

PiXORD
Dual Streaming Network Camera
P-505
User Manual



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Preface

Pixord P505 is a powerful dual-codec MPEG4/MJPEG network camera with one way or two way audio function that provides the high quality image and on-the-spot audio via the internet connection. The infrared LEDs and light sensor (optional) enable the camera to capture images even in dark environment. The camera can be installed as a standalone system with your application environment easily and quickly and supports remote management function so that you can access and control it using a web browser on your PC.

Chapter 1 Introduction to Your Camera describes the features of the camera. You will also know the components and functions of the camera.

Chapter 2 Hardware Installation helps you install the camera according to your application environment. You can use this camera at home, at work and anywhere you want.

Chapter 3 Accessing the Camera lets you start using your camera without problem. The camera can be set up easily and work within your network environment instantly.

Chapter 4 Configuring the Camera guides you through the configuration of the camera using the web browser on your PC.

Chapter 5 Appendix provides the specification of the camera and some useful information for using your camera.

Note: The illustrations and configuration values in this guide are for reference only. The actual settings depend on your practical application of the camera.

1. Chapter 1 Introduction To Your Camera

1.1 Checking the Package Contents

Check the items contained in the package carefully. You should have the following.

One MPEG4/MJPEG Network Camera (Wireless)

One AC Power Adapter

One External Antenna (for wireless camera)

One Camera Stand

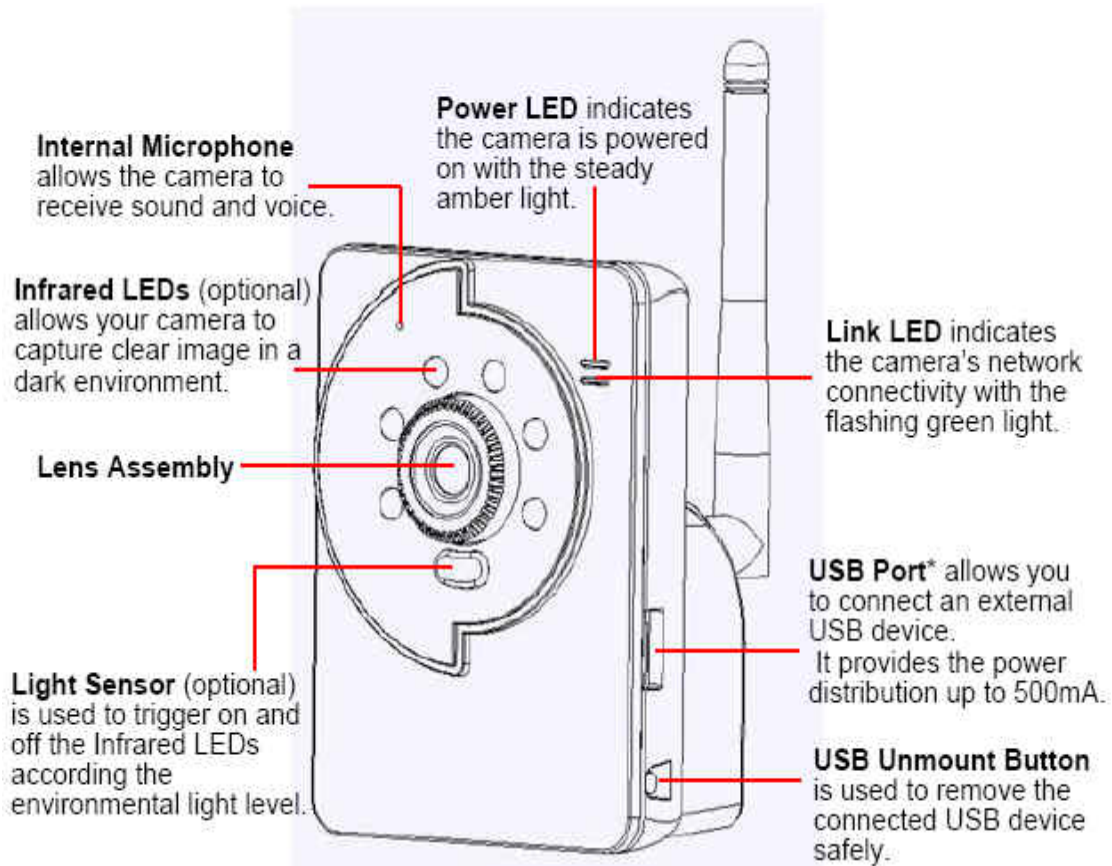
One Ethernet Cable (RJ-45 type)

One Installation CD-ROM

One Quick Installation Guide

Note: Once any item contained is damaged or missing, contact the authorized dealer of your locale.

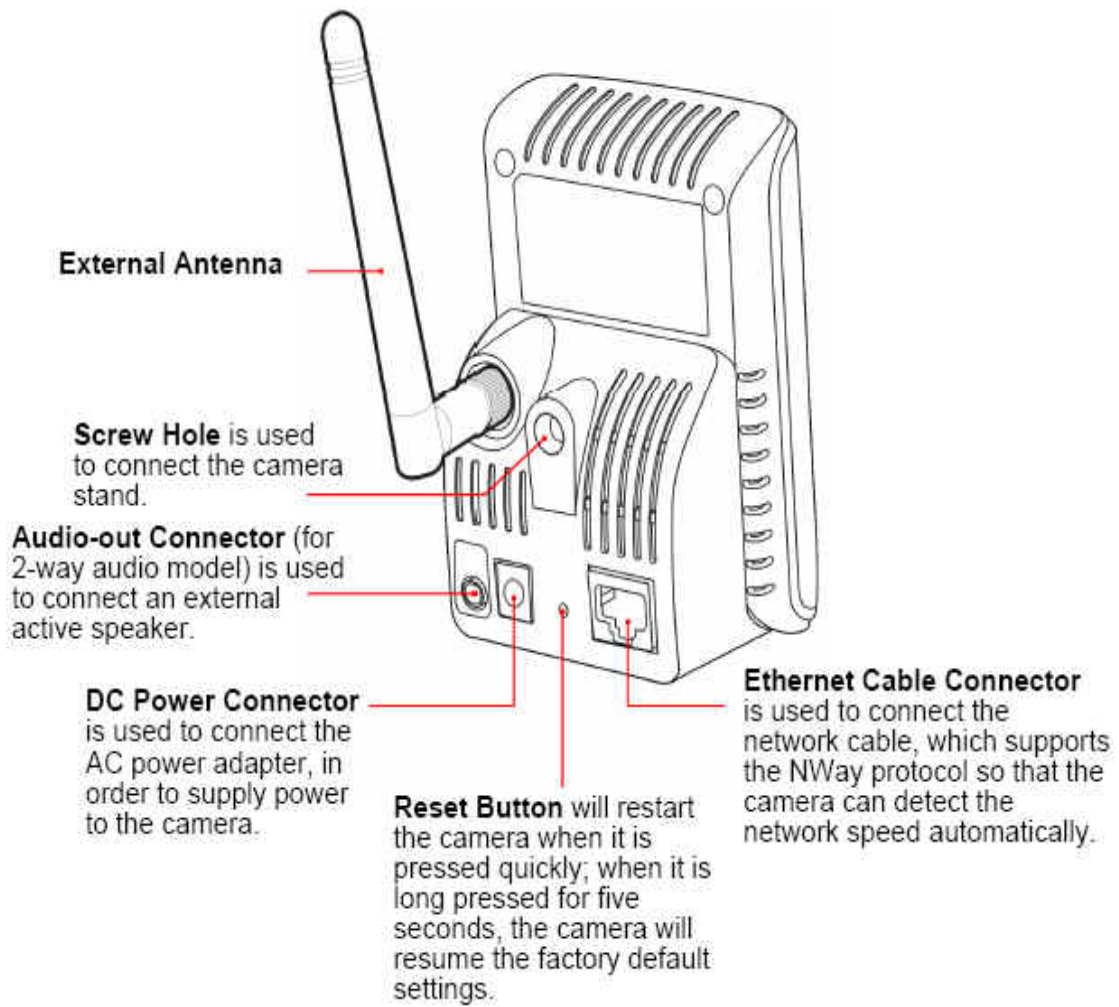
1.2 Getting to Know Your Camera



Front View

* The camera's USB port supports WCN (Windows Connect Now) technology, which allows you to use the notebook computer to set up and store your wireless networking configuration on the USB storage device and then retrieve the wireless settings when you connect the USB storage device to the camera.

