



2 Mega-Pixel H.264 Box IP Camera

ICA-HM125

User's Manual

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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 H.264 2 Mega-Pixel Box Internet Camera
Model: ICA-HM125
Rev: 1.0 (September. 2009)
Part No. EM-ICAHM125

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1. Introduction

Thank you for purchasing the PLANET new 2-MegaPixel H.264 Box Internet Camera, ICA-HM125, is the state of the art design using the highest resolution for high quality image capture. Compared with VGA cameras with 640x480 pixel resolution, 2-MegaPixel IP cameras deliver clear image with dual H.264/M-JPEG stream video up to UXGA (1600 x 1200 pixels), The ICA-HM125 offers high flexibility to be applied in various kinds of IP surveillance environment as it has built-in ICR (IR-cut filter Removable) for day / night surveillance and is compatible with IEEE 802.3af PoE (Power over Ethernet) for easy installation without concerning the outlet / socket locations. Network and analog video output interfaces are equipped for flexible viewing and recording implementations. The ICA-HM125 is also designed with the removable CS mount lens that can be customized with auto-iris, wide angle, vari-focal or other types of lens as required.

PLANET ICA-HM125 supports 2-Way audio that can directly make audio communication between local and remote sites by using the built-in microphone and adding an external speaker. Users can build a more advanced security system by connecting external sensors or alarm to DI / DO ports of the ICA-HM125.

The ICA-HM125 can be managed by PLANET Cam Viewer Plus, the professional management software for multi-camera video surveillance application and provides monitoring, recording and event management functions. The Cam Viewer Plus enables you to setup a comprehensive and effective surveillance system quickly and easily. With the ICA-HM125 managed by the Cam Viewer Plus, 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 internet camera.

1.2 Features

- High quality 2 Mega-Pixel CMOS image sensor (maximum up to 1600 x 1200 resolution)
- Highest video compress rate - H.264 compression
- Supports IR-Cut filter removable (ICR)
- Compliant with IEEE 802.3af PoE interface
- Compliant with CS mount Lens
- Provides 10 Motion Detection areas
- 2-Way audio function with built-in microphone and external speaker
- SD card to save local recording video and image
- External I/O trigger for various surveillance applications
- Plug-N-Watch simplifies the system integration into existing network environment
- DDNS, and FTP uploading provide more alternatives in surveillance network
- Motion Detection feature can monitor any suspicious movement in specific area
- Supports Web management & Cam Viewer Plus central management software

1.3 Package Contents

User can find the following items in the package:

Internet Camera x 1

Power Adapter x 2

Camera Mount Kit x 1

User's Manual CD x 1

Quick Installation Guide x 1

-
- 1. If any of the above items are missing, please contact your dealer immediately.*
- NOTE:** *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 when resolution up to 2 megapixel.

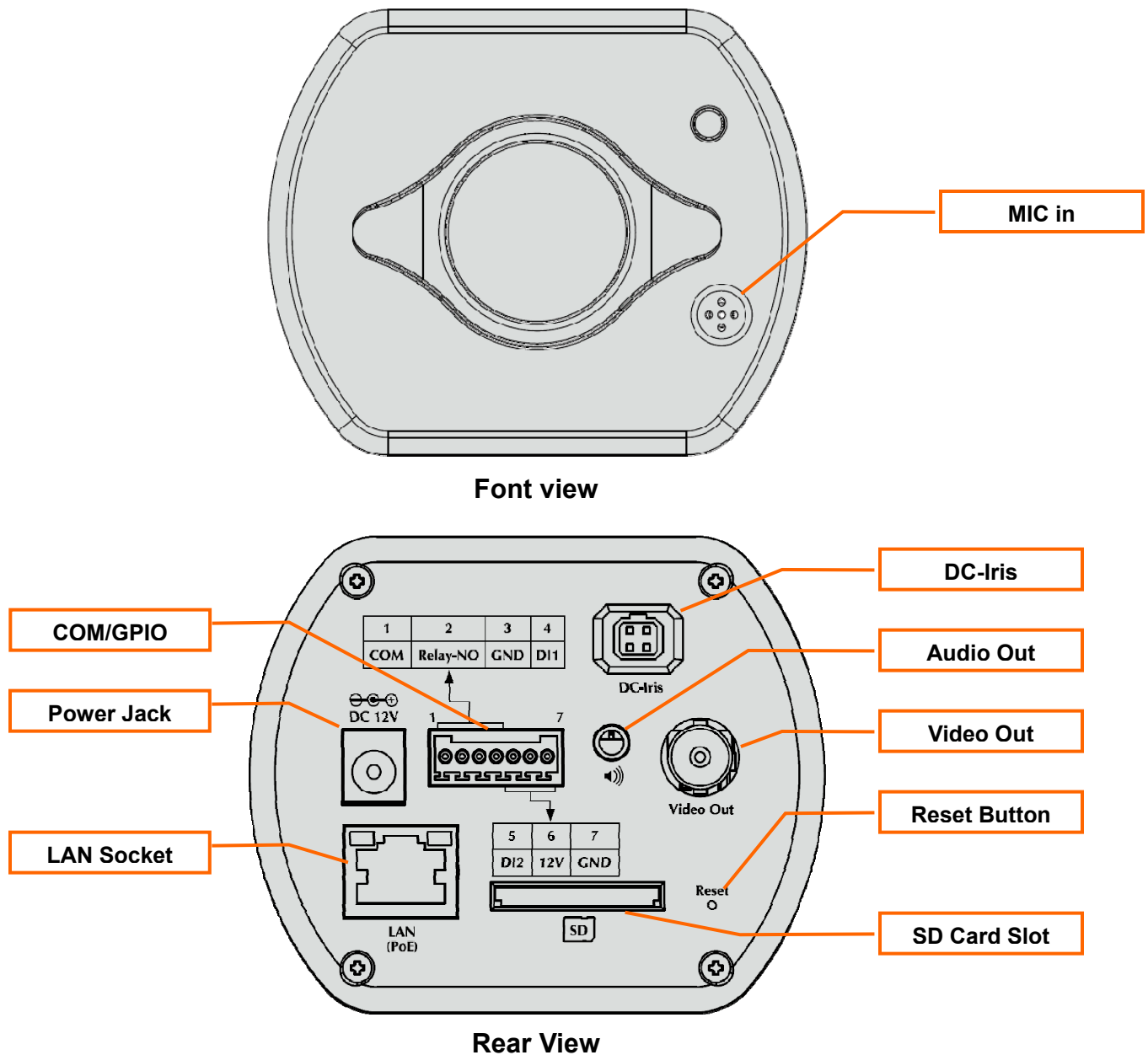
CPU	Intel® Core2 Duo E5300 2.6GHz
RAM	1 GB
Video RAM	128MB
Display Chip	nVIDIA GeForce 8500GT or ATI Radeon HD 4350 or above
Display Resolution	1024X768 32bits
Operating System	Windows2000 SP4 / Windows XP Pro SP2 / Windows 2003 / Vista
DirectX	9.0c or above
Network	Wired Ethernet 100Base-TX

1. *The listed information is minimum system requirements only. Actual requirement will vary depending on the nature of your environment.*

NOTE: 2. *The ICA-HM125 can be managed by PLANET Cam Viewer Plus if you want to configure more detail information and settings of camera viewer plus software please refer to the CD-ROM folder "**D:\Manual\Cam Viewer Plus**", assume D is your CD-ROM drive.*

2.2 Physical Description

2.2.1 Identification of ICA-HM125 physical detail



MIC In

The internet camera has built-in an internal microphone. This microphone is hidden in the pinhole located on the front panel.

Power Jack

The input power is 12VDC.

Note: ONLY use package power adapter supplied with the internet. Otherwise, the product may be damaged.

DC-Iris

The connector provided DC power can drive CCTV auto iris lenses.

LAN Socket

Connects 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 Category 5 cable to connect the internet camera to a 100Mbps Fast Ethernet network switch.

In the LAN socket, there are two LED embedded:

Power / Status LED (orange color)

This LED will be flashing while camera DC power is on camera starting, and this LED light while camera ready.

Network LED (green color)

This LED will be flashing while the camera accessing of the camera.

COM/GPIO

Connect connects to external sensor in and alarm out devices.

Name	Pin	Function
COM	1	Signal output 1
Relay-ON	2	Signal output relay
GND	3	Ground
DI1	4	General Purpose Input 1
DI2	5	General Purpose Input 2
12V	6	DC 12V
GND	7	Ground

SD Card Slot

Accepts SD / SD-HC memory card for image / video storage supports maximum up to 8GB SD-HC class 2.

Audio Out

Connect a loud speaker to the internet camera. This function is for voice alerting and two-way audio.

Video Out

The internet camera also provides composite video output. User can use BNC video cable to connect the internet camera with a TV monitor or VCR.

Reset Hole

When restarting the internet camera still got problem, user can restore the factory default settings and install it again.

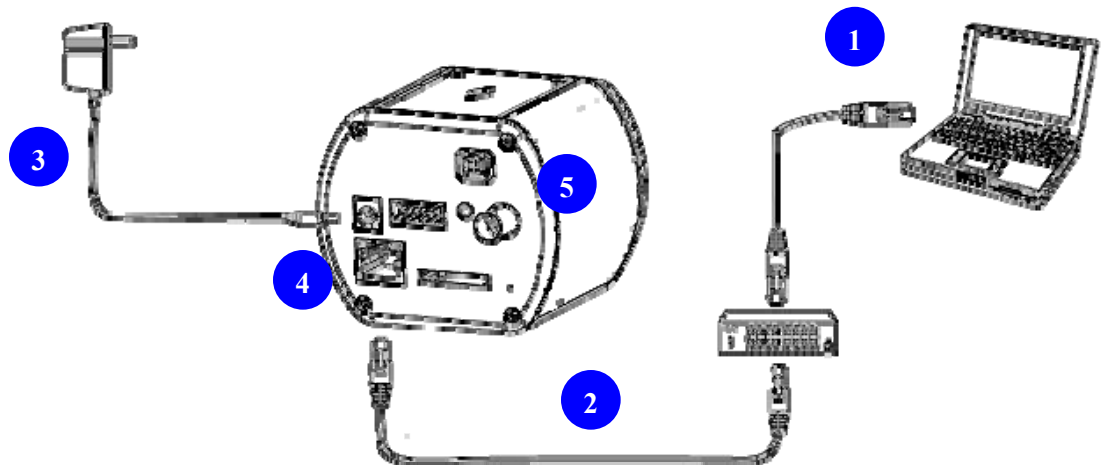
How to restore the Internet Camera:

- Unplug the power cable to turn off the power of camera.
- Insert a pin into the hole pressed the reset button and keep it pressed until instructed to release.
- Plug in the power cable to turn on camera, in about 10 seconds the LED indicator will be flashing.
- Release the reset button, then camera should now be back to factory default.

Note: Restoring the factory default setting will lose the all previous settings included IP address forever. User needs to run PLANET IPInstaller program to search the unit and configure it to let the Internet Camera work properly again.

2.3 Hardware Installation

2.3.1 Physical Installation



Step 1. Prepare a PC with Ethernet link to the network.

Step 2. Connect an Ethernet cable

Connect LAN port (RJ-45) of the camera to a network switch. When this switch is a PoE device, you can ignore the next step.

NOTE *If there has a IEEE802.3af PoE switch in your network, you can connect the camera LAN cable to this PoE switch to obtain power. The power adapter is unnecessary when Internet Camera is connected to a PoE switch.*

Step 3. Attach the power supply

Plug in power adapter and connect to power source. After power on, the camera will start to operate and ensure the power adaptor specification matches the power source (110V or 220V) and connect the adaptor to the outlet.

NOTE *Only use the power adapter supplied with Internet Camera Otherwise, the product may be damaged.*

Step 4. Check LED status

The Power LED is defined to identify camera status. When camera booting the LED will be flashing, and camera is ready the LED will be green.

Step 5. Attach BNC connector and speaker to camera (option)

Connect the video BNC connector to a monitor set if necessary check camera viewing angle and focus. And if user needs not only video stream but also audio stream, then the speaker should be attached to camera.

2.4 Initial Utility Installation

This chapter shows how to quick set up your IP camera. The IP camera is with the default settings. However to help you find the networked camera quickly the windows utility PLANET IPInstaller 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 “**IPInstaller**” hyperlink; you will see the program window as below.

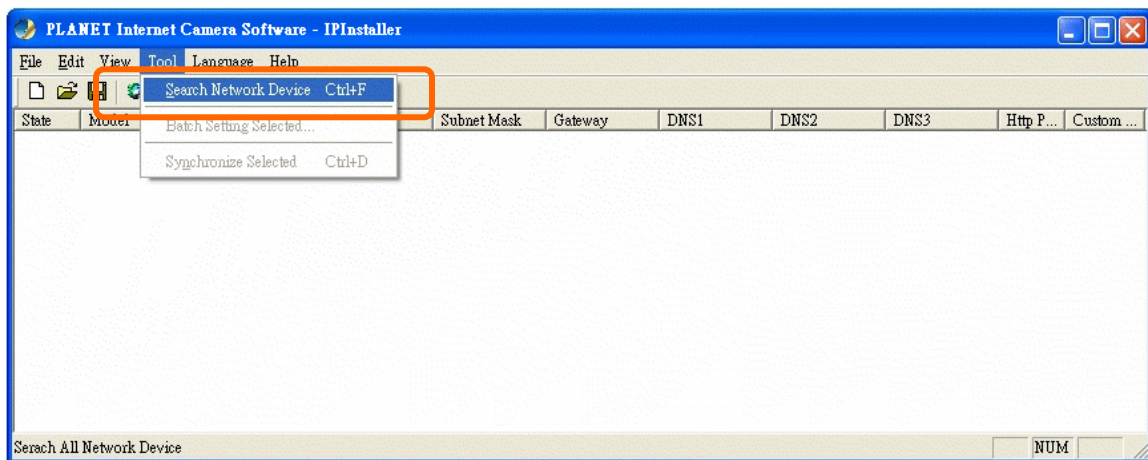
2.5 Preparation

When you installed the camera on a LAN environment, you may execute PLANET IPInstaller to discover camera’s IP address and set up related parameters in the camera.

