

DCS-5610

**PTZ PoE Internet Camera**

**User Manual**

**Business Class Networking**

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## Package Contents

- D-Link DCS-5610 PTZ PoE Internet Camera
- CAT5 Ethernet Cable
- Power Adapter
- Manual and Software on CD
- Quick Install Guide
- Camera Stand

**Note:** Using a power supply with a different voltage than the one included with your product will cause damage and void the warranty for this product.

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



## System Requirements

- Windows® XP or Windows Vista™
- At least 256MB of memory (512MB recommended)
- An available Ethernet connection
- Internet Explorer 6.x or higher Internet Web Browser
- VGA card resolution: 800x600 or above
- CPU: 1.7GHz or above processor (2.8GHz plus processor with 512MB memory and a 32MB video card is required for multiple camera viewing and recording in IP surveillance program)

# Introduction

The D-Link **DCS-5610** PTZ (Pan, Tilt, and Zoom) PoE Internet Camera is a full featured surveillance system that connects to an Ethernet, Fast Ethernet or broadband Internet connection to provide remote high-quality 2-Way Full Duplex audio, and 2.6x optical and 4x digital zoom for greater clarity and detail from your recordings. The **DCS-5610** is the latest product added to the D-Link SECURICAM Network line. The **DCS-5610** PTZ PoE Internet Camera differs from a conventional PC Camera because it is a stand-alone system with a built-in CPU and Web server, capable of solving demanding security and home/office monitoring needs. The PTZ PoE Internet Camera can be accessed remotely, and controlled, from any PC or notebook computer over the Internet from anywhere in the world. The simple installation procedures, along with the built-in Web-based interface offer easy integration to your network environments.

***Note:** Use of audio or video equipment for recording the image or voice of a person without their knowledge and consent is prohibited in certain states or jurisdictions. Nothing herein represents a warranty or representation that the D-Link product provided herein is suitable for the end-user's intended use under the applicable laws of his or her state. D-Link disclaims any liability whatsoever for any end-user use of the D-Link product, which fails to comply with applicable state, local, or federal laws.*

# Features

- **Motorized Pan and Tilt Operation** - The **DCS-5610** has a pan and tilt function that can expand your viewing area to cover a wide 300° angle side-to-side and a 90° angle up and down.
- **CCD Sensor** - The **DCS-5610** comes with a high quality CCD sensor that is superior to CMOS type sensor. The variable focus glass lens will facilitate the use of the **DCS-5610** providing crystal clear and sharp images. You can view up to 30 frames per second of live motion video with 470 TV lines of resolution.
- **Broad Range of Applications** - With today's high-speed Internet services, the PTZ PoE Internet Camera can provide the ideal solution for live video images and audio over the Intranet and Internet for remote monitoring. The **DCS-5610** allows remote access from your Web browser for live image viewing with audio, and allows the administrator to manage and control the PTZ PoE Internet Camera anytime and anywhere in the world. Apply the Internet 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 PTZ PoE Internet Camera can also be used for intruder detection with its motion-detection mode, capture still images and video images for archiving, and many more applications such as sending images to an FTP server or configuring for E-mail alerts. The **DCS-5610** features 2-way Full-Duplex audio with a built-in microphone that lets you remotely monitor and record audio with your video. With the addition of optional speakers (not included), you can have 2-way Full-Duplex audio communication with the people you are viewing. The **DCS-5610** also features 2.6x optical and 4x digital zoom for closer viewing.
- **Supports a Variety of Protocols** - In addition, the **DCS-5610** supports a variety of platforms including RTSP, FTP, SMTP, NTP, and HTTP. The camera also supports UPnP and DDNS. DDNS allows your camera to be accessed using a static host name rather than an IP address. UPnP will allow users of Windows® XP to install the camera with a single mouse click.

- **Audio Out** - Connect a speaker to the camera so that a person in front of the camera can hear the person on the other end of the communication.
- **Web Configuration** - Using a Web browser, administrators can configure and manage the PTZ PoE Internet Camera directly from its own Web page via the Intranet or the Internet. Up to 20 user names and passwords are permitted, with privilege settings controlled by the administrator.
- **Powerful Surveillance and Remote Monitoring Utility** - The powerful **D-ViewCam** software application assigns an administrator with a pre-defined user ID and password who can modify the PTZ PoE Internet Camera settings from the remote site via the Intranet or the Internet. Administrators are allowed to monitor the image, record the image to a hard drive, take snapshots, and more.
- **Connection to External Devices** - Supporting auxiliary Input/Output connectors, you can connect the PTZ PoE Internet Camera to a variety of external devices such as IR-sensors, switches and alarm relays. Combined with programmable alarming equipment, you can develop a variety of security applications that are triggered on alarm-based events. The PTZ PoE Internet Camera provides an industry standard in/out external connector for connectivity.
- **Internal/External Microphone** - The *SECURICAM* Network **DCS-5610** allows you to monitor video as well as audio through the web browser. You have the option of using the **DCS-5610**'s integrated microphone or your own external microphone using the connection located at the rear of the unit.