Note: After long pressing the Unmount button for four seconds the Power LED starts flashing. When the Power LED resumes the steady amber light, you can remove the USB device safely.



Rear View

1.3 Features and Benefits

◆ **MPEG4/MJPEG Dual-code Supported**

The camera provides you with excellent images by the MPEG4/MJPEG dual-codec selectable technology, allowing you to adjust image size and quality and bit rate according to the networking environment.

◆ **1-way/2-way Audio Capability**

The built-in microphone of the camera provides on-the-spot audio via the internet, allowing you to monitor the on-site voice. In addition, you can connect an external speaker to the camera to speak through the camera (for 2-way audio model only); the camera is embedded with an echo cancellation processor to provide a better sound quality.

◆ **Day& Night Surveillance Support (optional)**

The six infrared LEDs around the standard lens assembly (optional) enable the camera to capture crystal clear images in the dark environment or at night. When the light sensor detects the environmental light level becomes low, the camera captures the images in black & white using these infrared LEDs.

◆ **Supports Multiple Profiles**

The camera supports multiple profiles simultaneously so that you can separately set up different image settings (such as image quality and frame rate) for the three video types of the camera: MPEG4, MJPEG and 3GPP.

◆ **Support RTSP**

The camera supports RTSP (Real Time Streaming Protocol), which is a technology that allows you to view streaming media via the network. You can view the real-time video with the Quick Time player or Real Player. To view the real-time streaming image on your computer, open the web browser and enter the RTSP link: `rtsp://(IP address of the camera)/mpeg4`

◆ **Remote Control Support**

By using a standard web browser, the administrator can easily change the configuration of the camera via intranet or internet. In addition, the camera can be upgrade remotely when a new firmware is available. The users are also allowed to monitor the image and take snapshots via the network.

◆ **Supports Connection to the External Devices**

With the auxiliary Input/Output connectors, you can connect the camera to a variety of external devices such as the external speaker and USB device.

◆ **Multiple Platform Supported**

The camera supports multiple network protocols including TCP/IP, SMTP email, HTTP and other internet related protocols. Therefore you can use the camera in a mixed operating system environment such as Windows 2000 and Windows XP.

◆ **Multiple Application Supported**

Through the remote access technology, you can use the cameras to monitor various and places for your own purposes.

For example, babies at home, patients in the hospital, offices, banks and more. The camera can capture both still images and video clips so that you can keep the archives and restore them at any time.

1.4 System Requirement

◆ Networking

LAN: 10Base-T Ethernet or 100Base-TX Fast Ethernet

WLAN: IEEE 802.11b/g (for wireless model)

◆ Accessing the Camera using Web Browser

Platform: Microsoft Windows 98SE/ME/2000/XP

CPU: Intel Pentium III 350MHz or above

RAM: 512MB

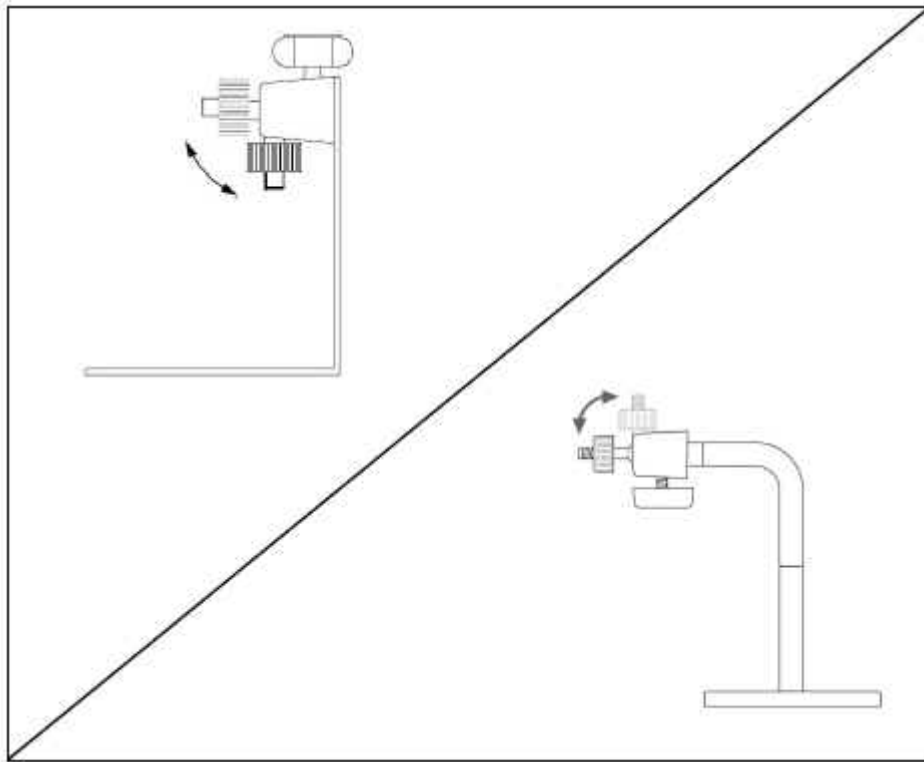
Resolution: 800X600 or above

User Interface: Microsoft Internet Explorer 5.0 or above

2. Chapter 2 Hardware Installation

2.1 Installing Camera Stand

The camera comes with a camera stand, which uses a swivel ball screw head to lock to the camera's screw hole. When the camera stand is attached, you can place the camera anywhere by mounting the camera through the three screw holes located in the base of the camera stand.



The Camera Stand

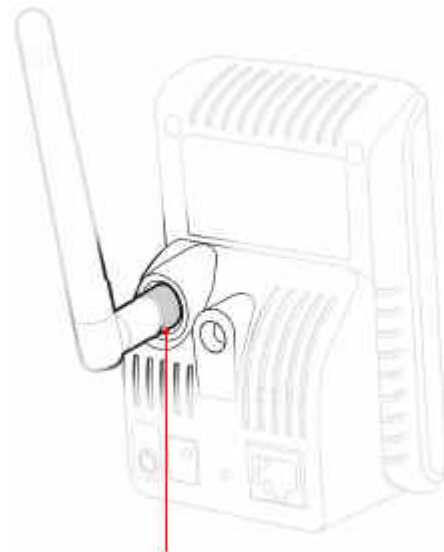
2.2 Connecting the Camera to LAN/WLAN

Use the provided Ethernet cable to connect the camera to your local area network (LAN). When you connect the AC power adaptor, the camera is powered on automatically. You can verify the power status from the Power LED on the front panel of the camera. Once connected, the link LED starts flashing green light and the camera is on standby and ready to use now.



Connecting the Ethernet Cable

If you use a wireless network (wireless model only) in your application environment, you need to attach the included external antenna to the camera. When the camera is powered on, the camera will automatically search any access point with “default” SSID.