2.5.1 Configure Network by PLANET IPInstaller

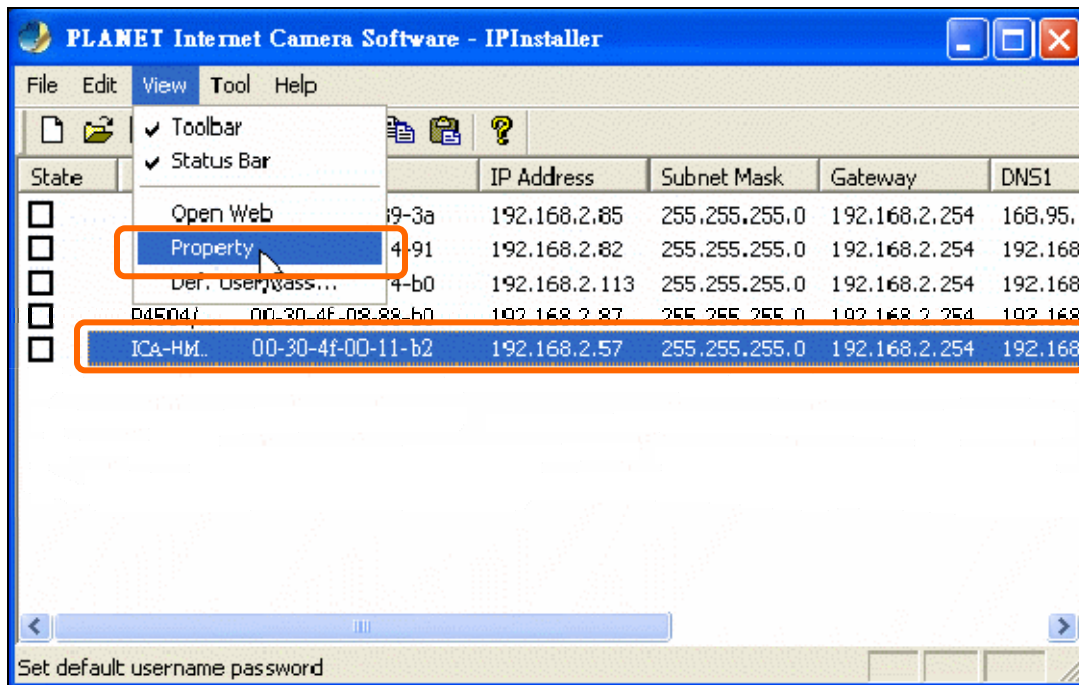
When you installed the camera on a LAN environment, you have two easy ways to search your Cameras by PLANET IPInstaller or UPnP discovery. Here is the way to execute PLANET IPInstaller to discover Camera’s IP address and set up related parameter in a Camera.

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 **Search Network Device** button. Relative settings will be carried out as below.

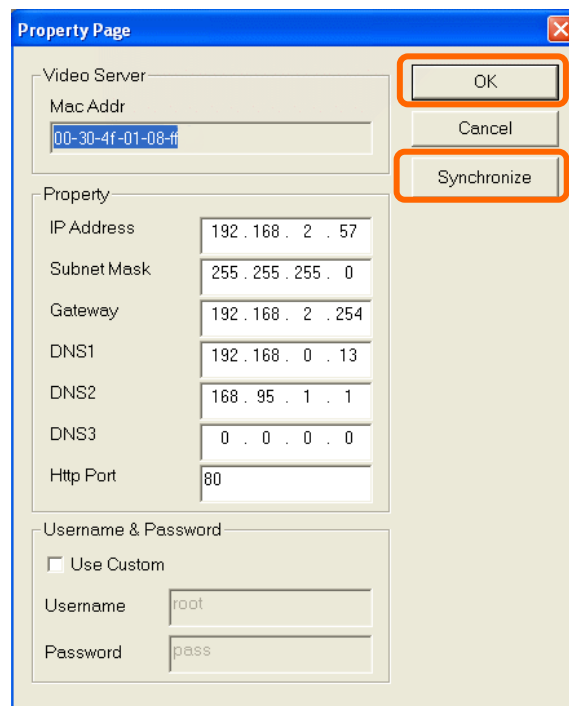


From the list, please select the Internet Camera with the MAC Address that corresponds to the camera that is to be configured. The MAC Address is identical to the unit’s MAC label.

Then double click the item to open the property page for the selected device or click the menu bar “View” → “Property”.

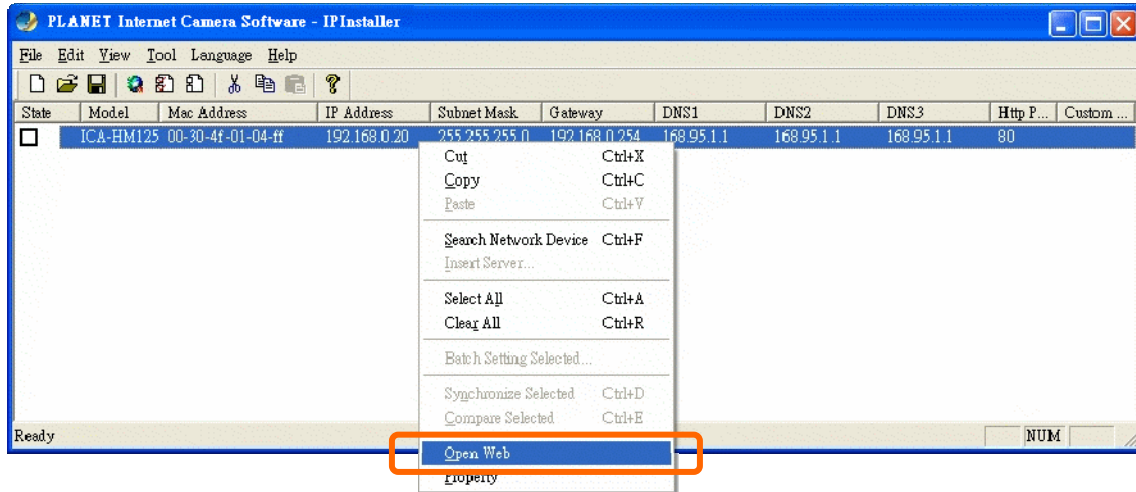


After filling in the properties, click **Synchronize** button to complete the configuration settings in the remote device while saving configuration in the PC. If click **OK** button, the configuration is only be saved in the PC.



2.5.2 Open the Web-based UI of the select camera

To access the Web-based UI of the selected unit, run the "View" → "Open" Web on the menu bar.



If the Internet Camera has been configured correctly, the default Web browser will open to the home page of the selected device.

If you find your browser is opened and automatically connected to the camera Home Page, it means you've assigned an IP Address to the unit successfully. Now you can close the IP Installer and start to use your camera.

2.6 Setup ActiveX to use the Internet Camera

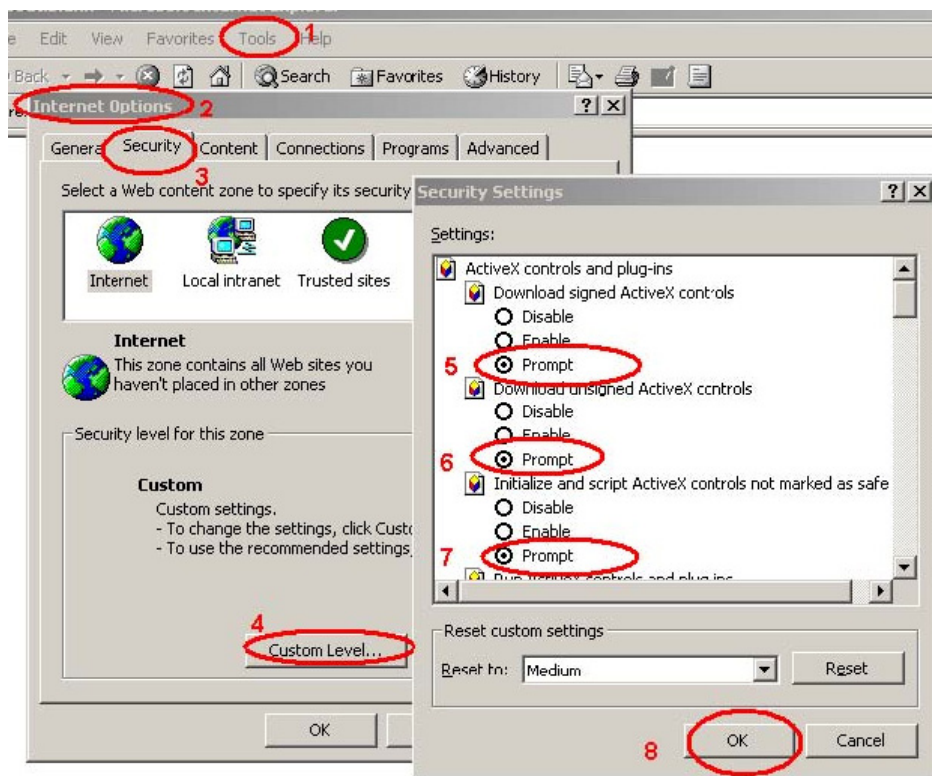
The Internet Camera web pages communicate with the Internet Camera using an ActiveX control. The ActiveX control must be downloaded from the Internet Camera and installed on your PC. Your Internet Explorer security settings must allow for the web page to work correctly. To use the Internet Camera, user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

2.6.1 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*



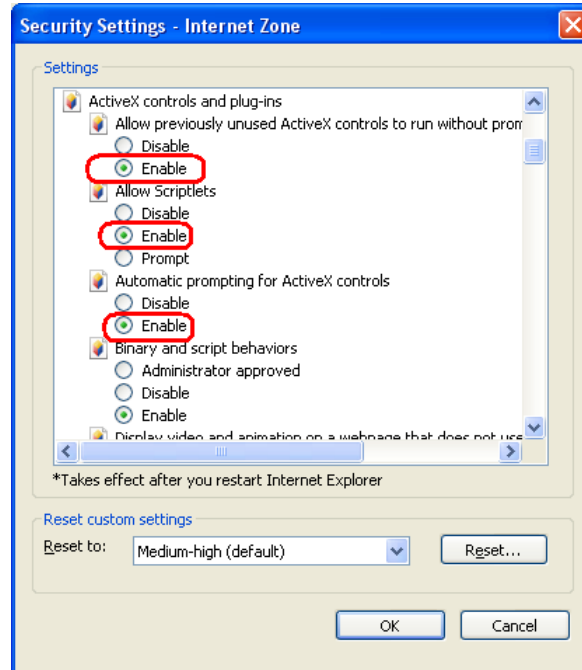
By now, you have finished your entire PC configuration for Internet Camera.

2.6.2 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*

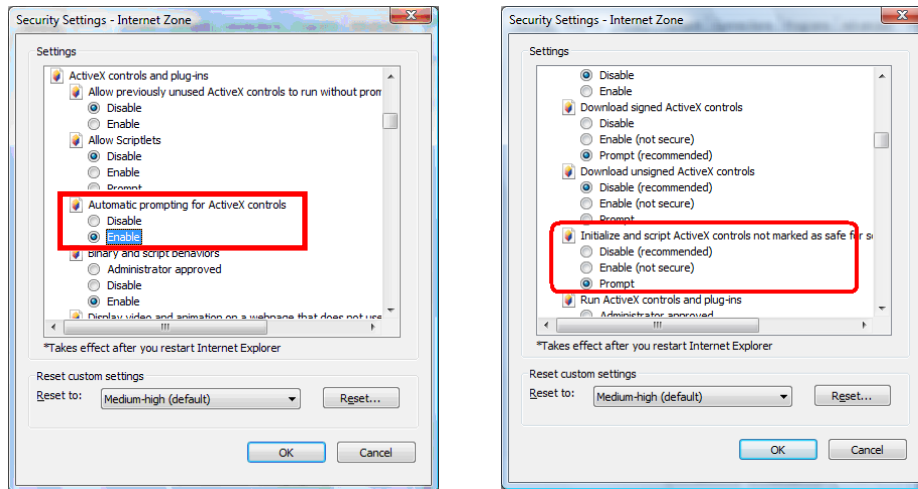


By now, you have finished your entire PC configuration for Internet Camera.

2.6.3 Internet Explorer 7 for Windows Vista

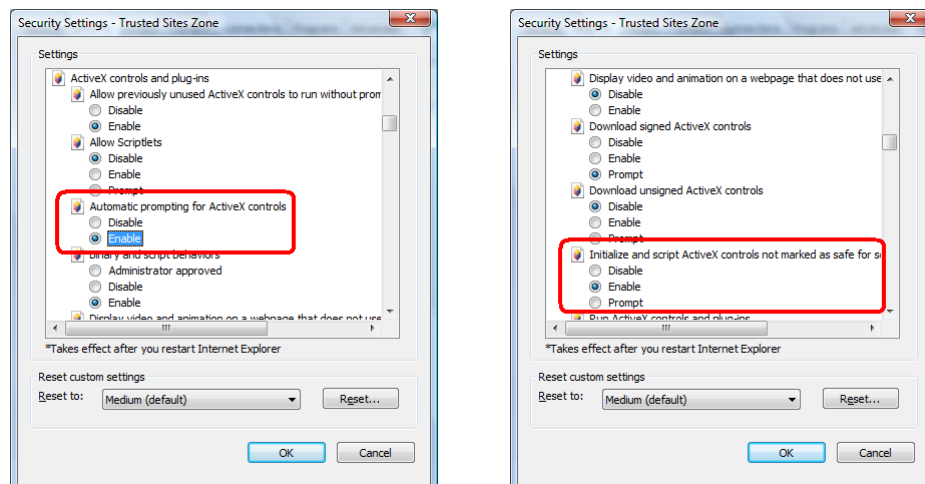
From your IE browse → "Tools" → "Internet Options..." → "Security" → "Internet" → "Custom Level...", please setup your "Settings" as follow.

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



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.