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# Hardware Overview

## Connections



### DC Power Connector

The DC power input connector is located on the DCS-5610 Internet Camera's back panel and is labeled 12V DC with a single socket to supply power to the Internet Camera.

### Reset Button

Reset will be initiated when the reset button is pressed once and held 30 seconds until the Power LED flashes through its cycle twice.

### MIC On/Off Switch

Used to turn the microphone on or off.

### Ethernet Cable Connector (PoE)

The Internet Camera's back panel features an RJ-45 connector for connections to 10Base-T Ethernet cabling or 100Base-TX Fast Ethernet cabling. This network port supports the NWay protocol, allowing the Internet Camera to automatically detect or negotiate the transmission speed of the network. The Ethernet port can also be used to power the camera using a PoE switch.

### Audio Out Connector

The DCS-5610 provides an Audio Out connector to be used for 2-way audio. Speakers (not included) may be connected to the camera to provide audio for 2-way communication.

### Microphone Connector

The DCS-5610 Internet Camera has an internal microphone built-in. However, you have the option of using an external microphone by plugging it into the microphone connector.

### I/O Connector

The DCS-5610 provides a terminal block with two pairs of connectors situated on the back panel. One pair is for input and the other is for output. The I/O connectors provide the physical interface to send and receive digital signals to and from a variety of external devices.



# Hardware Overview

## LEDs



### Power/MIC LED

The power LED is at the front base of the camera. As soon as the power adapter is connected to the camera, the LED will turn red.

### Activity LED

Once a connection has been established via Ethernet port, the Activity LED will turn solid green. If traffic is passing to the camera the Activity LED will blink. If no Ethernet connection is detected the Activity LED will not light up.

# Hardware Installation

## Connect the Ethernet Cable

Connect an Ethernet cable to the network cable connector located on the Internet Camera's back panel and attach it to the network.



## Connect Using Power-Over-Ethernet

Once you connect an Ethernet cable to your PoE switch or adapter, the Power LED on the DCS-5610 will turn green to indicate a proper connection.

## Attach the External Power Supply

Attach the external power supply to the DC power input connector located on the Internet Camera's back panel (labeled DC 12V) and connect it to an AC power outlet.

**Note:** When you have a proper connection, the LED will turn green. The light may cycle on and off and your computer may show an intermittent loss of connectivity, this is normal until you have configured your Internet Camera.



The Internet Camera comes with a camera stand with a swivel ball screw head that can be attached to the Internet Camera bottom socket cavity. Attach the camera stand to the Internet Camera and station it for your application. There are holes located in the base of the camera stand allowing the Internet Camera to be mounted to the ceiling, or any wall securely.



Socket for camera stand

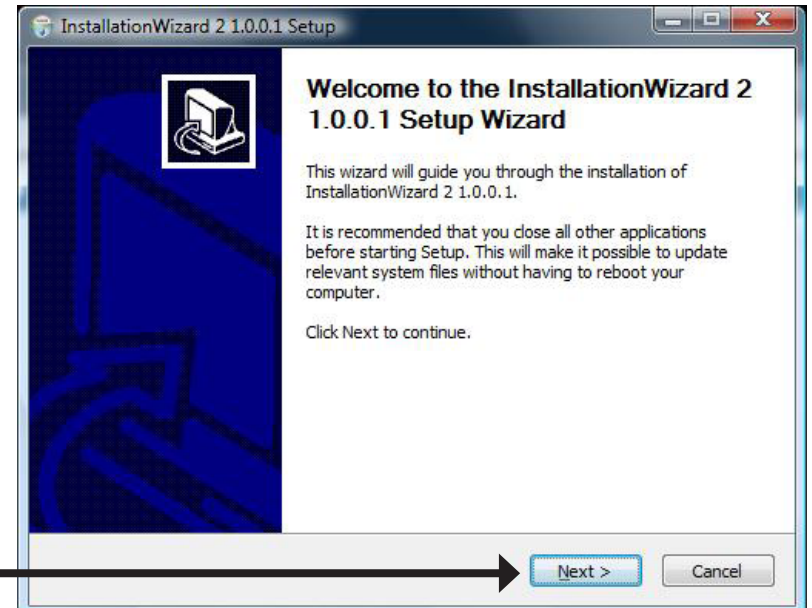
# Software Installation

Turn on the computer and Insert the D-Link DCS-5610 Autorun CD in the CD-ROM drive. The step-by-step instructions that follow are shown in Windows® XP. The steps and screens are similar for the other Windows operating systems.



