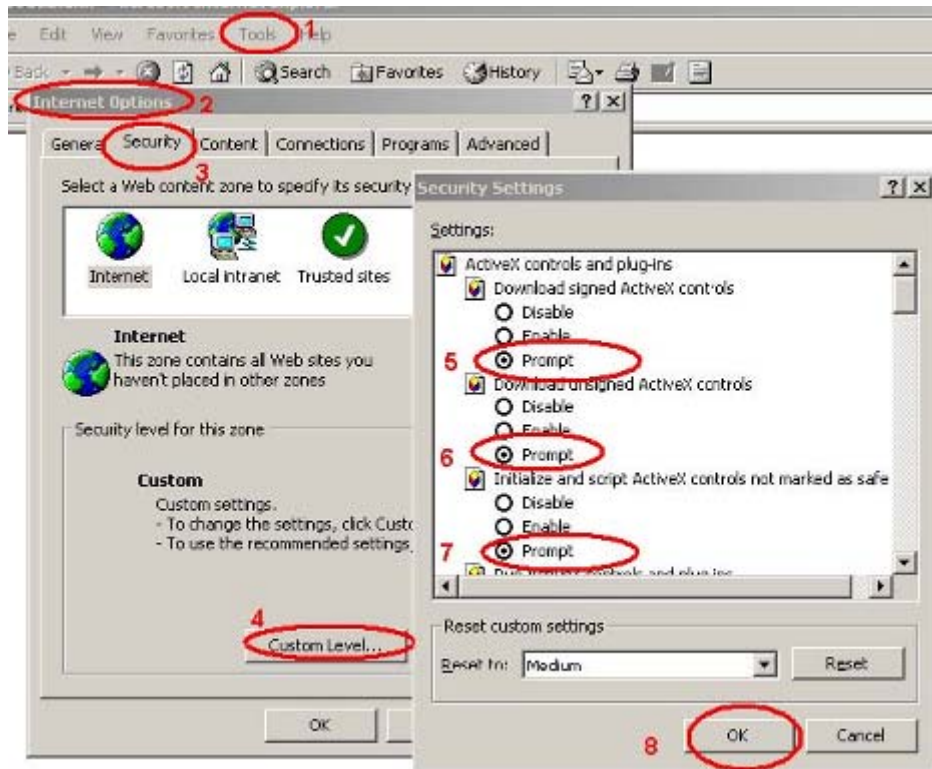
### 2.7.1. Internet Explorer 6 for Windows XP

From your IE browse → "Tools" → "Internet Options..." → "Security" → "Custom Level...", please

setup your “Settings” as follow.

Set the first 3 items

- *Download the signed ActiveX controls*
- *Download the unsigned ActiveX controls*
- *Initialize and script the ActiveX controls not masked as safe to Prompt*



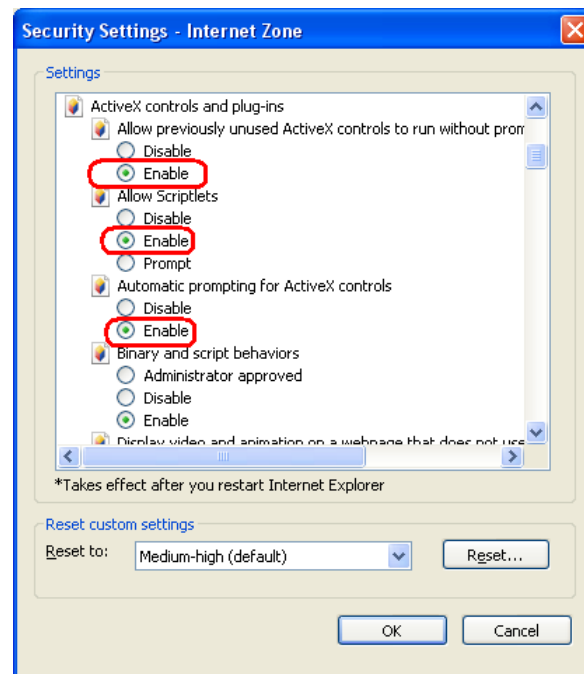
By now, you have finished your entire PC configuration for Internet Camera.

### 2.7.2. Internet Explorer 7 for Windows XP

From your IE browse → "Tools" → "Internet Options..." → "Security" → "Custom Level...", please setup your “Settings” as follow.

Set the first 3 items

- *Allow previously unused ActiveX control to run...*
- *Allows Script lets*
- *Automatic prompting for ActiveX controls*

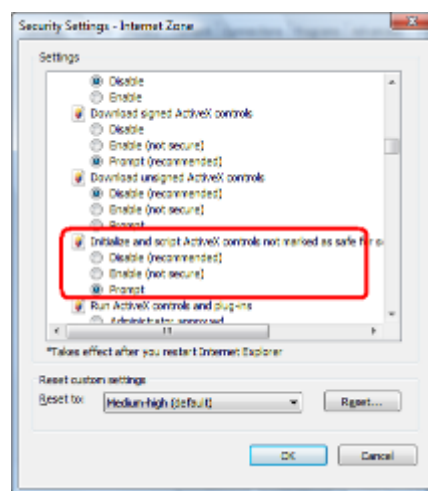
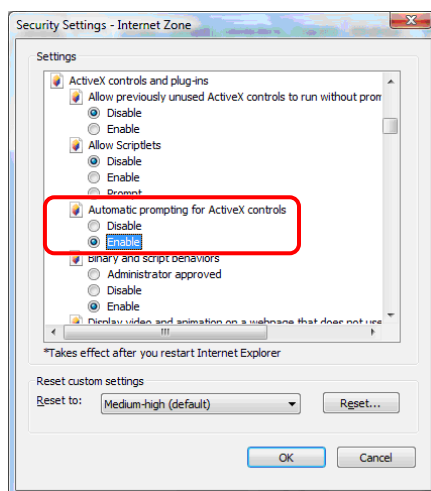


By now, you have finished your entire PC configuration for Internet Camera.

### 2.7.3. Internet Explorer 7 for Windows Vista

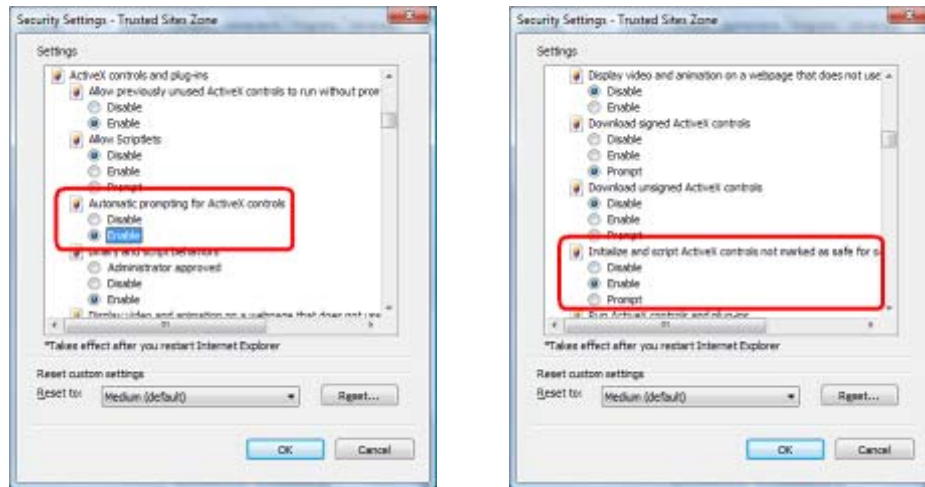
From your IE browse → "Tools" → "Internet Options..." → "Security" → "Internet" → "Custom Level...", please setup your "Settings" as follow.

- Enable "Automatic prompting for ActiveX controls"
- Prompt "Initialize and script active controls not marked as safe for scripting"



From your IE browse → "Tools" → "Internet Options..." → "Security" → "Trusted Sites" → "Custom Level...", please setup your "Settings" as follow.

- Enable “Automatic prompting for ActiveX controls”
- Prompt “Initialize and script active controls not marked...”



By now, you have finished your entire PC configuration for Internet Camera.

## 3. Web-based Management

This chapter provides setup details of the Internet Camera's Web-based Interface.

### 3.1 Introduction

The Internet Camera can be configured with your Web Browser. Before configure, please make sure your PC is under the same IP segment with Internet Camera.

### 3.2 Connecting to Internet Camera

- Use the following procedure to establish a connection from your PC to the Internet Camera.
- Once connected, you can add the camera to your Browser's Favorites or Bookmarks.

Start the web browser on the computer and type the IP address of the camera.

The Default IP: "<http://192.168.0.20/>"



The login window of Internet Camera will appear,

Default login **username/password** is: **admin / <no password>**



---

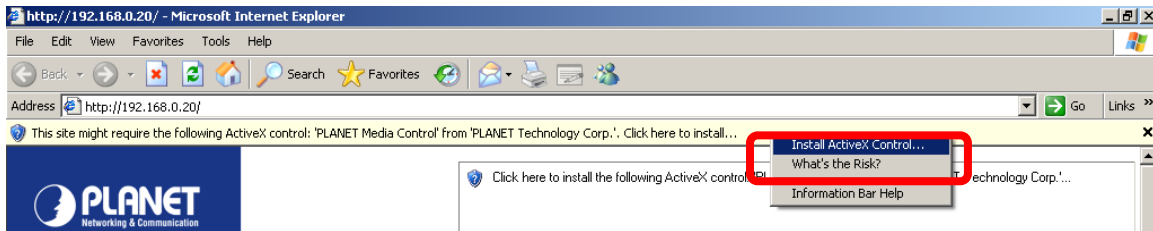
**NOTE:** *If the User name and Password have been changed with PLANET IP Wizard II, please enter the new User name and Password here.*

---

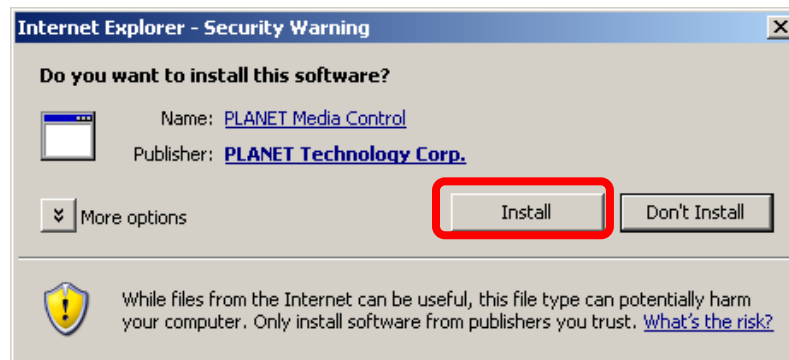
After logged on, you should see the following messages at the top of Internet Explorer:



Click on the message, and click **Install ActiveX Control...**



When you see this message, click **Install** to install required ActiveX control



After the ActiveX control was installed and run, the first image will be displayed.

You should be able to see the images captured from the Internet Camera in the web page now. For advanced functions, please refer to instructions given in follows chapters.

---

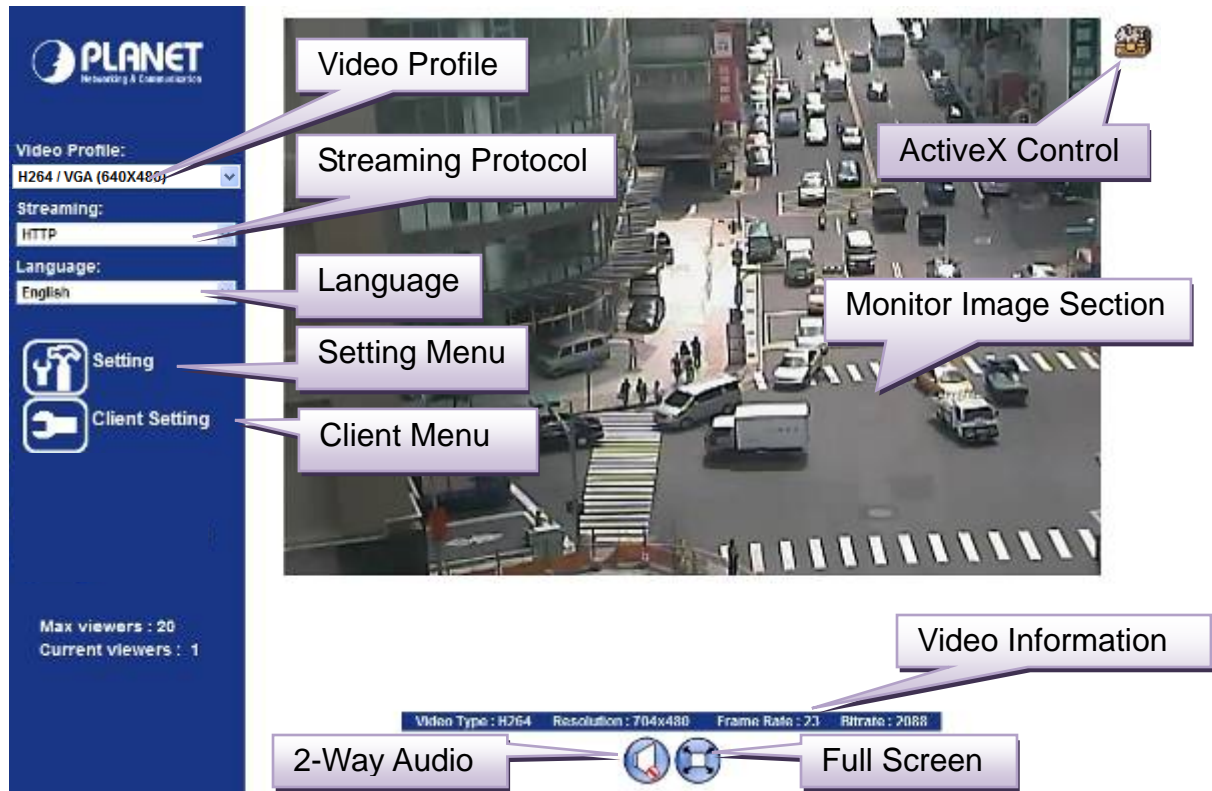
**NOTE:** If you log in the camera as an ordinary user, setting function will be not available. If you log in the camera as the administrator, you can perform all the settings provided within the device.