Connecting the External Antenna

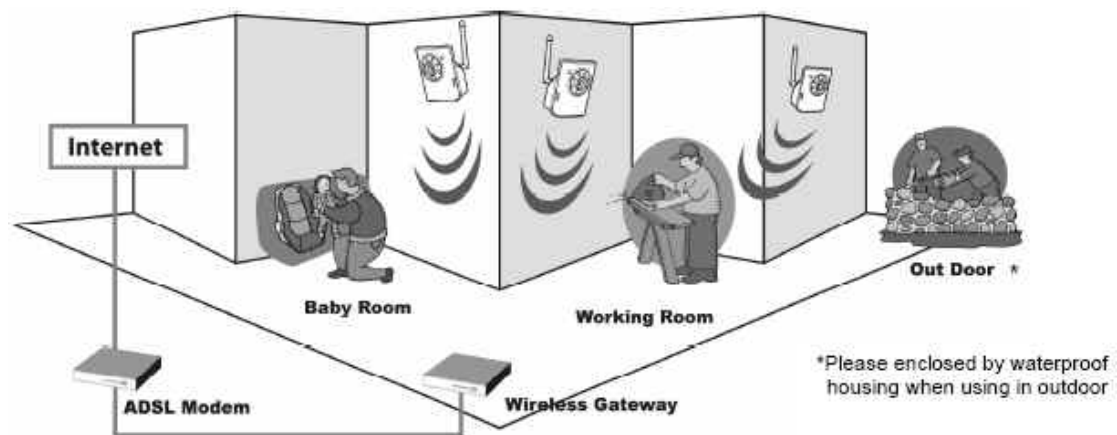
Note: If the camera cannot connect to your wireless network, you need to install the camera and proceed with WLAN settings.

2.3 Application of the Camera

The camera can be applied in multiple applications, including:

- ◆ Monitor local and remote places and objects via internet or intranet.
- ◆ Capture still images and video clips remotely
- ◆ Upload images or send email messages with still images attached.

The following diagram explains one of the typical applications for your camera and provides a basic example for installing camera.



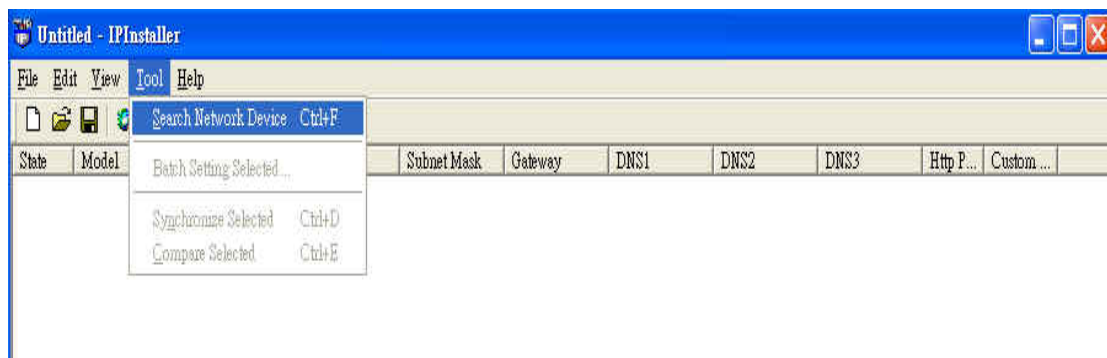
Home Applications

3. Chapter 3 Accessing the Camera

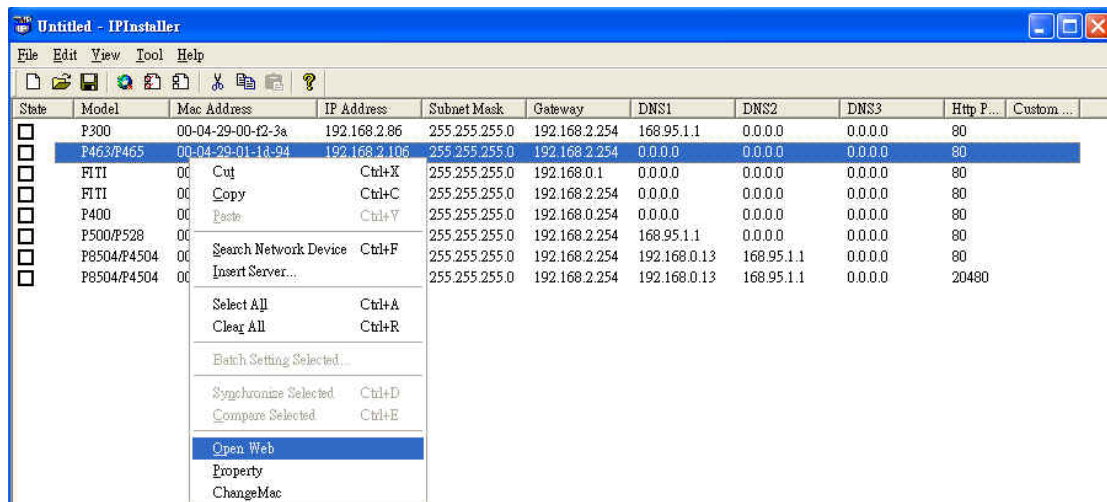
3.1 Using IP Installer

The camera comes with a conveniently utility, IP Installer, which is included in the installation CD-ROM, allowing you to search the camera on your network easily.

1. Insert the installation CD into your computer CD-ROM drive to initiate the Auto-Run program.
2. Click the IP Installer item to launch the utility. The control panel will appear as below.



