MPEG-4 Ethernet/ Wireless Network Camera

User Manual

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About This User's Guide

This user's guide provides instructions on how to install the MPEG 4 Network camera and use it for camera monitoring applications. Camera monitor applications are accessible through an Ethernet or 802.11g wireless local network.

Before You Start

Please read and make sure you understand all the prerequisites for proper installation of your new VLAN Switch. Have all the necessary information and equipment on hand before beginning the installation.

Packing List

Open the shipping carton and carefully remove all items. In addition to this Manual, ascertain that you have:

- One Wireless/ Ethernet Network Camera
- One Camera Stand
- One Antenna (for wireless model)
- One Power Adapter
- One Ethernet Cable
- One Installation CD-ROM containing IPView Pro PLD application installer and Setup Wizard PLD.

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

CAUTION: The Internet Camera must be used with the power adapter included with the device.

System Requirements

Computer

- CPU: Intel Celeron 1.1 GHz or above
- Memory: 128 MB or above
- VGA Resolution: 800 x 600 or above
- 10BASE-T Ethernet or 100BASE-TX Fast Ethernet
- CD-ROM Drive for Setup Wizard PLD on Installation CD-ROM
- IPView Pro PLD Application Users must use Microsoft® Windows® 98SE, ME, 2000 or XP operating system.

Network

- Local Area Network: 10Base-T Ethernet or 100Base-TX Fast Ethernet
- Wireless Local Area Network (wireless model): IEEE 802.11g Wireless LAN

Default Settings

Use the default settings to access the web-based management software and live video display.

Default configuration settings	
Username	This is the Username you will be prompted to enter when you access the MEPG 4 Network camera configuration screens using a Web browser. The default Username is **admin**.
Password	This is the Password you will be prompted to enter when you access the configuration windows using a Web browser. The default Password is **admin**.
IP address	The camera has a default IP address that is used if no DHCP server is detected active on the network. If your network does not have DHCP service, that is, if IP settings are NOT obtained automatically, or if you connect directly to the camera from your computer, the camera will default to IP address 192.168.0.20, make sure your computer is configured to belong to the 192.168.0.X subnet if using the default IP address of the camera.
Subnet Mask	The default subnet mask used if there is no DHCP service detected is 255.255.255.0.

1

Introduction

The MPEG-4 Network Camera transmits live real-time high-quality MPEG-4 video through an Ethernet network or 802.11g wireless LAN* useful for remote monitoring applications. The live video can be viewed remotely and managed through the network from any computer connected to the network. A built-in microphone allows synchronized audio and high-quality video monitoring.
* *For wireless model.*

Features and Benefits

Easy to use - The MPEG-4 Internet Camera is a standalone system with built-in CPU, no special hardware (such as a PC frame capture card) or software required. The camera supports DirectX 9.0; therefore, the only requirement you need is the web browser software such as Internet Explorer 6.0 or above. Once you have a valid IP Address, just connect it and you can view the picture and receive sound from your camera. In addition, the camera's stand allows you to adjust the camera for optimal viewing angle.

Support variety of platforms - The camera supports TCP/IP networking, SMTP e-mail, HTTP and other Internet related protocols. It can be utilized in a mixed operating system environment, including Windows 98SE/ME/ 2000/XP. Moreover, it can be integrated easily into other www/ Intranet applications.

Web configuration - Applying a standard web browser, the administrator can configure and manage the camera directly from its own web page via the Intranet or Internet. Up to 20 user accounts are permitted with privilege setting controlled by the administrator.

Remote Utility - The powerful IPView Pro PLD application assigns the administrator with a pre-defined user ID and password, allowing the administrator to modify the camera settings from the remote site via Intranet or Internet. When new firmware is available, you can also upgrade remotely over the network for added convenience. Users are also allowed to monitor the image, and take snapshots.

Broad Range of Applications - With today's high-speed Internet services, the camera can provide the ideal solution for live video images over the Intranet or Internet for remote monitoring. The camera allows remote access from a web browser for live image viewing, and allows the administrator to manage and control the camera anywhere and anytime in the world. Apply the camera to monitor various objects and places such as homes, offices, banks, hospitals, child-care centers, amusement parks and other varieties of industrial and public monitoring. The camera can also be used for intruder detection; in addition, it can capture still images for archiving and many more applications.

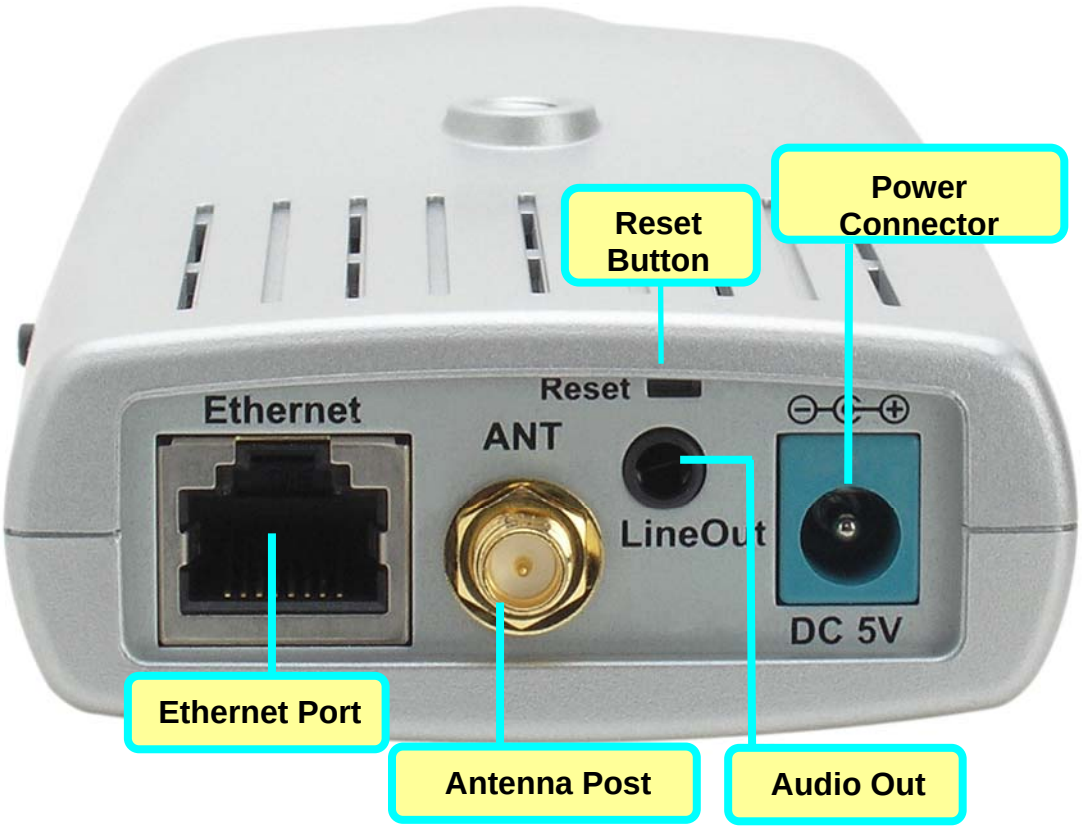
LED Indicators

The LED indicators on the front panel include the **Power**, **Status, WAN**, and **LAN** for the Ethernet ports.

Pwr	**Power:**A steady blue light indicates the Camera is powered on. The camera is not receiving power if the LED is dark.
	WPS: Push WPS button over 3 sec and LED blinking 0.5 time/sec. ▪ success: Lighting and then reboot directly. ▪ Fail: blinking 0.1 time/sec for 10 sec and then reboot directly.
LNK	**Link:**A steady orange light indicates the Ethernet link is valid. The LED will blink when data is transmitted or received through the Ethernet link.

Rear Panel

Connect the power adapter cord and network cables on the rear panel. The reset button is also located on the back of the device.



Ethernet Port	Connect to Ethernet LAN. The port is auto MDI-II/MDI-X and auto-negotiation for port speed.
Power Connector	Connect power adapter shipped with the camera and plug into suitable power source.
Antenna Post	On the wireless model, a threaded post is used for attaching the antenna.
Audio Line Out	The audio line out recepticle is a mini-plug audio connection for speakers.
Reset Button	Use to reset device to factory default settings including IP address and administrator user name and password.

WPS Button

Wi-Fi Protected Setup (WPS) button is located at the side of the camera. The function must to go with wireless stations that support Wi-Fi Protected Setup, or WPS and it makes wireless connection to the AP simple.

1. Before enable the WPS function, make sure the access point supports this function.
2. Enable the WPS by pressing the WPS button at the access point.
3. Press and hold the WPS button until the power LED turns off (about 5 seconds),then the LED blinking 0.5 time/sec means WPS function is working.
4. Wait for 120 seconds at most to see the WPS function is make wireless connection is simple.
5. In the Camera:
   - If WPS success,Pwr LED will lighting and then reboot directly.
   - If WPS fail,Pwr LED will blinking 0.1 time/sec for 10 sec after doing WPS process for 120 seconds and then reboot directly.
6. If WPS fail,please go step 1-4 to re-enable WPS function

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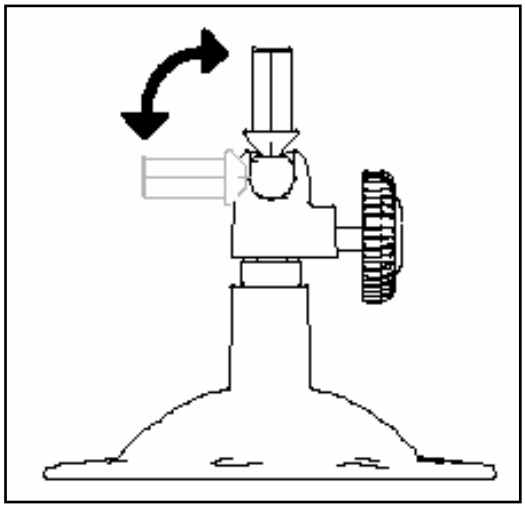
Installing the Camera

The camera should be attached to the stand included in the package. The camera stand can be mounted on a flat surface using the three screw holes on the base of the stand. The camera is intended for indoor use. The camera, the power adapter and power source should be protected from water and moisture, excessive heat, direct sunlight and cold. Make sure the power adapter and cord and Ethernet cable are safely arranged so they do not create a tripping hazard and will not be disturbed by people or objects moving past.

Attach Camera to Stand

The camera is shipped with a camera stand. The swivel ball screw head on the stand can be attached to the bottom screw hole of camera. The swivel ball mount allows the camera to be pointed in a direction and fixed in position. Three holes on the base of the camera stand are used to securely attach the stand to a wall or ceiling.



Connect Ethernet Cable

Insert an Ethernet cable into the Ethernet port to connect the camera to the local area network.

Connect Power and Power On Camera

Attach the external power supply to the DC power input connector located on the rear panel of camera, then connect it toa suitable power source. Check the Power LED indicator on the front of the camera to make sure it is powered on.

CAUTION: The Camera must be used with the power adapter included with the device.

Reset Camera

To reset the system settings to factory defaults, please follow these steps:

1. Leave the camera powered on, do not disconnect the power.
2. Press the reset button and hold (use a paper-clip). See the back panel illustration above to view the location of the reset button.
3. Keep the button pressed about 6 seconds.
4. Release the button.

The camera will then automatically reboot itself. Upon restarting the camera loads the factory default configuration settings including the default IP address **192.168.0.20** and a subnet mask **255.255.255.0**. The adminstrator's default user name is **admin** and the password is **admin**.

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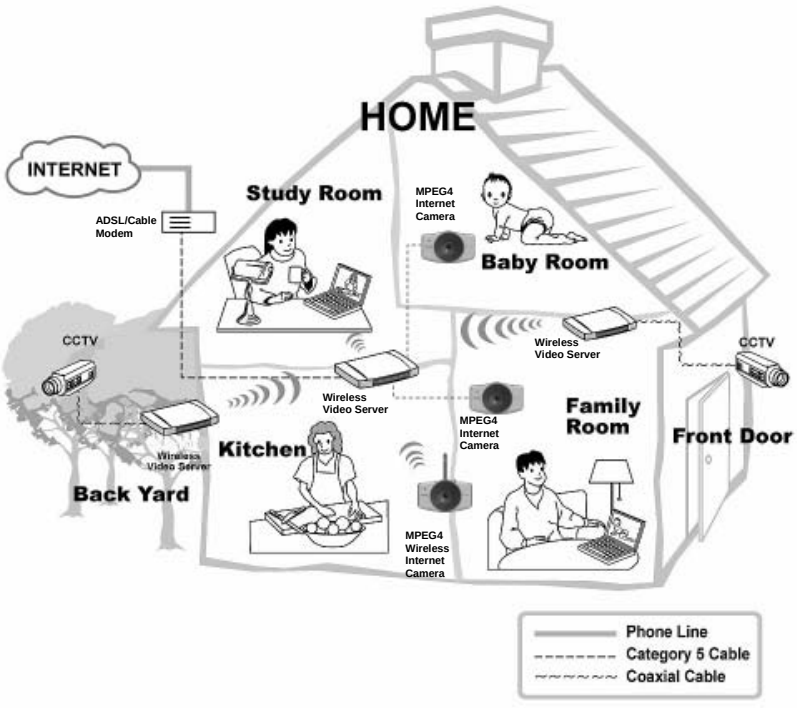
Camera Applications

The camera can be applied in wide variety of applications. With the built-in CPU, it can work as a standalone system that provides a web-based solution transmitting high quality video images and sounds for monitoring purposes. It can be managed remotely, accessed and controlled from any PC desktop over the Intranet or Internet via a web browser. With the easy installation procedure, real-time live images will be available.