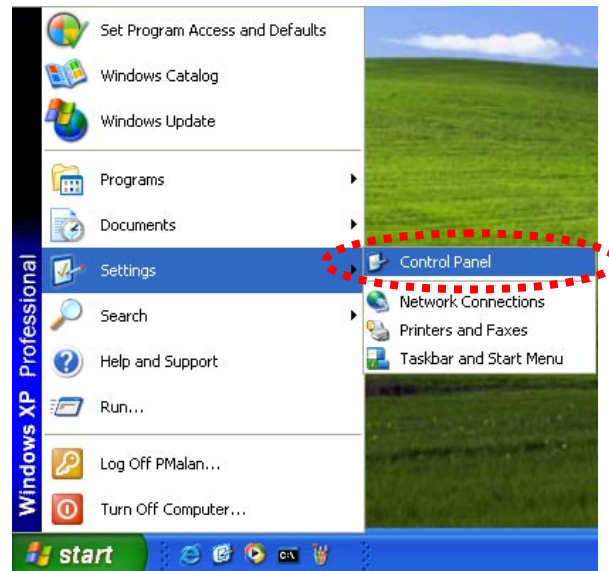
2.7 Using UPnP of Windows XP or Vista

2.7.1 Windows XP

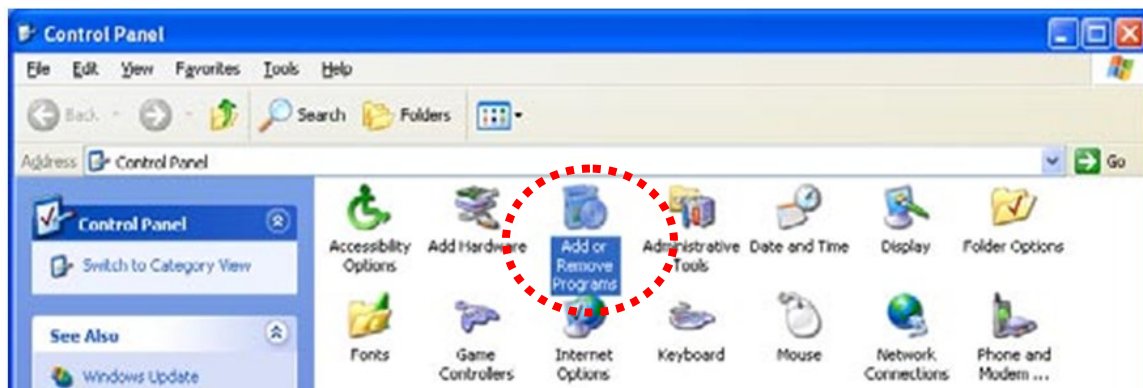
UPnP™ is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. This device is an UPnP enabled device. If the operating system, Windows XP, of your PC is UPnP enabled, the Internet Camera will be very easy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

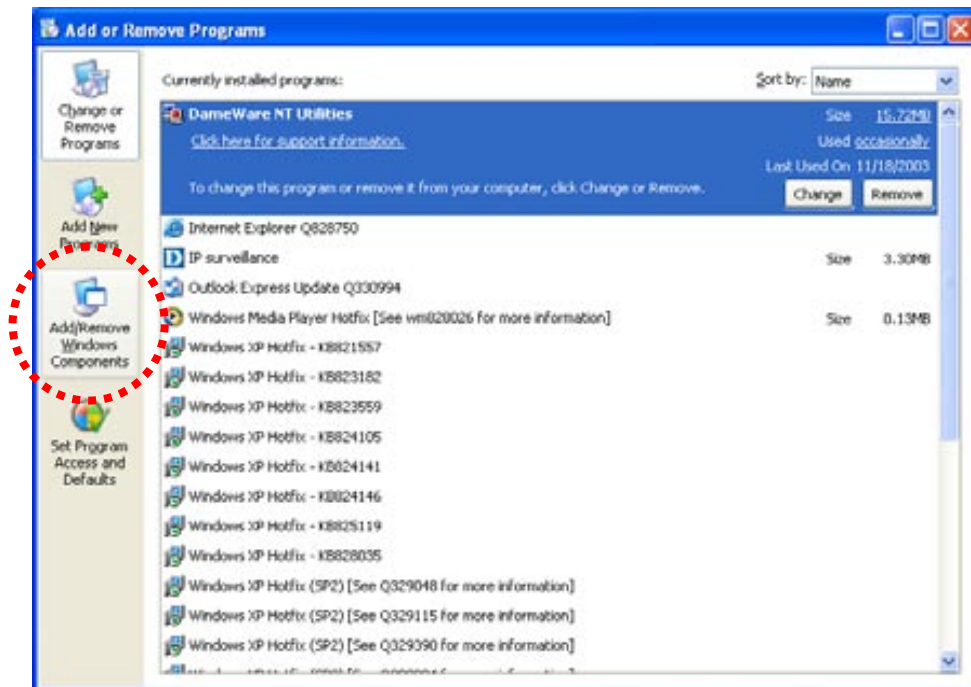
NOTE: Windows 2000 does not support UPnP feature.

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

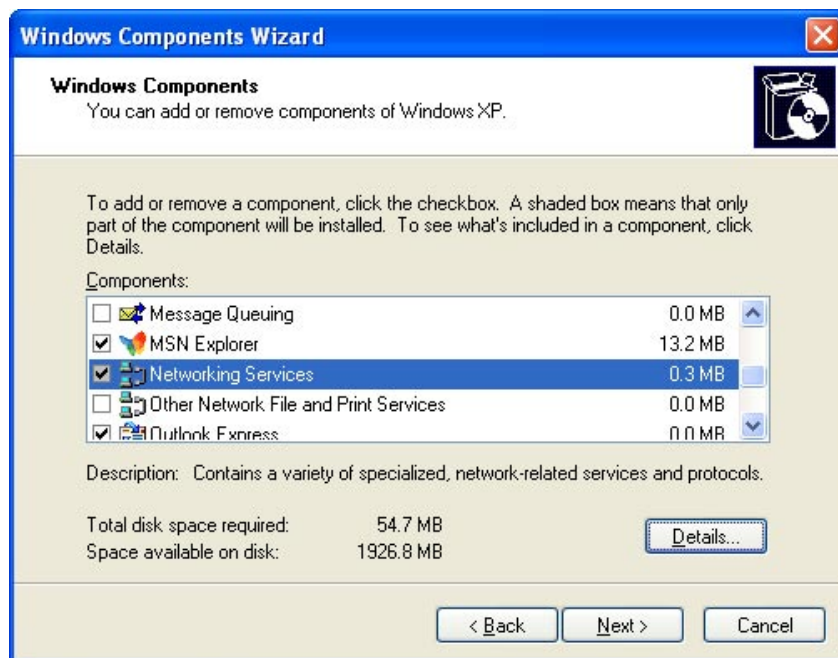


The “**Control Panel**” will display on the screen and double click “**Add or Remove Programs**” to continue

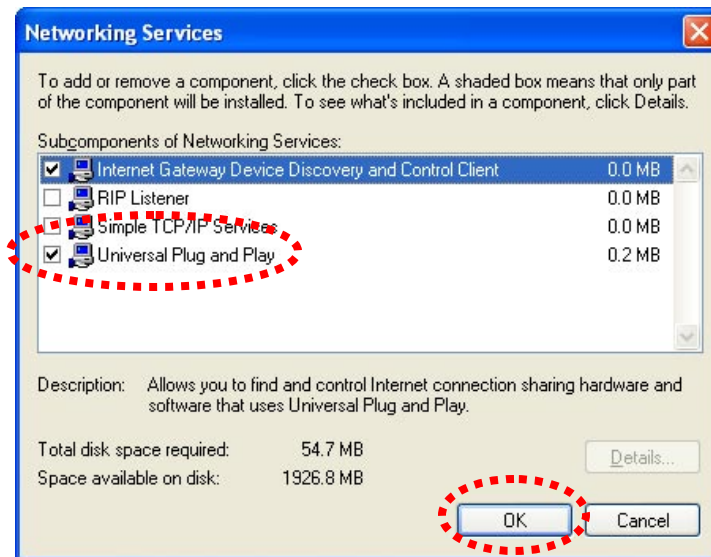




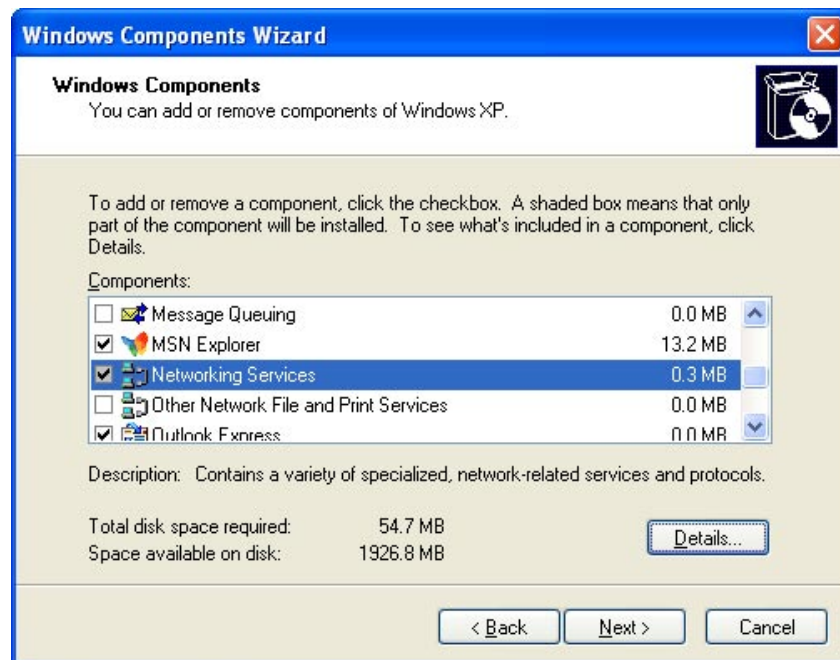
The following screen will appear, select **“Networking Services”** and click **“Details”** to continue



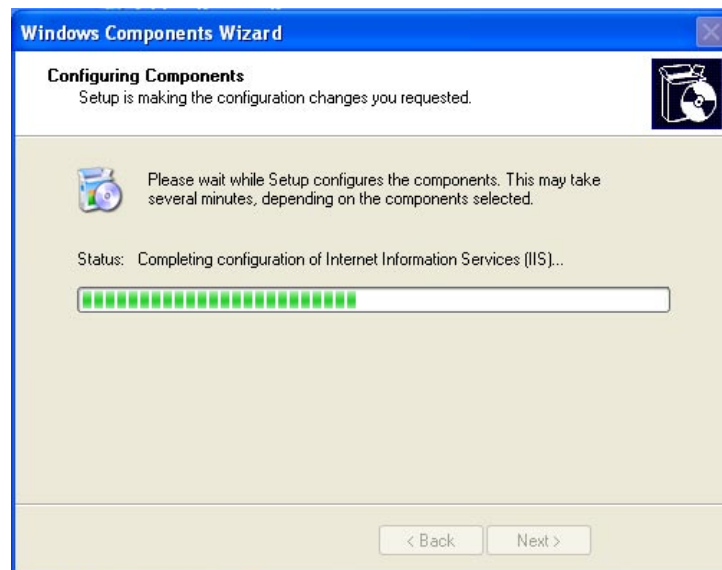
The “Networking Services” will display on the screen, select “**Universal Plug and Play**” and click “**OK**” to continue.



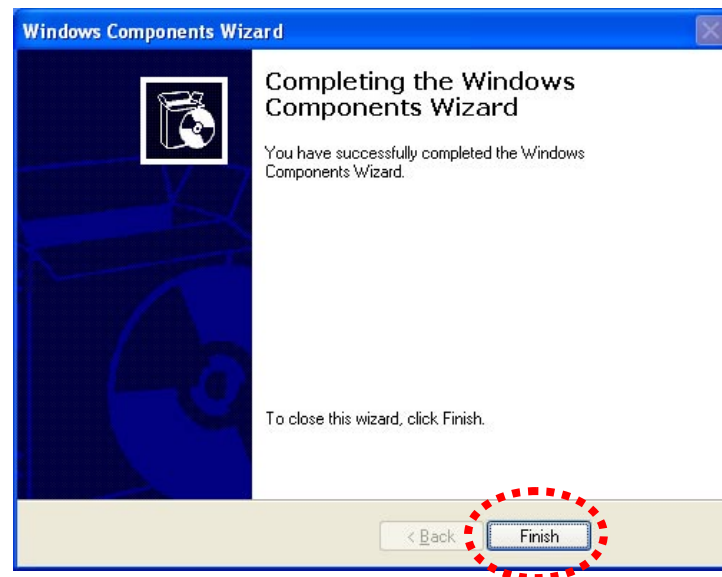
Please click “**Next**” to continue



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

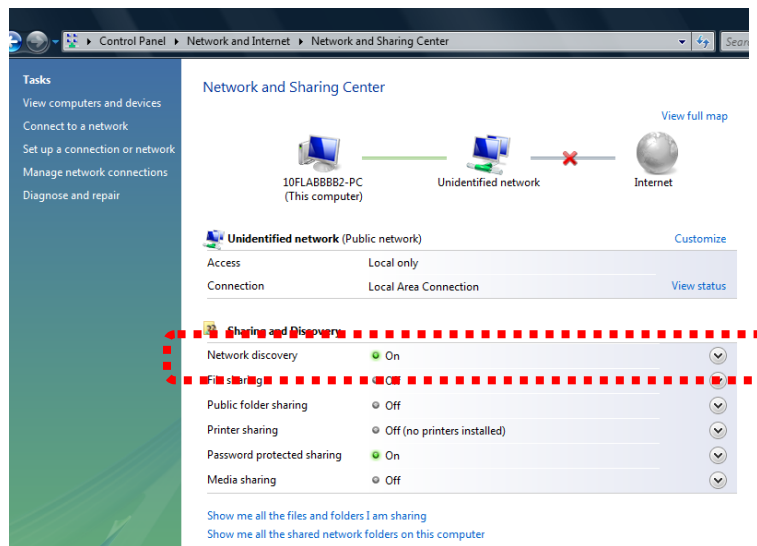


Double-click **My Network Places** on the desktop, the **My Network Places** will display on the screen and double-click the UPnP icon with Internet Camera to view your device in an internet browser.

2.7.2 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 Internet Camera 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.

3. Web-based Management

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

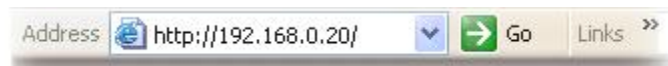
3.1 Introduction

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 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>

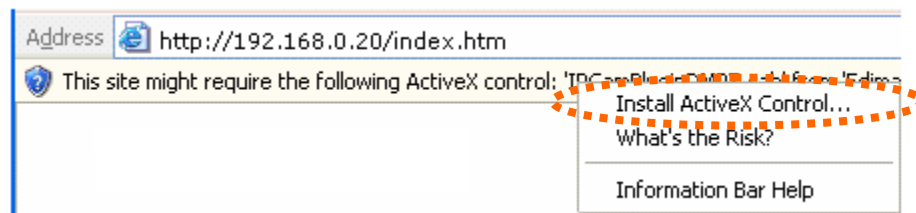


NOTE: *If the User name and Password have been changed with PLANET IPInstaller, please enter the new User name and Password here.*

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.