3. Click on Tool > Search Network Device to find all connected cameras in the LAN.

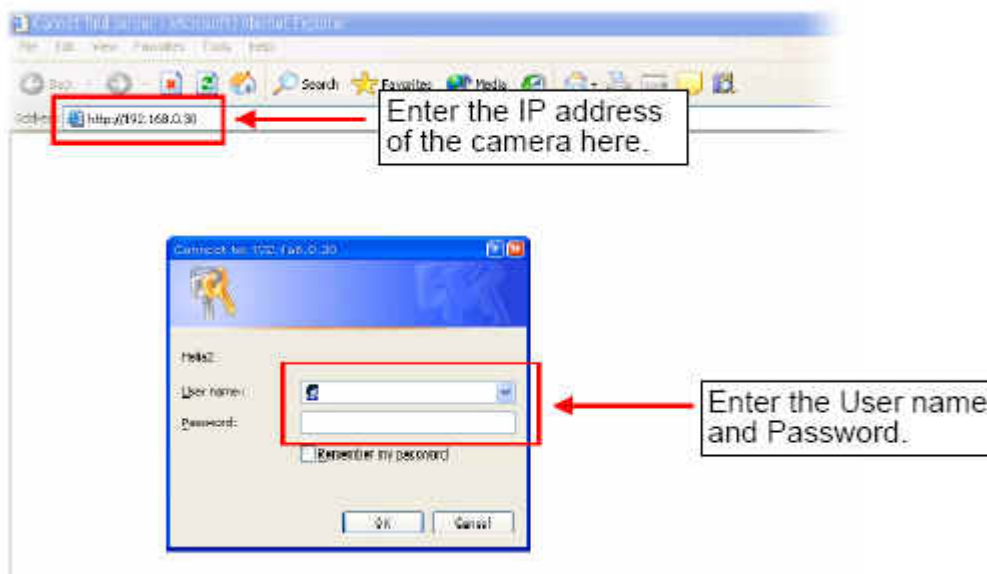


4. Right click on the selected camera and choose "Open Web" to open the web page of the camera.

3.2 Accessing the Camera

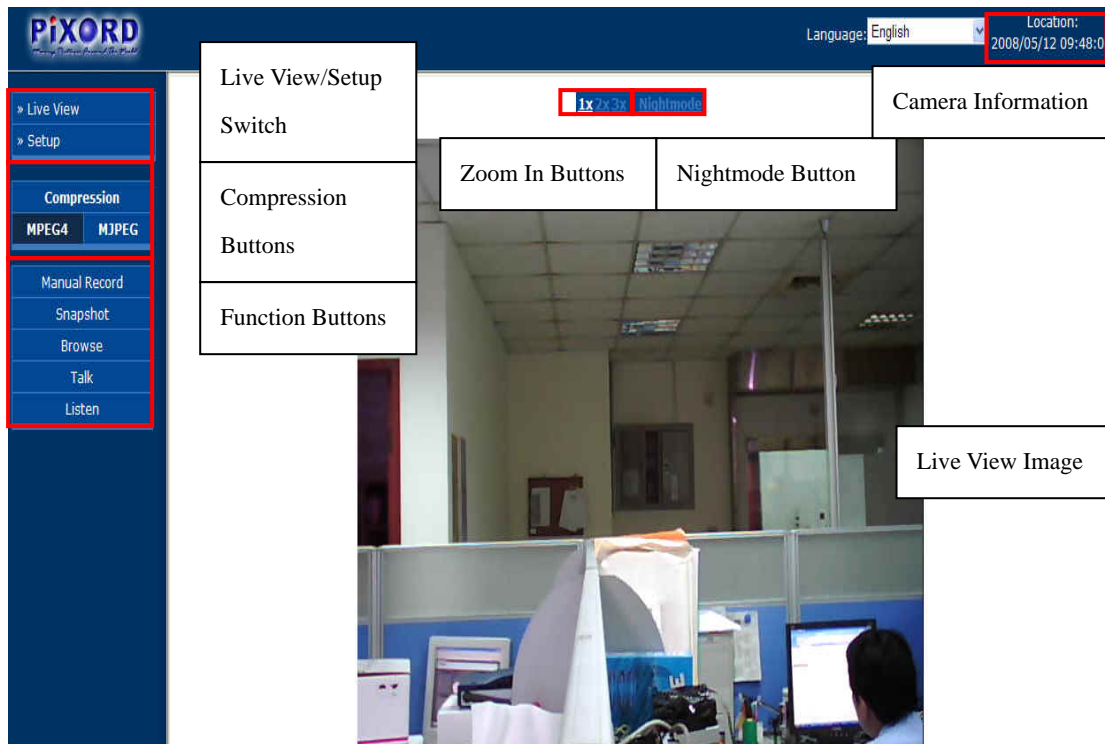
Whenever you want to access the camera:

1. Open the Web browser on your computer (for example, Microsoft Internet Explorer in this guide).
2. Type the default IP address (192.168.0.30) or the IP address found by IP Installer in the address bar then press [Enter].
3. When the login window appears, enter the default user name (admin) and password (admin) and press OK to access to the main screen of the camera's web configuration.



Note: If you are first time accessing the camera, you will be asked to install a new plug-in for the camera. Permission request depends on the internet security settings of your computer. Click YES to proceed.

After you login into the web configuration of the camera, the main page will appear as below:



The main page of the web configuration provides you with many useful information and functions, including:

- ◆ **Camera Information** – Display the camera’s location and the current date & time. The information can be modified in the web configuration.
- ◆ **Live View Image** – Displays the real time image of the connected camera.
- ◆ **Live View/Setup Switch** – Click Setup to configure the camera. For details, see Chapter 4
- ◆ **Compression Buttons** – Select to transmit and record the video using MPEG4 or MJPEG compression.
- ◆ **Function Buttons** – Use these buttons to control the audio and video functions.
 - Manual Record:** Allows you to record and save a video clip.
 - Snapshot:** Allows you to capture and save a still image.
 - Browser:** Allows assign the destination folder to store the video clips and still images.
 - Talk:** Allows you to speak out through the camera. Please note that this button displays only for the 2-way audio model and only one user is allowed to use this function at a time.
 - Listen:** Allows you receive the on-site sound and voice from the camera.
- ◆ **Zoom In Buttons** – Click the buttons to zoom in the live view image by 1x, 2x and 3x.
- ◆ **Night Mode Button** – Click the button to enable the “nightshot mode” to deliver clearer images in the dark environment. However, this will reduce the frame rate of video setting.

3.3 Configuring the IP address of PC

If you are failed to access to the camera, please check the IP address of your computer. When you connect the camera to your computer directly to proceed with configuration of the camera, you need to set up the IP addresses to be in the same segment for the two devices to communicate.

1. On your computer, click start > Control panel to open the control panel window.
2. Double click "Network Connection" to open the Network Connection Window.
3. Right click "Local Area Connection" and then click "Properties" from the shortcut menu.
4. When the Local Area Connection Properties window appears, select the "General" tab.
5. Select Internet Protocol [TCP/IP] and then click "Properties" to bring up the internet protocol [TCP/IP] Properties window.
6. To configure a fixed IP address that is within the segment of the camera, select the "Use the following IP address" option. Then, enter an IP address into the empty field. The suggested IP address is 192.168.0.x (x is 0~254 except 30) and the suggested Subnet mask is 255.255.255.0
7. When you are finished, click "OK"

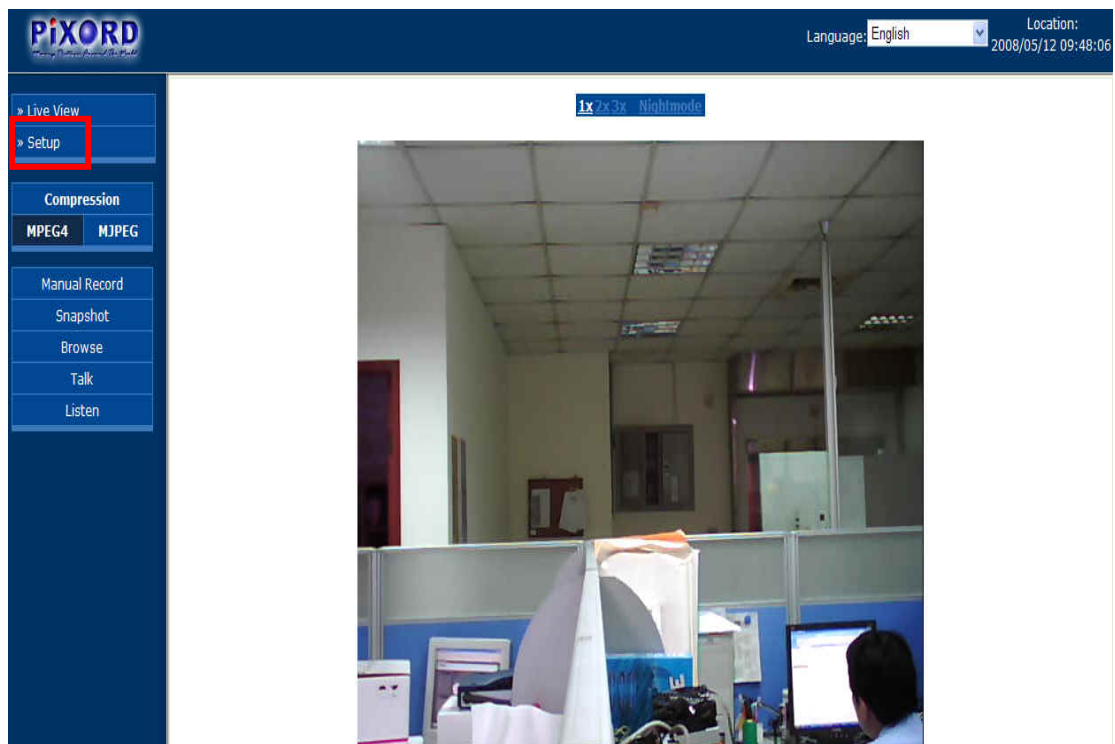


4. Chapter 4 Configuring the Camera

4.1 Using the Web Configuration

You can access and manage the camera through the web browser and the provided software application P6100. This chapter describes the web configuration and guides you through the configuration of the camera by using the web browser.

To configure the camera, click SETUP on the main page of web configuration. The web configuration will start from the basic page.



The web configuration contains the settings that are required for the camera in the left menu bar, including Smart Wizard, Basic, Network, Video/Audio, Event Server, Motion detect, Event Config, Tools, USB and Information.