---



### 3.3 Live View

Start-up screen will be as follow no matter an ordinary users or an administrator.



#### Monitor Image Section

The image shot by the camera is shown here. The date and time are displayed at the top of the window.

#### Video Profile

The camera support multi-profile for three compressions H264, MPEG-4 and M-JPEG simultaneously. User can chose the proper and/or preferred profile here.

#### Full Screen

Click this button to display the image in full-screen mode (uses every available space to display the image captured by this camera).

#### 2-Way Audio

The Internet Camera supports 2-way audio function. User can chose to enable or disable this function by toggling the icon below



: Disable audio uploading function.



: Enable audio uploading function.

#### ActiveX Control

The plug-in ActiveX control supports a lot of functions by clicking the left mouse button. Note that this feature only supports on the ActiveX

control within Microsoft® Internet Explorer.

#### **Setting Menu**

This function is detail setting for the camera that only available for user logged into camera as administrator.

<b>Item</b>	<b>Action</b>
Network	Configure Network settings such as Wireless, DHCP, DDNS, 3GPP, PPPoE and UPnP.
Camera	Adjust camera parameters.
System	Configure system information, date & time, maintenance, and view system log file.
Video	Configure bit rate and frame rate of video profiles.
Audio	Configure audio parameters.
User	Setup user name, password and login privilege.
E-Mail	Setup E-Mail configuration.
Object Detection	Setup Object detection.
Storage	Status and configuration of SD card
Recording List	Files list inside the SD Card
Event Server	Setup FTP/TCP/HTTP server for event
Event Schedule	Configure the schedule while event triggered.

#### **Streaming Protocol**

User can select proper streaming protocol according to networking environment.

#### **Language**

The device could provide multiple languages to meet customer's requirement.

#### **Client Setting:**

Click this button to display the client extra control panel for 2-way Audio and Full Screen.

#### **Video Information**

Display video information including video format, resolution, frame rate and bit rate.

## **3.4 ActiveX Control**

The plug-in ActiveX control supports a lot of functions by clicking the left mouse button. Note that this feature only supports on the ActiveX control within Microsoft® Internet Explorer.

On the ActiveX control icon, click the Left Mouse Button, then a menu pop-up. This menu provides

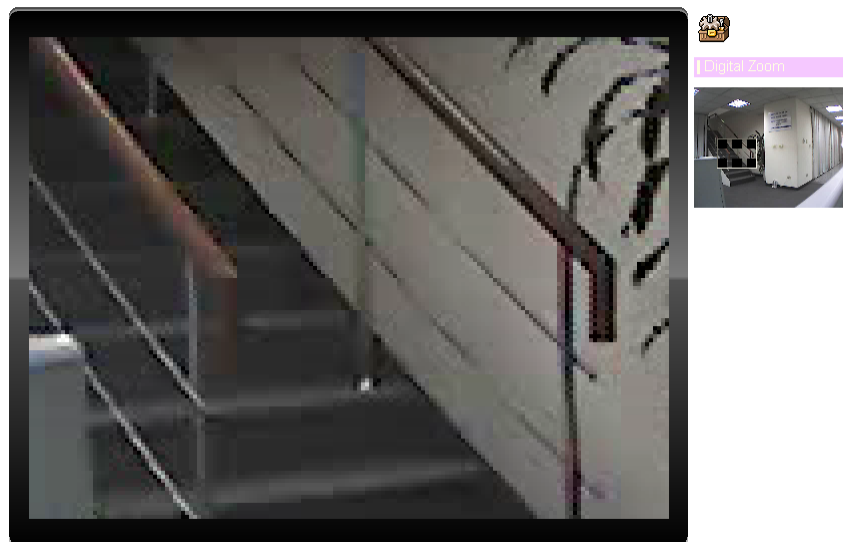
features that are unique to the ActiveX control. These features include:

- Digital Zoom,
- Record,
- Snapshot,
- Voice,
- Statistics,
- About



### 3.4.1. Digital Zoom

Click **Digital Zoom** to active this function as above. User can drag or scale the box over the video to adjust zoom ratio and position.



### 3.4.2. Record

Click **Record** to activate this function. Press **Record** button to start recording. The video file is saved as ASF format into your local PC. While you want to stop it, press **Stop** to stop recording. Select **Browser**, the pop-up window to select the save path and file name prefix, select **OK** to continue.

After stop recording, list the files, this file is named as Video\_yyyymmddhhmmss.asf

The ASF files can be display by the standard Windows Media Player, but it needs the DixectX 9.0 or later version to be installed.

---

**NOTE:** Default save path is "C:\Documents and Settings\All user\Desktop"

---



### 3.4.3. Snapshot

Click **Snapshot** to activate this function. Press **Snapshot** button to take a picture. The image file is saved as JPEG format into your local PC. Select **Browser**, the pop-up window to select the save path and file name prefix, select **OK** to continue.

If you like to retrieve the saved image, select the file to display the saved image by using any one of graph editing tools.

---

**NOTE:** Default save path is "C:\Documents and Settings\All user\Desktop"

---



### 3.4.4. Voice

Click Volume to activate this function. These have two control bars for speaker and microphone volume. Scroll this control bar to adjust the audio attribute. Check the volume mute will mute the speaker output.



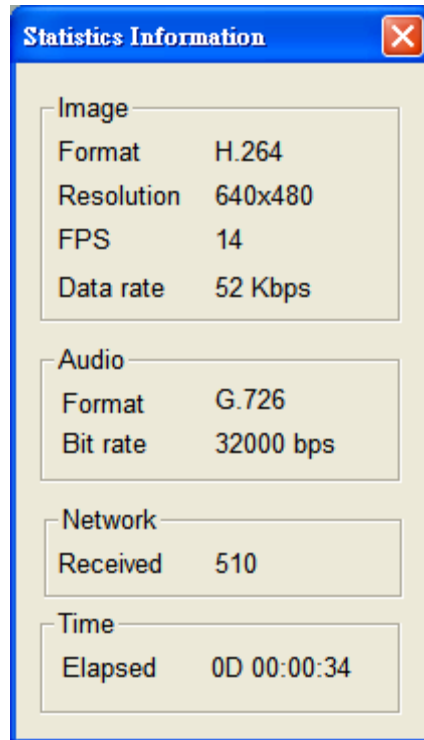
### 3.4.5. Statistics

Click **Statistics** to activate this function. A window will be popup to show the statistics information of the streaming status.

---

**NOTE:** That this information is the statistics between the device and your local PC.

---



### 3.4.6. About

Click **About** to show the ActiveX information



## 3.5 Network Configuration

Use this menu to configure the network to connect the device and the clients.

### 3.5.1. Network

This section provides the menu of connecting the device through Ethernet cable.

Network	Wireless	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification
MAC Address		00:30:4F:A1:31:A9						
<input checked="" type="checkbox"/> Obtain IP address automatically (DHCP)								
IP Address		192.168.0.117			Test			
Subnet Mask		255.255.255.0						
Gateway		192.168.0.1						
<input checked="" type="checkbox"/> Obtain DNS from DHCP								
Primary DNS		168.95.1.1						
Secondary DNS		168.95.1.2						
HTTP Port		80			(1 ~ 65535)			

**MAC address** Display the Ethernet MAC address of the device. Note that user cannot change it.

**Obtain an IP address automatically (DHCP)** Enable this checked box when a DHCP server is installed on the network to issue IP address assignment. With this setting, the IP address is assigned automatically. If this device cannot get an IP address within limited tries, the device will assign a default IP address for 192.168.0.20.

If you do not select “Obtain an IP address automatically”, then you need to enter these network parameters by yourself.

**IP Address** This address is a unique numbers that identifies a computer or device on the WAN or LAN. These numbers are usually shown in groups separated by periods, for example: 192.168.0.200

**Subnet Mask** Subnets allow network traffic between hosts to be separated based on the network's configuration. In IP networking, traffic takes the form of packets. IP subnets advance network security and performance to some level by organizing hosts into logical groups. Subnet masks contain four bytes and usually appear in the same "dotted decimal" data. For example, a very common subnet mask in its binary demonstration 11111111 11111111 11111111 00000000 will usually be shown in the corresponding, more readable form as 255.255.255.0.

**Gateway** A gateway is a piece of software or hardware that passes information



	between networks. You'll see this term most often when you either log in to an Internet site or when you're transient email between different servers.
<b>Obtain DNS from DHCP</b>	Enable this checked box when a DHCP server is installed on the network and provide DNS service.
<b>Primary DNS</b>	When you send email or position a browser to an Internet domain such as xxxxx.com, the domain name system translates the names into IP addresses. The term refers to two things: the conventions for naming hosts and the way the names are control across the Internet.
<b>Secondary DNS</b>	The same function as DNS1. It is option not necessary
<b>HTTP Port</b>	<p>The device supports two HTTP ports. The first one is default port 80 and this port is fixed. This port is very useful for Intranet usage. The second HTTP port is changeable. Users could assign the second port number of http protocol, and the WAN users should follow the port number to login. If the http port is not assigned as 80, users have to add the port number in back of IP address. For example: <a href="http://192.168.0.20:8080">http://192.168.0.20:8080</a>.</p> <p>Therefore, the user can access the device by either <a href="http://xx.xx.xx.xx/">http://xx.xx.xx.xx/</a>, or <a href="http://xx.xx.xx.xx:xxxx/">http://xx.xx.xx.xx:xxxx/</a> to access the device.</p> <p>If multiple devices are installed on the LAN and also required to be accessed from the WAN, then the <b>HTTP Port</b> can be assigned as the virtual server port mapping to support multiple devices.</p>

**NOTE** When the configuration is finish, please click “OK” to save and enable the setting.

### 3.5.2. Wireless

If your device is a wireless model, you could assign the related parameters into wireless setting. Using a wired connection ensures greater secrecy while making these settings. These settings should always be made in the camera first and secondly in the wireless access point. This ensures that the device is always accessible when making changes. **Note** that this function is only available for the model with WLAN capability.

Network **Wireless** DDNS PPPoE Streaming UPNP IP Filter IP Notification

MAC Address 00:1A:2A:EA:AE:3A

Site Survey

MAC	SSID	Mode	Channel	Encryption	Signal Strength
00:30:4F:4B:72:AE	AP4b72ae	Master	6	off	53%

Reload

Interface Select ☐ Wired (Ethernet) only ☒ Auto - wired if cable connected, otherwise wireless

Type ☐ Adhoc ☒ Infrastructure

Security Mode ☒ None ☐ WEP ☐ WPA\_PSK/WPA2\_PSK

SSID

Channel ETSI, Europe AUTO

☒ Obtain IP address automatically (DHCP)

IP Address 192.168.0.20 Test

Subnet Mask 255.255.255.0

Gateway 192.168.0.254

OK Cancel

#### MAC address

Displays the Ethernet MAC address of the WLAN card. Note that user can not change it.

#### Site survey

Click the “Refresh” button. It will refresh information window which list is the result of a network scan. Access points with a disabled SSID Broadcast will not appear unless the camera is associated with it. The following information is provided:

#### Interface Select

“Wired (Ethernet) only” or “Auto – wired if cable connected, otherwise wireless”:

Choose wired or wireless mode. However, note that wired is priority.

#### Type

To select one of WLAN modes from Infrastructure or Ad-Hoc mode.

#### Security mode

Shows which type of security the network uses. The device supports three security methods: None, WEP, WPA\_PSK, WPA2\_PSK

#### Obtain DNS from DHCP

Enable this checked box when a DHCP server is installed on the network and provide DNS service.

#### SSID

This is the name of the wireless network the device is configured for. The field accepts up to 32 alphanumeric characters. The name must be exactly the same as that used in the wireless access point, or the connection will not be established.

Leaving this field blank means the device will attempt to access the

	nearest open network.
<b>Channel</b>	Chooses the wireless channel in use currently.
<b>WEP settings</b>	<p><b>- Authentication:</b></p> <p>Select Open or Shared Key System Authentication, depending on the method used by your access point. Not all access points have this option, in which case they probably use Open System, which is sometimes known as SSID Authentication.</p> <p><b>- WEP Mode:</b></p> <p>The key types available depend on the access point being used. The following options are available:</p> <ul style="list-style-type: none"> <li>•ASCII - In this method the string must be exactly 5 characters for 64-bit WEP and 13 characters for 128-bit WEP.</li> <li>•HEX - In this method the string must be exactly 10 hexadecimal (0-9, A-F) characters for 64-bit WEP and 26 hexadecimal characters for 128-bit WEP.</li> </ul> <p><b>- Web Key 1~4:</b></p> <p>Key value of WEP.</p>
<b>WPA settings</b>	<p><b>- WPA Key:</b></p> <p>Key value of WPA. The device uses a pre-shared key (PSK) for key management. The pre-shared key can be entered either as Manual hex, as 64 hexadecimal characters, or as a Passphrase, using 8 to 63 ASCII characters.</p>
<b>Obtain IP address automatically (DHCP)</b>	Enable this checked box when a DHCP server is installed on the network to issue IP address assignment. With this setting, the IP address is assigned automatically.
<b>IP address, Subnet mask, and Gateway</b>	If you do not select Obtain an IP address automatically, then you need to enter these network parameters manually.
<b>NOTE</b>	When the configuration is finish, please click “OK” to save and enable the setting.