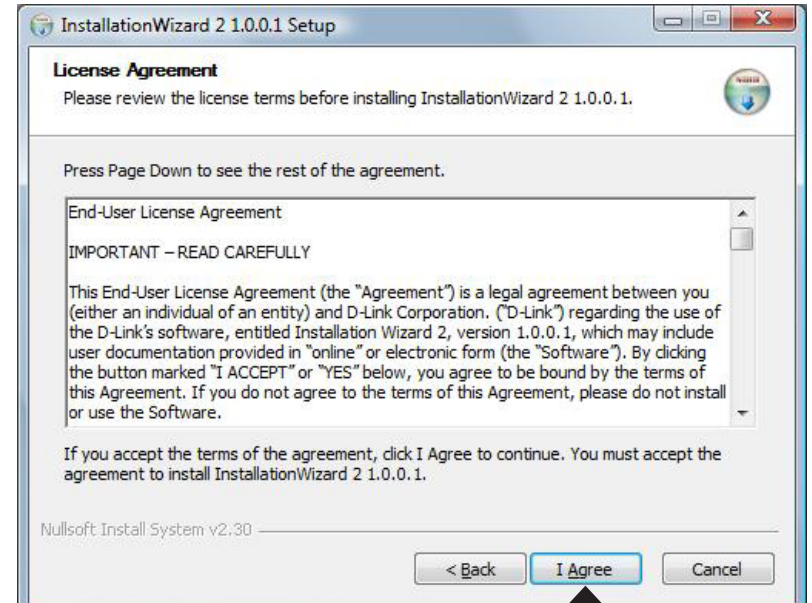
If the CD Autorun function does not automatically start on your computer, click Windows Start > Run. In the Run command box type "**D:\DCS5610.exe**", where D: represents the drive letter of your CD-ROM. If it does start, proceed to the next screen.

Click **Next** to continue.



Click **Next**

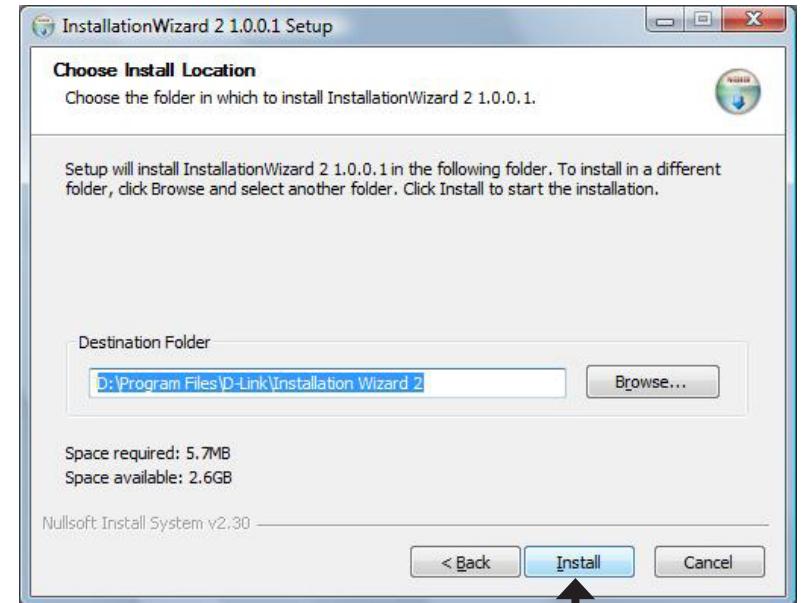
Click **I Agree** to accept the License Agreement.



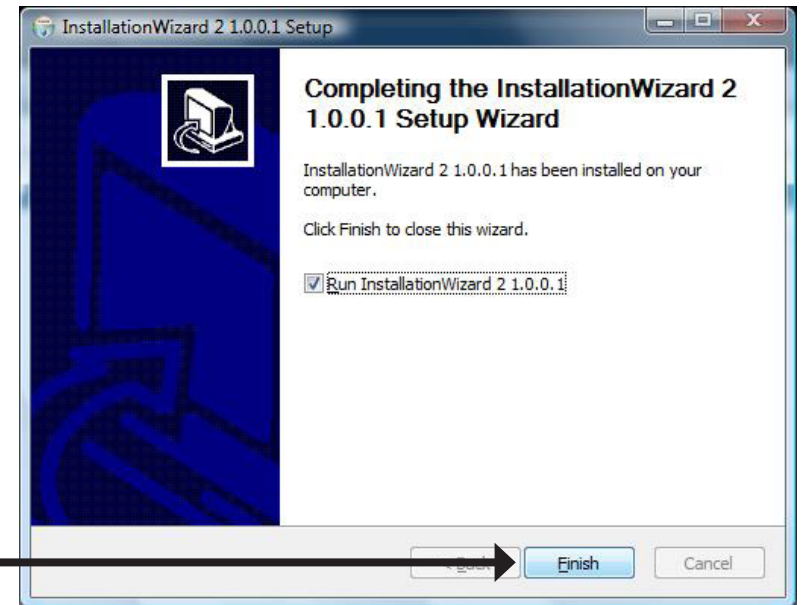
Click **I Agree**

To start the installation click **Install**.

**Note:** *The installation may take several minutes to complete.*



Click **Install**



Click **Finish**

# Configuration

This section will show you how to configure your new D-Link Internet Camera using the Installation Wizard.