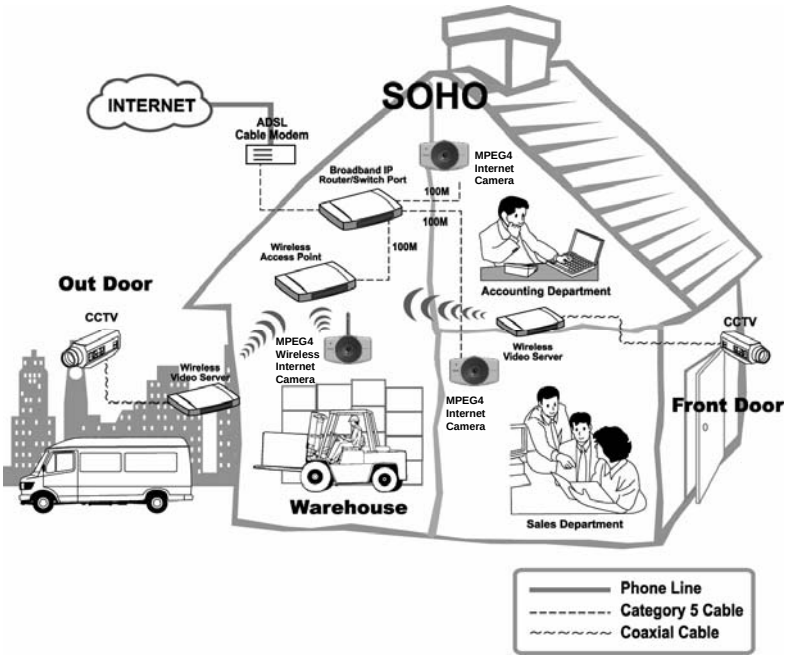
Applications:

- Use a web browser to monitor local and remote places and objects such as construction sites, hospitals, amusement parks, schools and day-care centers etc.
- View image from IPView Pro PLD.
- Configure the camera to save image or send-mail messages with a short video file.

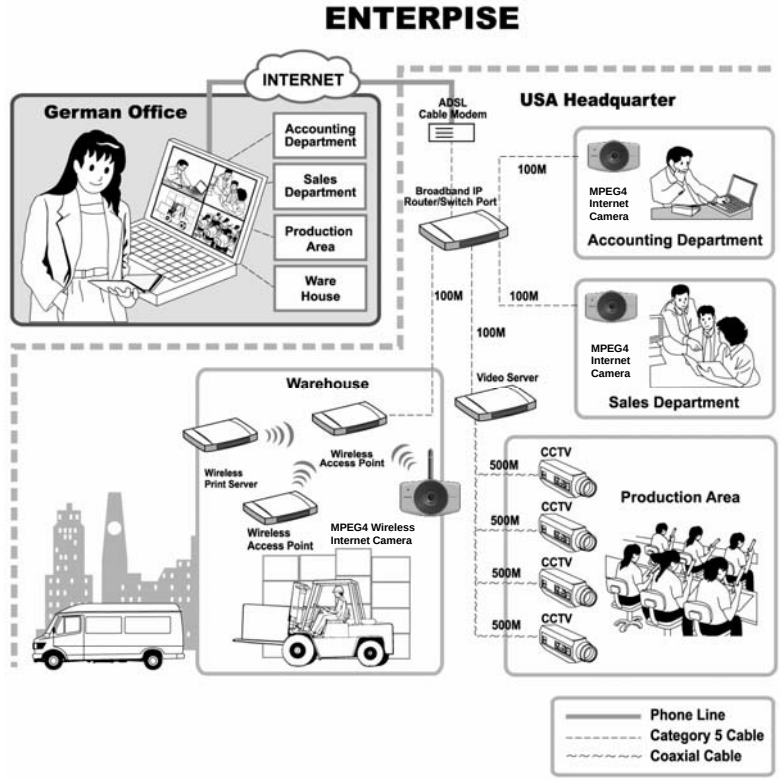
Home Applications



SOHO Applications



Enterprise Applications



4

Using the Camera Web Manager

The camera is easy to use and manage. Use a normal web browser to access the camera's live video display, as well as the configuration software. It is recommended to check and make sure the computer can access and use the camera before placing it in the location where it will be used, especially if it is mounted to a ceiling or other area that is difficult to physically access.

For the initial setup, use the Setup Wizard PLD program located on the CD-ROM included with the camera. Use the Setup Wizard PLD to assign an IP address and other network settings. Once the camera has an IP address, follow the instructions below to access the camera's web management interface used to manage the camera and for video display.

Accessing the Camera Video Display

If the camera is used on a network with an active DHCP server, the camera will detect it and obtain an IP address. If you are using the camera on a network with a DHCP server it is necessary to first determine what the IP address of camera is is. To do this, follow the instructions in the Quick Installation Guide to launch the Setup Wizard PLD software utility used with the MPEG-4 Network Camera.

If your network does not use a DHCP server, the camera will use a default IP address of 192.168.0.20. Use this address to access the web-based management software. Use a web browser and type in **http://** followed by the default IP address, **192.168.0.20** in the address bar of the browser and press the **Enter** key. The URL in the address bar should read: **http://192.168.0.20**

If the login dialog does not appear, check the proxy server settings on your browser.

NOTE: The wrong proxy server settings on your browser can prevent connection to the web manager. If you are having trouble connecting to the web interface of the VLAN Switch, configure the proxy settings to bypass the proxy server or disable use of proxy servers and try to connect again.

To check proxy setting for Windows Internet Explorer:

1. In Windows, click on the **Start** button, go to **Settings** and choose **Control Panel**.
2. In the **Control Panel** window, double-click on the **Internet Options** icon. (Alternatively you can access this **Internet Options** menu using the **Tools** pull-down menu in Internet Explorer.)
3. Click the **Connections** tab and click on the **LAN Settings** button.
4. Verify that the "Use proxy server" option is NOT checked. If it is checked, click in the checked box to deselect the option and click **OK**.

Login

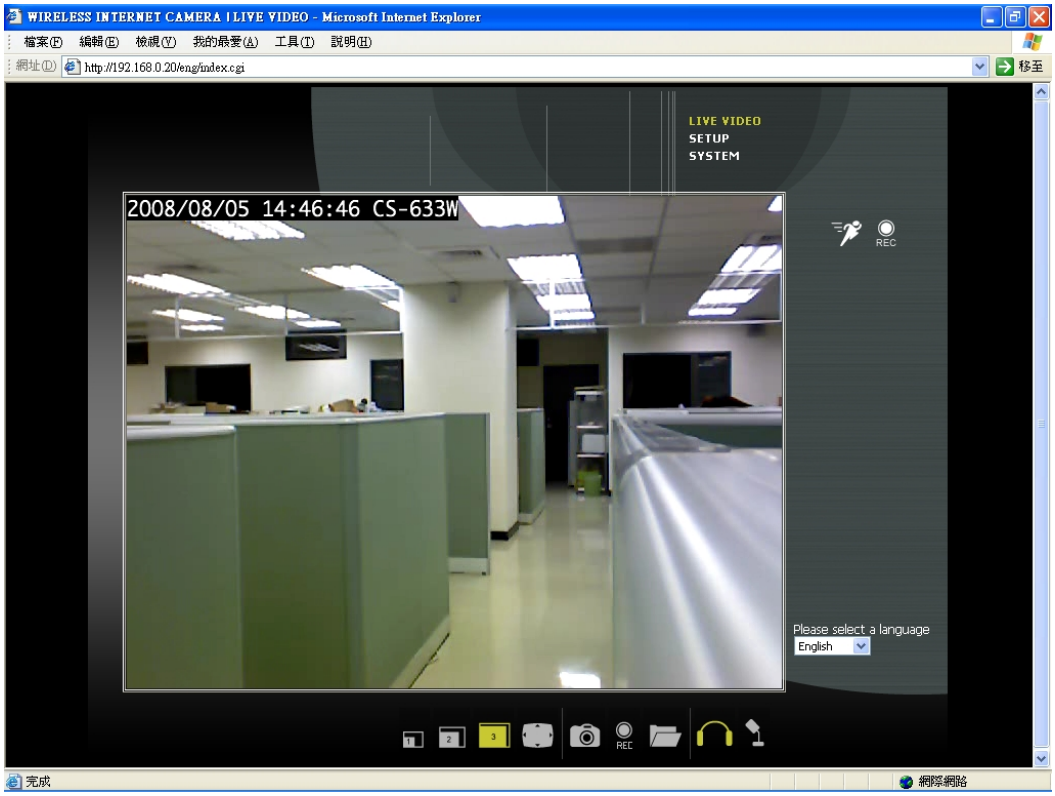
The login dialog appears when accessing the camera.

Login

Type the default user name “admin”, default password “admin” and click on the **OK** button to access the camera’s management interface.

Web Manager and Live Video Display Page

The live video display appears after successful logging in to the web manager.



Camera video display in web manager

Live Video Display User Interface

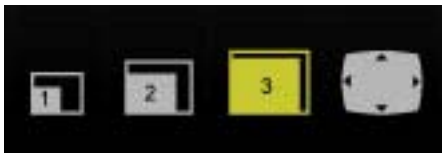
The web manager's live video page presents icons at the bottom used to change the display size, control snapshot and recording of video and audio controls. Links to other management menus are located at the top right porting of the interface. Click the **SETUP** link to view menus used to configure various camera settings including advanced video, wireless and network configuration settings. Click the **SYSTEM** link to view menus used for device management, firmware upgrades, device logs, device reset and configuration settings back up.

Video display page

Zoom In / Zoom out

Move your mouse to the video display area and the cursor becomes a magnifying glass symbol. Then zoom in or out using the left and right button on your mouse. Use the drop down menu to change the language of the web manager interface.

The icons within the user interface are explained below.



Change display size Click on icons to change video display size. The yellow icon shows which size is currently being used.

Record and capture Use the camera icon to take a snapshot of the video display. This will immediately cause the screen capture or snapshot to appear on the desktop in a new browser window. Use the Record (REC) icon to begin recording to the local hard disk. In order to do either of these however, first click on the file icon to locate the file where the snapshot or video recording is to be stored. A file is created automatically in My Documents for this purpose in Windows operating systems; or choose a different file. The REC icon becomes yellow while recording is active.

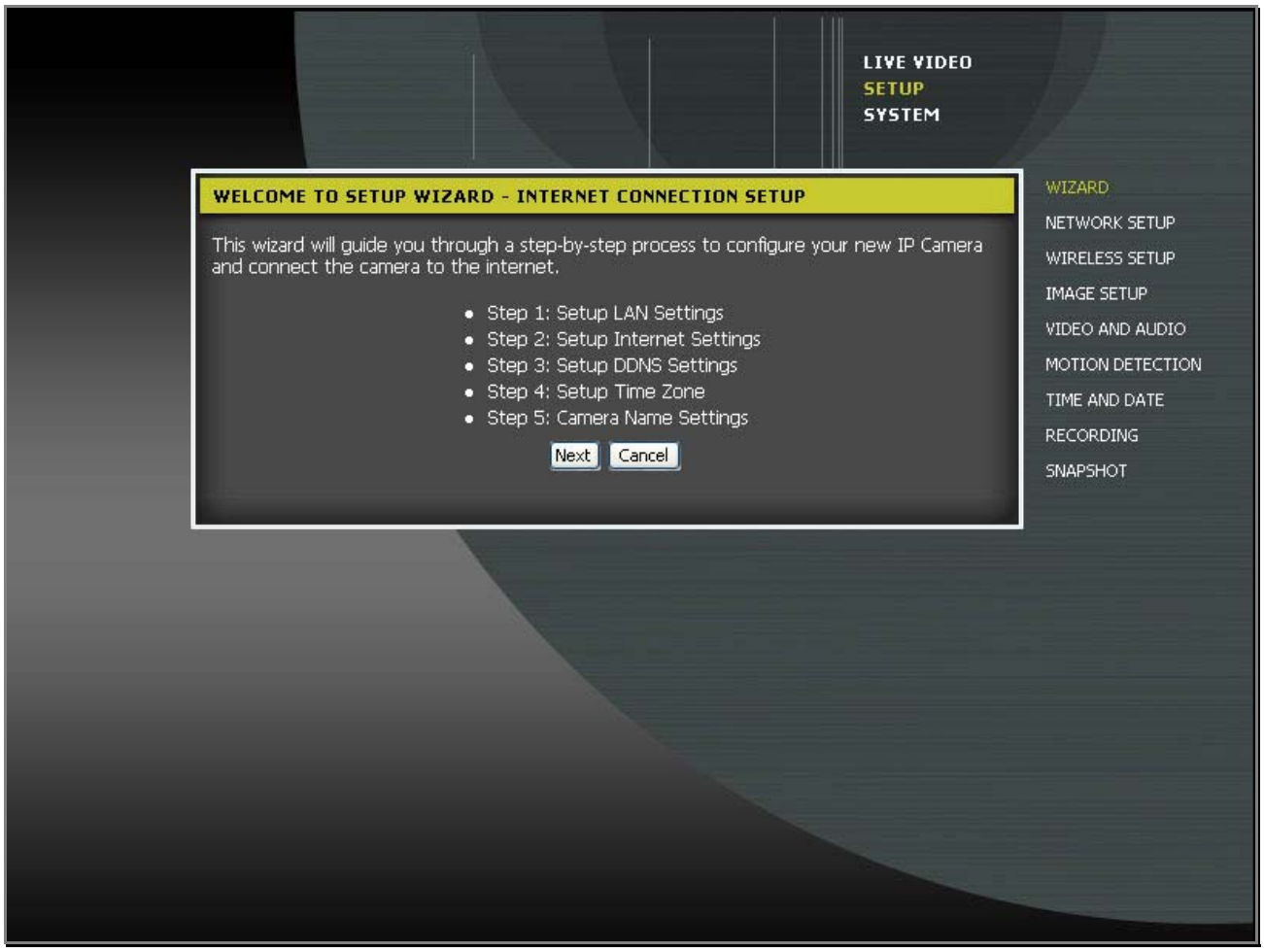
Audio controls Use the headphones icon to activate or deactivate audio monitoring or to turn the audio speaker on and off. The icon appears yellow when the feature is active.