**Note:** To enable WLAN function, user must set these related parameters correctly at first. Then power off the device and remove Ethernet cable from device. Power on the device again and WLAN mode will be available accordingly.

### 3.5.3. DDNS server

Stands for Dynamic Domain Name Server

The device supports DDNS. If your device is connected to xDSL directly, you might need this feature. However, if your device is behind a NAT router, you will not need to enable this feature. Because DDNS allows the device to use an easier way to remember naming format rather than an IP address. The name of the domain is like the name of a person, and the IP address is like his phone number. On the Internet we have IP numbers for each host (computer, server, router, and so on), and we replace these IP numbers to easy remember names, which are organized into the domain name. As to xDSL environment, most of the users will use dynamic IP addresses. If users want to set up a web or a FTP server, then the Dynamic Domain Name Server is necessary. For more DDNS configuration, please consult your dealer.

Your Internet Service Provider (ISP) provides you at least one IP address which you use to connect to the Internet. The address you get may be static, meaning it never changes, or dynamic, meaning it's likely to change periodically. Just how often it changes, depends on your ISP. A dynamic IP address complicates remote access since you may not know what your current WAN IP address is when you want to access your network over the Internet. The solution to the dynamic IP address problem comes in the form of a dynamic DNS service.

The Internet uses DNS servers to lookup domain names and translates them into IP addresses. Domain names are just easy to remember aliases for IP addresses. A dynamic DNS service is unique because it provides a means of updating your IP address so that your listing will remain current when your IP address changes. There are several excellent DDNS services available on the Internet and best of all they're free to use. One such service you can use is [www.DynDNS.org](http://www.DynDNS.org). You'll need to register with the service and set up the domain name of your choice to begin using it. Please refer to the home page of the service for detailed instructions or refer to Appendix E for more information.

Network Wireless **DDNS** PPPoE Streaming UPnP Bonjour IP Filter IP Notification

DDNS ☒ Disable ☐ Enable

Server Name **dyndns.org** ▼

DDNS Host  (1 ~ 30 Digits)

User Name  (< 21 Digits)

Password  (< 21 Digits)

#### DDNS

To enable or disable the DDNS service here.

<b>Server name</b>	Choose the built-in DDNS server.
<b>DDNS Host</b>	The domain name is applied of this device.
<b>User Name</b>	The user name is used to log into DDNS.
<b>Password</b>	The password is used to log into DDNS.

### 3.5.4. PPPoE

PPPoE: Stands for Point to Point Protocol over Ethernet

A standard builds on Ethernet and Point-to-Point network protocol. It allows Internet Camera connect to Internet with xDSL or cable connection; it can dial up your ISP and get a dynamic IP address. For more PPPoE and Internet configuration, please consult your ISP.

It can directly connect to the xDSL, however, it should be setup on a LAN environment to program the PPPoE information first, and then connect to the xDSL modem. Power on again, then the device will dial on to the ISP connect to the WAN through the xDSL modem.

The procedures are

- Connect to a LAN by DHCP or Fixed IP
- Access the device, enter **Setting → Network → PPPoE** as below

<b>PPPoE</b>	To enable or disable the PPPoE service here.
--------------	--

<b>User Name</b>	Type the user name for the PPPoE service which is provided by ISP.
------------------	--

**Password** Type the password for the PPPoE service which is provided by ISP.

**IP Address / Subnet** Shows the IP information got from PPPoE server site.

**Mask / Gateway**

**Status** Shows the Status of PPPoE connection.

### 3.5.5. Streaming

RTSP is a streaming control protocol, and a starting point for negotiating transports such as RTP, multicast and Unicast, and for negotiating codecs. RTSP can be considered a "remote control" for controlling the media stream delivered by a media server. RTSP servers typically use RTP as the protocol for the actual transport of audio/video data.

Network Wireless DDNS PPPoE **Streaming** UPnP Bonjour IP Filter IP Notification

RTSP Port  (554 ~ 65535)

RTP Port  (1024 ~ 65535)

**RTSP Port** Choose the RTSP port. The RTSP protocol allows a connecting client to start a video stream. Enter the RTSP port number to use. The default value is 554.

**RTP Port** Specify the range of transmission port number of video stream. The default range is 50000 to 50999. User can specify a number between 1024 and 65535.

**NOTE**

1. To use the 3GPP function, in addition to previous section, you might need more information or configuration to make this function work.
2. The camera must be set as Multi-profile mode, not Mega-pixel mode.

*Otherwise this device cannot serve 3GPP stream.*

3. *To use the 3GPP function, it strongly recommends installing the Networked Device with a public and fixed IP address without any firewall protection.*
4. *Port 554 is the default for RTSP service. However, sometimes, some service providers change this port number for some reasons. If so, user needs to change this port accordingly.*

**Dialing  
procedure**

1. Choose a verified player (PacketVideo, Quicktime or Realplayer currently)
2. Use the following URL to access: ***rtsp://host/mpeg4/media.3gp***  
Where host is the host name or IP address of the camera.

**Compatible  
3G mobile  
phone**

Please contact your dealer to get the approved list of compatible 3G phone.

### 3.5.6. UPnP

UPnP is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. This device is an UPnP enabled Internet Camera. If your operating system is UPnP enabled, the device will automatically be detected and a new icon will be added to "My Network Places." If you do not want to use the UPnP functionality, it can be disabled

In addition, this device also provides UPnP IGD function for NAT traversal easily. Use NAT traversal when your device is located on an intranet (LAN) and you wish to make it available from the other (WAN) side of a NAT router. With NAT traversal properly configured, all HTTP traffic to an external HTTP port in the NAT router will be forwarded to the device.

Network	Wireless	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification
<p>UPnP <input type="radio"/> Disable <input checked="" type="radio"/> Enable</p> <p>Friendly Name <input type="text" value="ICA-HM100W-00304FA131A9"/> (readonly)</p> <p>UPnP NAT Traversal <input type="radio"/> Disable <input checked="" type="radio"/> Enable</p> <p>Port Range <input type="text" value="32768"/> ~ <input type="text" value="65535"/> (1024 ~ 65535)</p> <p>External IP Address <input type="text"/> (readonly)</p>								

<b>UPnP</b>	To enable or disable the UPnP service here.
<b>Friendly Name</b>	Shows the friendly name of this device here.
<b>UPnP NAT Traversal</b>	When enabled, the device will attempt to configure port mapping in a NAT router on your network, using UPnP™. Note that UPnP™ must be enabled in the NAT router first.
<b>Port Range</b>	The port range will open in NAT router.
<b>External IP address</b>	Show the IP address and port for WAN access through Internet. If NAT traversal is configured successfully, user can use this IP address and port to access this device.

### 3.5.7. Bonjour

The Bonjour service allows IP camera can be discovered with Apple Safari browser applied, once the option enable the IP camera will be show the Friendly Name in the Bonjour bookmarks menu of Safari browser.



Network	Wireless	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification
<div> <div>Bonjour</div> <div> <input type="radio"/> Disable           <input checked="" type="radio"/> Enable         </div> </div> <div> <div>Friendly Name</div> <div>ICA-HM100W-00304FA131A9 (readonly)</div> </div>								

### Bonjour

To enable or disable the Bonjour service here.

### Friendly Name

Shows the friendly name of this device here.

## 3.5.8. IP Filter

You can enter different user's IP address which are allowing enter or denying by the device.

Network	Wireless	DDNS	PPPoE	Streaming	UPnP	Bonjour	IP Filter	IP Notification
<div> <div>IP Filter</div> <div> <input checked="" type="radio"/> Disable           <input type="radio"/> Enable         </div> </div> <div> <div>IP Filter Policy</div> <div> <input type="radio"/> Deny           <input checked="" type="radio"/> Allow         </div> </div> <div>Save</div> <div> <div> <div></div> <div> <div>Filter IP List</div> <div> <div>Filter IP</div> <div></div> </div> <div> <div>Add</div> <div>Delete</div> <div>DeleteAll</div> </div> </div> </div> </div>								

**IP Filter**

To enable or disable the IP filter function here.

**IP Filter Policy**

Choose the filter policy where is denying or allowing.

### 3.5.9. IP Notification

In case the IP address is changed, system is able to send out an email to alert someone if the function is enabled.

**SMTP Notification (e-mail)**

If enable this function, then the “**Send to**” and “**Subject**” field need to be filled.

**Send To**

Type the receiver’s e-mail address. This address is used for reply mail.

**Subject**

Type the subject/title of the E-mail.

**TCP Notification**

If enable this function, then the “**TCP Server**”, “**TCP Port**”, and “**Message**” fields need to be filled.

**TCP Server**

Type the server name or the IP address of the TCP server.

**TCP Port**

Set port number of TCP server.

**Message**

The message will be sent to FTP server.

**HTTP Notification**

If enable this function, then the fields below need to be filled.

<b>URL</b>	Type the server name or the IP address of the HTTP server
<b>HTTP Login name</b>	Type the user name for the HTTP server.
<b>HTTP Login Password</b>	Type the password for the HTTP server.
<b>Proxy Address</b>	Type the server name or the IP address of the HTTP Proxy.
<b>Proxy Port</b>	Set port number of Proxy.
<b>Proxy Login name</b>	Type the user name for the HTTP Proxy.
<b>Proxy Login Password</b>	Type the password for the HTTP Proxy.
<b>Custom parameter</b>	User can set specific parameters to HTTP server.
<b>Message</b>	The message will be sent to HTTP server.

Use this menu to set the function of the camera of Internet Camera

### 3.6.1. Picture

Picture

Rotation

Normal

White Balance

Auto

Exposure Control

☒ Auto
 ☐ Hold

Maximum Exposure Time

1/5 S

Color Level

50

(0 ~ 100)

Brightness

50

(0 ~ 100)

Contrast

50

(0 ~ 100)

Sharpness

50

(0 ~ 100)

White-Light LED

☐ On
 ☐ Off
 ☐ Auto
 ☒ Schedule

Current Value

4757

Refresh

LED On Threshold

2000

(0 ~ 10000)

LED Off Threshold

3800

(0 ~ 10000)

Delay Time

10

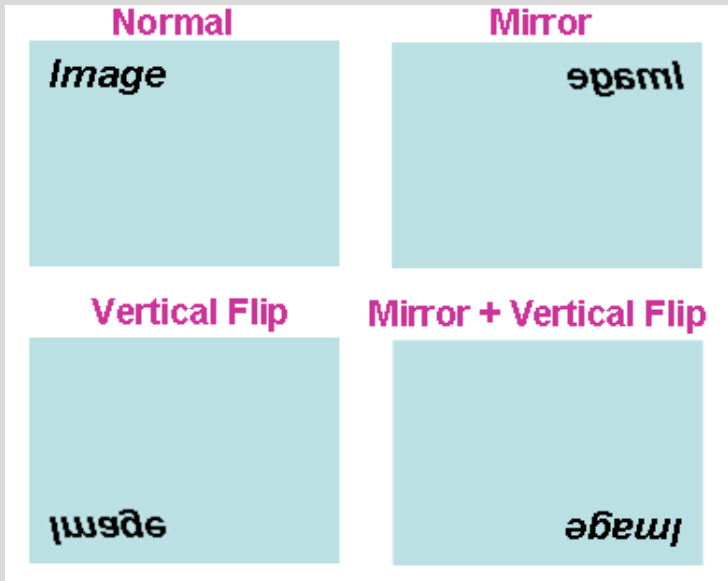
(0 ~ 86400)

De-Noise

None

**Rotation**

Turn the “**Mirror**” and “**Vertical Flip**” On or OFF. The image will be overturned as below.



The diagram illustrates four image transformation options arranged in a 2x2 grid. Each option is represented by a light blue square with a label above it and the word 'Image' inside. The labels are in pink text. The top-left square is labeled 'Normal' and contains the word 'Image' in black. The top-right square is labeled 'Mirror' and contains the word 'Image' in black, mirrored horizontally. The bottom-left square is labeled 'Vertical Flip' and contains the word 'Image' in black, rotated 180 degrees. The bottom-right square is labeled 'Mirror + Vertical Flip' and contains the word 'Image' in black, mirrored horizontally and rotated 180 degrees.

Normal	Mirror
Image	Image
Vertical Flip	Mirror + Vertical Flip
Image	Image

## White Balance

Auto: will adjust the white balance automatically.

	Hold: will hold the white balance.
<b>Exposure Control</b>	<p>Auto: will adjust the internal gain automatically.</p> <p>Hold: will hold the internal gain.</p>
<b>Maximum Exposure Time</b>	User can limit the maximum exposure time of the image sensor. The larger value means longer exposure time possibly.
<b>Color Level</b>	Large value will be colorful.
<b>Brightness</b>	Large value will brighten camera.
<b>Sharpness</b>	Large value will sharpen camera.
<b>Contrast</b>	Large value will contrast camera heavily.
<b>White-Light LED</b>	<p>User can turn On, Off, Auto or Schedule of the built-in White-light LEDs. This function is very useful under low illumination environment even 0 Lux.</p> <p>In case the Auto mode is selected, user needs to specify 3 parameters in advance:</p> <p>LED ON Threshold (0~10000): this value set the threshold to turn on white-light LED. It should be lower or equal to LED OFF Threshold.</p> <p>LED OFF Threshold (0~10000): this value set the threshold to turn off white-light LED. It should be higher or equal to LED ON Threshold.</p> <p>Delay Time: The delay time between LED ON/OFF switching.</p> <p>Note that Current Value is the current luminance from the captured video. It's a useful reference to set LED ON/OFF Threshold.</p>
<b>De-Noise</b>	De-Noise can remove or lower unwanted noise and preserve fine details and edges.
<b>Default Settings</b>	Restore to factory image settings.