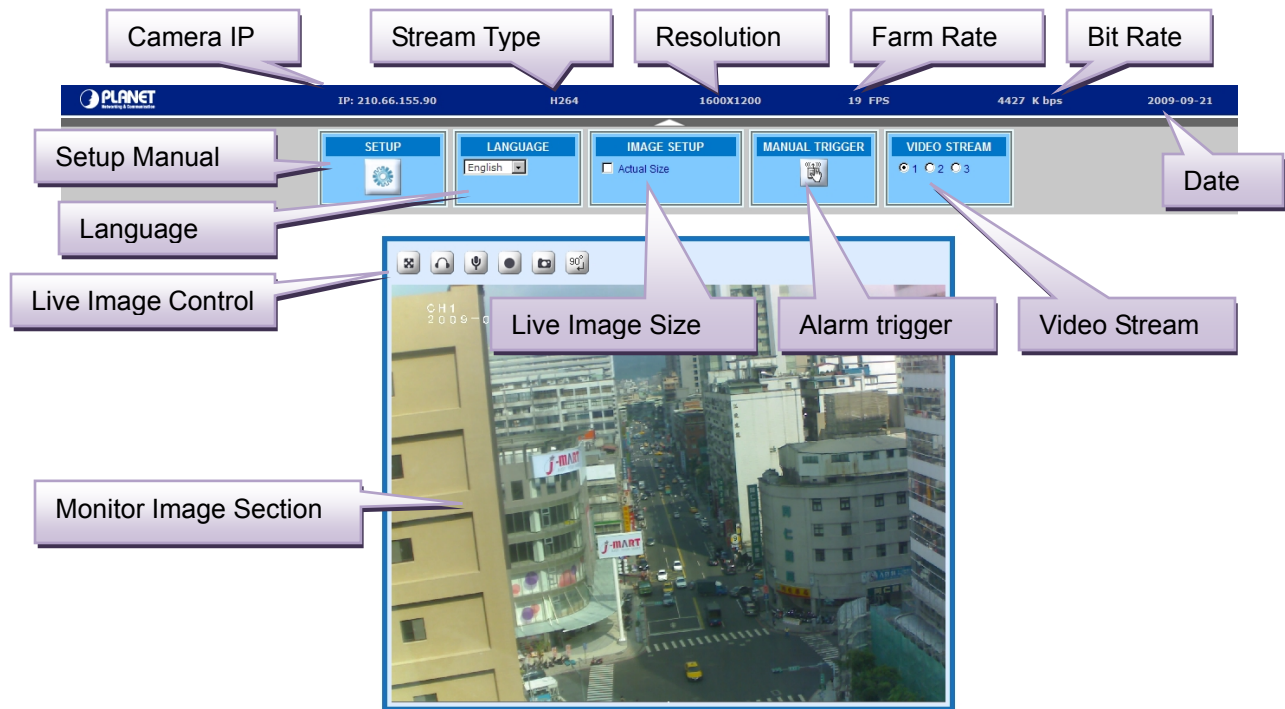
You should be able to see the images captured from the camera in the web page now. For advanced functions, please refer to instructions given in follows chapters.



NOTE: *If you log in the Internet 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 Internet Camera.*

3.3 Live View

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



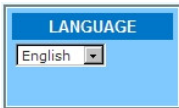
Setup Manual :



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

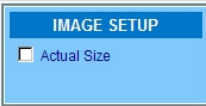
Item	Action
Video	Configure bit rate, frame rate and resolution of video profiles.
Camera	Adjust camera general parameters, such as image rotate, Brightness, audio, record parameters.
Event	Configure the event server, I/O ports information, and object motion detection settings.
Schedule	Configure the event schedule and storage while event triggered.
Network	Configure Network settings such as, SMTP, RTSP, DHCP, DDNS, and UPnP, etc.
System	Configure system information, date & time, maintenance, and view system log file.

Language:



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

Live Image Size:



The Internet Camera allow user to display the live video in actual size mode. (uses every available space to display the image captured by this camera).

Alarm Trigger:

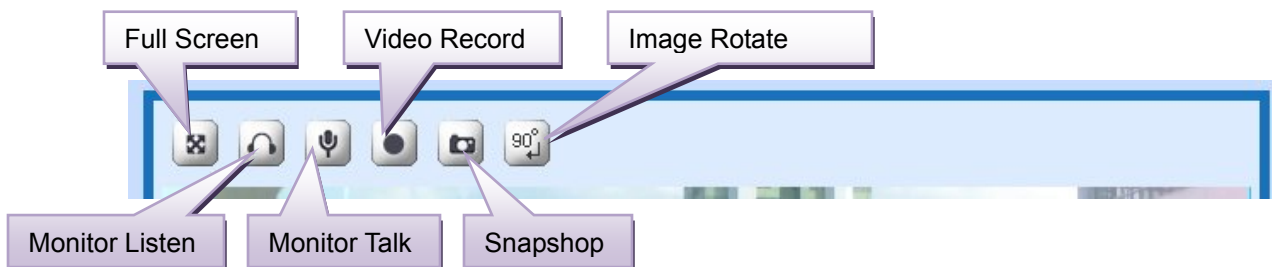



The camera allow user to trigger the alarm manually. User can click the button active the alarm immediately while a suspicious object discovered.


Video Stream:





The camera supports multiple video profiles for H.264 and M-JPEG compressions simultaneously. User can chose the proper and/or preferred profile here.





 Full screen: Click the icon can display the image in full-screen mode (uses every browser available space to display the image captured by this camera).

 Monitor Listen: Click the icon can listen for the audio input from local end.

 Monitor Talk: The Internet Camera supports 2-way audio function. User can chose to enable or disable this function by toggling the icon.
(2-way audio)

 Video Record: Click the icon be able to activate the record function start recording. The video file is saved as AVI format into your local PC.

 Snapshot: Click the icon be able to activate the snapshot function to take a picture.

 Image Rotate: Click the icon be able to correct the view angle.

3.4 Video Configuration

This Internet Camera provides multiple video stream profiles as below to support different request to each client simultaneously. Each user can choose preferred video profile as his request independently.

3.4.1 Video General Settings

The menu allow user to disable/enable the multiple stream profiles.

The screenshot shows a web interface for video configuration. At the top, there is a navigation bar with tabs: Live View, Video (selected), Camera, Event, Schedule, Network, System, and Customize. Below this, there are three sub-tabs: General (selected), Advanced, and External Video Source. The General tab contains two sections: 'Video General Setting' and 'OSD Setting'. In the 'Video General Setting' section, there are four checkboxes, all of which are checked: 'Enable Stream 1', 'Enable Stream 2', 'Enabled Digital PTZ', and 'Enable Stream 3'. In the 'OSD Setting' section, there are three checkboxes, all of which are checked: 'Enable', 'Camera Name:', and 'Date/Time'. The 'Camera Name:' checkbox is followed by a text input field containing 'CH1' and a note '(20 character max)'. At the bottom right of the configuration area, there is a 'Save' button.

Video General Setting:

User can check either box to enable stream profile for live viewing. Note that digital PTZ is only available with Stream 2.

OSD Setting:

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

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

3.4.2 Video Advanced Settings

This Internet Camera provides multiple video stream profiles to support different requests to each client simultaneously. The stream 1 can go up to maximum resolution 1600 x 1200 (2 Mega Pixel) and stream 2 to 640 x 480 and stream 3 for RTSP access specification.

The screenshot shows a web interface for video settings. At the top is a navigation bar with tabs: Live View, Video (selected), Camera, Event, Schedule, Network, System, and Customize. Below this is a sub-navigation bar with tabs: General (selected), Advanced, and External Video Source. The main content area is titled 'Stream Setting' and contains three sections: Stream 1 Setting, Stream 2 Setting, and Stream 3 Setting. Each section has fields for RTSP Path, Resolution, Video Mode, Quality Level, Image Format, GOP, and Frame Rates. Stream 1 is configured for 1600 x 1200 resolution, VBR mode, Best quality, and 15 FPS. Stream 2 is configured for 640 x 480 resolution, VBR mode, Standard quality, and 15 FPS. Stream 3 is configured for 320 x 240 resolution, VBR mode, Standard quality, and 15 FPS. A 'Save' button is located at the bottom right of the settings area.

Stream	RTSP Path	Resolution	Video Mode	Quality Level	Image Format	GOP	Frame Rates
Stream 1	v00	1600 x 1200	VBR	Best	H.264	30 (1~150)	15 (5~15 FPS)
Stream 2	v01	640 x 480	VBR	Standard	H.264	30 (1~150)	15 (5~15 FPS)
Stream 3	v02	320 x 240	VBR	Standard	H.264	30	15 (5~15 FPS)

RTSP Path: It is the stream ID used for VLC player.
The default value is "v00".

Resolution: Choose image size from 320x240 to 1600x1200

Choose between variable bit rate (VBR) and constant bit rate (CBR)

VBR:
User should choose the quality level to set the video quality rather than bit rate.

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.

Target Bit Rates: Choose the number of frames to encode per second.

Quality Level: The quality level is between Standard and Best. The best level can reach the better quality but of course will consume higher bandwidth.

Image Format: 2 kinds of format to choose from; H.264 and M-JPEG

GOP: 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.

Frame Rates: Choose the number of frames to display per second. With resolution 1600x1200, FPS can only set up to 15FPS. The rest can set up to 30FPS.

NOTE:

- (1) *Configuration of stream 2 is the same as stream 1 different with the resolution can only be sent to 320x240 or 640x480.*
 - (2) *The stream 3 only can change RTSP path, image format and frame rate and be adjust the rest of the settings are fixed.*
-

3.4.3 External Video Source

The Internet Camera provided the video conference feature, if you have multiple Internet Cameras (ICA-HM125) within your system, you can monitor the video of remote connected camera form the browser.

The screenshot shows a web interface with a top navigation bar containing 'Live View', 'Video', 'Camera', 'Event', 'Schedule', 'Network', 'System', and 'Customize'. The 'Video' tab is selected. Below it, there are sub-tabs: 'General', 'Advanced', and 'External Video Source'. The 'External Video Source' sub-tab is active. It contains a table with two columns: 'Name' and 'IP address'. Below the table, there are two buttons: 'Add...' and 'Remove'. A note at the bottom of the table area says: '(Note: The maximum number of external video sources is 10.)'.

Camera list:

List all of external camera for user selection while video conference.
Maximum number of external is 10.

The screenshot shows a dialog box titled 'External Video Source Setup'. It contains the following fields and controls:

- Name: Text input field with 'NewVideoSource' entered.
- IP address: Text input field with '0.0.0.0' entered.
- Video Port: Text input field with '554' entered.
- Product Type: Text input field with 'ICA-HM125' entered.
- Video Format: Dropdown menu with 'H.264' selected.
- Resolution: Dropdown menu with '640x480' selected.
- Rotation: Dropdown menu with '0' selected.
- Audio Enable: Dropdown menu with 'Off' selected.
- RTSP Path: Text input field with 'v00' entered.
- Test Video: Button labeled 'Connect'.

At the bottom of the dialog box, there is a 'Save' button.

External Video Source Setup:

According to remote camera video settings to setup those parameters into the list.

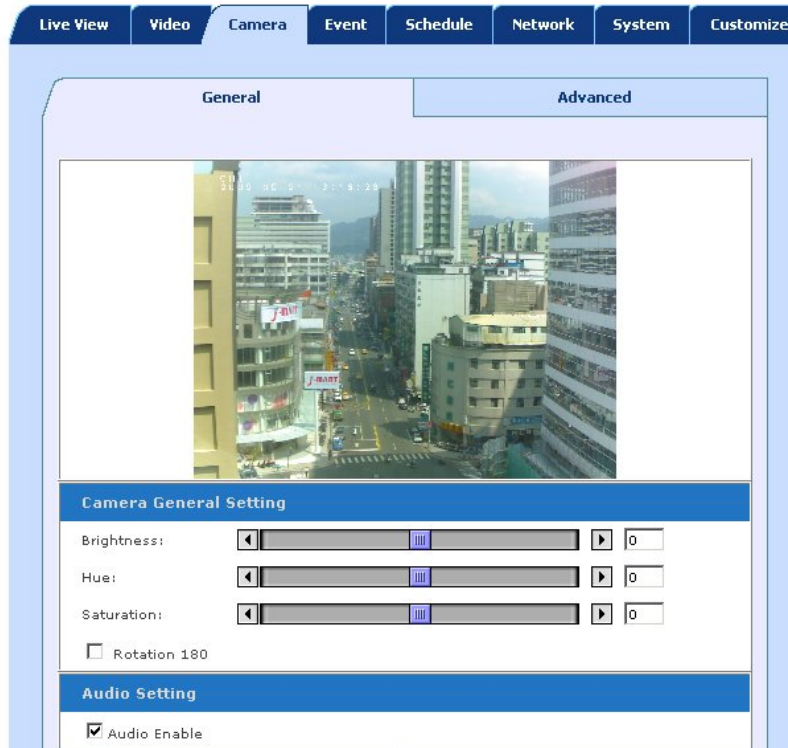
Connect

When the configuration is finish, please click the button to make the video test.

3.5 Video Configuration

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

3.5.1 Camera General Settings



The screenshot displays the 'Camera General Settings' web interface. At the top, there is a navigation bar with tabs: 'Live View', 'Video', 'Camera' (selected), 'Event', 'Schedule', 'Network', 'System', and 'Customize'. Below this, there are two sub-tabs: 'General' (selected) and 'Advanced'. The main content area features a live video feed of a city street. Below the video feed, the 'Camera General Setting' section includes sliders for 'Brightness', 'Hue', and 'Saturation', each with a numeric input field set to 0. There is also a checkbox for 'Rotation 180'. Below this is the 'Audio Setting' section, which has a checked checkbox for 'Audio Enable'.

Adjust the image parameters for a better view.

Brightness:

Large value will brighten camera.

Hue:

Large value will be colorful.

Saturation:

Camera General setting: Large value will contrast camera heavily.

Image Mirror Vertical:

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

Image Mirror Horizontal:

Turn the "Mirror" and "Horizontal Flip" On or OFF. The image will be overturned as below.

Audio Setting:

To enable or disable audio function.

Web Record Setting:

Save Path / File name:

Click on the “Browse” button to select the desired path to save as well as naming the video file.

Web Snapshot Image Setting:

Save Path / File name:

Click on the “Browse” button to select the desired path to save as well as naming the video file.