Motion detection indicator The motion detection icon appears yellow when motion is detected in the zone previously configured for motion detection. Motion detection must be configured in the Motion Detection menu located in the Setup Menu directory (see details below).

Recording indicator This appears yellow while the video display is being recorded.

Camera Configuration Setup

Click the **SETUP** link to view the menus in the Setup Menu directory. These menus are used to configure network settings, wireless, video and other settings for the camera.



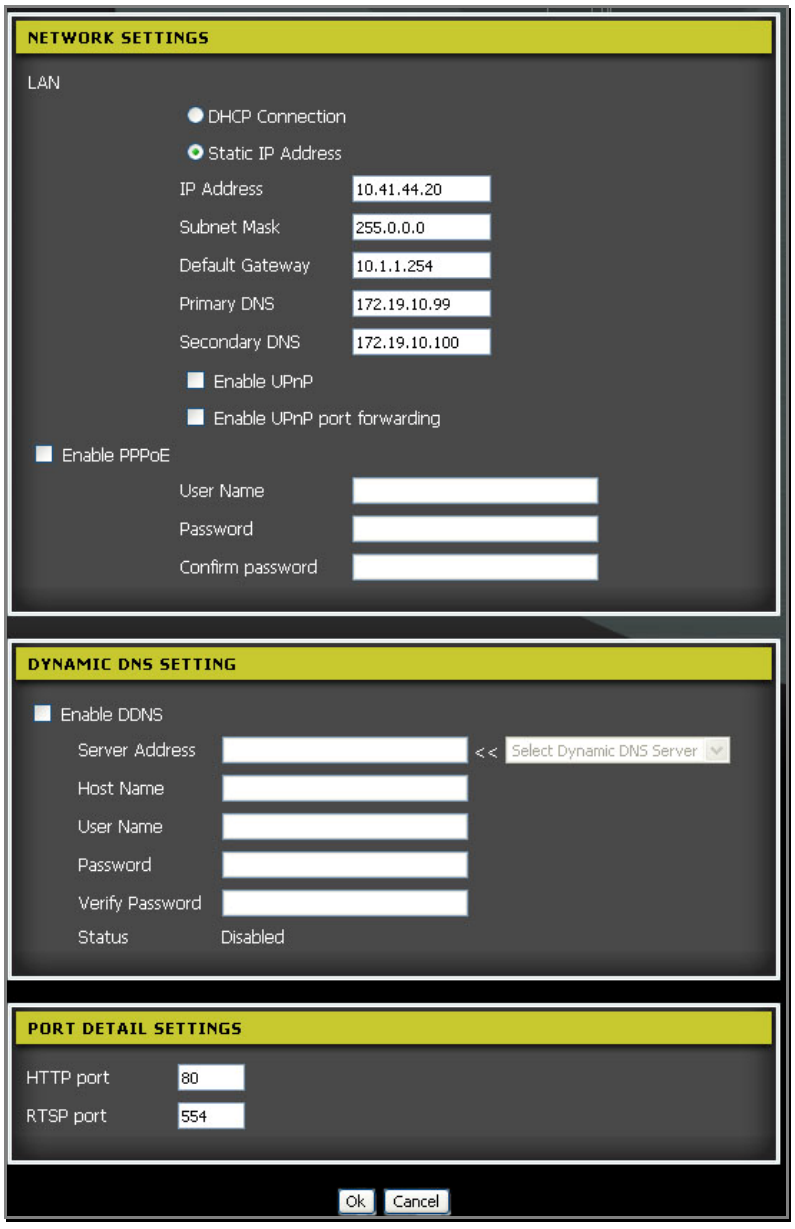
Setup Wizard PLD menu

To configure the camera with the web manager's Setup Wizard PLD, click the Next button and follow the instructions in the menus to configure network, time and name settings.

To configure these settings without using the wizard, click on the link for the settings to be configured to view the configuration menu. These menus are presented and described in the pages that follow.

Network Settings

Click the Network Setup link to view menus for IP network settings, PPPoE configuration, DDNS and HTTP or RTSP port configuration.



Network Setup menus

LAN IP Settings

The camera's IP settings can be configured as a DHCP client to obtain IP settings automatically, or configure static IP settings as needed for the private network.

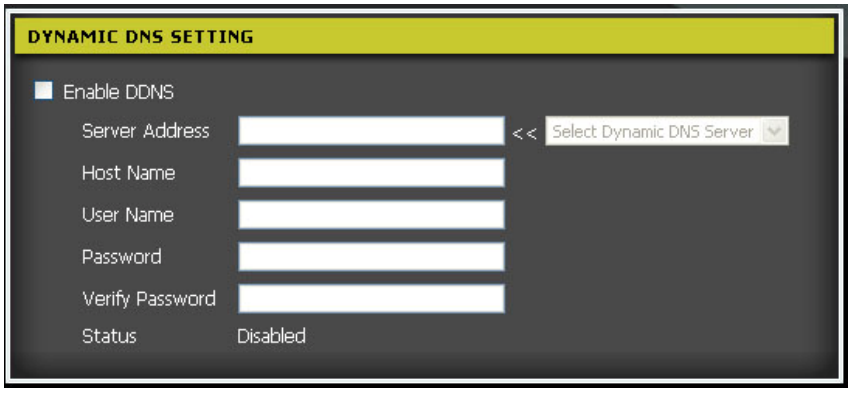
To use IP settings automatically obtained from a DHCP server on the network, select the **DHCP Connection** option. For manually entered or static IP settings, choose the **Static IP Address** option and type an **IP Address** unique on the LAN, appropriate **Subnet Mask**, **Default Gateway** address and **Primary** and **Secondary DNS** server IP address (for example, used for functions that require Internet access and DNS service such as SNTP with a named server). Click the **OK** button at the bottom of the web page to change and save the IP settings.

PPPoE

For PPPoE client Internet access, click to select the **Enable PPPoE** box and enter the user name and password used for the PPPoE connection. Click the **OK** button at the bottom of the web page to apply the PPPoE account settings.

DDNS

If a Dynamic DNS account has been setup, use the DDNS menu to enter account information.

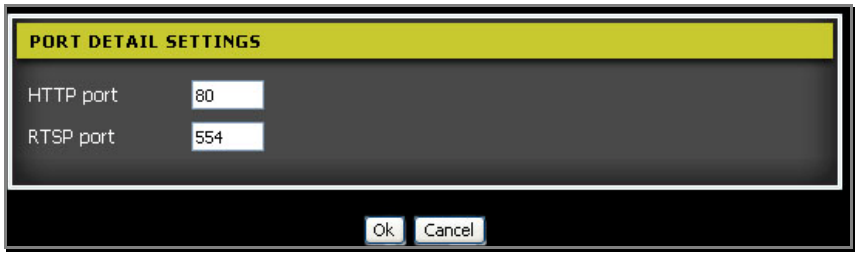


DDNS menu

Click the Enable DDNS option and enter DDNS account information in the available entry fields. Click the **OK** button at the bottom of the web page to apply the DDNS configuration.

Port Detail

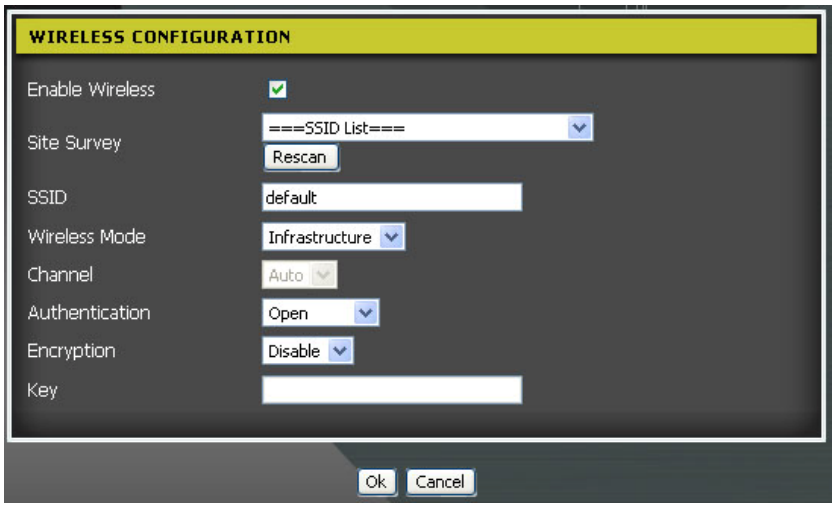
Use the Port Detail Settings menu to change the port used for HTTP web access or RSTP streaming access to the camera's video output.



Port Detail settings menu

Wireless Setup

The Wireless Network Camera supports normal wireless LAN functions for 802.11g wireless networks including WEP or WPA basic security settings. The wireless camera also supports WPS (Wi-Fi Protected Setup) for quick and easy wireless security setup.



Wireless Configurationn menu

Click to select the **Enable Wireless** box to conduct an automatic **Site Survey** and detect available SSID. Select the desired SSID from the pull-down menu. SSID can also be configured manually by typing in the name of the SSID in the entry field. Choose the **Wireless Mode** to determine if the wireless opertates in **Infrastructure** (default) or **Ad-Hoc** mode. Select the **Channel** used or use the Auto (default) option to find the channel used for the selected SSID. Choose the preferred **Authentication** and **Encryption** used. Configure WEP, WPA-PSK or WPA2-PSK settings to suit the security environment of your wireless LAN and click the **OK** button to implement the new security settings.

Site Survey

The pull-down menu displays available networks. To connect one wireless network, scroll up and down in the list and highlight to select the desired network and it is listed in the SSID field. Click **Rescan** to conduct a new search available networks.

SSID

SSID (Service Set Identity) is the name assigned to the wireless network. It will auto-detect and display the SSID of wireless network connected in this box. This default setting will let the camera connect to ANY access point under the infrastructure network mode.

Wireless Mode

Choose **Infrastructure** (default) if there is an available wireless access point within range or **Ad-Hoc** mode to access the camera directly from another computer such as a wireless laptop.

Channel

This pull-down menu provides the wireless channel for communication. Select the appropriate channel from the list provided depending on the regulatory region where the unit is sold or use the Auto option.

WEP Authentication

Open communicates the key across the network. **Shared** allows communication only with other devices with identical **WEP Encryption** settings. Enter the key used for WEP encryption in the **Key** field.

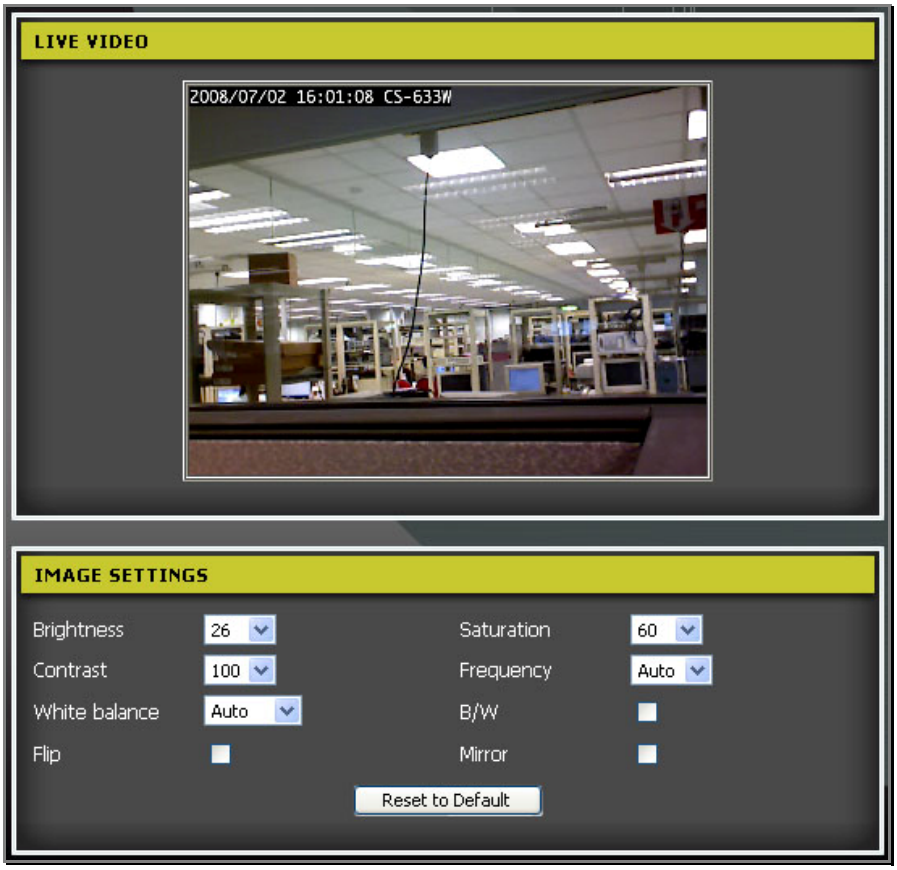
A **Pre-Shared Key** is used to identify each other in the network. If encryption is enabled on the router or access point in the network, enter the same encryption key in the **Key** field to access the device in camera.