## 3.7 System

Use this menu to perform the principal settings of Internet Camera.

### 3.7.1. System

**System** | Date & Time | Maintenance

Device Title:  (0 ~ 30 Digits)

Software Version:

Network LED: ☒ Enable ☐ Disable

Power LED (Wireless LED): ☒ Enable ☐ Disable

Log:

```
Nov 8 20:15:01 ICA-HM100W syslog.info syslogd started: BusyBox v1.1.3
Nov 8 20:15:01 ICA-HM100W user.notice kernel: klogd started: BusyBox v1.1.3 (2010.0
Nov 8 20:15:01 ICA-HM100W user.notice kernel: Linux version 2.6.14 (richard@richard
Nov 8 20:15:01 ICA-HM100W user.warn kernel: CPU: FA6261d(wb) [66016261] revision 1
Nov 8 20:15:01 ICA-HM100W user.warn kernel: Machine: Faraday GM8180
Nov 8 20:15:01 ICA-HM100W user.warn kernel: Memory policy: ECC disabled, Data cache
Nov 8 20:15:01 ICA-HM100W user.debug kernel: On node 0 totalpages: 32768
Nov 8 20:15:01 ICA-HM100W user.debug kernel: DMA zone: 24064 pages, LIFO batch:7
Nov 8 20:15:01 ICA-HM100W user.debug kernel: Normal zone: 0 pages, LIFO batch:1
Nov 8 20:15:01 ICA-HM100W user.debug kernel: HighMem zone: 8704 pages, LIFO batch
Nov 8 20:15:01 ICA-HM100W user.warn kernel: CPU0: D VIPT write-back cache
Nov 8 20:15:01 ICA-HM100W user.warn kernel: CPU0: I cache: 32768 bytes, associativi
```

<b>Device title</b>	You can enter the name of this unit here. It's very useful to identify the specific device from multiple units.
---------------------	---

<b>Software version</b>	This information shows the software version in the device.
-------------------------	--

<b>Network LED</b>	Switch the LED light of this Internet Camera on or off, that Network LEDs will stop working, in case you don't want other people know the camera is transferring data.
--------------------	--

<b>Power LED</b>	Switch the LED light of this Internet Camera on or off.
------------------	---

<b>Log</b>	User can check the system log information of the device, including the Main Info, Appended Info, Operator IP, and so on ...
------------	---

<b>Reload</b>	Click this button; user can refresh the log information of the device.
---------------	--

### 3.7.2. Date & Time

User can setup the time setting of Internet Camera, make it synchronized with PC or remote NTP server. Also, you may select the correct time zone of your country.

System
Date & Time
Maintenance

Server Date & Time

2007-11-08 23:59:55

PC Time

2010-2-26 17:41:1

Adjust

☒ Synchronize with PC
☐ Manual setting : Date : 2007-8-20 Time : 00:00:00
☐ Synchronize with NTP

NTP Server

time.stdtime.gov.tw Test

NTP Sync. Interval

24 hour

Timezone

GMT (Dublin, Lisbon, London, Reykjavik)

Daylight Saving

☒ Disable
☐ Enable

Daylight Saving StartTime

Jan 1 00:00:00

Daylight Saving StopTime

Jan 1 00:00:00

Daylight Saving Offset

01:00:00

<b>Server Date &amp; Time</b>	Displays the date and time of the device	
<b>PC Time</b>	Displays the date and time of the connected PC	
<b>Adjust</b>	<b>Synchronize with PC:</b>	Click this option to enable time synchronization with PC time
	<b>Manual setting:</b>	Click this option to set time and date manually
	<b>Synchronize with NTP:</b>	Click this option if you want to synchronize the device's date and time with those of time server called NTP server (Network Time Protocol)
<b>NTP server name</b>	Type the host name or IP address or domain name of the NTP server.	
<b>NTP sync. Interval</b>	Select an interval between 1 and 23 hours at which you want to adjust the device's time referring to NTP server	
<b>Time zone</b>	Set the time difference from Greenwich Mean Time in the area where the device is installed.	
<b>Daylight saving</b>	Check this item to enable daylight saving adjustment.	
<b>Daylight Saving Start Time</b>	Sets up the date and time of daylight saving start time.	

<b>Daylight Saving Stop Time</b>	Sets up the date and time of daylight saving stop time.
----------------------------------	---

<b>Daylight Saving Offset</b>	Sets up the date of daylight saving offset.
-------------------------------	---

### 3.7.3. Maintenance

<b>Default Settings (Include the network setting)</b>	Recall the device hard factory default settings. Note that click this button will reset all device's parameters to the factory settings (including the IP address).
---	---

<b>Default Settings (Except the network setting)</b>	The unit is restarted and most current settings are reset to factory default values. This action will not reset the network setting.
--	--

<b>Backup Setting</b>	To take a backup of all of the parameters, click this button. If necessary, it will then be possible to return to the previous settings, if settings are changed and there is unexpected behavior.
-----------------------	--

<b>Restore Setting</b>	Click the " <b>Browse</b> " button to locate the saved backup file and then click the "Restore Setting" button. The settings will be restored to the previous configuration.
------------------------	--

<b>Firmware upgrade</b>	The device supports new firmware upgrade.
<ol style="list-style-type: none"> <li>1. Close all other application programs which are not necessary for firmware update.</li> </ol>	



2. Make sure that only you access this device at this moment
3. Disable Motion Detection function.
4. Select "**Firmware name**"
5. Select the Firmware binary file.

**Note :**

*That it must make sure that the Firmware only applies to this device, once update, it will be burned into FLASH ROM of system.*

6. Once the firmware file was selected, select "**Upgrade**".
7. The upgrade progress information will be displayed on the screen.
8. A message will be shown while the firmware upgraded. Once the upgrading process completed, the device will reboot the system automatically.
9. Please wait for 80 seconds, and then you can use PLANET IPWizard to search the device again.

**Warning !!!**

The download firmware procedure cannot be interrupted. If the power and/or network connection are broken during the download procedure, it might possibly cause serious damage to the device.

Please be aware that you should not turn off the power during updating the firmware and wait for finish message.

Furthermore, do not try to upgrade new firmware if it's not necessary.

**System Restart**

The device is restarted without changing any of the settings.

## 3.8 Video

This device provides 2 modes of video profile. The first one is Mega-pixel mode which supports video resolution up to Mega-pixel. However the maximum frame rate of this mode is up to 15fps only. The second one is VGA mode which supports video resolution up to VGA but frame rate can be up to 30fps. User only can select either Mega-pixel or VGA mode to operate the camera. Switching Mega-pixel and VGA, the device will take time to reboot system.

### 3.8.1. Common

Common Video Profile

Text Overlay Setting

☐ Include Date

☒ Predefined

☐ Own  (0 ~ 12 Digits)

☐ Include Time

☒ Predefined

☐ Own  (0 ~ 12 Digits)

☐ Include Text  (0 ~ 20 Digits)

Video Profile

☐ VGA Multi-Profile ☒ Mega Multi-Profile

#### Text Overlay Setting

There are some important information can be embedded into image, including date, time, and/or text.

#### Video Profile

User can only choose either VGA Multi-profile or Mega Multi-profile mode. VGA Multi-profile mode can serve H.264, MPEG4, and JPEG streams up to VGA resolution simultaneously. On the other hand, Mega-pixel mode, in addition to VGA resolution, it can serve H.264/Mega and JPEG/Mega two more streams simultaneously.

### 3.8.2. Video Profile

User can modify the detail parameter for each video profiles in this page.

Common
Video Profile

Video Profile	Rate Control	Quality	Bitrate	Max Frame Rate	GOP Control	ROI
h264 / sxga	vbr	75	3072	15	30	no
h264 / vga	vbr	75	2048	15	30	no
h264 / qvga	vbr	90	1024	15	30	no
h264 / qqvga	vbr	90	256	15	30	no
mjpeg / vga	vbr	75	2048	15	30	no
mjpeg / qvga	vbr	90	1024	15	30	no
mjpeg / qqvga	vbr	90	512	15	30	no
mjpeg / sxga	vbr	90	4096	5	1	no
mjpeg / vga	vbr	90	2048	5	1	no
mjpeg / qvga	vbr	90	1024	15	1	no
mjpeg / qqvga	vbr	90	512	15	1	no
ROI0 h264 / vga	vbr	90	2048	15	30	yes
ROI1 h264 / qvga	vbr	90	1024	15	30	yes

Video Type

h264

Resolution

sxga

Rate Control

☒ Quality 75
☐ Bitrate 3072
K bps 384 ~ 4096

Max Frame Rate

15

GOP Control

30

**Video Type** Video codec of the selected video profile.

**Resolution** Resolution of the selected video profile.

**Rate Control** Defines the rate control method of this profile. There are two options: Constant Bit Rate (CBR) or Variable Bit Rate (VBR). For CBR, the video bit rate is between low to high bandwidth based on different resolutions. User can set the desired bit rate to match the limitation of bandwidth. For VBR, user should choose the quality level to set the video quality rather than bit rate. The quality level is between 1 and 100. The higher value can reach the better quality but of course will consume higher bandwidth.

**Max Frame Rate** Defines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second. User can set the desired max frame rate versus video quality under the limited bandwidth.

**GOP Control** Defines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame every 30 frames.

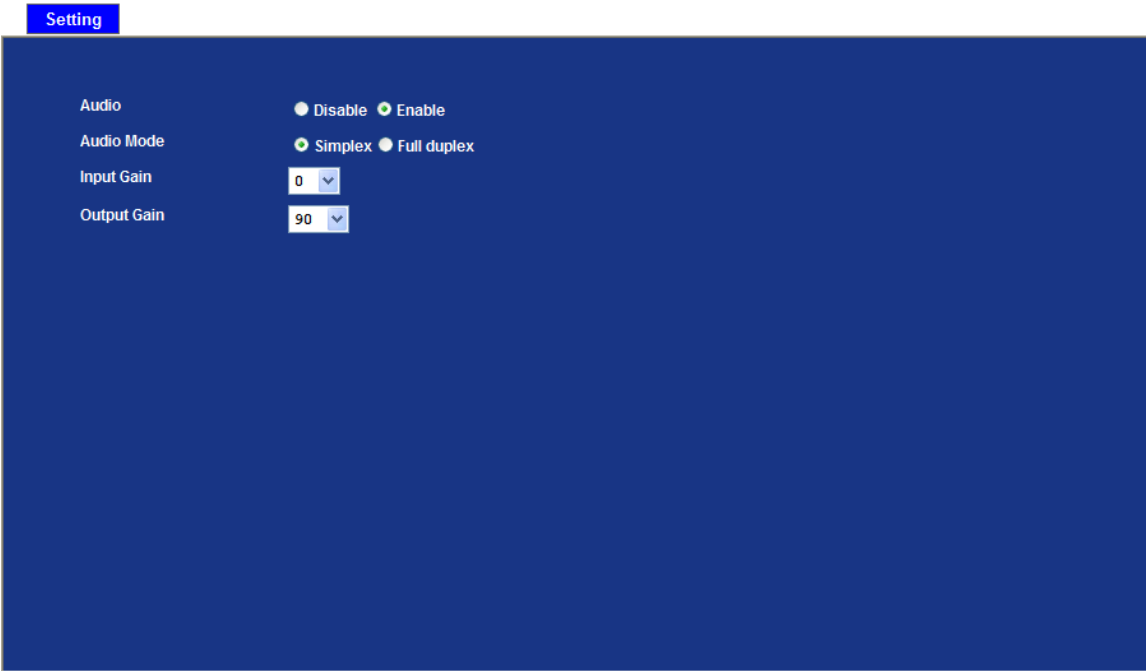
**Multicast Video** IP address and port for multicast video streaming of the selected profile.

**Multicast Audio** IP address and port for multicast audio streaming of the selected

profile.

**Always Enable Multicast** Multicast streaming is always enabled or by request.

### 3.9 Audio Configuration



<b>Audio</b>	To enable or disable audio function.
<b>Audio Mode:</b>	To select Simplex or Full duplex (2-way audio) mode.
<b>Input Gain:</b>	To adjust gain of input audio.
<b>Output Gain:</b>	To adjust gain of output audio.

## 3.10 User Privilege Access Configuration

Use this menu to set the user names and password of the Administrator and up to 10 users, and access right of each user.

**Setting**

Viewer Login      ☒ Anonymous   ☐ Only users in database   **Save**

User Name	Access Right	PTZ Control
admin	administrator	yes

User List	
User Name	<input type="text"/> (1 ~ 20 Digits)
Password	<input type="password"/> (0 ~ 20 Digits)
Verify Password	<input type="password"/> (0 ~ 20 Digits)
Access Right	<input type="radio"/> Administrator <input checked="" type="radio"/> Viewer
PTZ Control	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<b>Add</b> <b>Modify</b> <b>Deletes</b>	

### Viewer login

Select “Anonymous” to allow any one viewing the video once connected. Otherwise, only users in database can view the video after login.