4.2 Using Smart Wizard

The camera's Smart Wizard lets you configure your camera easily and quickly. The wizard will guide you through the necessary settings with detailed instructions on each step.

To start the wizard, click "Smart Wizard" in the left menu bar.

Step 1 Camera Settings

Camera Setting

- Camera Name:
- Location:
- Admin Password:
- Confirm Password:

Enter the name for the camera and place

Enter the administrator password

Next > Cancel

Step 2 IP Settings

IP Setting

- DHCP
- Static IP
 - IP
 - Subnet Mask
 - Default Gateway
 - Primary DNS
 - Secondary DNS
- PPPoE
 - User Name
 - Password

Select the IP setting according to your network: DHCP, static IP or PPPoE

192 . 168 . 2 . 76

255 . 255 . 255 . 0

192 . 168 . 2 . 254

. . . .

. . . .

. . . .

< Prev Next > Cancel

Step 3 Email Settings

Email Setting

- SMTP Server Address:
- Sender Email Address:
- Authentication Mode: None SMTP
- Sender User Name:
- Sender Password:
- Receiver #1 Email Address:
- Receiver #2 Email Address:

Enter the required information to be able to send email with image.

Step 4 Wireless Networking (For wireless model)

Wireless Networking

- Network ID(SSID):
- Wireless Mode: Infrastructure Ad-Hoc
- Channel:
- Authentication:
- Encryption: None WEP
- Format: ASCII HEX
- Key Length: 64 bits 128 bits
- WEP Key 1:
- WEP Key 2:
- WEP Key 3:
- WEP Key 4:

Select Enable to enable the wireless function of the camera and then complete the required settings

Step 5 Confirm Settings

Confirm Settings

- Camera Name:
- Location:
- IP Mode: Static
- IP Address: 192.168.2.15
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.2.254
- Primary DNS:
- Secondary DNS:
- SMTP Server Address:
- Sender Email Address:
- Authentication Mode: None
- Sender User Name:
- Receiver #1 Email Address:
- Receiver #2 Email Address:

- ESSID: default
- Connection: Infrastructure
- Channel: 6
- Authentication: Open
- Encryption : None

This step shows the configuration of your camera. When you confirm the settings, click “Apply” to finish the wizard and reboot the camera. Otherwise, click “Prev” to go back to the previous step(s) and change the settings; or click “Cancel” to end the wizard and discard the changes.

4.3 Basic Setup

The basic menu contains three sub-menus that provide the system settings for the camera such as the camera name, location, date & time and user management.

Basic > System

◆ **Basic**

Camera Name: Enter a descriptive name for the camera.

Location: Enter a descriptive name for the location used by the camera.

Language Default: Choose English or Traditional Chinese

◆ **Indicated LED**

This item allows you to set the LED illumination as desired. There are two options: NORMAL and OFF.

Basic»System

» **Basic**

· Camera Name:	<input type="text"/>
· Location:	<input type="text"/>
· Language Default:	<input type="text" value="English"/> ▼

» **Indication LED**

· Indication LED control: Normal OFF

Basic > Date & Time

◆ **Date & Time**

Time Zone: Select the proper time zone for the region from the pull-down menu.

Synchronize with PC: Select this option and the date & time settings of the camera will be synchronized with the connected computer.

Synchronize with NTP Server: Select this option and the time will be synchronized with NTP server. You need to enter the IP address of the server and select the update the interval in the following boxes.

Manual: Select this option to set the date and time manually.

Basic»Date & Time

» Date and Time

- TimeZone: (GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London ▾
- Synchronize with PC
- Synchronize with NTP Server:
 - NTP Server Address:
 - Update Interval: ▾ hours
- Manual
 - Date: (YYYY/MM/DD)
 - Time: (hh:mm:ss)

Basic > User

◆ Administrator

To prevent unauthorized access to the camera's web configuration, you are strongly recommended to change the default administrator password. Type the administrator password twice to set and confirm the password.

◆ General User

User Name: Enter the user's name you want to add to use the camera.

Password: Enter the password for the new user.

When you are finished, click Add/Modify to add new user to the camera. To modify the user's information, select the one you want to modify from UserList and click Add/Modify.

UserList: Display the existing users of the camera. To delete a user, select the one you want to delete and click Delete.

◆ Guest

User Name: Enter the guest's name you want to add, giving permission for the user to use the camera.

Password: Enter the password for the new guest.

UserList: Display the existing guests of the camera. To delete a user, select the one you want to delete and click Delete.

Note: The "General User" can access the camera and control the Function buttons of the camera's web configuration; the "Guest" can only view the live view image from the main page of the web configuration while accessing the camera. Only the "Administrator" is allowed to configure the camera through the web configuration.

Basic»User

» Administrator

- Password:
- Confirm Password:

» General User

- User Name:
- Password:
- UserList:

» Guest

- User Name:
- Password:
- UserList:

4.4 Network Settings

The Network menu contains three sub-menus that provide the network settings for the camera, such as IP Setting, DDNS Setting, IP Filter and wireless network (for wireless model only).

Network»Network

» IP Setting

- DHCP
- Static IP
 - IP:

192	168	2	15
-----	-----	---	----
 - Subnet Mask:

255	255	255	0
-----	-----	-----	---
 - Default Gateway:

192	168	2	254
-----	-----	---	-----
 - Primary DNS:

--	--	--	--
 - Secondary DNS:

--	--	--	--
- PPPoE
 - User Name:
 - Password:

» DDNS Setting

- Enable
- Provider: ▼
- Host Name:
- User Name:
- Password:

» UPnP

- Enable

» Ports Number

- HTTP Port: (default: 80)
- RTSP Port: (default: 554)

Network > Network

◆ IP Setting

This item allows you to select the IP address mode and set up the related configuration.

DHCP: Select this option when your network uses the DHCP server. When the camera starts up, it will be assigned an IP address from the DHCP server automatically.

Static IP: Select this option to assign the IP address for the camera directly. You can use IP Installer to obtain the related setting values.

IP	Enter the IP address of the camera. The default setting is 192.168.0.30 .
Subnet Mask	Enter the Subnet Mask of the camera. The default setting is 255.255.255.0 .
Default Gateway	Enter the Default Gateway of the camera. The default setting is 192.168.0.1 .
Primary/ Secondary DNS	DNS (Domain Name System) translates domain names into IP addresses. Enter the Primary DNS and Secondary DNS that are provided by ISP.

PPPoE: Select this option when you use a direct connection via the ADSL modem. You should have a PPPoE account from your internet service provider (ISP). Enter the "User Name" and "Password". The camera will get an IP address from the ISP as starting up.

Note: Once the camera gets an IP address from the ISP as starting up, it automatically sends a notification email to you. Therefore, when you select PPPoE as your connecting type, you have to set up the email or DDNS configuration in advance.

◆ DDNS Setting

With the Dynamic DNS feature, you can assign a fixed host and domain name to a dynamic internet IP address. Select the "Enable" option to enable this feature. Then, select the provider from the pull-down list and enter the required information in the "Host Name", "User Name" and "Password" boxes. Please note that you have to sign up for DDNS service provider first.

◆ UPnP

The camera supports UPnP (Universal Plug and Play) which is a set of computer network protocols that enable the device-to-device interoperability. In addition, it supports port auto mapping function so that you can access the camera if it is behind NAT router or firewall. Select the "Enable" option to enable this feature.

◆ **Ports Number**

HTTP Port: The default HTTP port is 80.

RTSP Port: Configure the transmission of streaming data within the network. The default RTSP (Real Time Streaming Protocol) port 554.

Note: If the camera is behind an NAT router or firewall, the suggested port to be used is from 1024 to 65535.

Network > IP Filter

The IP Filter setting allows the administrator of the camera to limit the users within a certain range of IP addresses to access the camera.