WPA Authentication

Use **WPA-PSK** or **WPA2-PSK** select the preferred **Encryption** type AES or TKIP, and enter a **Key** of the correct character length.

Image Setup

Use the Image Setup configuration to optimaize the live video display.



Video image settings

Brightness

Adjust the brightness level. The value range is from 0 - 100, and the default setting is 26.

Contrast

Adjust the contrast level. The value range is from 0 – 100 increments of 20, and the default setting is 100.

Flip

Use this to flip the image upside down. This is used with the Mirror option if the camera is mounted in a hanging position as from a ceiling.

Saturation

Adjust the color saturation level. The value range is from 0 – 100 increments of 20, and the default setting is 60.

Frequency

Select the proper frequency (**50Hz** or **60Hz**) to eliminate flicker or use the **Auto** select.

B/W

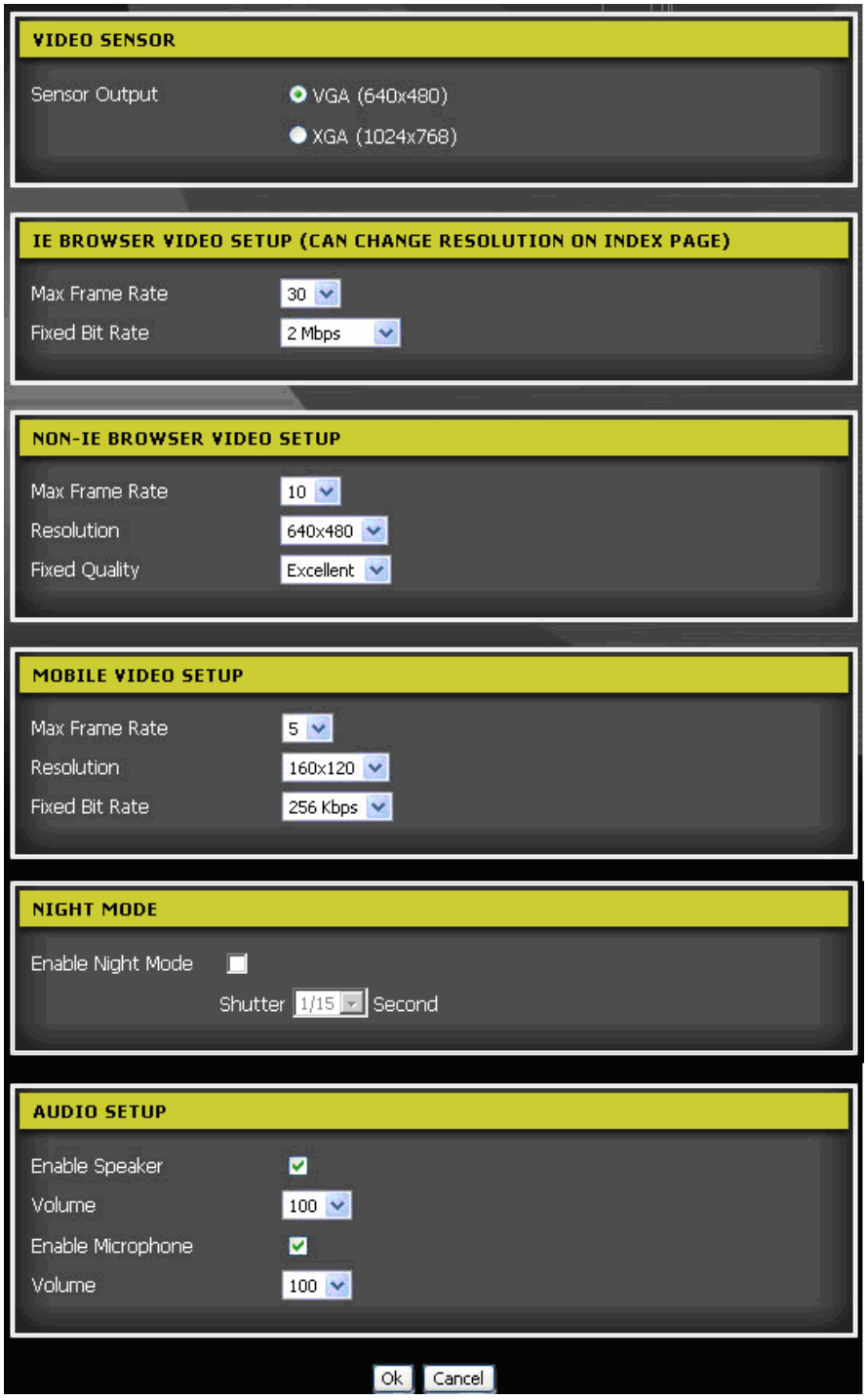
This option changes the display to a black and white only display (that is, no color is displayed in the video).

Mirror

Use this to produce a mirror image display. This is used with the Flip option if the camera is mounted in a hanging position, as from a ceiling.

Video and Audio Settings

Use this menu to optimize video resolution, frame rate and bit rate settings on the camera. Video output can be adjusted for use on Microsoft Internet Explorer in the **IE Browser Video Setup** menu or other broswers in the **Non-IE Browser Video Setup** menu. The **Mobile Video Setup** is used to adjust settings for mobile camera use.

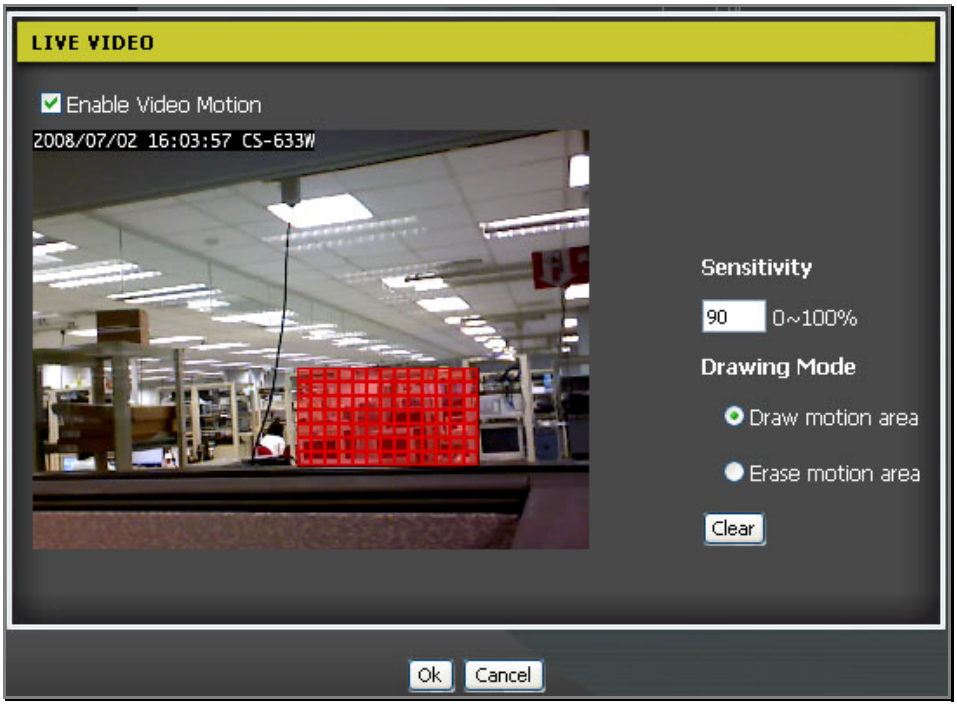


Advanced video and audio settings

Use Night Mode for use in low light situations. The Audio Setup menu is used to enable and disable microphone and speaker as well as adjust volume of each.

Motion Detection

Motion detection is used to trigger video recoeding when motion is detected in a designated portion of the video display. To designate a portion of the display used for motion detection, choose the **Draw motion area** option and use the mouse and left mouse button to draw a rectangular area. The drawn area appears as a red box on the display in the **Motion Dection** menu. Click the **Enable Video Motion** box to check mark it and click the **OK** button. **Sensitivity** level can be set by typing a value from 0 – 100, with 100 being the most sensitive.

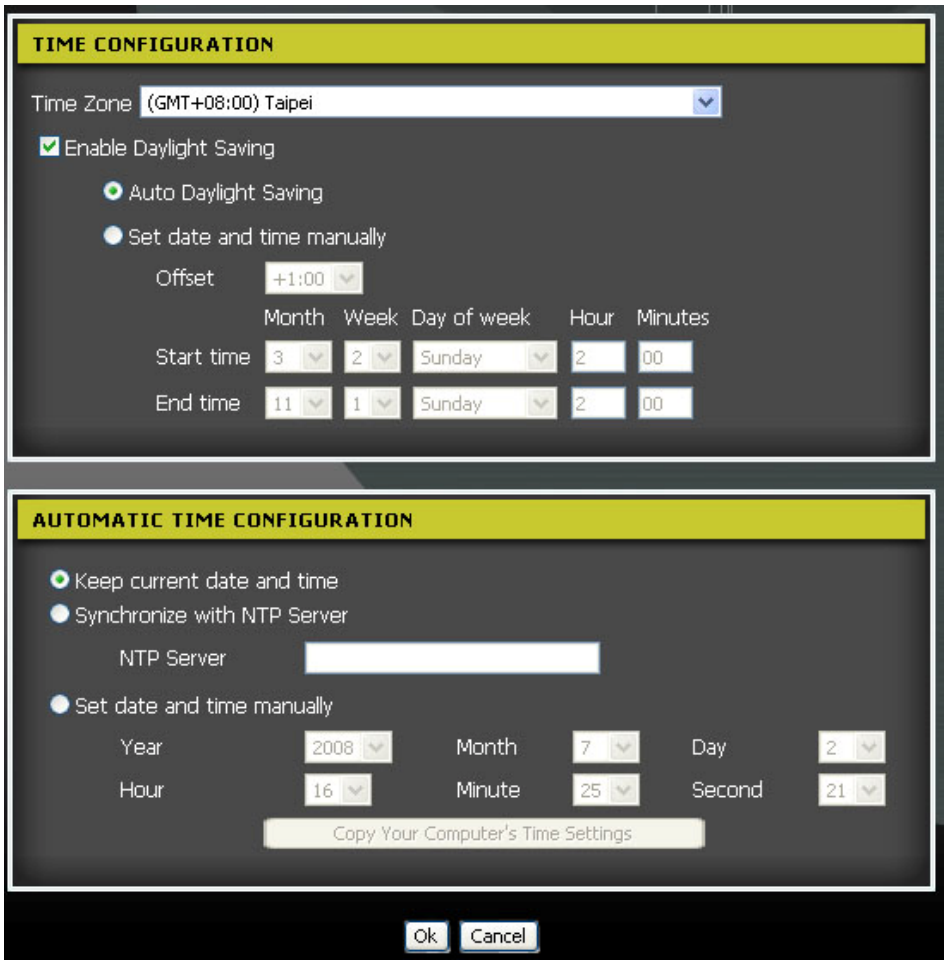


Motion detection menu

To remove the drawn motion area, select the **Erase motion area** option and click **OK**.

Time and Date

Use the Time and Date menu to set the camera's time settings manually, from the computer's time or use a network time server (NTP server).