### Access right

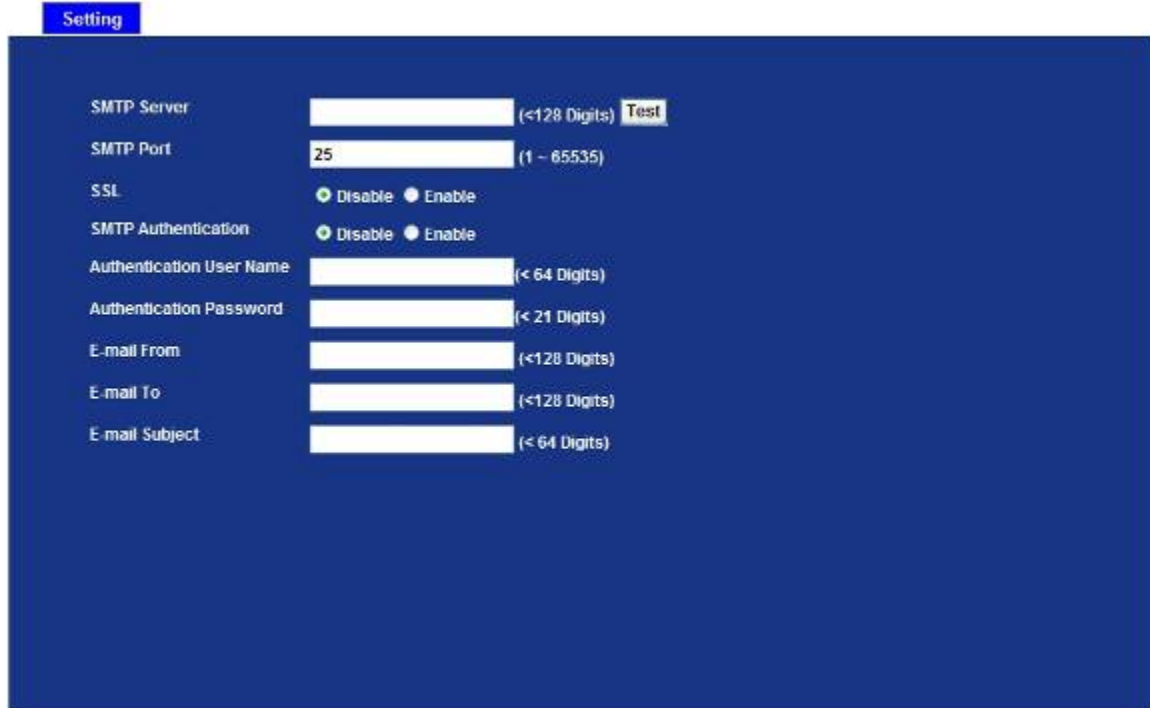
Administrator can access every function in this device. However, Viewers only can view the video and access limited function.

### Add, update, and remove of Users account

Manage the user's account of viewer user.

## 3.11 E-Mail Configuration

You may setup SMTP mail parameters for further operation of Event Schedule. That's, if users want to send the alarm message out, it will need to configure parameters here and also add at least one event schedule to enable event triggering.



<b>SMTP Server</b>	Type the SMTP server name or the IP address of the SMTP server.
<b>Test</b>	Send a test mail to mail server to check this account is available or not.
<b>SMTP Port</b>	Set port number of SMTP service.
<b>SMTP Authentication</b>	Select the authentication required when you send an e-mail. <b>Disable:</b> If no authentication is required when an e-mail is send. <b>Enable:</b> If authentication is required when an e-mail is sent.
<b>Authentication User Name</b>	Type the user name for the SMTP server if Authentication is Enable.
<b>Authentication Password</b>	Type the password for the SMTP server if Authentication is Enable.
<b>E-mail From</b>	Type the sender's E-mail address. This address is used for reply e-mails.
<b>E-mail To</b>	Type the receiver's e-mail address.
<b>E-mail Subject</b>	Type the subject/title of the e-mail.

## 3.12 Object Detection

Use this menu to specify motion detection window 1 to window 4 and set the conditions for detection while observing a captured image.



### Add and Del

To add or delete the motion windows. User can specify up to 4 Included and/or Excluded windows to monitor the video captured by this device. By dragging mouse on the image, you can change the position and size of the selected motion window accordingly.

### Included or Excluded Window

These windows can be specified as Included or Excluded type.

#### Included:

Windows target specific areas within the whole video image

#### Excluded:

Windows define areas within an Include window that should be ignored (areas outside Include windows are automatically ignored)

### Name

Name of the specified motion window.

### Object Size

Defines the object size of motion detection. The higher object size will only larger objects trigger motion detection. The lower object size will even small objects trigger motion detection too. Generally speaking, the smaller size will be easier to trigger event.

### Sensitivity

Defines the sensitivity value of motion detection. The higher value will be more sensitivity.

### 3.13 Storage Configuration

This page shows the status of attached SD card. You may setup related parameters to manage the attached SD card also.

SD Card

Disk ID

SD\_DISK

Mount

Unmount

Status

Free space

897224 bytes ( 87% )

Reload

Format

Total size

1021952 bytes

Status

OK

Full

no

Readonly

no

☒ Enable automatic disk cleanup

Remove recordings older than:

1

day(s)

Remove oldest recordings when disk is:

95

% full

☐ Lock disk

Enable automatic disk cleanup	Delete old recorded files while the conditions are reached as below.
Remove recordings order than	Delete old files by days.
Remove oldest recordings when disk is	Delete old files by left capacity.



## 3.14 Recording List

This page shows the files list information. User may play or delete the selected file.

Recording List

Date	File	Trigger by	Size
20091209	K1K1_20091209_093653.avi	schedule	1044 KB
20091208	K1K1_20091209_093723.avi	schedule	1044 KB
20091209	K1K1_20091209_093753.avi	schedule	1044 KB
	K1K1_20091209_093822.avi	schedule	1036 KB
	K1K1_20091209_093853.avi	schedule	1040 KB
	K1K1_20091209_093922.avi	schedule	1036 KB
	K1K1_20091209_093952.avi	schedule	1048 KB
	K1K1_20091209_094021.avi	schedule	1044 KB
	K1K1_20091209_094051.avi	schedule	1048 KB
	K1K1_20091209_094120.avi	schedule	1040 KB
	K1K1_20091209_094151.avi	schedule	1036 KB
	K1K1_20091209_094220.avi	schedule	1036 KB
	K1K1_20091209_094250.avi	schedule	1044 KB
	K1K1_20091209_094320.avi	schedule	1048 KB
	K1K1_20091209_094351.avi	schedule	1044 KB
	K1K1_20091209_094420.avi	schedule	1044 KB
	K1K1_20091209_094450.avi	schedule	1040 KB
	K1K1_20091209_094520.avi	schedule	1048 KB
	K1K1_20091209_094550.avi	schedule	1052 KB
	K1K1_20091209_094620.avi	schedule	1044 KB

Reload

Play Remove

## 3.15 Event Server Configuration

### 3.15.1. FTP Server

You may setup FTP parameters for further operation of Event Schedule. That's, if users want to send the alarm message to an FTP server, it will need to configure parameters here and also add at least one event schedule to enable event triggering as SMTP.

Name	FTP Server	FTP Port	FTP Path

Name	<input type="text"/>	(<21 Digits)
FTP Server	<input type="text"/>	(<64 Digits) <b>Test</b>
FTP Login Name	<input type="text"/>	(<21 Digits)
FTP Login Password	<input type="text"/>	(<21 Digits)
FTP Port	<input type="text" value="21"/>	(1 - 65535)
FTP Path	<input type="text"/>	(<64 Digits)
FTP Passive Mode	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	

<b>Name</b>	User can specify multiple FTP paths as wish. Therefore, user needs to specify a name for each FTP setting.
<b>FTP Server</b>	Type the server name or the IP address of the FTP server.
<b>Test</b>	Check the FTP server whether this account is available or not.
<b>FTP Login name</b>	Type the user name for the FTP server.
<b>FTP Login Password</b>	Type the password for the FTP server.
<b>FTP Port</b>	Set port number of FTP service.
<b>FTP Path</b>	Set working directory path of FTP server.
<b>FTP Passive Mode</b>	Select passive or active mode connecting to FTP server.

### 3.15.2. TCP Server

In addition to send video file to FTP server, the device also can send event message to specified TCP server.

<b>Name</b>	User can specify multiple TCP servers as wish. Therefore, user needs to specify a name for each TCP server setting.
<b>TCP Server</b>	Type the server name or the IP address of the TCP server.
<b>TCP Port</b>	Set port number of TCP server.

### 3.15.3. HTTP Server

The device also can send event message to specified HTTP server.

Name	EHTTP Server	Proxy Address

Name	<input type="text"/> (<21 Digits)
URL	<input type="text" value="http://"/> (<60 Digits) <input type="button" value="Test"/>
HTTP Login Name	<input type="text"/> (<21 Digits)
HTTP Login Password	<input type="text"/> (<21 Digits)
Proxy Address	<input type="text"/>
Proxy Login Name	<input type="text"/> (<21 Digits)
Proxy Login Password	<input type="text"/> (<21 Digits)
Proxy Port	<input type="text"/> (1 - 65535)

<b>Name</b>	User can specify multiple HTTP servers as wish. Therefore, user needs to specify a name for each HTTP server setting.
<b>URL</b>	Type the server name or the IP address of the HTTP server.
<b>Test</b>	Check the HTTP server whether it is available or not.
<b>HTTP Login name</b>	Type the user name for the HTTP server.
<b>HTTP Login Password</b>	Type the password for the HTTP server.
<b>Proxy Address</b>	Type the server name or the IP address of the HTTP Proxy.
<b>Proxy Login name</b>	Type the user name for the HTTP Proxy.
<b>Proxy Login Password</b>	Type the password for the HTTP Proxy.
<b>Proxy Port</b>	Set port number of Proxy.

#### 3.15.4. SAMBA Server

The device also can send video stream to specified SAMBA server. Most of the time, the SAMBA server will be another PC or NAS server.

FTP Server TCP Server HTTP Server **SAMBA Server**

Name	SAMBA Server	SAMBA Path
Name	<input type="text"/>	(<21 Digits)
SAMBA Server	<input type="text"/> <b>Test</b>	
SAMBA Login Name	<input type="text"/>	(<21 Digits)
SAMBA Login Password	<input type="text"/>	(<21 Digits)
SAMBA Path	<input type="text"/>	(<64 Digits)

<b>Name</b>	User can specify multiple HTTP servers as wish. Therefore, user needs to specify a name for each HTTP server setting.
-------------	---

<b>SAMBA Server</b>	Type the server name or the IP address of the SAMBA server.
---------------------	---

<b>Test</b>	Check the SAMBA server whether this account is available or not.
-------------	--

<b>SAMBA Login name</b>	Type the user name for the SAMBA server.
-------------------------	--

<b>SAMBA Login Password</b>	Type the password for the SAMBA server.
-----------------------------	---

<b>SAMBA Path</b>	Set working directory path of SAMBA server.
-------------------	---

## 3.16 Event Schedule Configuration

This menu is used to specify the schedule of Events and activate the some actions provided by this device.

<b>Name</b>	Name of the Event or Schedule.
<b>Enable</b>	Enable or disable this Event or Schedule.
<b>Type</b>	Schedule start with Event trigger or Schedule trigger.
<b>Enable Time</b>	Define the feasible time slot.
<b>Trigger by</b>	Select the triggered sources with event trigger.
<b>Action</b>	Define the actions once event triggered.

### Example1.

The screenshot shows a software interface with two tabs: 'Setting' and 'Record'. The 'Setting' tab is active. It contains a table with columns: Name, Enable, Type, Weekday, Start, Duration, Trigger by, and Action. The first row is 'Send to FTP', which is enabled, of type 'Event', with weekday '1111111', start '0:0', duration '24:0', trigger by 'x,MO', and action 'FTP'. Below the table, the configuration for 'Send to FTP' is shown in detail. The 'Name' field is 'Send\_to\_FTP'. The 'Enable' field has radio buttons for 'Yes' (selected) and 'No'. The 'Type' field has radio buttons for 'Event Trigger' (selected) and 'Schedule Trigger, Interval 60 (Seconds)'. The 'Enable Time' field has checkboxes for all days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) which are all checked. The 'Start from' field is '0' and the 'Duration' field is '24' (max 168:00 hours). The 'Trigger by' field has checkboxes for 'Sensor Active' and 'Motion Area Door 1', both of which are checked. The 'Action' field has several options: 'Go', 'Preset' (selected), 'Tour', 'Voice Alert, Duration' (empty), 'Alarm Out, Duration' (empty), 'Send FTP Internet\_FTP' (checked), 'Send TCP', 'Send HTTP', 'Send E-Mail', and 'Send SD'.

Name	Enable	Type	Weekday	Start	Duration	Trigger by	Action
Send to FTP	yes	Event	1111111	0:0	24:0	x,MO	FTP

Name: Send\_to\_FTP

Enable: ☒ Yes ☐ No

Type: ☒ Event Trigger ☐ Schedule Trigger, Interval 60 (Seconds)

Enable Time: ☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat  
Start from 0 0, Duration 24 0 (max 168:00 hours)

Trigger by: ☒ Sensor Active ☒ Motion Area Door 1

Action: ☐ Go ☒ Preset ☐ Tour ☐ Voice Alert, Duration (Seconds) ☐ Alarm Out, Duration (Seconds) ☒ Send FTP Internet\_FTP ☐ Send TCP ☐ Send HTTP ☐ Send E-Mail ☐ Send SD

Send file to FTP server by motion triggered always:

1. Select event trigger
2. Enable time: start from 00:00 to 24:00 every day
3. Trigger by: Motion Area (Added in Object Detection page)
4. Action : Send FTP (Add in Event Server -> FTP Server page)

## Example2.

Setting		Record					
Name	Enable	Type	Weekday	Start	Duration	Trigger by	Action
Send_to_E-Mail	yes	Event	1111111	0:0	24:0	x,ME	SMTP

Name	Send_to_E-Mail
Enable	<input checked="" type="radio"/> Yes <input type="radio"/> No
Type	<input checked="" type="radio"/> Event Trigger <input type="radio"/> Schedule Trigger, Interval 60 (Seconds)
Enable Time	<input checked="" type="checkbox"/> Sun <input checked="" type="checkbox"/> Mon <input checked="" type="checkbox"/> Tue <input checked="" type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input checked="" type="checkbox"/> Fri <input checked="" type="checkbox"/> Sat Start from 0:0, Duration 24:0 (max 168:00 hours)
Trigger by	<input type="checkbox"/> Sensor Active <input checked="" type="checkbox"/> Motion Area Door 1
Action	<input type="checkbox"/> Go <input checked="" type="radio"/> Preset <input type="radio"/> Tour <input type="checkbox"/> Voice Alert, Duration (Seconds) <input type="checkbox"/> Alarm Out, Duration (Seconds) <input type="checkbox"/> Send FTP Internet_FTP <input type="checkbox"/> Send TCP <input type="checkbox"/> Send HTTP <input checked="" type="checkbox"/> Send E-Mail To email address admin@planet.com.lw Subject: Motion Detected!