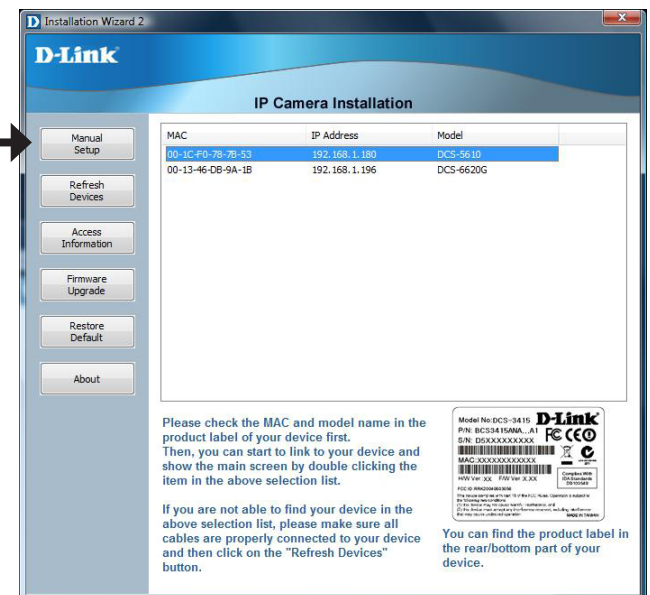
## Setup Wizard Configuration

Click on the **D-Link Installation Wizard** icon that was created in your Windows Start menu.

The Setup Wizard will appear and show the MAC address of the DCS-5610 and an IP Address (which may or may not be correct depending on what you have your DCS-5610 connected to). If you have a DHCP server on your network, there will be a valid IP Address displayed here.

**Note:** A DHCP server is a device that supplies the same IP address.

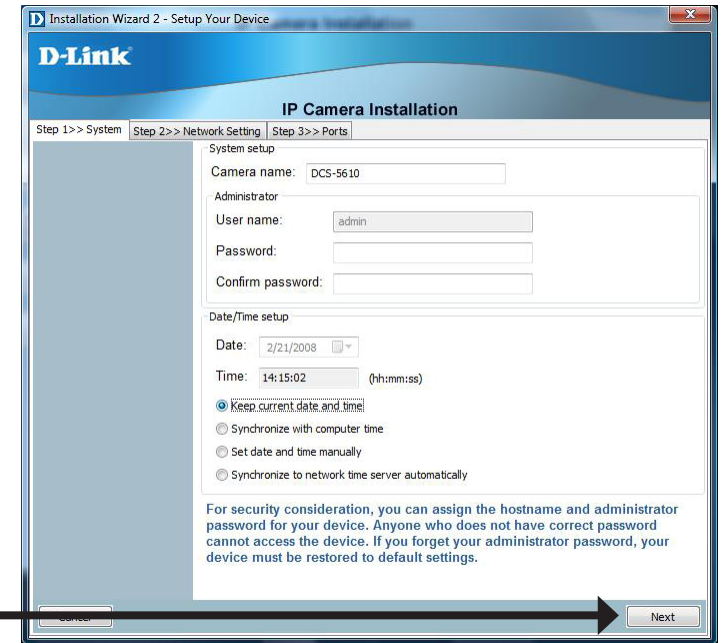
Click Manual Setup



Enter the admin ID and password.

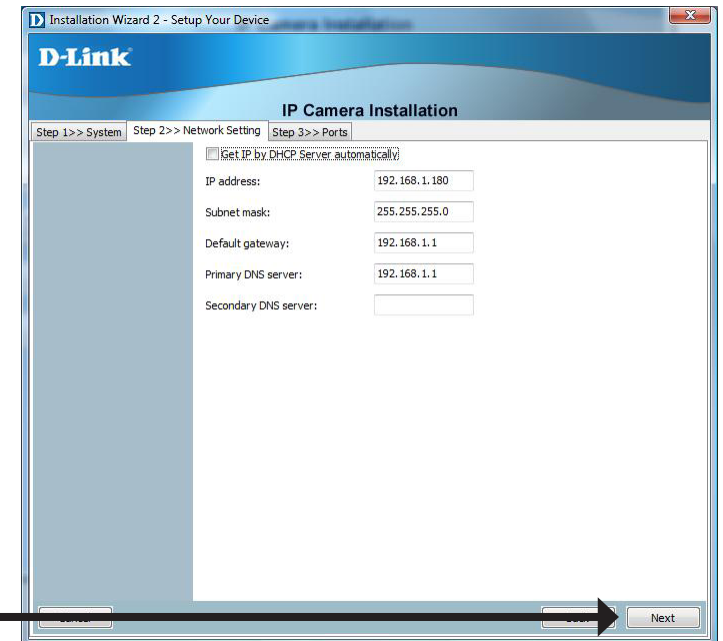
**Note:** The default Admin ID is **admin** with the password left blank.

Click Next



Select DHCP if you want to obtain a new IP address every time the camera boots up.

Click Next





Choose **UPnP Port Forwarding** if your router supports it, otherwise choose **Manual** to enter your port numbers manually. Click **Next** to continue.

Click Next

Installation Wizard 2 - Setup Your Device

D-Link

### IP Camera Installation

Step 1 >> System | Step 2 >> Network Setting | **Step 3 >> Ports**

If your device is located behind the router and you want to access it on Internet, your router must be configured. UPnP (Universal Plug and Play) technology will configure your router automatically if your router supports it. If your router does not support UPnP port forwarding, you need to configure the port numbers manually.

The wizard has detected that your router does not support UPnP port forwarding. Choosing the "Manual (Advanced)" radio button is recommended, and please also remembering to configure the port numbers in your router if you want to access the device on Internet.