Default:

Set “**Camera General Setting**” and ‘**Audio Setting**” back to default

3.5.2 Camera Advanced Settings

The menu allow user to adjust the camera white balance, exposure and ICR active mode.

Live View Video Camera Event Schedule Network System Customize

General Advanced

White balance: Auto

Exposure: Auto

Max Exposure Time: 1/30 s

Max Gain Control: 31 dB

Infrared(IR) Cut Filter: Depending on light intensity

Save

White Balance:

Adjust the white balance according to the environment

Auto: will adjust the white balance setting automatically.

Hold: will hold the white balance setting.

Sunny: will fix the color temperature with sunny day mode.

Cloudy: will fix the color temperature with cloudy day mode.

Indoor: will fix the color temperature with indoor mode.

Exposure:

Automatic: will adjust the internal gain automatically.

Flicker-free 50Hz: will effects of exposure to 50Hz.

Flicker-free 60Hz: will effects of exposure to 60Hz.

Max Exposure Time:

Increase / reduce the exposure time for lens.

Max Gain Control:

To adjust maximum gain of input video.

Infrared (IR) Cut Filter:

User can turn Auto or setting for fix mode. This function is very useful under low illumination environment.

3.6 Event Configuration

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

3.6.1 Event Server

The Internet Camera supports FTP upload function that will upload image while event trigger.

The screenshot shows a web interface with a top navigation bar containing tabs: Live View, Video, Camera, Event, Schedule, Network, System, and Customize. The 'Event' tab is selected. Below it, there are sub-tabs: Event Server, Motion Detection, I/O Ports, and Event Configuration. The 'Event Server' sub-tab is active. It displays an 'Event Server List' table with columns: Name, Protocol, Network Address, Upload Path, and User Name. The table is currently empty. Below the table, there are two buttons: 'AddFTP..' and 'Remove'. A note below the buttons states: '(Note: The maximum number of event servers is 10.)'

3.6.1.1 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.

The screenshot shows the 'FTP Server' configuration page. It has two main sections: 'FTP Server' and 'Login Information'. The 'FTP Server' section contains fields for Name (lab), Network Address (192.168.0.252), Upload Path (/ICA-HM125), and Port (21). The 'Login Information' section contains fields for User Name (planet) and Password (masked with dots). A 'Save' button is located at the bottom of the form.

FTP Server:

Name:

User can specify a FTP server as wish. Therefore, user needs to specify a name for each FTP setting.

Network:

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

Upload Path:

Set working directory path of FTP server.

Port:

Set port number of FTP service.

Login Information:**User Name:**

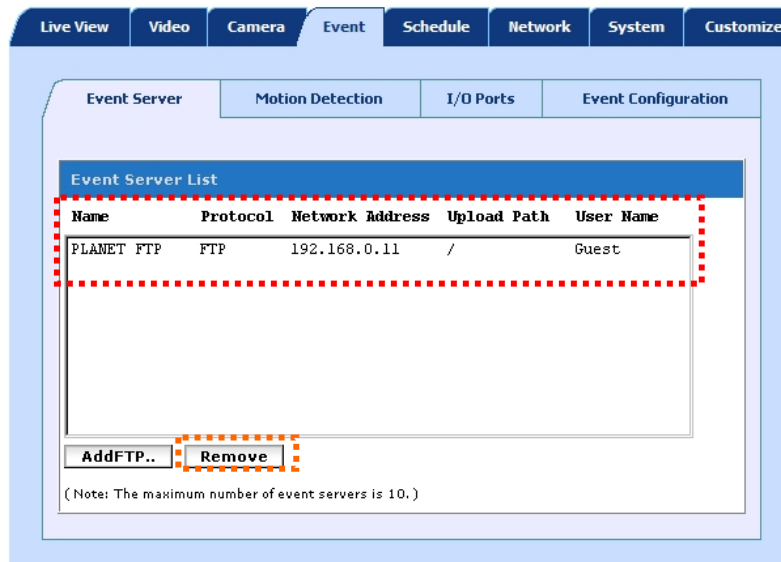
Type the user name for the FTP server.

Password:

Type the password for the FTP server.

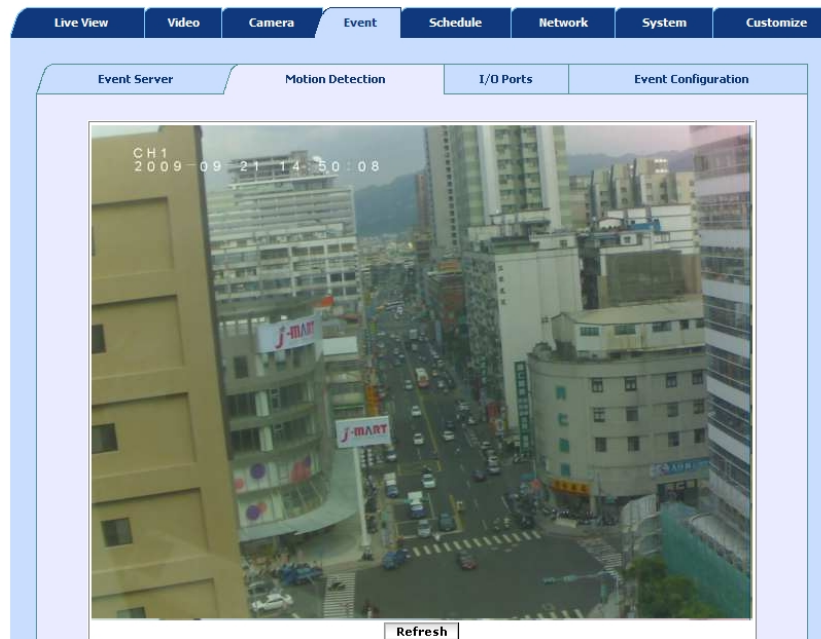
3.6.1.2 Event Server Remove

When want to delete the unnecessary servers, user just need to click **Remove** button to delete selected event servers. (Circled in red)

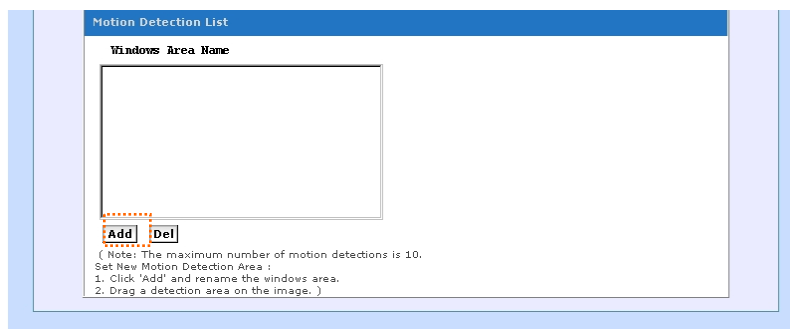


3.6.2 Motion Detection

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



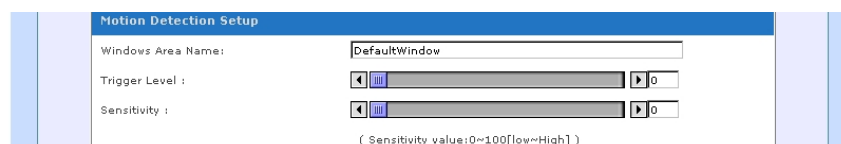
Add a motion detection area please click on **Add** to set up a detection area as indicated below.



Motion Detection List:

Add and Del:

To add or delete the motion windows. User can specify up to 10 areas to monitor the video captured by this device. By dragging mouse on the bar, you can change the trigger and sensitivity level of the detect motion area accordingly.

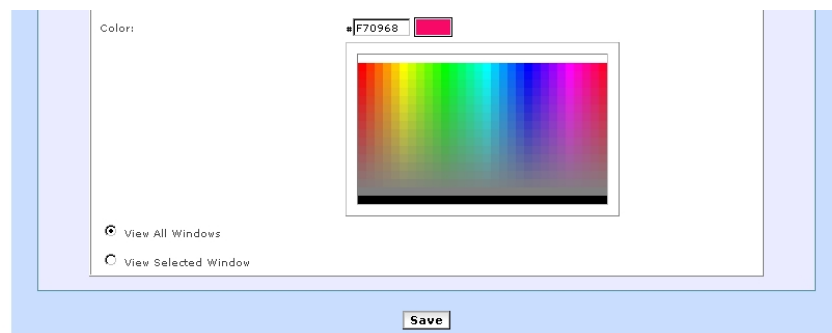


Motion Detection Setup:

Window Area Name:
Name of the specified motion area.

Trigger Level:
Defines the trigger level of motion detection for this detection area.
(0~100, low~high)

Sensitivity:
Defines the sensitivity value of motion detection. The higher value will be more sensitivity. (0~100, low~high)



Color: Select color for detection area indication.

View All Windows: Displays all detection windows on screen.

View Selected Window: Only displays selected detection window on screen.

3.6.3 I/O Ports

The Camera can be activated by the external sensor that senses physical changes in the area Camera is monitoring. These changes can include intrusion detection or certain physical change in the monitored area.

The screenshot shows a web interface with a top navigation bar containing tabs: Live View, Video, Camera, Event, Schedule, Network, System, and Customize. The 'Event' tab is selected. Below it, there are sub-tabs: Event Server, Motion Detection, I/O Ports, and Event Configuration. The 'I/O Ports' sub-tab is active. The main content area displays three configuration sections:

Input Ports Setting 1	
Name:	Input1
Current State:	high

Input Ports Setting 2	
Name:	Input2
Current State:	high

Output Ports Setting	
Name:	Output1
Current State	low

Input ports setting:

Name:

The field needs to specify a name for input sensor setting.

Current Status:

The field displays the input port current status.

Output Ports setting:

Name:

The field needs to specify a name for output sensor setting.

Current Status:

The field displayed the output port current status.

3.6.4 Event Configuration

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

The screenshot shows the 'Event Configuration' tab within a larger menu. The top navigation bar includes 'Live View', 'Video', 'Camera', 'Event' (selected), 'Schedule', 'Network', 'System', and 'Customize'. Below this, the 'Event Configuration' sub-tab is active, showing options for 'Event Server', 'Motion Detection', 'I/O Ports', and 'Event Configuration'. The 'Event Record File' section has a 'File Format' dropdown set to 'JPEG'. The 'Event Type List' section contains a table with columns: Name, Status, Enable, Trigger, and Actions. Below the table are 'Add...' and 'Remove' buttons. A note at the bottom states: '(Note: The maximum number of events is 10. Fu=FTP Upload, Eu=Email Upload, Du=Disk Upload, O=Output Port, En=Email Notification.)'.

To add an event trigger, please click on [Add](#) and setup panel will be expanded.

The 'Event Type Setup' panel is shown with the following fields and options:

- Name:** Text input field containing 'NewEvent'.
- Set min time between triggers:** Time input field set to '00:00:00' with a '(max 23:59:59)' label.
- Respond to Trigger:** Radio button options: 'Always' (selected), 'Only during time frame', and 'Never'.
- Only during time frame:** Radio button options for days: 'Sun', 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat'.
- Start Time :** Time input field set to '00:00:00' with a '(max 23:59:59)' label.
- Duration :** Time input field set to '000:00:00' with a '(max 168:00:00)' label.
- Trigger by:** Dropdown menu with a downward arrow.
- When Triggered...** Section with checkboxes: 'Upload Images', 'Activate Output Port', and 'Send Email Notification'.
- Save** button at the bottom.

Event Type Setup:**Name:**

Name of the Event or Schedule.

Set min time between trigger:

Set the time interval between each trigger.

Respond to Trigger:

Set the time period for the trigger.

- ✓ **Always:**
Active the selected event immediate and continuous.
- ✓ **Only during time frame:**
Choose a day and the starting time then configure the duration time (168hrs = 24x7). If duration time is set to 168(hrs), it is the same as choosing "Always"
- ✓ **Never:**
Stop the selected event immediately.

Trigger by:

Select the triggered sources with event trigger.

When Triggered ...:**Upload Images:**

Upload captured image to event server once event triggered.

Activate Output Port:

Activate the external alarm once event triggered.

Send Email Notification:

Send notification through SMTP server once event triggered.

3.7 Schedule Configuration

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

3.7.1 General Setting

The page define the day (specified by days of a week) and time (specified by each single hour) for that will be recording during the scheduled period.

Note that only video data will be recorded. User can select which video stream should be recorded, and the size of each sliced file. When the check box is ticked and setting is saved, recording process starts. Recording files are saved to the SD storage.

Live View Video Camera Event **Schedule** Network System Customize

General Storage

☒ Enabled

Stream: ☒ 1 ☐ 2 ☐ 3

Slice File Size: 50 (MB)

Save Device Type: Local Disk

All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon.																								
Tue.																								
Wed.																								
Thu.																								
Fri.																								
Sat.																								
Sun.																								

☒ Scheduled

Save

Enable: Enable or disable this schedule record.

Stream: Select one of the stream profiles for video recorded.

Slice File Size: Define the sliced file size for each recording files.

Save Device type: The storage device information.

3.7.2 Storage Setting

The page display the storage information, includes disk size info, type and status. The warning message shows when recording is on process. The SD card should not be removed during the recording process.

The screenshot shows the 'Storage' tab of a web interface. It contains two main sections: 'Disk Status' and 'Local Disk Setting'. The 'Disk Status' section displays the following information:

Disk Status	
Model Name:	/dev/mmcblk0p1
Total Size:	244972 KB
Used Size:	205600 KB
Free Size:	39372 KB
Disk Type:	SD
Disk Status:	normal

Below the 'Disk Status' section are three buttons: 'Refresh', 'Browse', and 'Remove Event Images'. The 'Local Disk Setting' section has a checked 'Enabled' checkbox, a 'Save' button, and a 'Format' button. The 'Type' for formatting is set to 'FAT32'.

Disk Status:

Refresh:

User can click the button refreshes the status displayed of SD card.

Browse:

User can click the button to download the file on SD card.

Remove Event Image:

User can click the button remove the event image.

Local Disk Setting:

The Internet Camera support the local SD disk feature, user can mark the check box to active the function.

Format:

When insert a new SD/SDHC card, user simply click the button to complete the disk format operation in the Internet Camera.

3.8 Network Configuration

Use this menu to configure the network to connect the Internet Camera and the clients.

3.8.1 Network General Settings

This section provides the menu of connecting the Internet Camera through Ethernet cable.