Send file to E-Mail server by motion triggered from Friday 18:00 to Saturday 06:00

1. Select event trigger.
2. Enable time: start from Friday 18:00 and keep work in 12 hours, so it will stop on Saturday 06:00.
3. Trigger by : Motion Area (Added in Object Detection page)
4. Action : Send e-mail (Add in E-Mail page)
  - i. To email address: You need to input the receiver email address.
  - ii. Subject: You could specify the email subject.
  - iii. Message: You could specify the email content.



### Example3.

Name	Enable	Type	Weekday	Start	Duration	Trigger by	Action
Trigger_Voice_Alert	Yes	Event	1111100	18:00	6:00	x,NO	VOICE

**Name:** Trigger\_Voice\_Alert

**Enable:** ☒ Yes ☐ No

**Type:** ☒ Event Trigger ☐ Schedule Trigger, Interval  (Seconds)

**Enable Time:** ☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☐ Fri ☐ Sat  
 Start from  :  , Duration  :  ( max 168:00 hours )

**Trigger by:** ☐ Sensor  ☒ Motion Area

**Action:** ☐ Go ☒ Preset ☐ Tour  
☒ Voice Alert, Duration  (Seconds)  
☐ Alarm Out, Duration  (Seconds)  
☐ Send FTP   
☐ Send TCP   
☐ Send HTTP   
☐ Send E-Mail  
☐ Send SD

Enable Voice Alert every 10-minute during 18:00 to 24:00 from Monday to Friday.

1. Type: Select schedule trigger and interval is 10-minute.
2. Enable Time: Select Monday to Friday, and set start time from 18:00 and keep work in 6 hours.
3. Trigger by: You do not need to choose it, because this will be triggered every minute.
4. Action: Voice Alert.

## 3.17 Record Configuration

User can choose the type of record file for event or schedule application.

The screenshot shows a software window titled 'Record Configuration'. At the top, there are two tabs: 'Setting' and 'Record'. The 'Record' tab is selected. Below the tabs, there are three configuration options:

- Record File Type:** Two radio buttons are present. 'AVI' is selected (indicated by a filled circle), and 'JPEG' is unselected (indicated by an empty circle).
- Record File Prefix:** A text input field is shown, followed by the text '(0 - 20 Digits)'.
- JPEG Picture Numbers:** Two radio buttons are present. 'Auto' is selected (indicated by a filled circle), and 'One' is unselected (indicated by an empty circle).

<b>Record File Type</b>	Choose AVI or JPEG file format.
-------------------------	---------------------------------

<b>Record File Prefix</b>	Define the prefix of recorded filename.
---------------------------	---

<b>JPEG Picture Numbers</b>	Define the picture capture method.
-----------------------------	------------------------------------

## Appendix A: PING IP Address

The PING (stands for Packet Internet Groper) command is used to detect whether a specific IP address is accessible by sending a packet to the specific address and waiting for a reply. It's also a very useful tool to confirm Internet Camera installed or if the IP address conflicts with any other devices over the network.

If you want to make sure the IP address of Internet Camera, utilize the PING command as follows:

- Start a DOS window.
- Type ping x.x.x.x, where x.x.x.x is the IP address of the Internet Camera.

The replies, as illustrated below, will provide an explanation to the problem.



```
Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

D:\Documents and Settings\Administrator>PING 192.168.0.20

Pinging 192.168.0.20 with 32 bytes of data:

Reply from 192.168.0.20: bytes=32 time=1ms TTL=64
Reply from 192.168.0.20: bytes=32 time<1ms TTL=64
Reply from 192.168.0.20: bytes=32 time<1ms TTL=64
Reply from 192.168.0.20: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

D:\Documents and Settings\Administrator>
```

If you want to detect any other devices conflicts with the IP address of Internet Camera, also can utilize the PING command but you must disconnect the Internet Camera from the network first.

## Appendix B: 3GPP Access

To use the 3GPP function, in addition to previous section, you might need more information or configuration to make this function work.

---

**Note** *That to use the 3GPP function, it strongly recommends to install the Networked Device with a public and fixed IP address without any firewall protection.*

---

### RTSP Port:

Port 554 is the default for RTSP service. However, sometimes, some service providers change this port number for some reasons. If so, user needs to change this port accordingly.

### Dialing procedure:

1. Choose a verified player (PacketVideo or Realplayer currently)
2. Use the following URL to access:

**rtsp://host/mpeg4/media.3gp**

Where *host* is the host name or IP address of the camera.

### Compatible 3G mobile phone:

Please contact your dealer to get the approved list of compatible 3G phone.

---

**Note** *Besides IP camera and 3G mobile phone. You will also need to make sure the ISP and telephone company has provided the 3GPP service to you.*

---

## Appendix C: Bandwidth and Video Size Estimation

The frame rate of video transmitted from the Internet Camera depends on connection bandwidth between client and server, video resolution, codec type, and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements for your Internet Camera.

The required bandwidth depends on content of video source. The slow motion video will produce smaller bit rate generally and fast motion will produce higher bit rate vice versa. Actual results generated by the Internet Camera may be varying.

Image Resolution	Average range of data sizes for M-JPEG mode	Average bit rate for MPEG-4 mode	Average bit rate for H.264 mode
160 x 120 (QQVGA)	3 ~ 6k byte per frame	64kbps~256kbps @ 30fps	32kbps~192kbps @ 30fps
320 x 240 (QVGA)	8 ~ 20k byte per frame	256kbps~768kbps @ 30fps	192kbps~512kbps @ 30fps
640 x 480 (VGA)	20 ~ 50K byte per frame	512kbps~2048kbps @ 30fps	384kbps~1536kbps @ 30fps
1280x1024 (SXGA)	100 ~ 200k byte per frame	NA	512kbps~3076kbps @ 15fps

---

**NOTE:** Audio streaming also takes bandwidth around 5 kbps to 64kbps. Most xDSL/Cable modem upload speeds may not even reach up to 128 kbps. Thus, you may not be able to receive any video while streaming audio on a 128 kbps or lower connection. Even though the upload speed is more than 128kbps, for optimal video performance, disabling audio streaming will get better video performance.

---

# Appendix D: DDNS Application

## 1. Preface

If you have a Cable modem or xDSL, this is a great way to host your own Networked Device or other TCP/IP Service. Get your own domain like [www.yourname.com](http://www.yourname.com), [www.yourname.com.tw](http://www.yourname.com.tw) etc. (Note: This domain must be registered with Internic via registration authorities such as Network Solutions, DirectNIC, Register.com etc). Your domain name's dynamic IP address is automatically tracked by a DDNS server.

Host your own Networked Device and much more no matter what your computer's IP address may be and even if you have dialup, DSL or cable modem internet connection where your computer's IP address changes all the time!! DDNS service supports all top level domain names including but not limited to .com, .net, .org, .to, .uk etc.

## 2. Ethernet Network Environment

Normally, DDNS service is only necessary for the users that could only obtain dynamic IP addresses. As to the users that could obtain the static valid IP address, they do not usually have to apply the DDNS service. Before we decide if DDNS is necessary for the users, we have to check what kind of Ethernet network environment we have to install our Networked Device on.

### (1) Environment of Fixed Valid IP Network

If users could obtain valid IP addresses, they could save the effort to apply DDNS service. Because the IP address in this environment is fixed, users could input the IP address or domain name of demo site directly in the IE browser.

### (2) Environment of Dynamic IP Network

If users is under an environment of dynamic IP network (Dial-up xDSL), they have to apply a domain name in advance. Then apply DDNS service. Finally setup the necessary information of DDNS and PPPoE of the Networked Device in order to let the outside administrator be able to access through internet.

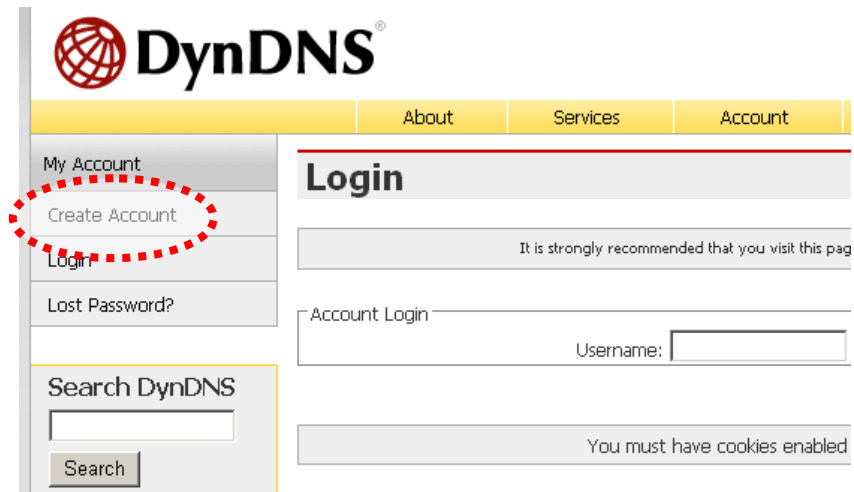
## 3. Application Steps – DDNS & Domain Name

(1). Visit the following web site: <http://www.dyndns.org/>

(2). Click “Account”



(3). After the columns show up at the left side, click “Create Account”.



**DynDNS**

About Services Account

My Account  
[Create Account](#)  
[Login](#)  
[Lost Password?](#)

Search DynDNS

## Login

It is strongly recommended that you visit this page

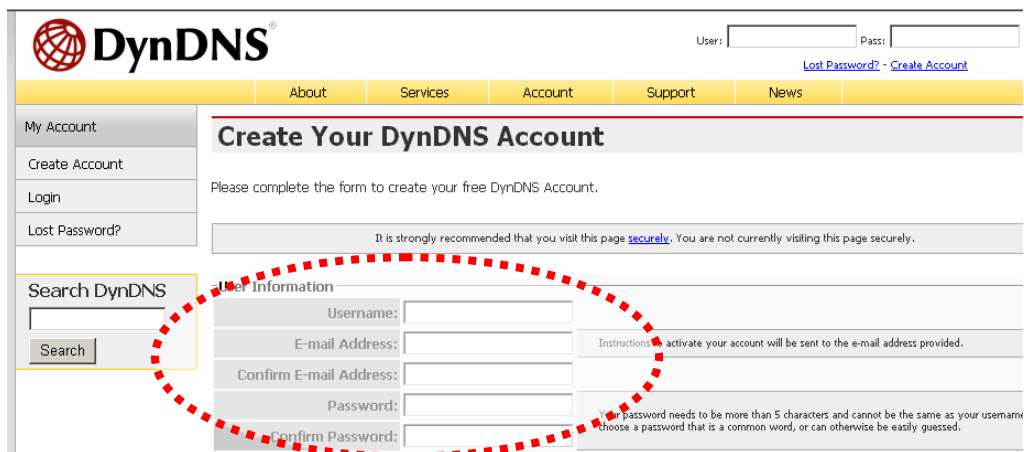
Account Login

Username:

You must have cookies enabled

(4). Fill the application agreement and necessary information.

- Username
- E-mail address and confirmation
- Password and confirmation
- Submit all the input information and finish creating an account



**DynDNS**

User:  Pass:

[Lost Password?](#) - [Create Account](#)

About Services Account Support News

My Account  
[Create Account](#)  
[Login](#)  
[Lost Password?](#)

## Create Your DynDNS Account

Please complete the form to create your free DynDNS Account.

It is strongly recommended that you visit this page [securely](#). You are not currently visiting this page securely.

User Information

Username:

E-mail Address:  Instructions: activate your account will be sent to the e-mail address provided.

Confirm E-mail Address:

Password:  Your password needs to be more than 5 characters and cannot be the same as your username.

Confirm Password:  Choose a password that is a common word, or can otherwise be easily guessed.

Search DynDNS

### Terms of Service

Please read the acceptable use policy (AUP) and accept it prior to creating your account. Also acknowledge that you may only have one (1) free account, and that creation of multiple free accounts will result in the deletion of all of your accounts.

Policy Last Modified: February 6, 2006

#### 1. ACKNOWLEDGMENT AND ACCEPTANCE OF TERMS OF SERVICE

All services provided by Dynamic Network Services, Inc. ("DynDNS") are provided to you (the "Member") under the Terms and Conditions set forth in this Acceptable Use Policy ("AUP") and any other operating rules and policies set forth by DynDNS. The AUP comprises the entire agreement between the Member and DynDNS and supersedes all prior agreements between the parties regarding the subject matter contained herein. BY COMPLETING THE REGISTRATION PROCESS AND CLICKING THE "Accept" BUTTON, YOU ARE INDICATING YOUR AGREEMENT TO BE BOUND BY ALL OF THE TERMS AND CONDITIONS OF THE AUP.