UPnP port forwarding  
 Manual (Advanced)

Manual port mapping

HTTP port:	8080
RTSP port:	554
RTP video port:	5556
RTCP video port:	5557
RTP audio port:	5558
RTCP audio port:	5559

Next

Enable DDNS and setup your DDNS service here, if you have subscribed to a DDNS service. Click **Next** to continue.

Click Next

Installation Wizard 2 - Setup Your Device

D-Link

### IP Camera Installation

Step 1 >> System | Step 2 >> Network Setting | Step 3 >> Ports | **Step 4 >> DDNS**

Enable DDNS

Registration Information

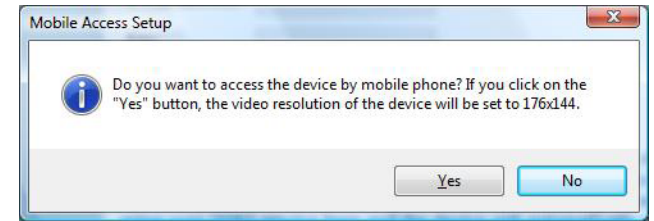
Server name:	www.dlinkddns.com(Free)
Host name:	
E-mail address:	
Key:	
Confirm key:	

Sign up for D-Link's Free DDNS server at <http://www.DLinkDDNS.com>

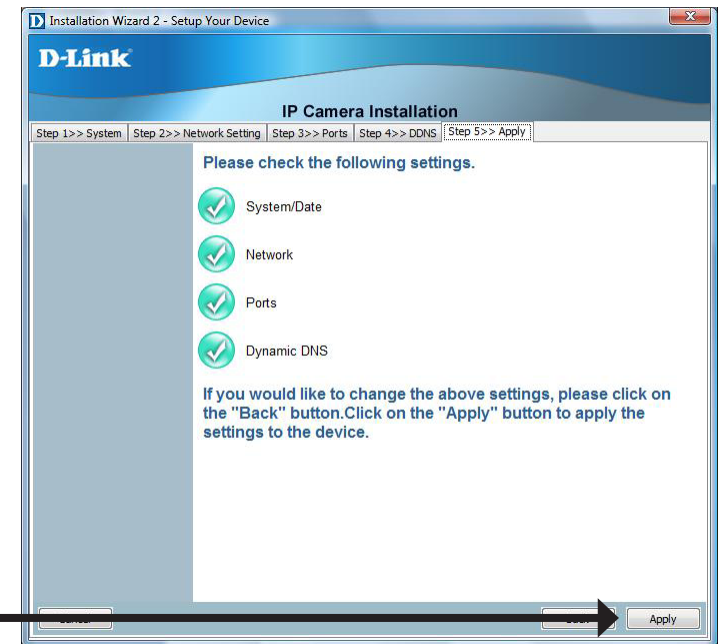
Dynamic DNS (Domain Name Service) is a method of keeping a domain name linked to a dynamic public IP address. In many cable/DSL connections, a dynamic public IP address is assigned for every connecting request. You can setup your DDNS service here and the device will automatically update your DDNS host name if the public IP address is changed.

Next

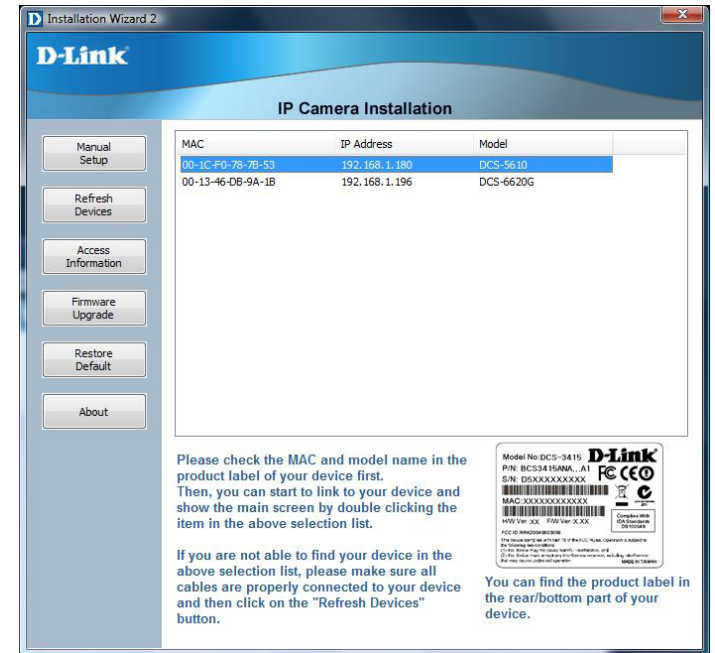
If you want to access the DCS-5610 via mobile phone, click **Yes** and the video resolution will be set to 176x144.



Click **Apply** to apply the settings to the device.



Double-click the **DCS-5610** to launch the camera's web configuration page.