The screenshot shows a web interface for network configuration. At the top, there are tabs: Live View, Video, Camera, Event, Schedule, Network (selected), System, and Customize. Below these, there are sub-tabs: General (selected), Advanced, SMTP(E-Mail), and DDNS. The General tab contains the following settings:

- ☐ DHCP Service
- ☒ Static IP Address:
 - IP Address:
 - Netmask:
 - Gateway:
 - DNS 1:
 - DNS 2:
- ☒ Enable ARP/Ping

At the bottom right of the form is a **Save** button.

DHCP Service:

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 you do not select “DHCP Service”, then you need to enter these network parameters by yourself.

Static IP Address:

Please type in IP address, Subnet Mask, Gateway, DNS manually.

IP address :

This IP address is a unique numbers that identifies a computer or device on the LAN. These numbers are usually shown in groups separated by periods, for example: 192.168.0.20

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.

DNS:

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.

Enable ARP/Ping:

Enable the camera to accept ARP or ping packets from the network. If disable this option may provide extra security from intentional ping.

3.8.2 Network Advanced Settings

The screenshot shows the 'Network' tab selected in the top navigation bar. Under the 'Network' tab, the 'Advanced' sub-tab is active. The 'NTP Configuration' section has two radio buttons: 'Obtain NTP server address via DHCP' (unselected) and 'Use the following NTP server address:' (selected). Below the selected option is a text field labeled 'Network address:' containing 'time.stdtime.gov.tw'. The 'HTTP Setting' section has a text field labeled 'HTTP Port:' containing '80'. The 'RTSP Setting' section has a text field labeled 'RTSP Port:' containing '554'. The 'HTTPS Setting' section has a checkbox labeled 'Enable HTTPS' which is unchecked.

NTP Configuration: Configure a NTP (Network Time Protocol) server so that the camera system date and time can be synchronized with a specified Time Server. This configuration is provided for one of the options of system date/time adjustment.

HTTP Setting: The Internet Camera supports changeable HTTP ports. This port is very useful for Intranet usage. Users could assign the 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: <http://192.168.0.20:8080>.

Therefore, the user can access the Internet Camera by either

<http://xx.xx.xx.xx/>, or

<http://xx.xx.xx.xx:xxxx/> to access the Internet Camera.

If multiple devices are installed on the LAN and also required to be accessed from the WAN, then the **HTTP Port** can be assigned as the virtual server port mapping to support multiple devices.

RTSP Setting: **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)

HTTPS Setting: **Enable HTTPS:**
The HTTPS service is a combination of the Hypertext Transfer Protocol with the SSL/TLS protocol to provide encryption and secure identification of the camera access.

The screenshot shows a web-based configuration interface with a light blue background. It contains three distinct sections, each with a blue header bar and a white content area. The first section, 'Bonjour Setting', has a checked checkbox for 'Enable Bonjour'. The second section, 'UPnP Notification', also has a checked checkbox for 'Enable UPnP'. The third section, 'NAT Traversal Setting', has an unchecked checkbox for 'Enable NAT Traversal'. A 'Save' button is located at the bottom center of the interface.

Bonjour Setting	
<input checked="" type="checkbox"/>	Enable Bonjour

UPnP Notification	
<input checked="" type="checkbox"/>	Enable UPnP

NAT Traversal Setting	
<input type="checkbox"/>	Enable NAT Traversal

Save

Bonjour Setting:

Enable Bonjour:

The Bonjour service allows camera can be discovered with Apple Safari browser applied that will show in the Bonjour bookmarks menu.

UPnP Notification:

Enable UPnP:

The UPnP function allows camera can automatically be detected and a new icon will be added to “My Network Places” if your operating system is UPnP enabled.

NAT Traversal Setting:

Enable NAT Traversal:

When enabled, the Internet Camera will attempt to configure port mapping in a NAT router on your network.

3.8.3 Network SMTP Settings

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.

The screenshot shows a web interface for configuring SMTP settings. At the top, there are tabs: Live View, Video, Camera, Event, Schedule, Network (selected), System, and Customize. Below these are sub-tabs: General, Advanced, SMTP(E-Mail) (selected), and DDNS. The main content area is titled 'SMTP (email) Setting' and contains the following fields: 'Mail Server:' with a text box containing 'smtphost.yourdomain.name' and a note '(host name or IP address)'; 'Server Port:' with a text box containing '25' and a range '[0..65535]'; an 'Authentication' checkbox which is unchecked; 'User Name:' with a text box containing 'username'; 'Password:' with a text box containing '*****'; and 'From (Email Address):' with a text box containing 'username@yourdomain.name'. Below these fields is a 'Test' section with a 'Send test email to:' text box containing 'mailto@mailto.com' and a 'Send' button. At the bottom of the interface is a 'Save' button.

SMTP (email) Setting:

- Mail Server:**
Type the SMTP server name or the IP address of the SMTP server.
- Server Port:**
Set port number of SMTP service.(The default value is 25)
- Authentication:**
Select the authentication required when you send an e-mail.
- User Name:**
Type the user name for the SMTP server if Authentication is Enable.
- Password:**
Type the password for the SMTP server if Authentication is Enable.
- From (Email Address):**
Type the sender's E-mail address. This address is used for reply e-mails.

Test:

- Send test email to:**
Send a test mail to mail server to check this account is available or not.

3.8.4 DDNS server

DDNS: Stands for Dynamic Domain Name Server

The Internet Camera 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 Internet Camera to use an easier way to remember naming format rather than an IP address.

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. 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.

Dynamic DNS Setting

☐ DDNS Enable

Host Name:
(Link to <http://www.dyndns.org>)

User Name:

Password:

Update Time: (600~86400 Seconds)

Response:

Dynamic DNS Setting:	DDNS: To enable or disable the DDNS service here.
	DDNS Host: The domain name is applied of this device.
	User Name: The user name is used to log into DDNS.
	Password: The password is used to log into DDNS.
	Update Time: Periodically, the Internet Camera updates its access info to sever in the configured time.
	Response: The Internet Camera responds the connection info.

3.9 System Maintain

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

3.9.1 System Information

User can use this menu to get the system and network information of this camera and detailed descriptions of every setting will be given below.

The screenshot shows a web interface for system maintenance. At the top, there are tabs: Live View, Video, Camera, Event, Schedule, Network, System, and Customize. The 'System' tab is selected. Below it, there are sub-tabs: Information, User, Date & Time, Server Maintenance, and Log Service. The 'Information' sub-tab is active, displaying the following information:

System	
Model:	
System up time:	2009-09-21 13:26:17
Firmware version:	1.0.2_rc10.4391
MAC Address:	00:30:4f:01:04:ff
ActiveX Control version:	1.0.1.131

Ethernet	
Status:	Connected
Mode:	DHCP
IP Address:	210.66.155.90
Netmask:	255.255.255.224
Default Gateway:	210.66.155.94

DNS Server	
Primary DNS IP address:	168.95.1.1
Secondary DNS IP address:	168.95.192.1

DDNS	
Status:	no

At the bottom of the interface, there is a 'Refresh' button.

3.9.2 User Account Configuration

If users wish to allow other people to view the live image captured by this camera, but don't want to allow them to modify system settings that can give them user-level user name and password, so they can only view the image and can not change any system setting. When they want to click menus other than Camera, they will see the following message informing that they don't have permission to do that:

The screenshot shows a web interface for user account configuration. At the top, there is a navigation bar with tabs: Live View, Video, Camera, Event, Schedule, Network, System (selected), and Customize. Below this, there is a sub-navigation bar with tabs: Information, User (selected), Date & Time, Server Maintenance, and Log Service. The main content area is divided into two sections. The first section, titled 'User Setting', contains a checkbox labeled 'Enable anonymous login (no user name or password required)'. The second section, titled 'User List', contains a table with two columns: 'User Name' and 'User Group'. The table has one row with the values 'admin' and 'Administrator'. Below the table are two buttons: 'Add...' and 'Remove'. At the bottom of the main content area, there is a 'Save' button.

User Name	User Group
admin	Administrator

User Setting: Enable anonymous login (no user name or password required):
The check box allow any one viewing the video once connected. Otherwise, only users in database can view the video after login.

3.9.3 Date & Time Configuration

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

The screenshot shows a web interface for configuring the date and time of an IP camera. The interface has a top navigation bar with tabs: Live View, Video, Camera, Event, Schedule, Network, System, and Customize. The 'System' tab is selected, and within it, the 'Date & Time' sub-tab is active. The main content area is divided into two sections: 'Current Server Time' and 'Set Server Time'. The 'Current Server Time' section displays the current date as '2009-09-21' and the current time as '13:26:59'. The 'Set Server Time' section contains several options: a checked checkbox for 'Automatically adjust for daylight saving time changes', a 'Time Mode' section with radio buttons for 'Synchronize with computer time' (selected) and 'Synchronize with NTP server' (with a blue link), a 'Time zone' dropdown menu set to 'GMT+08 (Beijing, Hong Kong, Shanghai, Taipei)', and a 'Set Manually' option with input fields for 'Date' (2009-09-21) and 'Time' (13:23:20). Examples for date and time formats are provided below the input fields. A 'Save' button is located at the bottom of the configuration area.

Current Server Time: **Date & Time:**
Displays the date and time of the Internet Camera.

Set Server Time:

- Automatically adjust for daylight saving time changes:**
Sets up the date and time of daylight saving stop time.
- Synchronize with computer time:**
Click this option to enable time synchronization with PC time.
- Synchronize with NTP server:**
Click this option if you want to synchronize the Internet Camera's date and time with those of time server called NTP server (Network Time Protocol).
- Time zone:**
Please select the time zone of the country / city of resident from dropdown menu here.
- Set Manually:**
Click this option to set time and date manually.

3.9.4 Server Maintenance

This menu allows user to upgrade firmware, clear all settings, reboot the IP camera, and backup all parameters.

The screenshot shows a web interface for 'Server Maintenance'. At the top, there are tabs: Live View, Video, Camera, Event, Schedule, Network, System (selected), and Customize. Below these, there are sub-tabs: Information, User, Date & Time, Server Maintenance (selected), and Log Service. The main content area is titled 'Maintain Server' and contains several sections: 1. 'Reboot' and 'Load default' buttons. 2. 'Firmware Upgrade' section with fields for Model, Firmware Version (1.0.2_rc10.4391), MAC Address (00:04:29:01:04:ff), and ActiveX Version (1.0.1.131). It includes a 'Specify the firmware to upgrade:' field with a 'Browse...' button and an 'Upgrade' button. 3. 'Backup' section with a description 'Save all parameters and user-defined scripts to a backup file.' and a 'Backup' button. 4. 'Upload Setting' section with a description 'Use a saved backup file to return the unit to a previous configuration.' and a 'Specify the backup file to use:' field with a 'Browse...' button and an 'Upload' button. 5. 'Add Language' section with a 'Choose language:' dropdown (set to 日本語), a link to '/lang/en/lang.js', and a 'Select language file to upload:' field with a 'Browse...' button and an 'Upload Language' button.

Maintain Server:

Reboot:

The Internet Camera is restarted without changing any of the settings.

Load Default:

Recall the Internet Camera hard factory default settings. Note that click this button will reset all device's parameters to the factory settings including the IP address.

Firmware Upgrade:

The Internet Camera supports new firmware upgrade.

- Step 1. Close all other application programs which are not necessary for firmware update.
- Step 2. Make sure that only you access this device at this moment.
- Step 3. Disable Motion Detection function.
- Step 4. Select "**Firmware name**".
- Step 5. Select the Firmware binary file.

- Step 6. Once the firmware file was selected, select “Upgrade”.
- Step 7. The upgrade progress information will be displayed on the screen.
- Step 8. A message will be shown while the firmware upgraded. Once the upgrading process completed, the Internet Camera will reboot the system automatically.

Please wait for upgrade procedural finished, and then you can use PLANET IPInstaller to search the Internet Camera again.

Warning!!!

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

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.

Backup:

Save all parameters and user-defined scripts to backup file:

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.

Upload setting:

Specify the backup file to use:

Click the “Browse” button to locate the saved backup file and then click the “Restore Setting” button. The settings will be restored to the previous configuration.

Add Language

Choose language:

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

Select language file to upload:

User can manually update other language into IP camera through language file upload.

3.9.5 Log Service

User can check the system log information of the camera, most system operations and/or process will be kept in a log system. The link provided the review of these records.

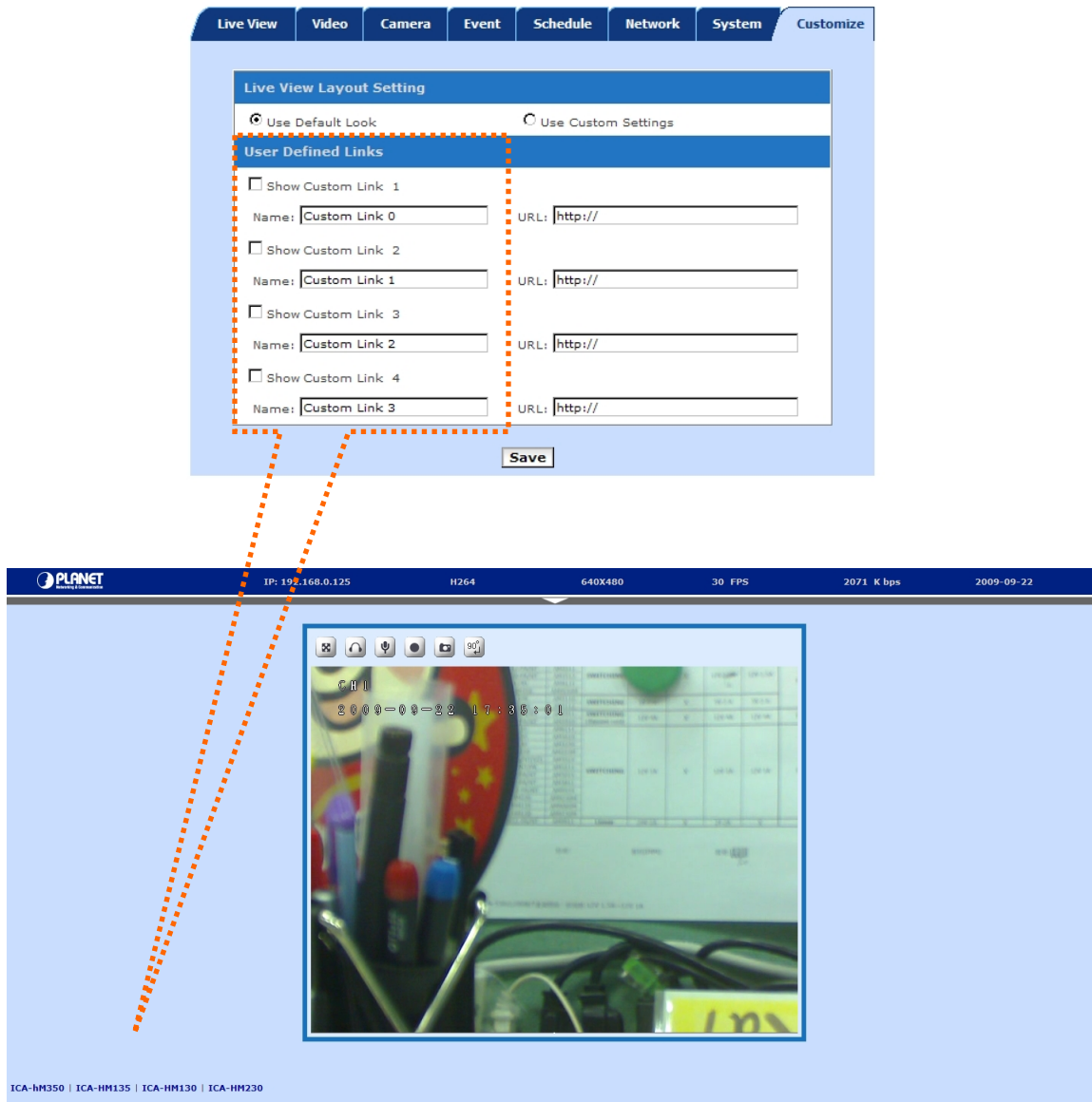


3.10 Customize

The manual allow user can have custom web style, manual change the background, text color and some description, etc.