◆ **Start/End IP Address**

Assign a range of IP addresses that are not allowed to access the camera by entering the “Start IP address” and “End IP address”. When you are finished, click “Add” to save the range setting. You can repeat the action to assign multiple ranges for the camera.

For example, when you enter 192.168.0.50 in “Start IP Address” and 192.168.0.80 in “End IP Address”, the user whose IP address located within 192.168.0.50~192.168.0.80 will not be allowed to access the camera.

◆ **Deny IP List**

The list displays the range setting(s) of IP addresses that are not allowed to access the camera. To clear the setting, select a range of IP address from the list and click “Delete”.

Network >> IP Filter

>> IP Filter

· Start IP Address: . . .

· End IP Address: . . .

· Deny IP List:

Network > Wireless Setting (For wireless model only)

◆ Wireless

The camera supports WLAN while you use the wireless network. Select the “Enable” option to enable this feature.

Network ID (SSID): Keep the default setting of this option to connect the camera to any access point under the infrastructure network mode. To connect the camera to a specified access point, set a SSID for the camera to correspond with the access point’s ESS-ID. To connect the camera to an Ad-Hoc wireless workgroup, set the same wireless channel and SSID to match with the computer’s configuration.

Click “Site Survey” to display the available wireless networks, so that you can easily connect to one of the listed wireless networks.

Network >> Wireless Setting

» Wireless

Enable

· Network ID(SSID):

ESSID	MAC	Channel	Mode
NIAGARA	00:13:46:08:b0:cc	6	Infrastructure
pixord-test	00:13:46:88:36:68	6	Infrastructure
GLCON	00:15:e9:ee:c8:3d	6	Infrastructure
pixord-wireless	00:02:6f:06:a1:be	6	Infrastructure
Solleron IEEE 802.11b LAN	00:90:96:57:3e:03	11	Infrastructure
LF6	00:03:9d:4d:27:17	6	Infrastructure

List of searching results.

Wireless Mode: Select the type of wireless communication for the camera, “Infrastructure” or “Ad-Hoc”.

Channel: Select the appropriate channel from the list.

Authentication: Select the authentication method to secure the camera from being used by unauthorized user: Open, Shared-key, WPA-PSK and WPA2-PSK. The following table explains the four options

Open	The default setting of Authentication mode, which communicates the key across the network.
Shared-key	Allow communication only with other devices with identical WEP settings.
WPA-PSK/ WPA2-PSK	WPA-PSK/WPA2-PSK is specially designed for the users who do not have access to network authentication servers. The user has to manually enter the starting password in their access point or gateway, as well as in each PC on the wireless network.

If you select "Open" or "Shared-key" as the Authentication mode, you need to complete the following settings:

Encryption: Select the WEP option to enable the data encryption feature to secure the camera within the wireless network.

Format: Once you enable the Encryption feature, you need to determine the encryption format by selecting ASCII or HEX. ASCII format causes each character you type to be interpreted as an eight-bit value. Hex format causes each pair of characters you typed to be interpreted as an eight-bit value in hexadecimal (base 16) notation.

Key Length: Select the WEP key length you use, 64 bits or 128 bits.

WEP Key 1~4: Enter the WEP key(s) in the following boxes.

If you select WPA-PSK or WPA2-PSK as the Authentication mode, you need to complete the following settings.

Encryption: Select TKIP or AES. TKIP (Temporal Key Integrity Protocol) changes the temporal key every 10000 packets to insure greater security than the standard WEP security. AES (Advance Encryption Standard) is used to ensure the highest degree of security and authenticity for digital information.

Pre-Shared Key: This is used to identify each other in the network. Enter the name in the box and this name must match the Pre-shared key value in the remote device.

• Wireless Mode: Infrastructure Ad-Hoc

• Channel:

• Authentication:

• Encryption: TKIP AES

• Pre-Shared Key:

4.5 Setting up Video & Audio

The Video & Audio menu contains three sub-menus that provide the video and audio settings for the camera.

Video & Audio » Camera



» Image Setting

- Brightness: (0~100)
- Contrast: (0~100)
- Saturation: (0~100)
- Mirror: Vertical Horizontal
- Light Frequency: 50HZ 60Hz Outdoor

» Overlay Setting

- Include Date & Time
- Enable Opaque

Video & Audio > Camera

◆ Image Setting

Brightness: Adjust the brightness level from 0~100

Contrast: Adjust the contrast level from 0~100

Saturation: Adjust the colors level from 0~100

Click "Default" to restore the default settings of the three options above.

Mirror: Select the "Horizontal" option to mirror the image horizontal. Select the "Vertical" option to mirror the image vertically.

Light Frequency: Select proper frequency according to camera's location, 50Hz, 60Hz or outdoor.

◆ **Overlay Setting**

Includes Date & Time: Select this option to display the date & time stamp on the live view image.

Enable Opaque: Select this option to set a black background to the displayed date and time stamp.

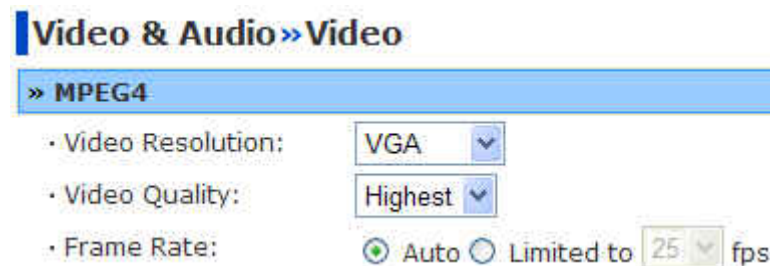
Video & Audio > Video

◆ **MPEG4**

Video Resolution: Select the desired video resolution from the three formats: VGA, QVGA and QQVGA. The higher setting (VGA) obtains better video quality while it uses more resource within your network.

Video Quality: Select the desired image quality from five levels: Lowest, Low, Medium, High and highest.

Frame Rate: Select Auto or a proper setting depending on the your network status.



◆ **MJPEG**

Video Resolution: Select the desired video resolution from the three formats: VGA, QVGA and QQVGA. The higher setting (VGA) obtains better video quality while it uses more resource within your network

Video Quality: Select the desired image quality from five levels: Lowest, Low, Medium, High and highest.

Frame Rate: Select Auto or a proper setting depending on the your network status.

Note: The camera supports both MPEG4 and MJPEG compression. MJPEG capture the images in JPEG format, which require higher bandwidth to view smooth video. The administrator can control the bandwidth of each connection well through the setting options above.

» **MJPEG**

- Video Resolution:
- Video Quality:
- Frame Rate: Auto Limited to fps

◆ **3GPP**

The camera supports 3GPP specification. Select the “Disable” option to disable this feature. Otherwise, select “3GPP Without Audio” or “3GPP With Audio” to transfer the video clips without or with audio.

If you use a mobile phone that supports 3GPP, you can also view the real-time streaming image captured by the camera on your phone (with the default player on the phone) by entering the RTSP link: rtsp://(IP address of the camera)/3gp.

» **3GPP**

- Disable
- 3GPP Without Audio
- 3GPP With Audio

Video & Audio > Audio

◆ **Camera Microphone In**

Select the Enable option to enable the camera’s audio function, so that you can receive the on-site sound and voice from the camera.

◆ **Camera Speaker Out**

This option is displayed when you connect a 2-way audio camera. Select the Enable option to enable the camera’s external speaker function, so that the connected speaker can play the sound and voice through the camera.

Volume: Set the speaker’s volume

Video & Audio » Audio

» **Camera Microphone In**

Enable

» **Camera Speaker Out**

Enable

• Volume:

4.6 Event Server Configuration

The Event Server menu contains three sub-menus that allow you to upload images to FTP, send emails that include still images and store images to a NAS system.

Event Server Setting»FTP

» FTP

- Host Address:
- Port Number:
- User Name:
- Password:
- Directory Path:
- Passive Mode: Enable

When you complete the required settings for FTP, Email or Network Storage, click “Test” to test the related configuration is correct or not. Once the camera connects to the server successfully, click “Apply”.