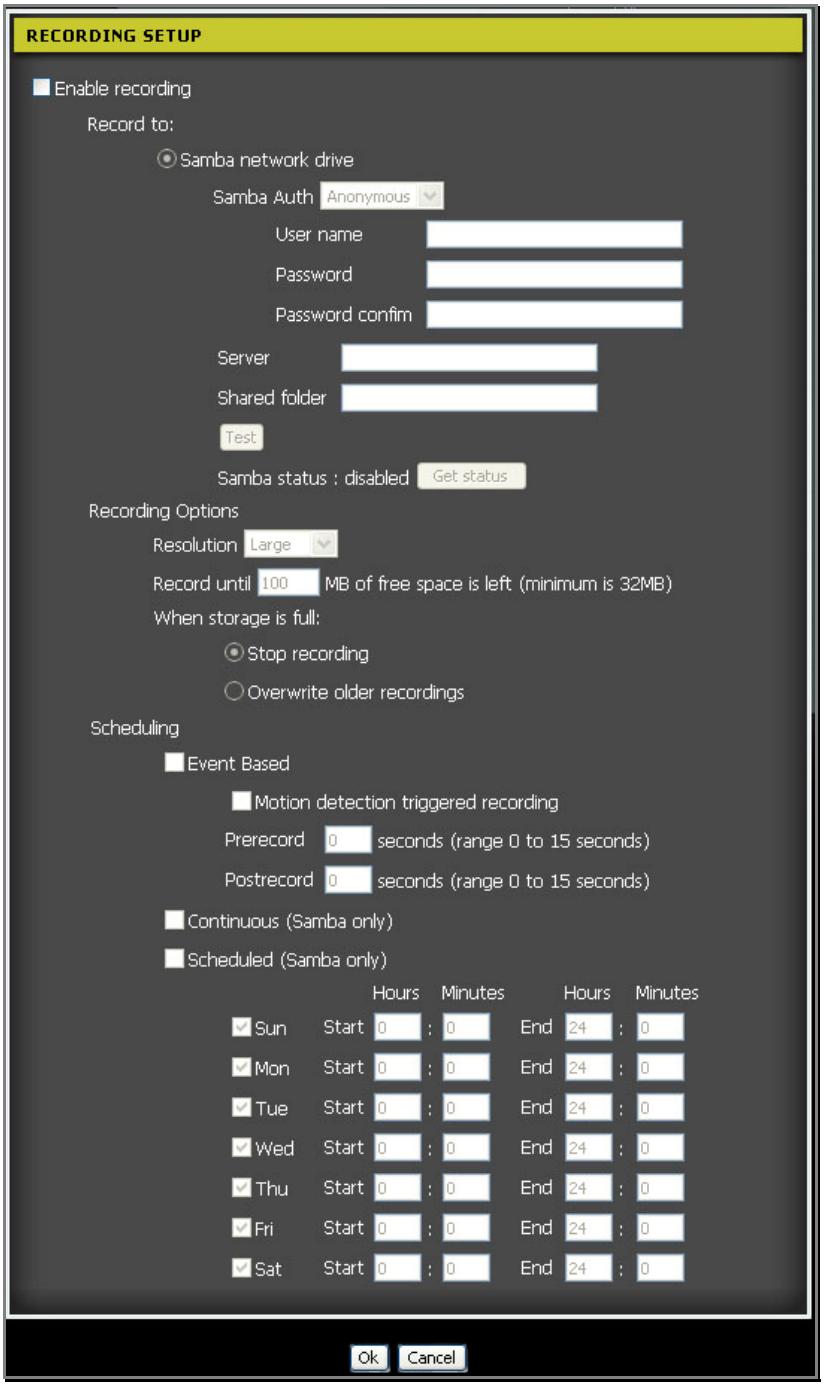


Time and date menu

Choose the time and date settings including Daylight Saving adjustment if applicable. Click the **OK** button to apply the time settings.

Recording Preferences

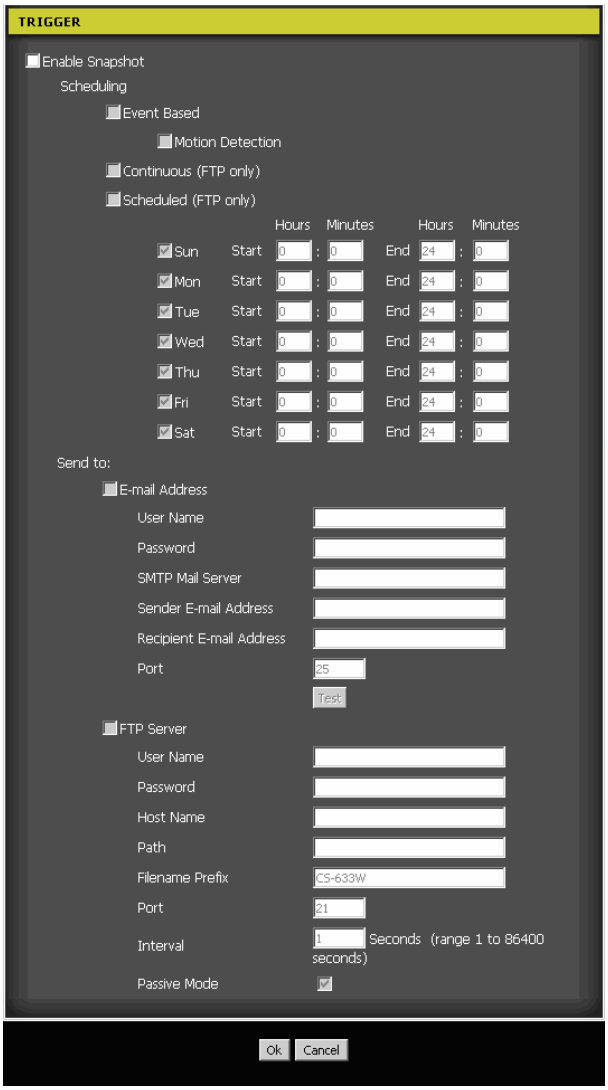
The Recording Setup menu is used to determine when and how digital video recordings are handled. Recordings can be saved to a shared folder on a secure server. The recording can be scheduled or event based using motion detection as the trigger. One option allows resolution of recordings to be adjusted down to use less hard disk space. Recording can be stopped when the hard disk is full or choose the option to overwrite the disk to replace old recordings.



Recording preferences menu

Snapshot Preferences

The Trigger menu is used to determine when and how digital images from snapshots are handled. Use motion detection to trigger a snapshot and email it to the account configured here. Alternatively, the images can be sent to an FTP server. Configure FTP Server and E-Mail Address information and click to checkmark either or both options to use.



Snapshot Trigger menu

System Configuration

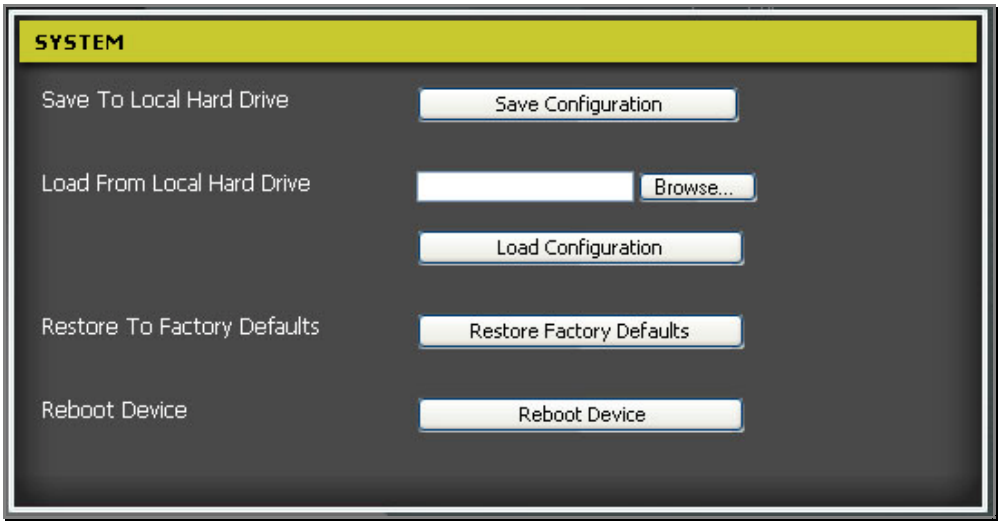
The System configuration menus include the **Device Management** menu.

Device Managment menu

Change the camera password and enter user account information in the **Device Management** menu. Users can be removed by selecting the name in the **User List** and clicking the **Delete** button.

Back Up and Restore Camera Settings

To save configuration settigns for the camera to a file on a local hard disk, click the Save Configuraiton. A prompt appears to confirm that you want to save the file. Choose the location and save the file to load the same settings.



Save System Settings/Restore/Reboot menu

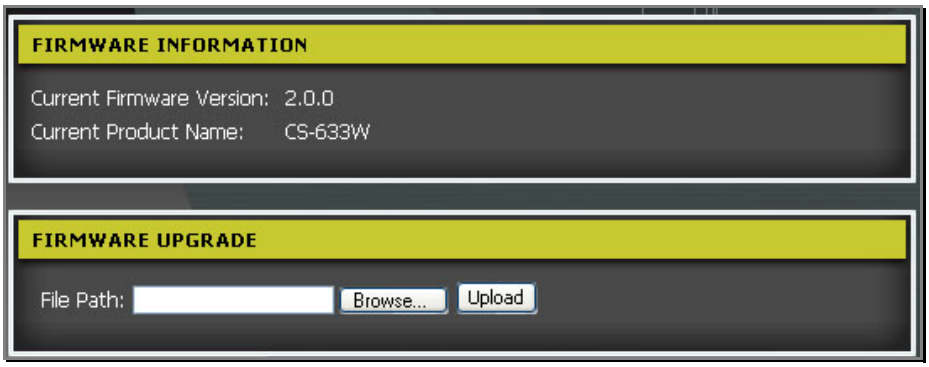
To load a previously saved configuration settings file, click the **Browse** button to Load From Local Hard Drive to locate the file, then click the **Load Configuration** button. It will take a few seconds to load the new settings, then the camera will restart.

To restore the camera to the factory default configuration settings, click the **Restore Factory Defaults** button. A prompt appears to confirm that you want to restore the default settigns. Click OK to restore the settings.

To performa a simple restart of the camera click the **Reboot Device** button.

Firmware Upgrade

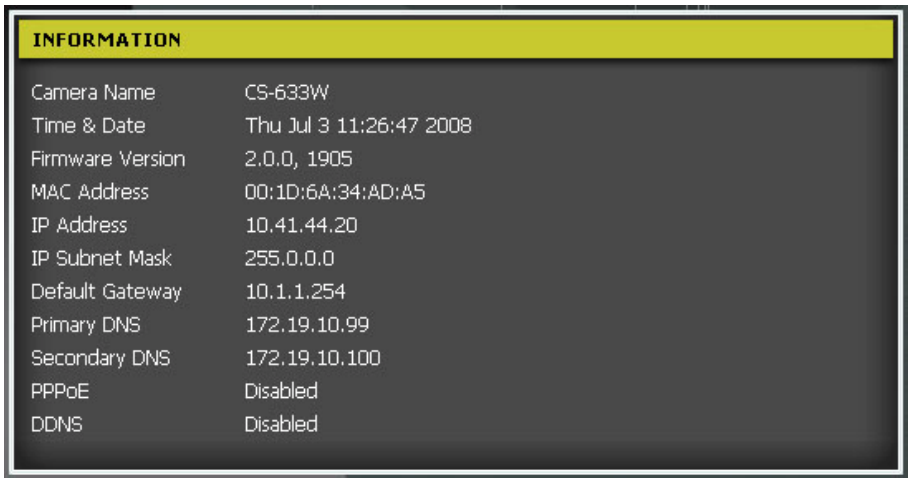
To upgrade the camera firmware, make sure the correct firmware file is located on your computer. Click the **Browse** button to locate the file, then click the **Upload** button to load the file. It will take several seconds to load the firmware and restart the camera.



Firmware Upgrade menu

Device Information

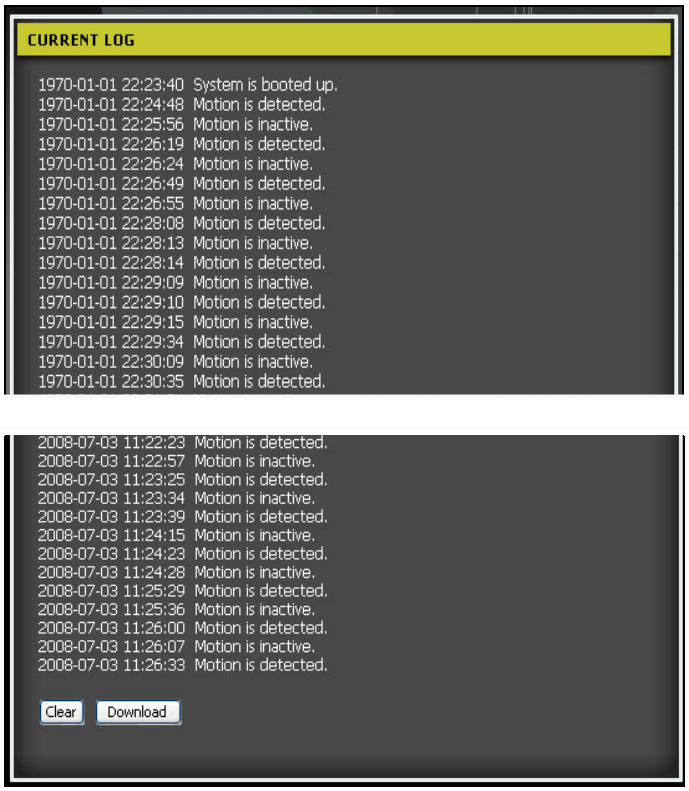
Network information, MAC address and firmware version is displayed in the **Device Information** display.



Device Information display

Camera Log

Click the Log link to view the camera's current log. To save the log in simple text form on your computer, click the **Download** button. **Click Clear** to delete all entries in the log.



Camera Log

5

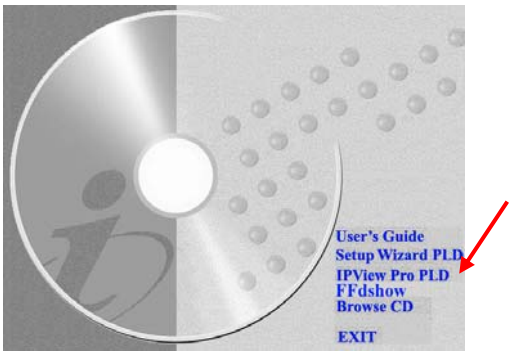
IPView Pro PLD

The camera is shipped with IPView Pro PLD software. Install the program on any Windows computer to access the camera display. IPView supports many of the functions available in the web interface video display. Up to sixteen separate cameras video displays can be viewed at a time.