#### 2. DESCRIPTION OF SERVICE

I agree to the AUP: ☐

I will only create one (1) free account: ☐

Click these two options

### Next Step

After you click "Create Account", we will create your account and send you an e-mail to the address you provided. Please follow the instructions in that e-mail to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent unwanted robots on our systems)

Create Account

- (5). Check your e-mail mailbox. There will be an e-mail with a title "Your DynDNS Account Information". Click the hyperlink address to confirm the DDNS service that you just applied. Then DDNS you applied activated.

Click to confirm

Your DynDNS Account 'kkkkk' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:

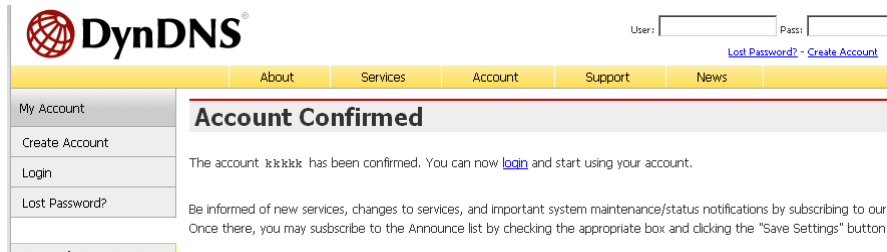
[https://www.dyndns.com/account/confirm/oDDGDYN75qTJk\\_ICGba6vQ](https://www.dyndns.com/account/confirm/oDDGDYN75qTJk_ICGba6vQ)

Our basic service offerings are free, but they are supported by our paid services. See <http://www.dyndns.com/services/> for a full listing of all of our available services.

If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.

Sincerely,  
The DynDNS Team



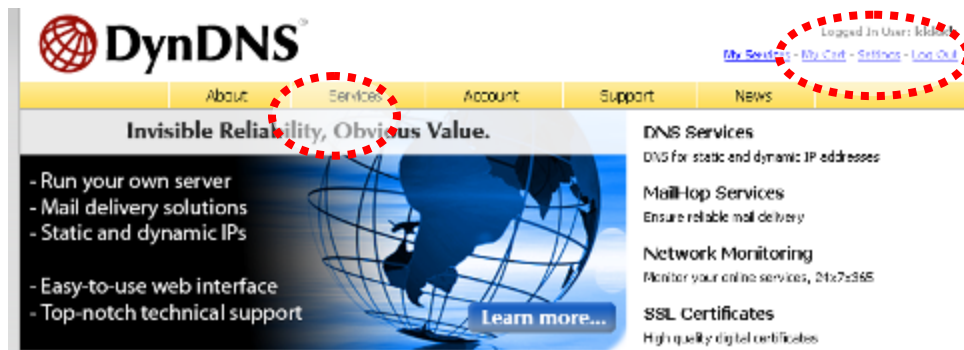


- (6). Enter the web page <http://www.dyndns.org/> again. Input your username and password that you just applied to login administration interface of DDNS server.



- (7). If the correct username and password are input, you can see the following picture at the top-right of the login page.

- (8). Click the "Services".



(9). Click the “[Dynamic DNS](#)”.

The screenshot shows the DynDNS website. The left sidebar contains a list of services: Services, DNS Services, Domain Registration, SSL Certificates, Mail Services, Network Monitoring, Web Redirection, Account Upgrades, Pricing, and My Cart. The main content area is titled 'Services' and lists various services provided by DynDNS. The 'DNS Services' section is highlighted, and the 'Dynamic DNS' link is circled in red.

(10). Click the “[Create Hosts](#)”.

The screenshot shows the 'Dynamic DNS' page. The text explains that the free Dynamic DNS service allows users to alias a dynamic IP address to a static hostname. The 'Actions' section on the right contains two buttons: 'Create Hosts' and 'Manage Hosts'. The 'Create Hosts' button is circled in red.

(11). We could create a domain name without any charge at this step. First, we input the host name. (No.1) Then we pick a domain that is easy to remember. Finally (No.2), click the “Add Host” to submit the domain name information. (No.3)

The screenshot shows the 'New Dynamic DNS Host' form. The form has four input fields: Hostname, IP Address, Enable Wildcard, and Mail Exchanger (optional). The 'Hostname' field is annotated with a red '1' and an arrow pointing to it. The 'IP Address' field is annotated with a red '2' and an arrow pointing to it. The 'Mail Exchanger (optional)' field is annotated with a red '3' and an arrow pointing to it. The 'Add Host' button is also annotated with a red '3' and an arrow pointing to it.

#### 4. Setup the DDNS and PPPoE of network device

At last, users have to enter the web page of Networked Device and setup the necessary information of DDNS and PPPoE after the application of DDNS service. Please check the user manual to access the DDNS and PPPoE pages. After saving the modification, restart the device. The external users could browse the Networked Device by the input of their domain name.

# Appendix E:

## Configure Port Forwarding Manually

The device can be used with a router. If the device wants to be accessed from the WAN, its IP address needs to be setup as fixed IP address, also the port forwarding or Virtual Server function of router needs to be setup. This device supports UPnP traversal function. Therefore, user could use this feature to configure port forwarding of NAT router first. However, if user needs to configure port forwarding manually, please follow the steps as below:

Manually installing the device with a router on your network is an easy 3-step procedure as following:

1. Assign a local/fixed IP address to your device
2. Access the Router with Your Web browser
3. Open/Configure Virtual Server Ports of Your Router

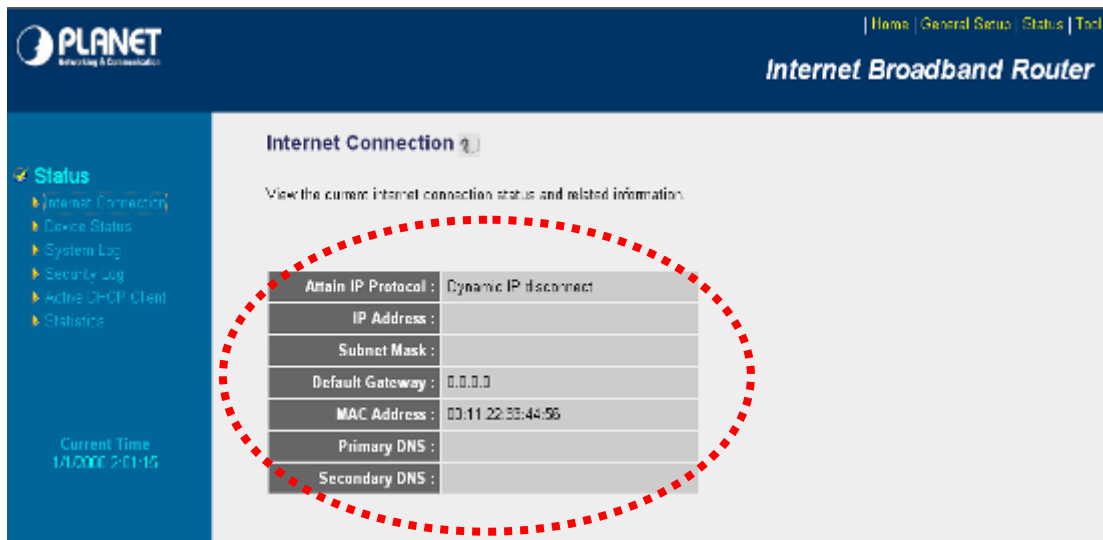
### 1. Assign a local/fixed IP address to your device

The device must be assigned a local and fixed IP Address that allows it to be recognized by the router. Manually setup the device with a fixed IP address, for example, *192.168.0.100*.

### 2. Access the Router with Your Web browser

The following steps generally apply to any router that you have on your network. The PLANET WNRT-620 is used as an example to clarify the configuration process. Configure the initial settings of the router by following the steps outlined in the router's **Quick Installation Guide**.

If you have cable or DSL service, you will most likely have a dynamically assigned WAN IP Address. 'Dynamic' means that your router's WAN IP address can change from time to time depending on your ISP. A dynamic WAN IP Address identifies your router on the public network and allows it to access the Internet. To find out what your router's WAN IP Address is, go to the **Status** screen on your router and locate the WAN information for your router. As shown on the following page the WAN IP Address will be listed. This will be the address that you will need to type in your web browser to view your camera over the Internet. Be sure to uncheck the **Reset IP address at next boot** button at the top of the screen after modifying the IP address. Failure to do so will reset the IP address when you restart your computer.



Your WAN IP Address will be listed here.

### 3. Open/set Virtual Server Ports to enable remote image viewing

The firewall security features built into the router and most routers prevent users from accessing the video from the device over the Internet. The router connects to the Internet over a series of numbered ports. The ports normally used by the device are blocked from access over the Internet. Therefore, these ports need to be made accessible over the Internet. This is accomplished using the **Virtual Server** function on the router. The Virtual Server ports used by the camera must be opened through the router for remote access to your camera.

Follow these steps to configure your router's Virtual Server settings

- Click **Enabled**.
- Enter a unique name for each entry.
- Select **Both** under **Protocol Type** (TCP and UDP)
- Enter your camera's local IP Address (e.g., **192.168.0.100**, for example) in the **Private IP** field.
- If you are using the default camera port settings, enter **80** into the **Public** and **Private Port** section, click **Add**.

A check mark appearing before the entry name will indicate that the ports are enabled.

---

**NOTE** Some ISPs block access to port 80. Be sure to check with your ISP so that you can open the appropriate ports accordingly. If your ISP does not pass traffic on port 80, you will need to change the port the camera uses from 80 to something else, such as 8080. Not all routers are the same, so refer to your user manual for specific instructions on how to open ports.

---

[Home](#) | [General Setup](#) | [Status](#) | [Tool](#)

Internet Broadband Router

- System
- WAN
- LAN
- Wireless
- QoS
- NAT
  - Port Forwarding
  - Virtual Server
  - Special applications
  - UPnP Setting
  - ALG Settings
- Firewall

### Virtual Server

You can configure the Broadband router as a Virtual Server so that remote users accessing services such as the Web or FTP at your local site via Public IP Addresses can be automatically redirected to local servers configured with Private IP Addresses. In other words, depending on the requested service (TCP/UDP) port number, the Broadband router redirects the external service request to the appropriate internal server (located at one of your LAN's Private IP Address).

☒ Enable Virtual Server

Private IP	Private Port	Type	Public Port	WAN Port	Comment
		Both		WAN1	

[Add](#) [Reset](#)

Current Virtual Server Table:

Private IP	Private Port	Type	Public Port	WAN Port	Comment	Select
192.168.0.100	80	TCP+UDP	80	WAN1	ICAHM210	<input type="checkbox"/>

[New Virtual Server](#)
[Delete All](#)
[Reset](#)

[Apply](#)
[Cancel](#)

Enter valid ports in the **Virtual Server** section of your router. Please make sure to check the box on this line to enable settings. Then the device can be access from WAN by the router's WAN IP Address.

By now, you have finished your entire PC configuration for this device.

## Appendix F: Power Line Frequency

COUNTRY	VOLTAGE	FREQUENCY	COMMENTS
Argentina	220V	50 Hz	*Neutral and line wires are reversed from that used in Australia and elsewhere.
Australia	230V*	50 Hz	*Outlets typically controlled by adjacent switch. Though <i>nominal</i> voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
Austria	230V	50 Hz	
Brazil	110/220V*	60 Hz	*127V found in states of Bahia, Paran (including Curitiba), Rio de Janeiro, Paulo and Minas Gerais (though 220V may be found in some hotels). Other areas are 220V only, with the exception of Fortaleza (240V).
Canada	120V	60 Hz	
China	220V	50 Hz	
Finland	230V	50 Hz	
France	230V	50 Hz	
Germany	230V	50 Hz	
Hong Kong	220V*	50 Hz	
India	230V	50 Hz	
Italy	230V	50 Hz	
Japan	100V	50/60 Hz*	*Eastern Japan 50 Hz (Tokyo, Kawasaki, Sapporo, Yokohoma, and Sendai); Western Japan 60 Hz (Osaka, Kyoto, Nagoya, Hiroshima)
Malaysia	240V	50 Hz	
Netherlands	230V	50 Hz	
Portugal	230V	50 Hz	
Spain	230V	50 Hz	
Sweden	230V	50 Hz	
Switzerland	230V	50 Hz	
Taiwan	110V	60 Hz	
Thailand	220V	50 Hz	
United Kingdom	230V*	50 Hz	*Outlets typically controlled by adjacent switch. Though nominal voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
United States of America	120V	60 Hz	

## Appendix G: Troubleshooting & Frequently Asked Questions

Features	
The video and audio codec is adopted in the device.	<p>The device utilizes H.264, MPEG-4 and M-JPEG triple compression to providing high quality images. Where H.264 and MPEG-4 are standards for video compression and M-JPEG is a standard for image compression.</p> <p>The audio codec is defined as AMR for 3GPP and G.711/G.726 for RTSP streaming.</p>
The maximum number of user accesses the device simultaneously.	<p>The maximum number of users is limited to 20. However, it also depends on the total bandwidth accessed to this device from clients. The maximum data throughput of the device is around 20~25Mbps for UDP mode and 10Mbps for HTTP mode. Therefore, the actual number of connected clients is varying by streaming mode, settings of resolution, codec type, frame rate and bandwidth. Obviously, the performance of the each connected client will slow down when many users are logged on.</p>
The device can be used outdoors or not.	<p>The device is not weatherproof. It needs to be equipped with a weatherproof case for outdoors using. However, equipped with a weatherproof case might disable the audio function of the device.</p>
Install this device	
Status LED does not light up.	<p>Check and confirm that the DC power adaptor, included in packaged, is used. Secure the power connector and re-power it on again.</p>
The network cabling is required for the device.	<p>The device uses Category 5 UTP cable allowing 10 and/or 100 Base-TX networking.</p>
The device will be installed and work if a firewall exists on the network.	<p>If a firewall exists on the network, port 80 is open for ordinary data communication. The HTTP port and RTSP port need to be opened on the firewall or NAT router.</p>
The username and password for the first time or after factory default reset	<p>Username = <b>admin</b> and leave password blank.</p> <p>Note that it's all case sensitivity.</p>
Forgot the username and password	<p>Follow the steps below.</p> <ol style="list-style-type: none"> <li>1. Restore the factory default setting by press pressing and holding down more than 3 seconds on the device.</li> <li>2. Reconfigure the device.</li> </ol>
Forgot the IP address of the device.	<p>Check IP address of device by using the PLANET IPWizard program or by UPnP discovery or set the device to default by Reset button.</p>