Event Server Setting > FTP

◆ FTP

Host Address: Enter the IP address of the target FTP server.

Port Number: Enter the port number used for the FTP server.

User Name: Enter the user name to login into the FTP server.

Password: Enter the password to login into the FTP server

Directory path: Enter the destination folder for uploading the images. For example, /Test/

Passive Mode: Select the Enable option to enable passive mode.

Event Server Setting»FTP

» FTP

- Host Address:
- Port Number:
- User Name:
- Password:
- Directory Path:
- Passive Mode: Enable

Event Server Setting > Email

◆ Email

SMTP Server Address: Enter the mail server address. For example, mymail.com

Sender Email Address: Enter the email address of the user who will send the email. For example, john@mymail.com

Sender user Name: Enter the user name to login the mail server

Sender Password: Enter the password to login the mail server.

Receiver#1 Email Address: Enter the first email address of the user who will receive the email.

Receiver#2 Email Address: Enter the second email address of the user who will receive the email.

Event Server Setting»Email

» Email

• SMTP Server Address:	<input type="text"/>
• Sender Email Address:	<input type="text"/>
• Authentication Mode:	<input checked="" type="radio"/> None <input type="radio"/> SMTP
• Sender User Name:	<input type="text"/>
• Sender Password:	<input type="text"/>
• Receiver #1 Email Address:	<input type="text"/>
• Receiver #2 Email Address:	<input type="text"/>

Event Server Setting > Network Storage

◆ Net Storage

Samba Server Address: Enter the IP address of the Network Storage server

Share: Assign the folder on the Network Storage server to share the files to uses.

Path: Assign the path for uploading the files on the Network Storage server. For example, /Test/

User Name: Enter the user name to login into the Network Storage server

Password: Enter the password to login into the Network Storage server.

Split By: When the file is too large to upload smoothly, use this option to split it by selecting "File Size" or "Recording Time".

When Disk Full: Select "Stop Recording" or "Recycle-Delete oldest Folder of File" when the storage space on the Network Storage server is full.

Event Server Setting»Network Storage

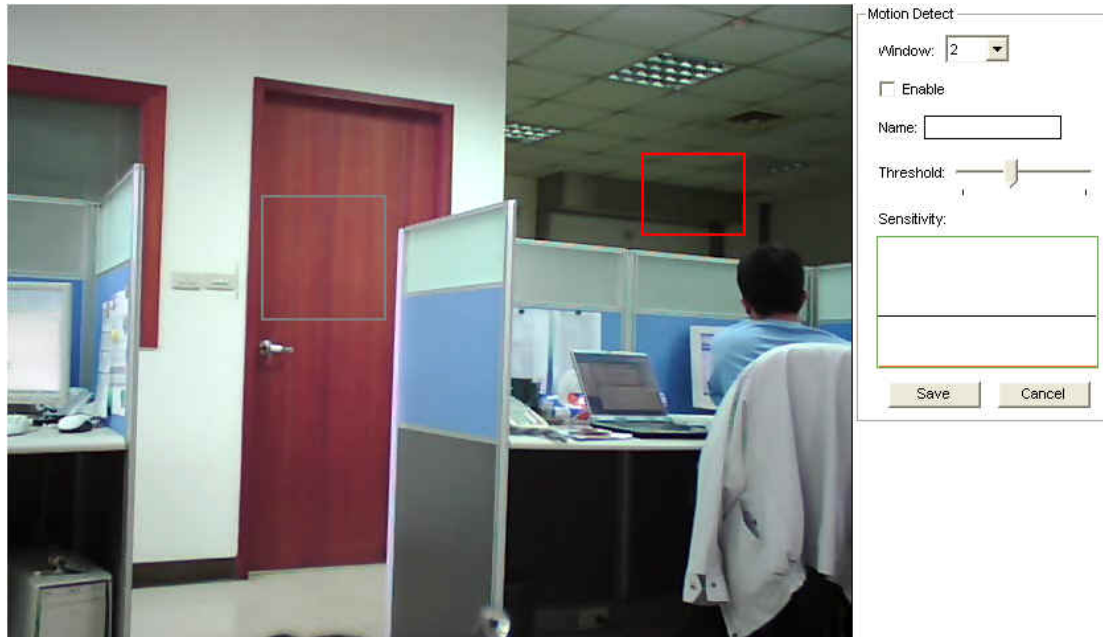
»Network Storage

• Samba Server Address:	<input type="text"/>
• Share:	<input type="text"/>
• Path:	<input type="text"/>
• User Name:	<input type="text"/> <input checked="" type="checkbox"/> Anonymous
• Password:	<input type="password"/>
• Split By:	<input checked="" type="radio"/> File Size <input type="text" value="100"/> (MB) <input type="radio"/> Recording Time <input type="text" value="30"/> (Minutes)
• When Disk Full:	<input type="radio"/> Stop Recording <input checked="" type="radio"/> Recycle - Delete Oldest Folder

4.7 Motion Detect

The motion Detect menu contains the command and option that allow you to enable and set up the motion detection feature of the camera. The camera provides two detecting areas.

To enable the detecting area, select Window 1 or 2 from the pull-down list and then select "Enable". When the detecting area is enabled, you can use the mouse to move the detecting area and change the area coverage.



Name: Assign a name to the detecting area.

Threshold: Move the slide bar to adjust the level for detecting motion to record video.

4.8 Event Config

The Event Config menu contains four sub-menus that provide the commands to configure event profiles.

Event Configuration > General Setting

Snapshot/Recording Filename Prefix: You can assign a given prefix to each new captured files. Otherwise, leave this option blank to use the default setting.

Network Storage Recording Time Per Even: Limit the recording time while you are using the Network Storage solution.

Event Configuration»General Setting

» General

- Snapshot/Recording Subfolder:
- Network Storage Recording Time Per Event: secs

Event Configuration > Arrange Schedule Profile

This sub-menu displays the scheduled profile(s). To customize the profile, click “Add” and then enter a descriptive name for the profile in the prompt dialog window. After entering the profile name, click “OK” and the profile is added to the Schedule Profile list. To delete the profile, select the profile in the list and click “Delete”.

Event Configuration»Arrange Schedule Profile

» Schedule Profile

yard

• Profile Name:	<input type="text" value="yard"/>
• Weekdays:	<input checked="" type="radio"/> Sun <input type="radio"/> Mon <input type="radio"/> Tue <input type="radio"/> Wed <input type="radio"/> Thu <input type="radio"/> Fri <input type="radio"/> Sat
• Time List:	<input type="text"/> <input type="button" value="Add"/> <input type="button" value="Copy this to all weekdays"/>
	<input type="button" value="Delete"/> <input type="button" value="Delete this from all weekdays"/>
• Start Time:	<input type="text"/> : <input type="text"/>
• End Time:	<input type="text"/> : <input type="text"/>
	<input type="button" value="save"/> <input type="button" value="Cancel"/>

Profile Name: Display the profile name that you select in the Schedule Profile list.

Weekdays: Select the weekday(s) that you want to separately assign in the schedule profile. The weekday that has been assigned will be displayed with green color.

Time List: Display the time period that you have assigned within the selected weekday. To assign the same time period to every weekday, click "Add this to all weekdays", click "Delete this from all weekdays" to remove the selected time period from every weekday. Click Delete to remove the selected time period.

Start/End Time: Enter the start and end time and then click "Add" to assign a time period within the selected weekday.

Event Configuration > Motion Detect Trigger

Select the Enable option to enable the trigger function of the camera, so that you can send captured images within the detecting area to the FTP server, email receiver, Network Storage server or the connected USB device. You have to configure corresponding settings such as FTP server and email server to enable this feature

Schedule Profile: Select a schedule profile from the pull-down list.