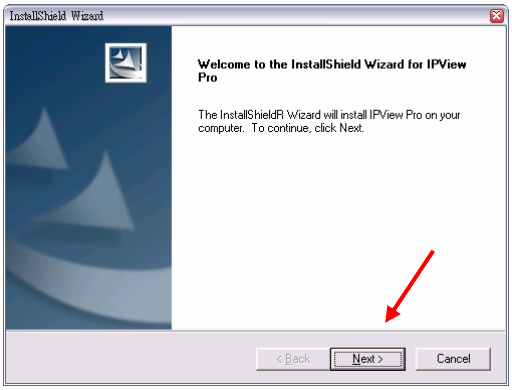
IPView multidisplay interface

Installation

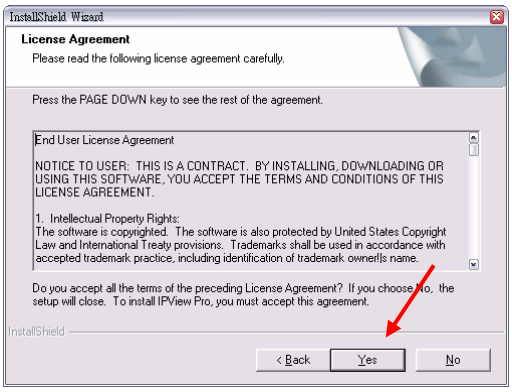
1. Insert the CD-ROM into the CD-ROM drive to initiate the auto-run program. The menu screen will appear as below:



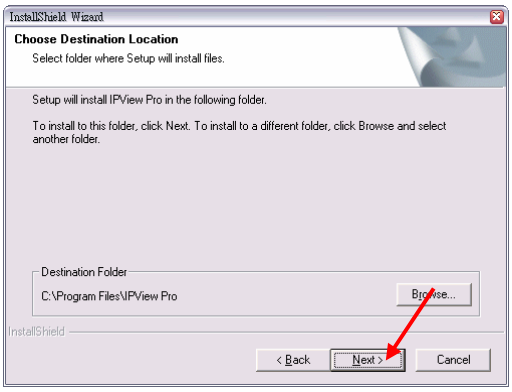
2. Click the **IPView Pro PLD** item to activate the InstallShield Wizard. Click Next in the welcome screen.



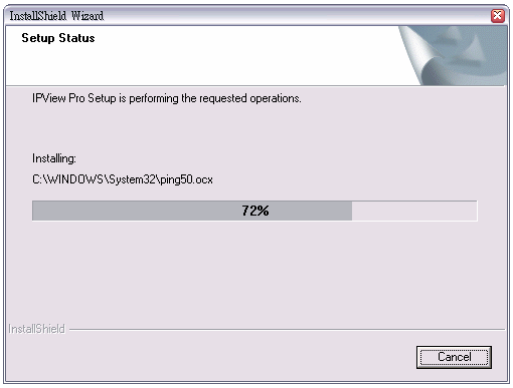
3. Read and accept the License Agreement; then, click Yes.



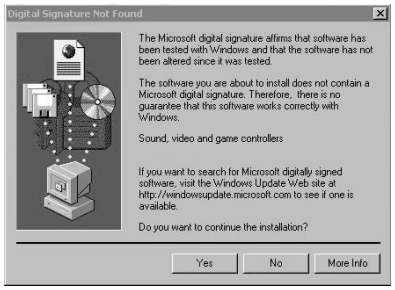
4. Choose the destination location. If no specific requirement, leave the default setting and click Next.



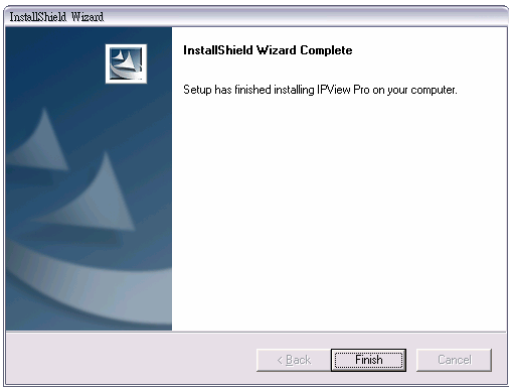
5. The InstallShield Wizard starts to install the software, and the progress bar indicates the installation is proceeding.



6. If you use Windows® 2000/XP, it will appear a Digital Signature warning screen. Click Continue Anyway (Windows® XP) or Yes (Windows® 2000).



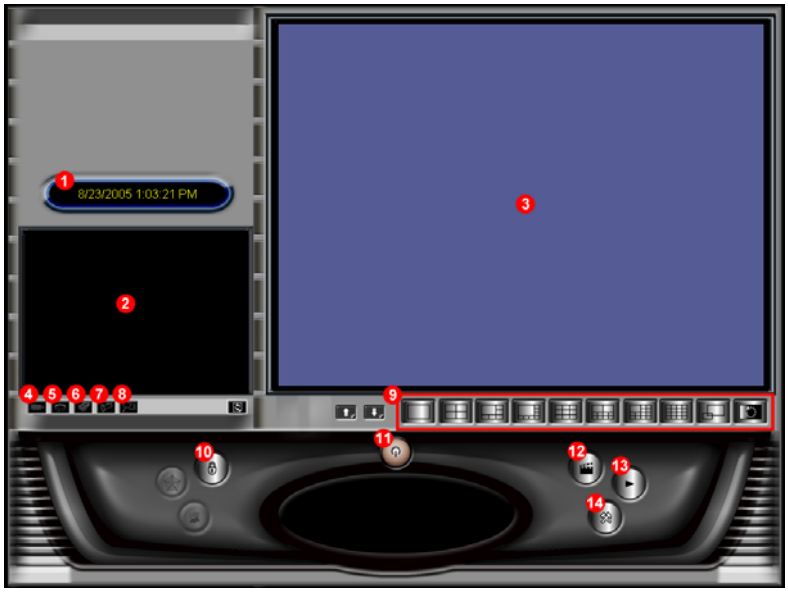
7. Click Finish to complete the installation.



Getting Started

This section describes the User Interface of IPView Pro PLD, with detailed procedures for using the application.

To launch IPView Pro PLD, click **Start** > **Programs** > **IPView Pro PLD** > **IPView Pro PLD**. The main screen will appear as below:



Item Feature

NO.	Item	Description
1	**Date / Time**	Show current date/time.
2	**Status Mode Window**	Show the camera's status in this window. Click the *Change Status Mode* button ( ) on the right lower corner of the window to change the display mode: Camera list mode Camera information mode
3	**View Window**	Show the camera's view in this window.
4	**Connect / Disconnect**	Click to connect/disconnect the camera.
5	**Rotate image angle**	Click to rotate the image shown in the View Window.
6	**Snapshot**	Click to capture a still image from the View Window.
7	**Audio ON / OFF**	Click to turn on/off the camera's audio.
8	**Zoom Mode**	Click to zoom in/out the image in the View Window.

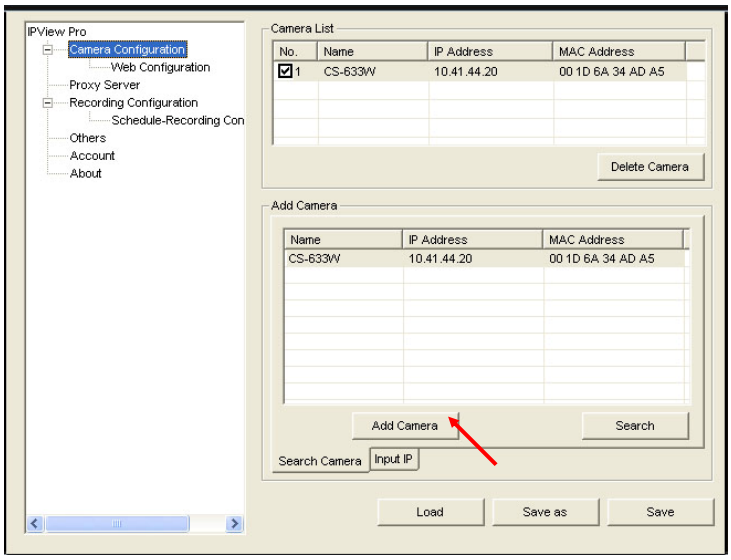
NO.	Item	Description
9	**View Mode Buttons**	Select the view mode from these buttons. Show one camera in View Window. Show four cameras in View Window. Show six cameras in View Window with the first one as the major view. Show eight cameras in View Window with the first one as the major view. Show nine cameras in View Window. Show ten cameras in View Window with the first two as the major views. Show thirteen cameras in View Window with the first one as the major view. Show sixteen cameras in View Window. Show the selected camera in full screen view. Enable displaying the video views in circles.
10	**Key Lock Button**	Click to lock/unlock the camera. When locked, the user cannot operate any camera.
11	**Power Button**	Click to exit or minimize IPView Pro PLD.
12	**Record Button**	Record video clip of the selected camera and save it in the computer. The storage position can be configured in System Configuration. When you click the button, you can select ***Manual Record***, or ***Schedule Record***.
13	**Play Button**	Play the recorded video file in the computer.
14	**System Configuration**	Click to enter the System Configuration.

Using IPView Pro PLD

Adding a Camera

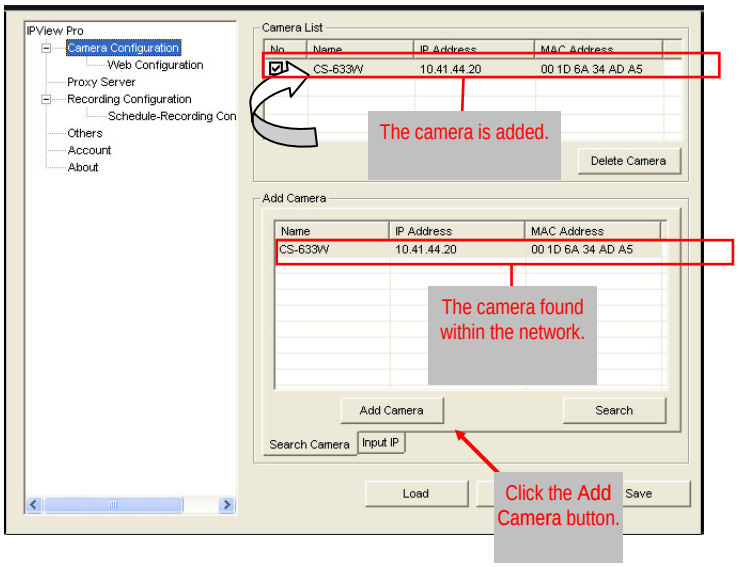
To add a camera:

1. Click the System Configuration button to enter the System Configuration.



If you are not sure of the camera's IP address, you can click Search to search the available camera(s) within the network.

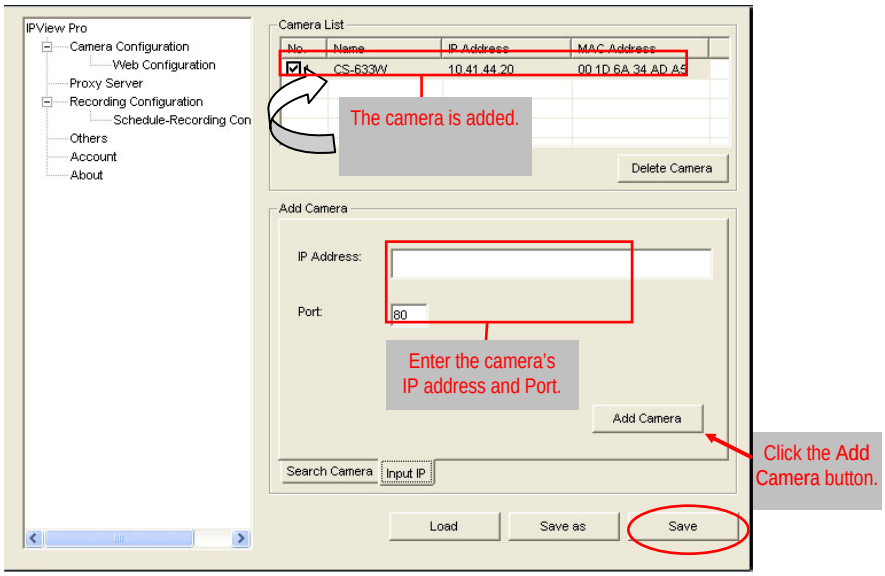
2. Select the camera you want by highlighting it, and then click **Add Camera**.



3. Click **Save**, and then click the **System Configuration** button to return to View Window. The selected camera's video will be displayed now. You can click **Save as** to save the selected cameras into the desired path and the selected cameras can be reloaded by **load** button.