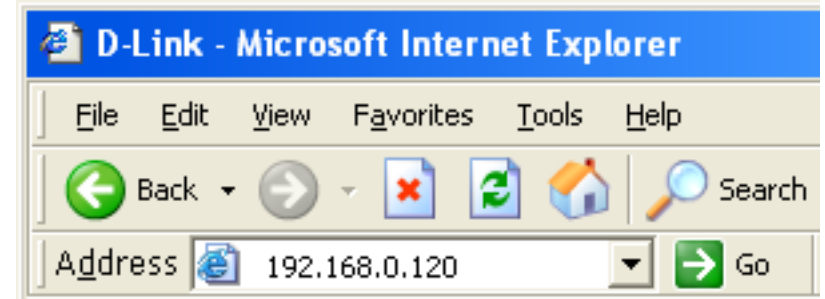


# Web-based Configuration Utility

This section will show you how to configure your new D-Link Internet Camera using the Web-based Configuration Utility.

To access the configuration utility, open a web-browser such as Internet Explorer and enter the IP address of your Internet Camera (<http://192.168.0.120>)

**Note:** In the example, this address is 192.168.0.120. Your address may differ.



Type **Admin** in the user name field and leave the password blank by default.

**Note:** You may refer to page 51 to change the password for your admin account.



Click **OK**

# Live Video Camera

This section shows your camera's live video. You can control your settings using the buttons below.

**Zoom:** “-” zooms out, and “+” zooms in.

**Pan Speed:** Select the speed at which the camera will pan.

**Tilt Speed:** Select the speed at which the camera will tilt.

**Zoom Speed:** Select the speed at which the camera will zoom or focus.

**Pan:** Pans the camera one full cycle.

**Stop:** Stops movement of the camera during pan.

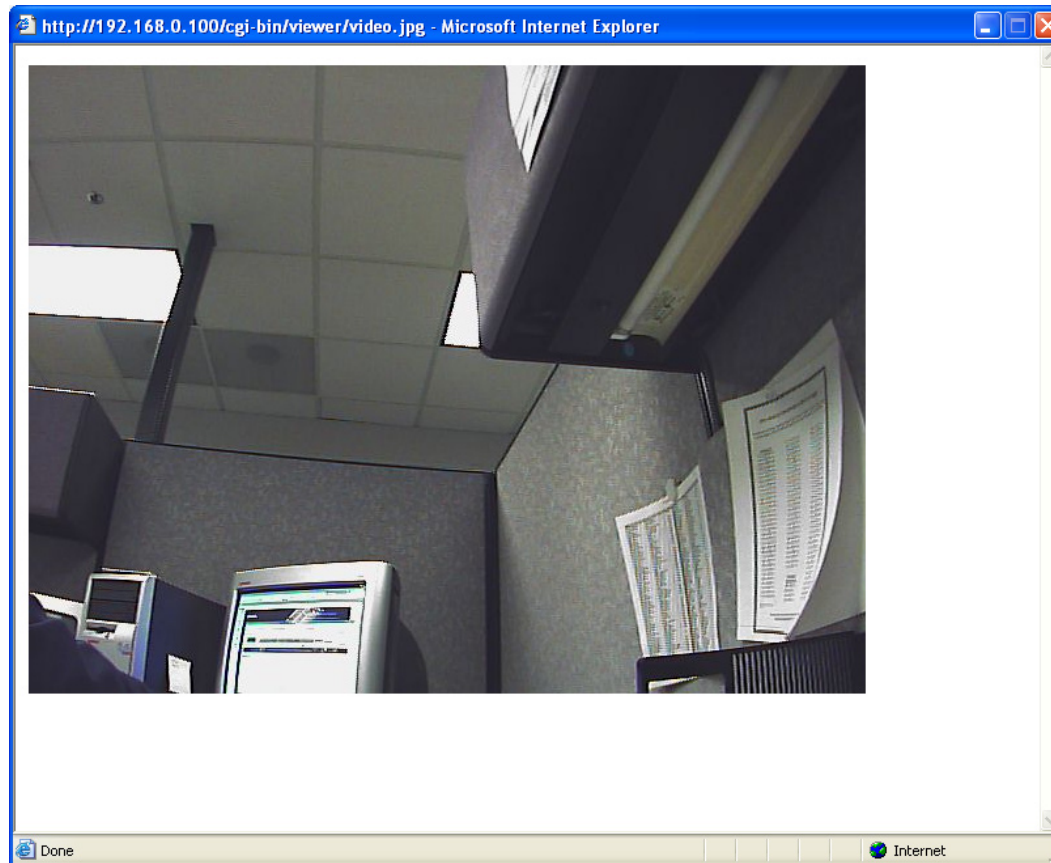
**Patrol:** Enables the Patrol feature, please see page 50.

**Go to:** Select a preset position where the camera will point.

The screenshot displays the D-Link web interface for the DCS-5610 camera. At the top, it shows 'Product Page: DCS-5610' and 'Firmware Version: 1.00'. The main header features the D-Link logo and a navigation bar with tabs for 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'LIVE VIDEO' tab is selected, showing a 'CAMERA' section with a message: 'This section shows your camera's live video. You can control your settings using the buttons below. Current resolution is 640x480'. Below this is a 'LIVE VIDEO' section with a video feed from 'DCS5610(TCP-AV)' dated '2008/01/06 23:04:17'. The video shows an office interior with computer monitors and a printer. To the left of the video is a control panel with a directional pad, a 'Zoom' button, and dropdown menus for 'Pan speed', 'Tilt speed', and 'Zoom speed'. There are also 'Pan', 'Stop', and 'Patrol' buttons, and a 'Go to:' dropdown menu. The bottom of the interface has a 'SECURITY' label.