PLANET IP Wizard II program cannot find the device.	<ul style="list-style-type: none"> <li>● Re-power the device if cannot find the unit within 1 minutes.</li> <li>● Do not connect device over a router. PLANET IP Wizard II program cannot detect device over a router.</li> <li>● If IP address is not assigned to the PC which running PLANET IP Wizard II program, then PLANET IP Wizard II program cannot find device. Make sure that IP address is assigned to the PC properly.</li> <li>● Antivirus software on the PC might interfere with the setup program. Disable the firewall of the antivirus software during setting up this device.</li> <li>● Check the firewall setting of your PC or Notebook.</li> </ul>
Internet Explorer does not seem to work well with the device	Make sure that your Internet Explorer is version 6.0 or later. If you are experiencing problems, try upgrading to the latest version of Microsoft's Internet Explorer from the Microsoft webpage.
PLANET IP Wizard II program fails to save the network parameters.	Network may have trouble. Confirm the parameters and connections of the device.
<b>UPnP NAT Traversal</b>	
Can not work with NAT router	Maybe NAT router does not support UPnP function. Please check user's manual of router and turn on UPnP function.
Some IP cameras are working but others are failed	Maybe too many IP cameras have been installed on the LAN, and then NAT router is out of resource to support more cameras. You could turn off and on NAT router to clear out of date information inside router.
<b>Access this device</b>	
Cannot access the login page and other web pages of the Internet Camera from Internet Explorer	<ul style="list-style-type: none"> <li>● Maybe the IP Address of the Internet Camera is already being used by another device or computer. To confirm this possible problem, disconnect the Internet Camera from the network first, and then run the PING utility to check it out.</li> <li>● Maybe due to the network cable. Try correcting your network cable and configuration. Test the network interface by connecting a local computer to the Internet Camera via a crossover cable.</li> <li>● Make sure the Internet connection and setting is ok.</li> <li>● Make sure enter the IP address of Internet Explorer is correct. If the Internet Camera has a dynamic address, it may have changed since you last checked it.</li> <li>● Network congestion may prevent the web page appearing quickly. Wait for a while.</li> </ul> <p>The IP address and Subnet Mask of the PC and Internet Camera must be in the same class of the private IP address on the LAN.</p> <ul style="list-style-type: none"> <li>● Make sure the http port used by the Internet Camera, default=80, is forward to the Internet Camera's private IP address.</li> </ul>



	<ul style="list-style-type: none"> <li>• The port number assigned in your Internet Camera might not be available via Internet. Check your ISP for available port.</li> <li>• The proxy server may prevent you from connecting directly to the Internet Camera, set up not to use the proxy server.</li> <li>• Confirm that Default Gateway address is correct.</li> <li>• The router needs Port Forwarding feature. Refer to your router's manual for details.</li> <li>• Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details.</li> <li>• Access the Internet Camera from the Internet with the global IP address of the router and port number of Internet Camera.</li> <li>• Some routers reject the global IP address to access the Internet Camera on the same LAN. Access with the private IP address and correct port number of Internet Camera.</li> <li>• When you use DDNS, you need to set Default Gateway and DNS server address.</li> <li>• If it's not working after above procedure, reset Internet Camera to default setting and installed it again.</li> </ul>
Image or video does not appear in the main page.	<ul style="list-style-type: none"> <li>• The first time the PC connects to Internet Camera, a pop-up <b>Security Warning</b> window will appear to download ActiveX Controls. When using Windows XP, or Vista, log on with an appropriate account that is authorized to install applications.</li> <li>• Network congestion may prevent the Image screen from appearing quickly. You may choose lower resolution to reduce the required bandwidth.</li> </ul>
How to check the device's ActiveX is installed on your computer	Go to C:\Windows\Downloaded Program Files and check to see if there is an entry for the file " <b>IPCamera Control</b> ". The status column should show "Installed". If the file is not listed, make sure your Security Settings in Internet Explorer are configured properly and then try reloading the device's home page. Most likely, the ActiveX control did not download and install correctly. Check your Internet Explorer security settings and then close and restart Internet Explorer. Try to browse and log in again.
Internet Explorer displays the following message: "Your current security settings prohibit downloading ActiveX controls".	Setup the IE security settings or configure the individual settings to allow downloading and scripting of ActiveX controls.
The device work locally but not externally.	<ul style="list-style-type: none"> <li>• Might be caused from the firewall protection. Check the Internet firewall with your system or network administrator. The firewall may need to have some settings changed in order for the device to be accessible outside your LAN.</li> <li>• Make sure that the device isn't conflicting with any other web server running on your LAN.</li> <li>• Check the configuration of the router settings allow the device to</li> </ul>

	<p>be accessed outside your local LAN.</p> <ul style="list-style-type: none"> <li>● Check the bandwidth of Internet connection. If the Internet bandwidth is lower than target bit rate, the video streaming will not work correctly.</li> </ul>
The unreadable characters are displayed.	Use the operating system of the selected language. Set the Encoding or the Character Set of the selected language on the Internet Explorer.
Frame rate is slower than the setting.	<ul style="list-style-type: none"> <li>● The traffic of the network and the object of the image affect the frame rate. The network congestion causes frame rate slower than the setting.</li> <li>● Check the bandwidth of Internet connection. If the Internet bandwidth is lower than target bit rate, the video streaming will not work correctly.</li> <li>● Ethernet switching hub can smooth the frame rate.</li> </ul>
Blank screen or very slow video when audio is enabled.	<ul style="list-style-type: none"> <li>● Your connection to the device does not have enough bandwidth to support a higher frame rate for the streamed image size. Try reducing the video streaming size to 160x120 or 320x240 and/or disabling audio.</li> <li>● Audio will consume 32 kbps. Disable audio to improve video. Your Internet connection may not have enough bandwidth to support streaming audio from the device.</li> </ul>
Image Transfer on e-mail or FTP does not work.	<ul style="list-style-type: none"> <li>● Default Gateway and DNS server address should be set up correctly.</li> <li>● If FTP does not work properly, ask your ISP or network administrator about the transferring mode of FTP server.</li> </ul>
Pan/Tilt does not work. (including Click to Center and Preset Positioning)	<ul style="list-style-type: none"> <li>● Click "<b>Refresh</b>" on the Internet Explorer when the communication stops with the device. The image will refresh.</li> <li>● Other clients may be operating Pan/Tilt.</li> <li>● Pan/Tilt operation has reached the end of corner.</li> </ul>
Pan/Tilt does not work smoothly.	There may be a slight delay when you are using the Pan/Tilt feature in conjunction with streaming audio and video. If you find that there is a significant delay while panning or tilting the camera, try disabling the audio streaming and/or reducing the video streaming size.
<b>Video quality of the device</b>	
The focus on the Camera is bad.	The lens is dirty or dust is attached. Fingerprints, dust, stain, etc. on the lens can degrade the image quality.
The color of the image is poor or strange.	<ul style="list-style-type: none"> <li>● Adjust White Balance.</li> <li>● To insure the images you are viewing are the best they can be, set the Display property setting (color quality) to 16bit at least and</li> </ul>

	<p>24 bit or higher if possible within your computer.</p> <ul style="list-style-type: none"> <li>• The configuration on the device image display is incorrect. You need to adjust the image related parameters such as brightness, contrast, hue and sharpness properly.</li> </ul>
Image flickers.	<ul style="list-style-type: none"> <li>• Wrong power line frequency makes images flicker. Make sure the 50 or 60Hz format of your device.</li> <li>• If the object is dark, the image will flicker. Make the condition around the Camera brighter.</li> </ul>
Noisy images occur.	<p>The video images might be noisy if the device is located in a very low light environment. Make the condition around the camera brighter or turn the White-light LED on.</p>
<b>Miscellaneous</b>	
Can not play the recorded ASF file	<p>Please installed Microsoft®'s DirectX 9.0 or later and uses the Windows Media Player 11.0 or later to play the AVI filed recorded by the Device.</p>

## Appendix H: Product Specification

Product	ICA-HM100		ICA-HM100W
Video Specification			
Image Sensor	1.3 Mega-Pixel CMOS image sensor		
Lens	4.3 mm, F1.8		
View Angle (Horizontal / Vertical)	44 / 35 Degree		
Scan Method	Progressive		
Signal to Noise	44 dB		
LED	6 x White-light LED		
Video Encoder	H.264 / MPEG-4 / M-JPEG		
Rate Control	CBR (Constant Bit Rate) / VBR (Variable Bit Rate)		
Video Resolution	H.264 SXGA / VGA / QVGA / QQVGA MPEG4 VGA / QVGA / QQVGA M-JPEG SXGA / VGA / QVGA / QQVGA		
Frame Rate	Mega-Pixel mode up to 15fps for all resolution VGA mode up to 30fps for VGA / QVGA / QQVGA		
Image Control	AWB, AES		
Audio Specification			
Audio Codec	G.726 / AMR		
Audio I/O	Audio in: Internal Microphone / Audio out: External Speaker		
Network and Configuration			
Network Interface	1 xRJ-45		
Network Standard	IEEE 802.3 / IEEE 802.3u	IEEE 802.3 / IEEE 802.3u / IEEE 802.11 b/g/n	
Security	--	WEP and WPA encryption	
Network Protocol	TCP/IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP		
Browser / Software	Microsoft ® Internet Explorer 6.0 or later, Cam Viewer 3 Lite/Pro		
Motion Detection	10 area definable		
Environment Specifications			
Power Requirement	12V DC, 1A IEEE 802.3af	12V DC, 1A	
Dimension (W x D x H )	88 x 30 x 105 mm		
Weight	300g		
Power Consumption	7W max (with WLAN and LED on)		
Operating Temperature	0 ~ 40 Degree C		
Operating Humidity	20 ~ 80% (non-condensing)		
Emission	CE, FCC		

## EC Declaration of Conformity

For the following equipment:

\*Type of Product : Wired H.264 Mega-Pixel IP Camera

\*Model Number : ICA-HM100

\* Produced by:

Manufacturer's Name : **Planet Technology Corp.**

Manufacturer's Address : 11F, No. 96, Min Chuan Road, Hsin Tien,  
Taipei, Taiwan, R.O.C.

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (2004/108/EC).

For the evaluation regarding the Electromagnetic Compatibility, the following standards were applied:

EN 61000-6-3	(+ A1: 2004)
EN 55022	(2006 + A1: 2007, Class B)
EN 61000-3-2	(2006)
EN 61000-3-3	(1995 + A1: 2001 + A2: 2005)
EN 50130-4	(+ A2: 2003)
EN 61000-4-2	(2001)
EN 61000-4-3	(2006)
EN 61000-4-4	(2004)
EN 61000-4-5	(2005)
EN 61000-4-6	(2006)
EN 61000-4-11	(2004)

Responsible for marking this declaration if the:

☒ Manufacturer ☐ Authorized representative established within the EU

Authorized representative established within the EU (if applicable):

Company Name: **Planet Technology Corp.**

Company Address: **11F, No.96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C.**

Person responsible for making this declaration

Name, Surname **Jonas Yang**

Position / Title : **Product Manager**

**Taiwan**  
Place

**24<sup>th</sup> May., 2010**  
Date

  
Legal Signature

**PLANET TECHNOLOGY CORPORATION**

e-mail: sales@planet.com.tw http://www.planet.com.tw

11F, No. 96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C. Tel:886-2-2219-9518 Fax:886-2-2219-9528

## EC Declaration of Conformity

For the following equipment:

\*Type of Product : Wireless H.264 Mega-Pixel IP Camera  
\*Model Number : ICA-HM100W

\* Produced by:

Manufacturer's Name : **Planet Technology Corp.**  
Manufacturer's Address : 11F, No. 96, Min Chuan Road, Hsin Tien,  
Taipei, Taiwan, R.O.C.

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility 1999/5/EC & 2004/108/EC.

For the evaluation regarding the Electromagnetic Compatibility, the following standards were applied:

EN 61000-6-3	(+ A1: 2004)
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EN 61000-3-2	(2006)
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EN 50130-4	(+ A2: 2003)
EN 61000-4-2	(2001)
EN 61000-4-3	(2006)
EN 61000-4-4	(2004)
EN 61000-4-5	(2005)
EN 61000-4-6	(2006)
EN 61000-4-11	(2004)
ETSI EN 300 328 V1.7.1	(2006)
EN 301 489-01 V1.8.1.	(2008)
EN 301 489-17 V2.1.1	(2009)

Responsible for marking this declaration if the:

☒ Manufacturer      ☐ Authorized representative established within the EU

Authorized representative established within the EU (if applicable):

Company Name: **Planet Technology Corp.**

Company Address: **11F, No.96, Min Chuan Road, Hsin Tien, Taipei, Taiwan, R.O.C.**


Person responsible for making this declaration

Name, Surname **Jonas Yang**

Position / Title : **Product Manager**

**Taiwan**  
Place

**24<sup>th</sup> May., 2010**  
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**PLANET TECHNOLOGY CORPORATION**