Alternately, you can add a camera by entering the its IP address directly:

1. Select the **Input IP** tab.

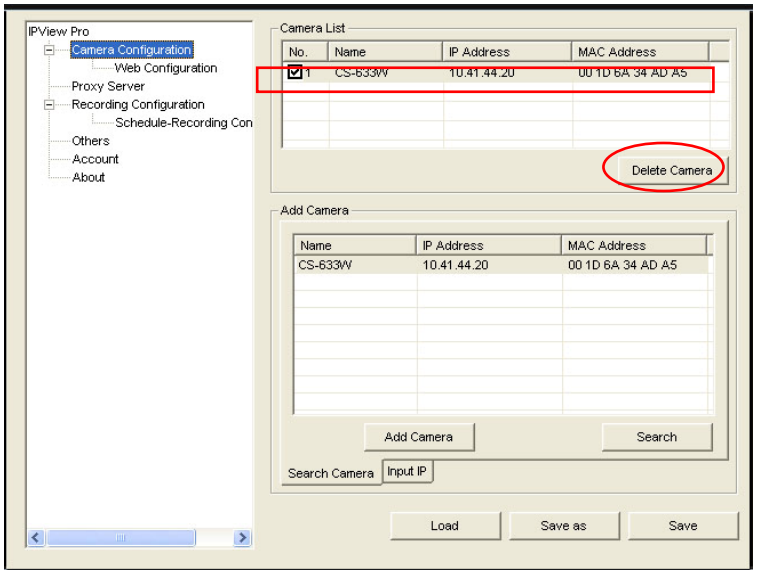


2. Enter the camera's IP address (default: 192.168.0.20) and Port (default: 80), and then click **Add Camera**.
3. Click **Save**, and then click the **System Configuration** button to return to View Window. The selected camera's video will be displayed now.

Removing a Camera

To remove the camera from the list:

1. Select the camera you want to remove.
2. Click **Delete Camera**.



Viewing a Camera

From the View Modes of the panel, you can select one-camera mode or other modes to display your video. IPView Pro PLD allows a maximum of 16 cameras for viewing.

For example, if you use only one camera, select one-camera mode ( ), and the View Window will display the view as *figure 1*.

If there are four cameras, select four-camera mode ( ), and the View Window will display the view as Figure 2 below.

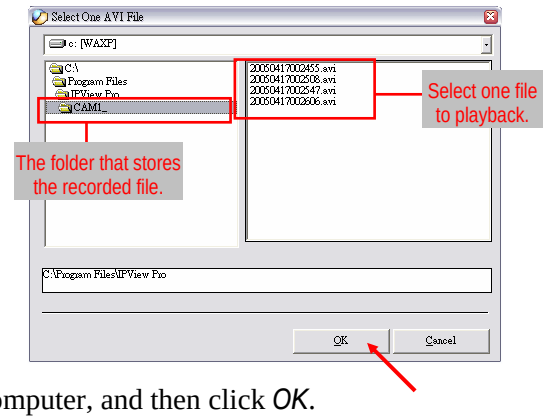
Recording Video

IPView Pro PLD allows you to record the video clip and save it in your computer through the following methods: **Manual Record**, and **Schedule Record**.

When you click the Record button and select **Manual Record**, it will start recording. Click the button again to stop. If you select **Schedule Record** , the system will record the video clip according to the settings in System Configuration.

Playing Recorded Video

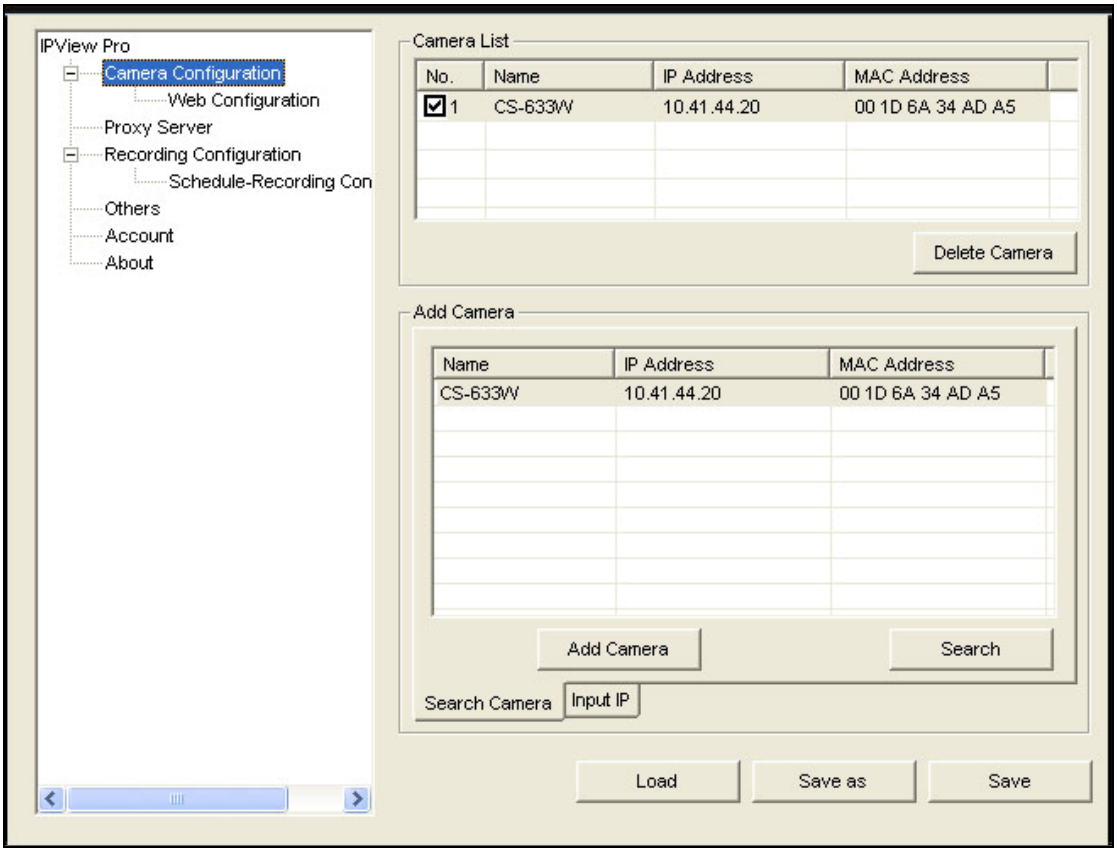
The recorded video clips are saved in your computer, and can be played using Windows Media Player. To start playback, simply click the *Play* button on the panel, and the following dialog screen will appear, allowing you to select the file to playback.



Select the recorded file in the computer, and then click *OK*.

Configuring IPView System Settings

Clicking the **System Configuration** button on the panel allows you to configure the system settings, and the **System Configuration Screen** will appear in the View Window as shown below. Once configured, click **Save** to save the settings, and then click the **System Configuration** button again to exit configuration.



System Configuration Screen

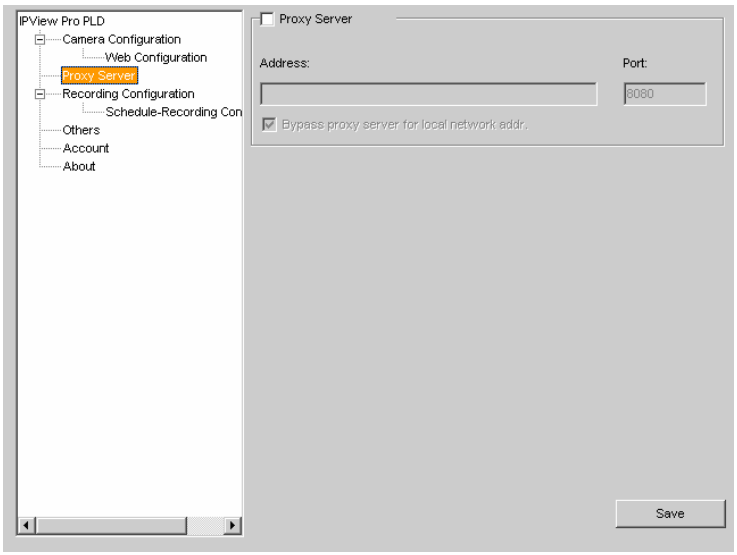
Camera Configuration

In the left column, selecting the **Camera Configuration** item will launch the Web Configuration Utility in View Window.

You can configure these settings according to the description on using the web interface described in previous section. Click the **Back** button to return to the IPView system settings menu.

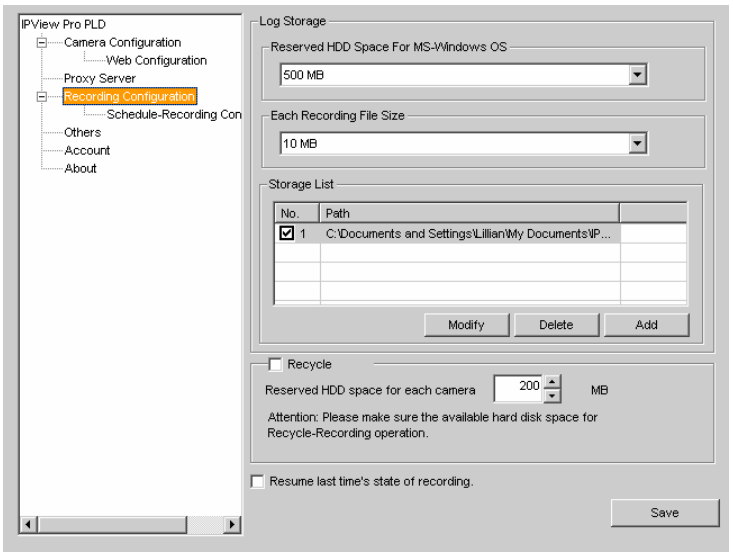
Proxy Server

Check the Proxy Server option and enter the required settings in the **Address** and **Port** boxes to enable and use the Proxy Server function.



Recording Configuration

In this field, you can configure the storage settings.

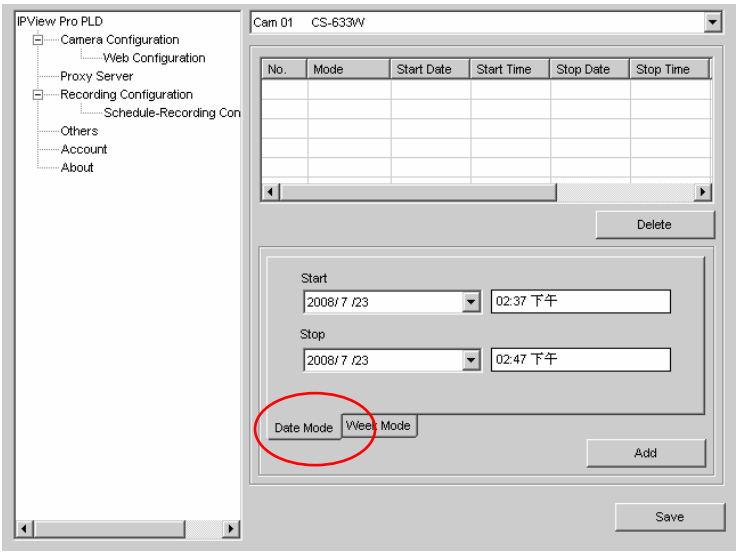


Log Storage:

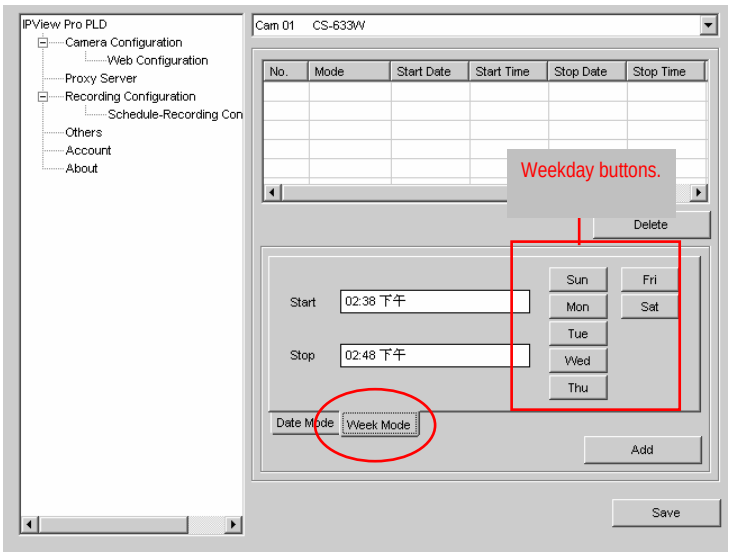
- **Reserved HDD Space For MS-Windows OS –** You can reserve **500 MB** to **10000 MB** hard disk space for the program.
- **Each Recording File Size –** If the recorded video files reach the file size limit, video images will be recorded into another file automatically. The available settings are from **10 MB** to **50 MB**.
- **Storage List –** The destination folder to save the recorded video file can be specified here. Click ***Modify*** to change the current path setting; click ***Add*** to add a new destination folder; click ***Delete*** to remove a selected path setting. Please note that you are not allowed to delete a path setting if there is only one setting in the list.
- **Recycle:** You can check this option to clear the files when the unreserved space of your hard disk is filled. The available settings are from **200 MB** to **50000 MB**.
- **Resume last time's state of recording:** You can check this option to store the recording state, and resume the recording state on the next time you record.

Schedule-Recording Configuration

This recording function will work after you have enabled respective settings in the Schedule mode. The recording schedule can be defined by **Date Mode** or **Week Mode**.