# Snapshot

This section shows a snapshot image from your camera's live video.



# Client Setup

You may configure and select the setting for your media streaming and recording

**Stream Options:** You can select which video stream profile to use.

**Media Options:** Allows the user to determine whether to receive only video, audio, or both video & audio.

**Protocol Options:** There are 4 protocols for you to choose for the video streaming.

**UDP Protocol:** This is recommended because it is an ideal protocol for transmitting real-time audio and video data, which can tolerate some lost packets.

**UDP Unicast:** Will stream to a single computer.

**UDP Multicast** Will stream to multiple computers using multicast.

**TCP:** Provides higher quality video streaming than UDP does. It provides error correction and guarantees packet to be delivered to client. However, transmission speed will be reduced.

**HTTP Protocol:** Offers the highest image and video quality. However, packet losses will diminish image quality when bandwidth becomes restricted. If the network is protected by a firewall and it opens HTTP port (80) only, HTTP protocol must be selected. In this mode, audio is disabled and only video can be viewed. UDP connections will not be available to remote users if all four ports have not been forwarded (as shown on page 32). Only the HTTP port must be forwarded for remote users to make an HTTP connection (video only).

**Record Options:** Allows the user to specify a destination folder and prefix filename for the recorded video.

Product Page: DCS-5610 Firmware Version: 1.00

**D-Link**

DCS-5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Camera  
Snapshot  
Client Setup  
Logout

**CONNECTION TYPE**  
Here you can configure the audio and video settings as well as the type of connection your camera uses when viewing it on a network.  
Save Settings Don't Save Settings

**STREAM OPTIONS**  
 Stream1  
 Stream2

**MEDIA OPTIONS**  
 Video and Audio  
 Video Only  
 Audio Only

**PROTOCOL OPTIONS**  
 UDP unicast  
 UDP multicast  
 TCP  
 HTTP

**RECORD OPTIONS**  
Folder:  Browse...  
File Name Prefix:  CLIP  
 Add date and time suffix to file name  
Save Settings Don't Save Settings

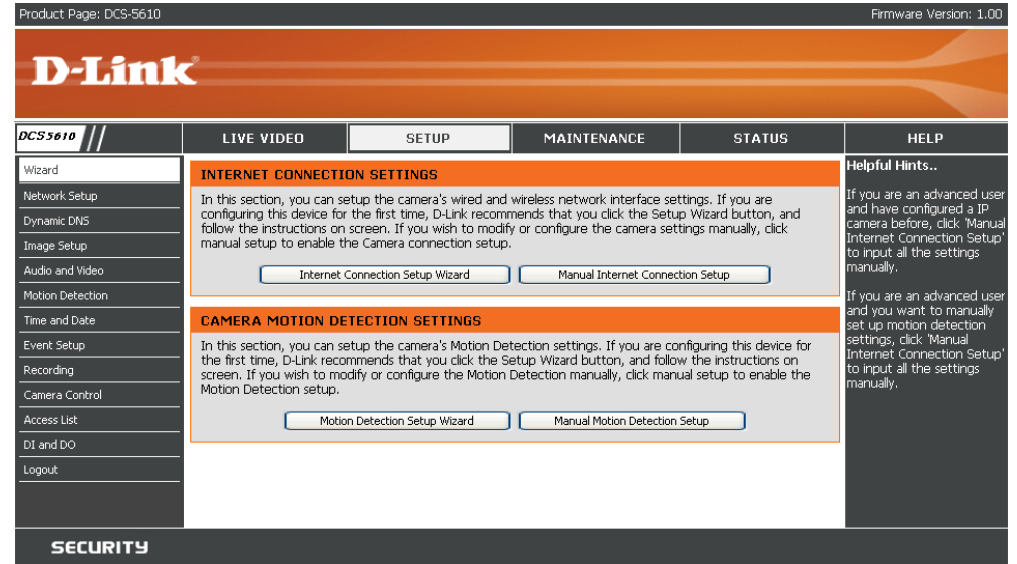
**Helpful Hints..**  
**Stream Options** - This camera can send 2 streams simultaneously, it can have different configuration for each stream, you can find stream setup at the Setup/Video and Audio setup page.  
**Media Options** -  
• Video and Audio: Stream Video and Audio data at the same time with synchronization.  
• Video only: Stream video data only.  
• Audio only: Stream Audio data only.  
**Protocol Options** -  
• UDP Protocol: This allows quality real-time performance for audio and video. Some packets may be lost due to network burst traffic and images may be obscured.  
• TCP Protocol: Packet loss is less likely to occur and video displays are more accurate.