3.10.1 Use Default Look

The parts may let user can manual add four hyperlinks at the live view page, user can type in other camera IP or any website you want into the URL field.



3.10.2 Use Custom Settings

The features allow the user can have custom settings for background color, text color and camera description evens upload image to change.

Custom Settings

Modify the Default Look:

Background Color: ☒ Default ☐ Own:

Text Color: ☒ Default ☐ Own:

Background picture: ☒ None ☐ External:

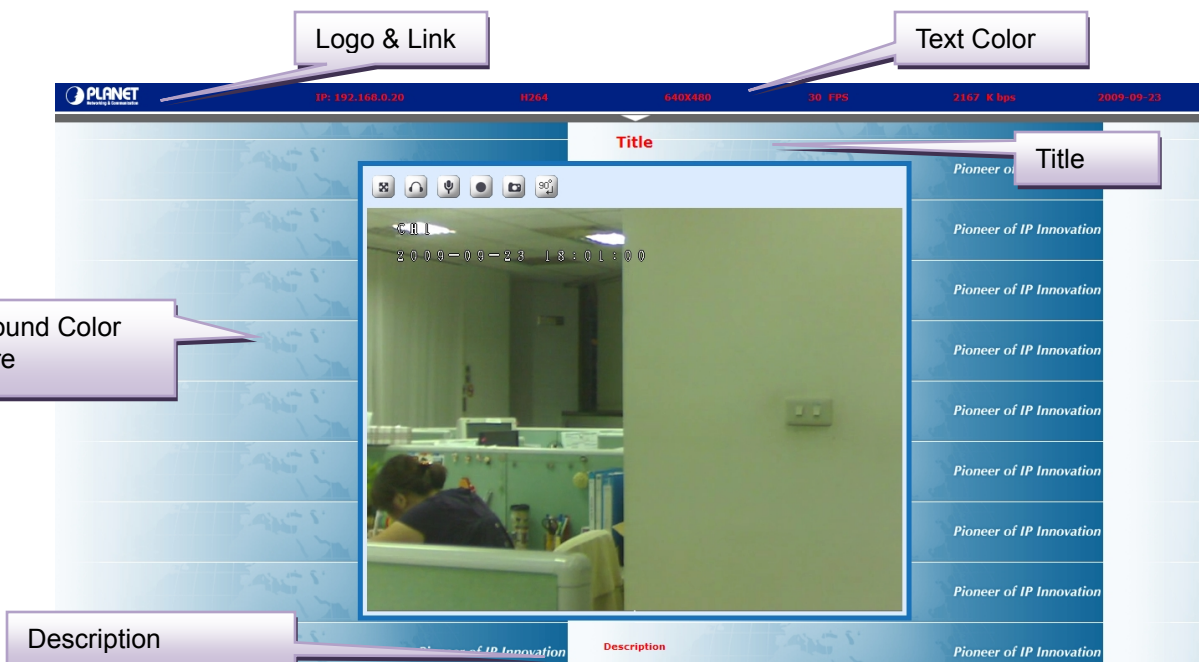
Title: ☒ None ☐ Default ☐ Own:

Description: ☒ None ☐ Default ☐ Own:

Logo Link: ☒ None ☐ Default ☐ Own:

Logo: ☐ None ☒ Default ☐ External: ☐ Own

Select image file to upload:

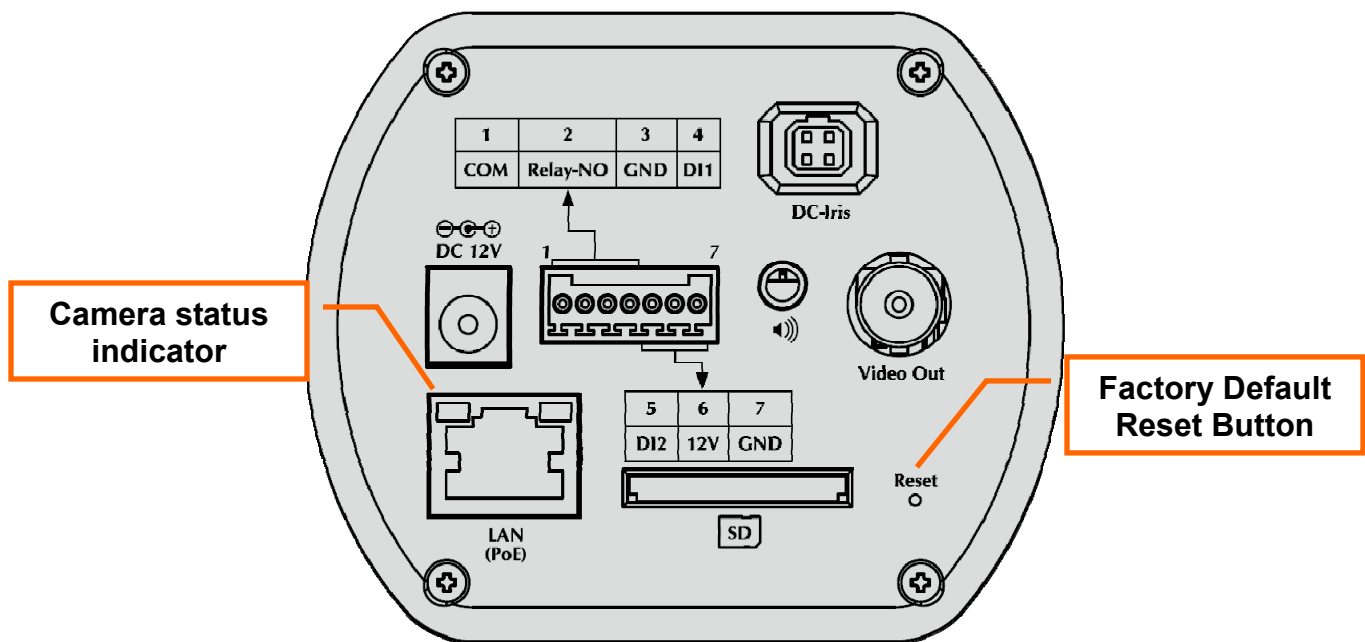


Appendix A: Reset Factory Default Settings

There is a button hidden in the pinhole near to the RJ-45 connector. This button is used to restore the all factory default settings. Sometimes restarting the Internet Camera 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.

Restore the Internet Camera:

1. Unplug the power jack to turn of the power of ICA-HM125.
2. Insert a pin into the reset hold as indicated with orange in the below figures. Sense a button and keep it pressed until instructed to release.
3. Plug in the power jack to turn ICA-HM125, in about 20 seconds the LED indicator will be flashing.
4. Release the button. (Remove the pin form the reset hold)
5. The ICA-HM125 should now back to factory default. Have an access to the Internet Camera by changing to the attempt IP address from the default 192.168.0.20.



NOTE: Restoring the factory default setting will lose the all previous settings included IP address forever. User needs to run the PLANET IPInstaller program to search the unit and configure it to let the Internet Camera work properly again.

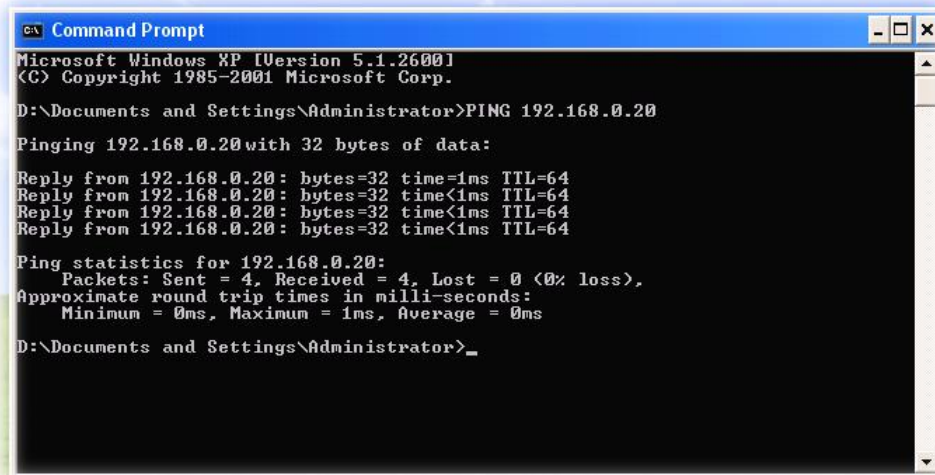
Appendix B: PING IP Address

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 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
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
1600x1200 (UXGA)	600 ~ 1500k byte per frame	NA	640kbps~6144kbps @ 15fps

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

NOTE: *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, 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 of the Networked Device in order to let the outside administrator be able to access through internet.

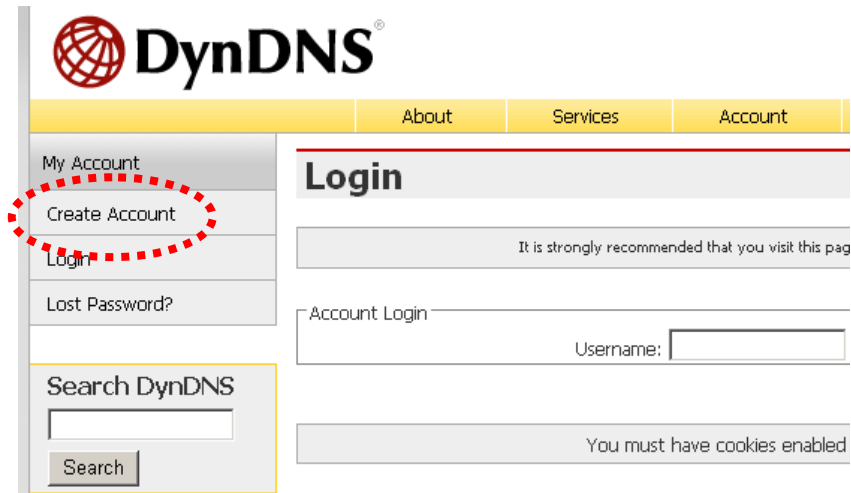
3. Application Steps – DDNS & Domain Name

(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
[Search Box]
Search

Login

It is strongly recommended that you visit this page securely.

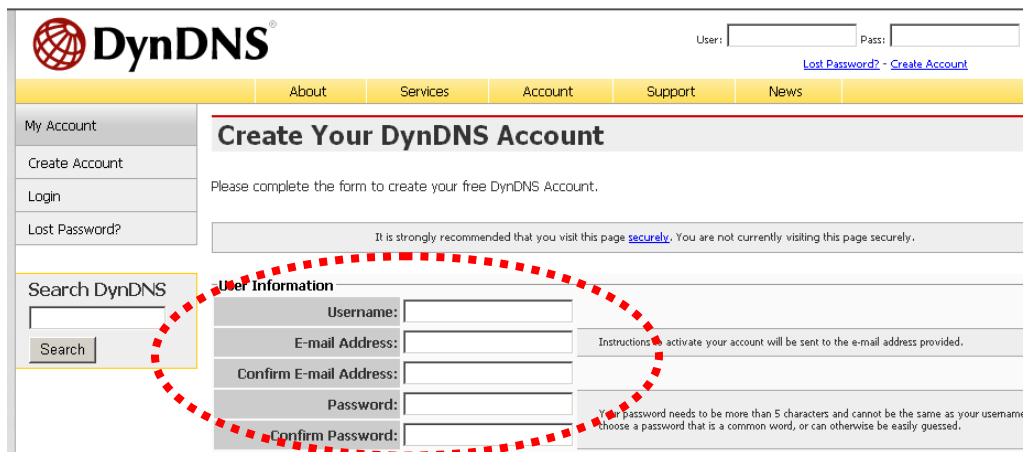
Account Login

Username: [Input Field]

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: [Input Field] Pass: [Input Field]

[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: [Input Field]

E-mail Address: [Input Field]

Confirm E-mail Address: [Input Field]

Password: [Input Field]

Confirm Password: [Input Field]

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

Your password needs to be more than 5 characters and cannot be the same as your username. Choose a password that is a common word, or can otherwise be easily guessed.