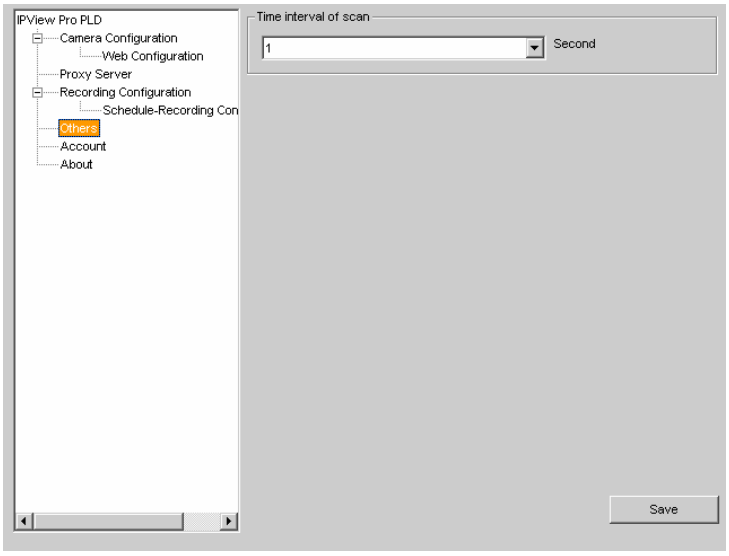
- **Date Mode:** First, select the camera desired from the pull-down menu. Then, setup the time in the **Start**/**Stop** fields. Click ***Add*** to add the recording schedule to the list. Click ***Save*** to save the settings.



- **Week Mode:** First, select the camera desired from the pull-down menu. Then, setup the time in the **Start**/**Stop** fields, and select the weekday from the buttons. Click ***Add*** to add the recording schedule to the list. Click ***Save*** to save the settings.

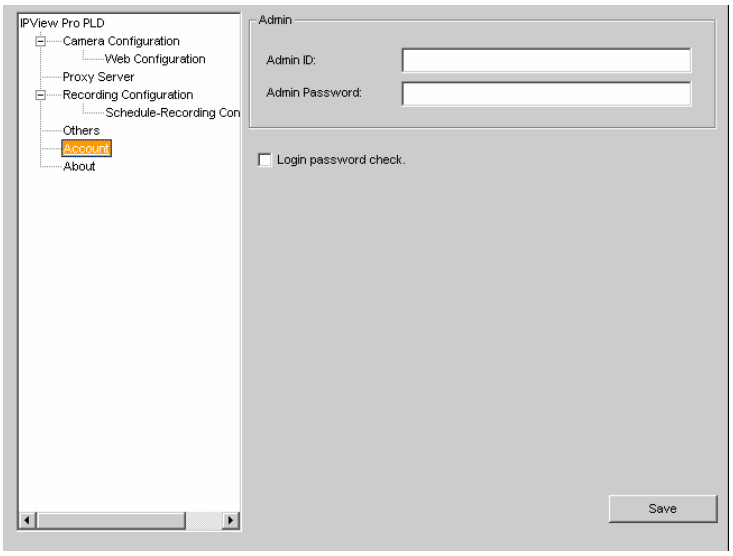
Others

When multiple cameras connected, this option allows the system to display these views as the main view in circles according to your time settings. The range of **Time interval of scan** is from **1** to **20** seconds.



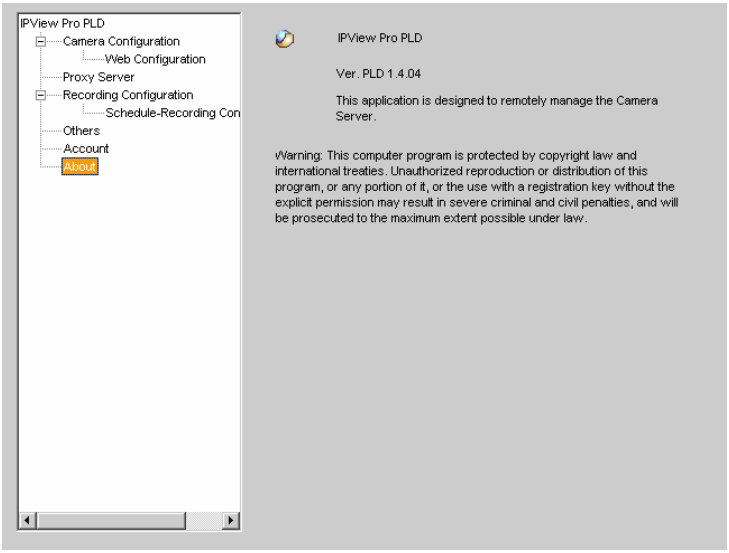
Account

This filed allows you to set the **Admin ID** and **Admin Password**. You can also check the **Login password check** option to secure your camera by checking the login password.



About

This filed provides information of the software application.



6

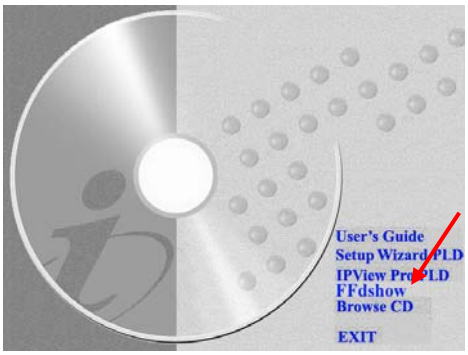
FFDSHOW

This chapter describes **FFdshow** which is provided in the Installation CD. FFdshow allows you to play the recorded video files on your computer.

Installing FFdshow

Step 1

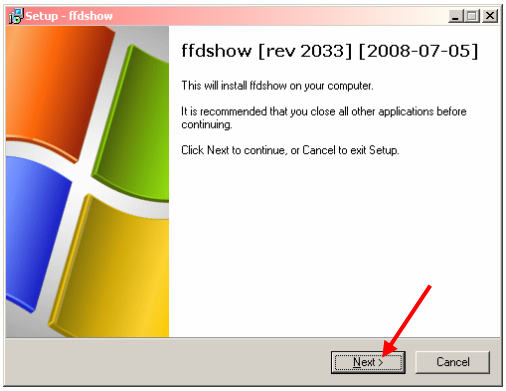
Insert the CD-ROM into the CD-ROM drive to initiate the auto-run program. The menu screen will appear as below:



Step 2

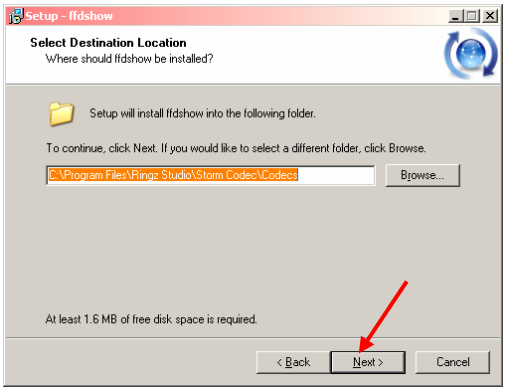
Click the **FFdshow Install** item, and select the desired language in the pop-up dialog window.

Then, the InstallShield Wizard will appear, click *Next* in the welcome screen.



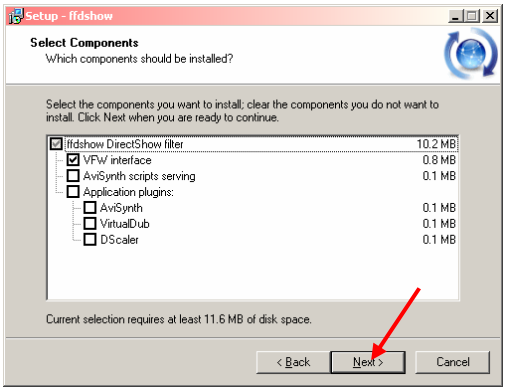
Step 3

Select the destination location for saving ; If no specific requirement, leave the default setting and click *Next*.



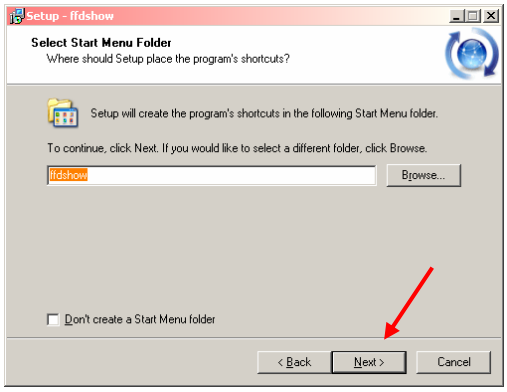
Step 4

Choose the components to be installed. If no specific requirement, leave the default setting and click *Next*.



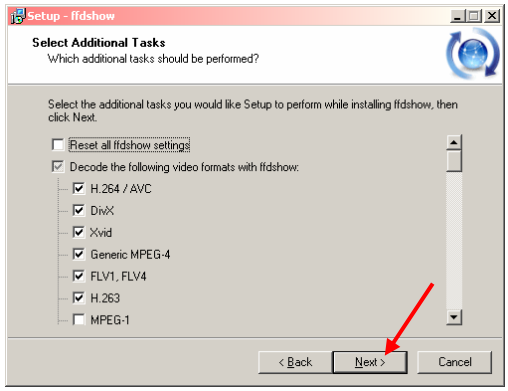
Step 5

Select start menu Folder and click *Next*.



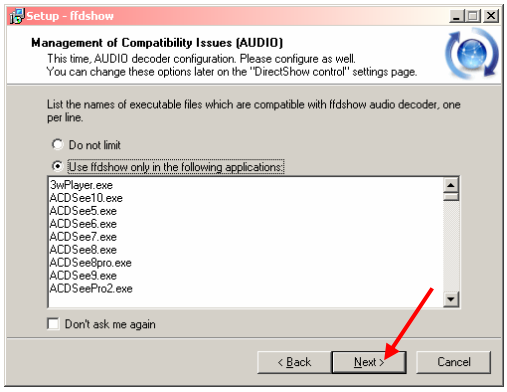
Step 6

Select the [Decode the following video formats with ffdshow] to additional tasks.And click *Next*.



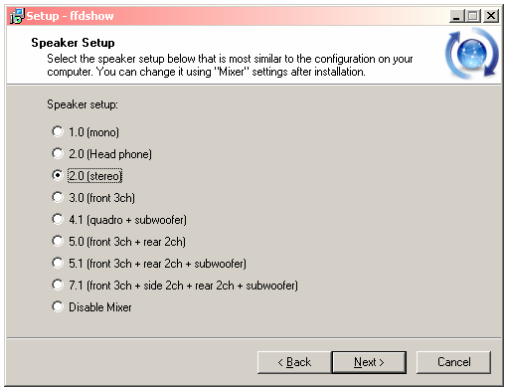
Step 7

Click *Next*.



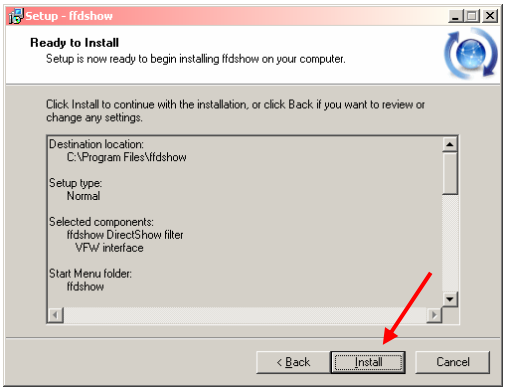
Step 8

Select the speaker setup. If no specific requirement, leave the default setting and click *Next*.



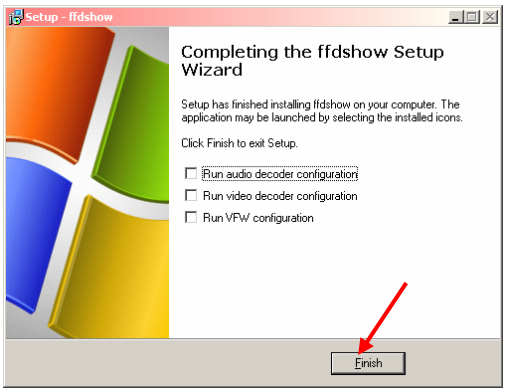
Step 9

The InstallShield Wizard starts to install the software, and the progress bar indicates the installation is proceeding.If no specific requirement, leave the default setting and click *Install*.



Step 10

If no specific setup, leave the default setting and click *Finish*.



Playing the Video

Since you have recorded video files from the camera, you can play the video files simply using Windows Media Player in your computer.

1. Find the video file saved in the computer.
2. Double-click the file, and it will open Windows Media Player (as default in Microsoft Windows) to play the video file.

A

Technical Specifications

Physical and Environmental	
Operating Temp:	0° to 40°C
Operating Humidity:	20% to 85% (non-condensing)
Dimensions:	135 mm 169 mm 34 mm
Weight:	165 g
EMI:	FCC/CE class B

Hardware	
Power Adapter:	Output: DC5V, 2.5A
Power Consumption:	7 Watts (max)
Etherent Port	IEEE 802.3u compliant 10/100 Mbps Auto-MDIX RJ-45 port
Reset buton	Reset to factory default settings
LED	Power (blue) Ethernet Link/Act (orange)

Video / Optical	
Sensor Resolution	1280x1024
Lens Type	Board Lens
F / No	2.8
Focus Length	4.5mm
Sensitivity	Minimum Illumination 0.5Lux
Compression	MPEG-4/MJPEG dual format compression simultaneously

Wireless	
Frequency	2.412-2.4835 GHz
Channels	11 channels for United States 13 channels for European Countries 13 channels for Japan
Wireless Data Rates	IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps IEEE 802.11b: 11, 5.5,2, 1 Mbps Auto-select or Manual specified.
Out Power	16 dBM@11b(Typical) 12 dBM@11g(Typical)
Antenna	Dipole Antenna • Gain: 2 dBi • Connector: RP-SMA (M) • Operating Frequency: 2.4~2.5Ghz