Action: Select the destination that the captures images will be sent to: Send Email, FTP Upload, Record to Network Storage or Save Image to USB.

Event Configuration » Motion Detect Trigger

» Motion Detect Trigger (*Please set the corresponding server setting first)

Enable

· Schedule Profile:

always ▾

· Action:

Send Email

FTP Upload

Record to Network Storage

Save Image to USB

Apply

Cancel

Event Configuration > schedule Trigger

You can separately configure the schedule for trigger function of the camera by Email, FTP or Network Storage. Select the Enable option on each item and then select a Schedule Profile from the pull-down list and set the Interval time.

Note: If the setting value of the “Network Storage Recording Time Per Event” option in General Setting is longer than the “Interval” time in Network Storage Schedule, the recorded file will be a continuous video clip.

For example, if you set the “Network Storage Recording Time Per Event” as 10 seconds and the “Interval” as 5 seconds, recorded file becomes a non-stop video clip because the camera will record a 10-second video clip every 5 seconds.

Event Configuration»Schedule Trigger

» Email Schedule

Enable

· Schedule Profile:

always ▾

· Interval:

20 secs

» FTP Schedule

Enable

· Schedule Profile:

always ▾

· Interval:

30 secs

» Network Storage Schedule

Enable

· Schedule Profile:

always ▾

· Interval:

30 secs

Apply

Cancel

4.9 Tools

The Tools menu provides the commands that allow you to restart or reset the camera. You can also backup and restore your configuration and upgrade the firmware for the camera.

System Tools»Tools

» Factory Reset

Factory reset will restore all the setting

» System Reboot

System will be rebooted

» Configuration

· Backup
· Restore:

» Update Firmware

· Current Firmware Version : 1.0.0 build:13
· Select the firmware :

◆ Factory Reset

Click “Reset” to restore all factory default settings for the camera

◆ System Reboot

Click “Reboot” to restart the camera just like turning the device off and on. The camera configuration will be retained after rebooting

◆ Configuration

You can save your camera configuration as a backup file on your computer. Whenever you want to resume the original settings, you can restore them by retrieving the backup file.

Backup: Click “Get the backup file” to save the current configuration of the camera.

Restore: Click “Browse” to locate the backup file and then click “Restore”.

◆ Update Firmware

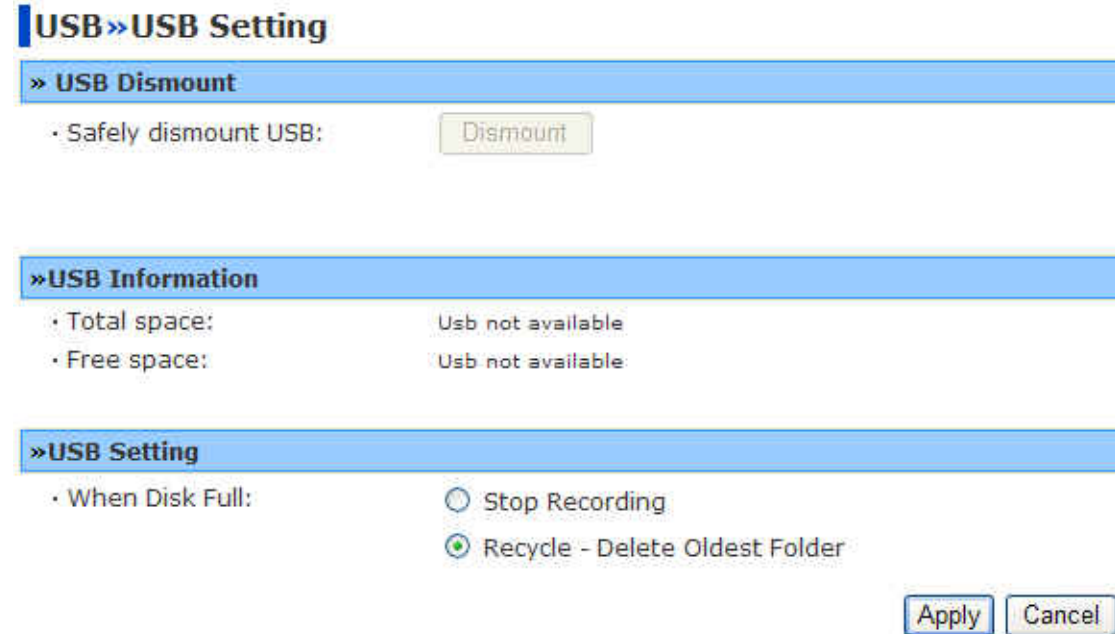
This item displays the current firmware version. You can upgrade the firmware for your camera once you obtained a latest version of firmware.

Select the firmware: Click “Browse” to locate the backup file and then click “Update”

Note: Make sure to keep the camera connected to the power source during the process of upgrading firmware, else the camera might be damaged because of upgrading failure.

4.10 USB

The USB menu provides the information and controls of the connected USB device.



◆ USB Dismount

To safely remove the connected USB device, you can press the dismount button for four seconds on the camera or click "Dismount" from this item.

◆ USB Information

Display the total space and free space of the USB device.

◆ USB Setting

When Disk Full: Select "Stop Recording" or "Recycle-Delete Oldest Folder of file" when the storage space on the USB device is full.

Note: The connected USB storage device can be only used to store still images.

4.11 Information

The Information menu displays the current configuration and events log of the camera.

System Information»Device Information

» Basic

- Camera Name:
- Location:
- Firmware Version: 1.0.0 build: 13

» Video & Audio

- MPEG4 Resolution: VGA
- MJPEG Resolution: VGA
- 3GPP Enable: Disable
- Microphone In: Enable
- Speaker Out: Enable

» Network

- IP Mode: Static
- IP Address: 192.168.2.157
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.2.254
- MAC Address: 00:1A:97:00:05:F7
- Primary DNS Address:
- Secondary DNS address:
- UPnP Enable: Enable
- HTTP Port: 80
- RTSP Port: 554

» Wireless

- ESSID: default
- Connection: Infrastructure
- Channel: 6
- Authentication: Open
- Encryption: None

◆ Device Info

Display the Basic, Video & Audio, Network and Wireless settings of the camera.

◆ System Log

The Logs table displays the events log recorded by the system.

5. Appendix

Specification

◆ Image Sensor	
Sensor	1/4" color CMOS
Resolution	640X480
◆ Video	
Compression	MPEG4/MJPEG
Video resolution	VGA/QVGA/QQVGA; 30FPS Max.
◆ System Hardware	
Processor	ARM9 base
RAM	32MB SDRAM
ROM	8MB NOR Flash
Power	DC 5V
◆ Communication	
LAN	10/100Mbps Fast Ethernet, auto-sensed, Auto-MDIX
WLAN	IEEE 802.11b/g
Protocol support	TCP/IP, UDP, ICMP, DHCP, NTP, DNS, DDNS, SMTP, FTP, Samba, PPPoE, UPnP, RTP, RTSP and RTCP.
◆ User Interface	
LAN	One RJ-45 port
Antenna	One external antenna
Reset	One Reset button
USB	USB 1.1 port, with one unmount button; Power distribution: 500mA Max. Support FAT, FAT32 file system
LEDs	Power LED (amber); Link LED (green)
◆ Audio	
Input	Built-in MIC
Output	Headphone output jack (Mono)
Codec	PCM/AMR (AMR is for 3GPP only)

- ◆ **Software**
 - OS Support** Windows 2000/XP/Vista
 - Browser** Internet Explorer 5.0 or above
 - Software** Ultra View for playback/recording/configuration features

- ◆ **Operating Environment**
 - Temperature** Operation: 5°C ~ 45°C
Storage: -15°C ~ 60°C
 - Humidity** Operation: 20% ~ 85% non-condensing
Storage: 0% ~ 90% non-condensing

- ◆ **EMI**
 - FCC Class B, CE Class B**