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

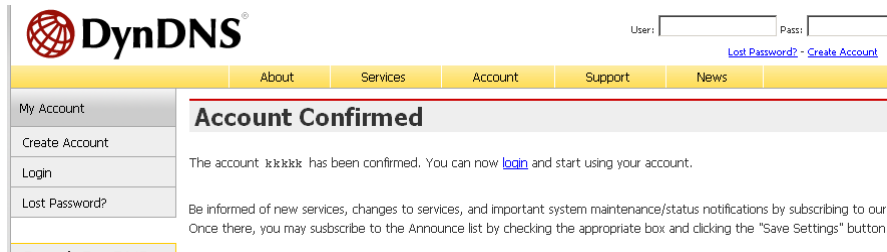
Your DynDNS Account 'kkkkk' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:

https://www.dyndns.com/account/confirm/oDDGDYN75qTJk_ICGba6vQ

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

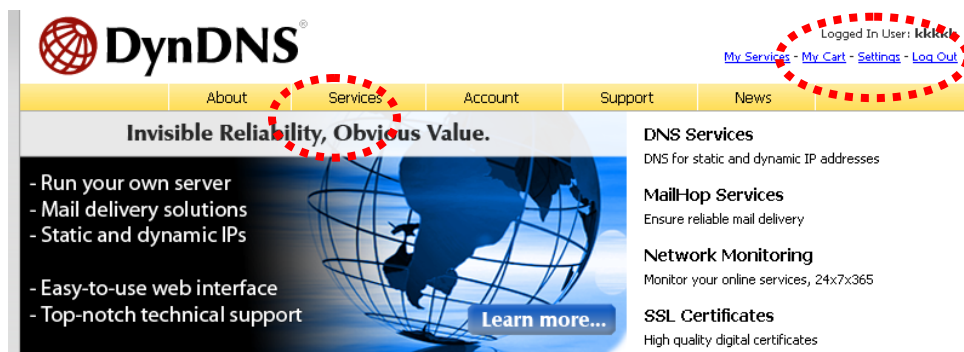


- (6). Enter the web page <http://www.dyndns.org/> again. Input your username and password that you just applied to login administration interface of DDNS server.

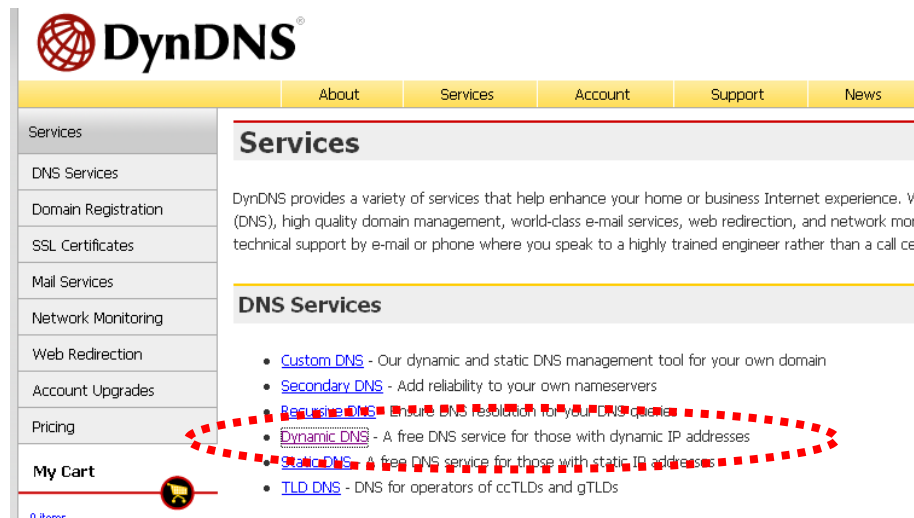


- (7). If the correct username and password are input, you can see the following picture at the top-right of the login page.

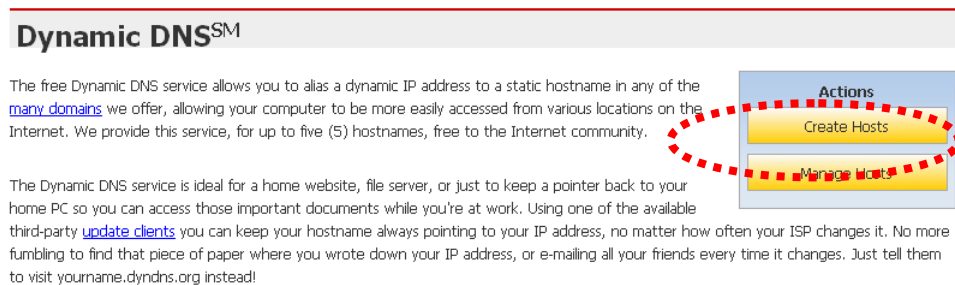
- (8). Click the "Services".



(9). Click the “[Dynamic DNS](#)”.



(10). Click the “[Create Hosts](#)”.



(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. It has four input fields: 'Hostname:', 'IP Address:', 'Enable Wildcard:', and 'Mail Exchanger (optional):'. A red arrow labeled '1' points to the 'Hostname:' field. A dropdown menu is open next to the 'IP Address:' field, showing a list of domain options. A red arrow labeled '2' points to the 'dyndns.org' option in the list. To the right of the dropdown, a red arrow labeled '3' points to the 'Add Host' button. There is also a 'Reset Form' button next to it.

4. Setup the DDNS of Network Device

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

Appendix E:

Configure Port Forwarding Manually

The Internet Camera can be used with a router. If the Internet Camera 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 Internet Camera 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

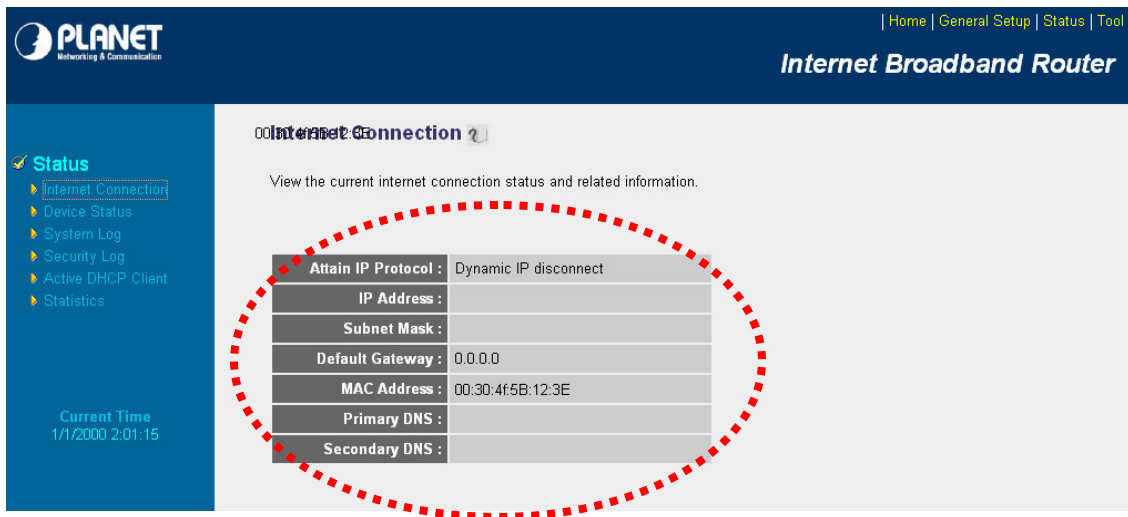
1. Assign a local/fixed IP address to your device

The Internet Camera must be assigned a local and fixed IP Address that allows it to be recognized by the router. Manually setup the Internet Camera 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.

The screenshot shows the 'Virtual Server' configuration page of a Planet Internet Broadband Router. The left sidebar contains a menu with options: System, WAN, LAN, Wireless, QoS, NAT (selected), and Firewall. Under NAT, there are sub-options: Port Forwarding, Virtual Server (highlighted with a red box), Special applications, UPnP Setting, and ALG Settings. The main content area is titled 'Virtual Server' and includes a description: '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).' Below the description is a checkbox labeled 'Enable Virtual Server' which is checked. There is a table for adding new virtual servers with columns: Private IP, Private Port, Type, Public Port, WAN Port, and Comment. The table has one row with empty input fields. Below the table are 'Add' and 'Reset' buttons. Further down is a section titled 'Current Virtual Server Table:' with a table showing one entry: Private IP 192.168.0.100, Private Port 80, Type TCP+UDP, Public Port 80, WAN Port WAN1, Comment ICA-HM125, and a 'Select' checkbox. Below this table are 'Delete Selected', 'Delete All', and 'Reset' buttons. At the bottom right are 'Apply' and 'Cancel' buttons.

PLANET
Networking & Communication

Home | General Setup | Status | Tool

Internet Broadband Router

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
<input type="text"/>	<input type="text"/>	Both	<input type="text"/>	WAN1	<input type="text"/>

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	ICA-HM125	<input type="checkbox"/>

Delete Selected 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: Troubleshooting & Frequently Asked Questions

Features	
The video and audio codec is adopted in the device.	<p>The device utilizes H.264 and M-JPEG triple compression to providing high quality images. Where H.264 is standards for video compression and M-JPEG is a standard for image compression.</p> <p>The audio codec is defined as G.711 for RTSP streaming.</p>
The maximum number of user access device simultaneously.	<p>The maximum number of users is limited to 10. 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-T 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 = admin 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"> 1. Restore the factory default setting by press and holding down more than 10 seconds on the device. 2. Reconfigure the device.
Forgot the IP address of the device.	<p>Check IP address of device by using the IPInstaller program or by UPnP discovery or set the device to default by Reset button.</p>

PLANET IPInstaller program cannot find the device.	<ul style="list-style-type: none"> • Re-power the device if cannot find the unit within 1 minutes. • Do not connect device over a router. IPInstaller program cannot detect device over a router. • If IP address is not assigned to the PC which running IPInstaller program, then the program cannot find device. Make sure that IP address is assigned to the PC properly. • Antivirus software on the PC might interfere with the setup program. Disable the firewall of the antivirus software during setting up this device. • Check the firewall setting of your PC or Notebook.
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 IPInstaller program fails to save the network parameters.	Network may have trouble. Confirm the parameters and connections of the device.
UPnP NAT Traversal	
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 Internet 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.
Access this device	
Cannot access the login page and other web pages of the Network Camera from Internet Explorer	<ul style="list-style-type: none"> • Maybe the IP Address of the Internet Camera is already being used by another device or computer. To confirm this possible problem, disconnect the Network Camera from the network first, and then run the PING utility to check it out. • Maybe due to the network cable. Try correcting your network cable and configuration. Test the network interface by connecting a local computer to the Network Camera via a crossover cable. • Make sure the Internet connection and setting is ok. • 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. • Network congestion may prevent the web page appearing quickly. Wait for a while. <p>The IP address and Subnet Mask of the PC and Network Camera must be in the same class of the private IP address on the LAN.</p> <ul style="list-style-type: none"> • Make sure the http port used by the Network Camera, default=80, is forward to the Network Camera's private IP address.

	<ul style="list-style-type: none"> • The port number assigned in your Internet Camera might not be available via Internet. Check your ISP for available port. • The proxy server may prevent you from connecting directly to the Network Camera, set up not to use the proxy server. • Confirm that Default Gateway address is correct. • The router needs Port Forwarding feature. Refer to your router's manual for details. • Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details. • Access the Network Camera from the Internet with the global IP address of the router and port number of Network Camera. • Some routers reject the global IP address to access the Network Camera on the same LAN. Access with the private IP address and correct port number of Network Camera. • When you use DDNS, you need to set Default Gateway and DNS server address. • If it's not working after above procedure, reset Network Camera to default setting and installed it again.
Image or video does not appear in the main page.	<ul style="list-style-type: none"> • The first time the PC connects to Internet Camera, a pop-up Security Warning 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. • Network congestion may prevent the Image screen from appearing quickly. You may choose lower resolution to reduce the required bandwidth.
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 "PControl". 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"> • 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. • Make sure that the device isn't conflicting with any other web server running on your LAN.

	<ul style="list-style-type: none"> • Check the configuration of the router settings allow the device to be accessed outside your local LAN. • Check the bandwidth of Internet connection. If the Internet bandwidth is lower than target bit rate, the video streaming will not work correctly.
Image Transfer on e-mail or FTP does not work.	<ul style="list-style-type: none"> • Default Gateway and DNS server address should be set up correctly. • If FTP does not work properly, ask your ISP or network administrator about the transferring mode of FTP server.
Video quality of the device	
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"> • Adjust White Balance. • 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 24 bit or higher if possible within your computer. • 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.
Miscellaneous	
Can not play the recorded .h264 file	Please installed VLC player to play the h264 filed recorded by the Device.

Appendix G: Product Specification

Product	ICA-HM125
Video Specification	
Image Sensor	2 Mega-Pixel CMOS image sensor
Lens	Focal Length 6.0 mm, F1.2, IR correction, CS mount type
Sensitivity	1.0V/lux(at F2.0)
IR Cut Filter	Removable IR Cut Filter
Rate Control	CBR (Constant Bit Rate) / VBR (Variable Bit Rate)
Image Control	AWB, AES
Video Encoder	H.264 / M-JPEG
Effective Pixels	1600 x 1200 pixels
Video Resolution	1600 x 1200 / 1280 x 720 / 800 x 600 / 640 x 480 / 320 x 240
Frame Rate	UXGA Up to 15fps HD-720p / SVGA / VGA / QVGA Up to 30fps
View Angle	Horizontal: 43 Degree / Vertical: 33 Degree
Motion Detection	10 area definable
Audio Specification	
Audio Codec	G.711 PCM
Audio I/O	Audio in: Internal Microphone / Audio out: External Speaker
Audio Streaming	One-Way or Two-way
Network and Configuration	
Network Interface	1 x RJ-45
Network Standard	IEEE 802.3 / IEEE 802.3u
Network Protocol	TCP/IP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, UPnP, RTSP
Browser / Software	Microsoft ® Internet Explorer 6.0 or later, Cam Viewer Plus Lite/Pro
Environment Specifications	
Power Requirement	12V DC, 2 A IEEE 802.3af
Dimension (W x D x H)	86 x 78 x 70 mm
Weight	370 g
Power Consumption	500mA max
Operating Temperature	-0 ~ 50 Degree C
Operating Humidity	20 ~ 80% (non-condensing)
Emission	CE, FCC

EC Declaration of Conformity

For the following equipment:

*Type of Product : 2 Mega-Pixel H.264 Box IP Camera

*Model Number : ICA-HM125

* 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 55022	(2006 + A1: 2007, Class B)
EN 61000-3-2	(2006, Class A)
EN 61000-3-3	(1995 + A1: 2001 + A2: 2005)
EN 55024	(1998+A1: 2001+A2: 2003)
EN 61000-4-2 Edition 1.2	(2001-04)
EN 61000-4-3 Edition 3.0	(2006)
EN 61000-4-4	(2004)
EN 61000-4-5 Edition 2.0	(2005)
EN 61000-4-6 Edition 2.2	(2006)
EN 61000-4-8 Edition 1.1	(2001-03)
EN 61000-4-11 Second Edition	(2004-03)

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

19th Oct., 2009
Date


Legal Signature

PLANET TECHNOLOGY CORPORATION

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

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