**SECURITY**

# Setup Wizard

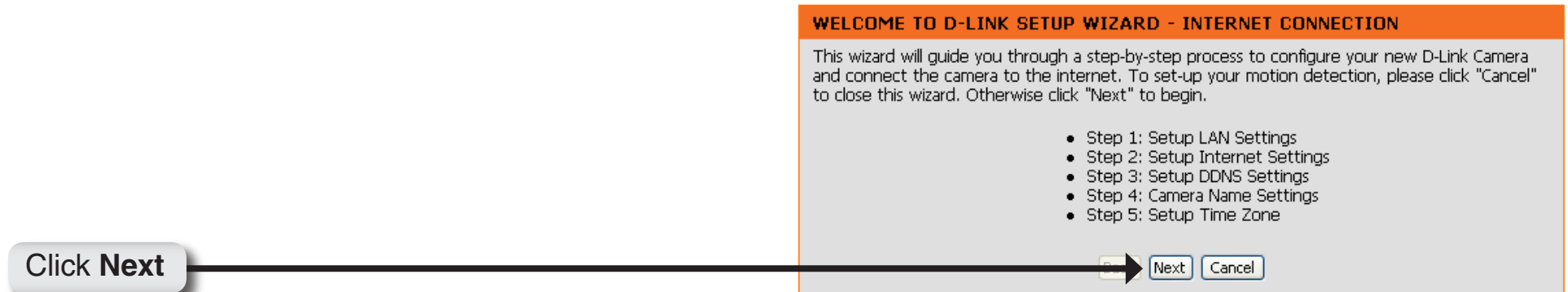
To quickly configure your internet camera, click **Internet Connection Setup Wizard** or click **Manual Internet Connection Setup** to manually configure your internet camera.

To quickly configure your internet camera's motion detection settings, click **Motion Detection Setup Wizard** and skip to page 29. If you want to enter your settings without running the wizard, click **Manual Motion Detection Setup** and skip to page 39.



## Internet Connection Setup Wizard

This wizard will guide you through a step-by-step process to configure your new D-Link Camera and connect the camera to the internet. Click **Next** to continue.





Select **DHCP** if you are unsure which settings to pick. Click **Next** to continue and skip to page 27.

**STEP 1: SETUP LAN SETTINGS**

Please select whether your camera will connect to the Internet with a DHCP connection or Static IP address. If your camera is connected to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of DHCP connection. Otherwise, click on Static IP address to manually assign and IP address before clicking on the Next button.

DHCP  
 PPPoE  
 Static IP Client

IP address   
Subnet mask   
Default Gateway   
Primary DNS   
Secondary DNS

Click Next



Select **PPPoE** if the camera is directly connected to the Internet through a DSL modem, and the ISP (Internet Service Provider) requires you to use PPPoE for the Internet connection. Click **Next** to continue and skip to Step 2 on page 26.

**STEP 1: SETUP LAN SETTINGS**

Please select whether your camera will connect to the Internet with a DHCP connection or Static IP address. If your camera is connected to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of DHCP connection. Otherwise, click on Static IP address to manually assign and IP address before clicking on the Next button.

DHCP  
 PPPoE  
 Static IP Client

IP address   
Subnet mask   
Default Gateway   
Primary DNS   
Secondary DNS

Click Next



Select **Static IP** if your Internet Service Provider has provided you with connection settings, or you wish to set a static address within your home network. Click **Next** to continue.

**STEP 1: SETUP LAN SETTINGS**

Please select whether your camera will connect to the Internet with a DHCP connection or Static IP address. If your camera is connected to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of DHCP connection. Otherwise, click on Static IP address to manually assign and IP address before clicking on the Next button.

DHCP  
 PPPoE  
 Static IP Client

IP address	<input type="text" value="192.168.0.100"/>
Subnet mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.0.1"/>
Primary DNS	<input type="text" value="192.168.0.1"/>
Secondary DNS	<input type="text"/>

Click Next



If you have selected PPPoE, enter your username and password. Click **Next** to continue.

**STEP 2: SETUP INTERNET SETTINGS**

Please enter your ISP Username and Password. This will be the case if your ISP uses PPPoE. Contact your ISP if you are unsure.

User name	<input type="text"/>
Password	<input type="text"/>
Confirm password	<input type="text"/>

Click Next



If you have a Dynamic DNS account and would like the camera to update your IP address automatically, enable DDNS and enter your host information. Click **Next** to continue.

**STEP 3: SETUP DDNS SETTINGS**

If you have a Dynamic DNS account and would like the camera to update your IP address automatically, enable DDNS and enter in your host information below. Please click on the Next button to continue.

Enable DDNS

Server name

Host name

User name

Password

Confirm password

Click **Next**



Enter a name for your camera and click **Next** to continue.

**STEP 4: SERVER NAME SETTINGS**

D-Link recommends that you rename your camera for easy accessibility. You can then identify and connect your camera via this name. Please click on Next button.

Camera Name

Click **Next**



Configure the correct time to ensure that all events will be triggered, captured and scheduled at the right time. Click **Next** to continue.

**STEP 5: SETUP TIME ZONE**

Please configure the correct time to ensure that all events triggered, captured and scheduled at the correct time and day and then click on the Next button.

Current Time 07 Jan 2008 01:35:53

Time Zone

Enable Daylight Saving

Daylight Saving Dates

	Month	Week	Day of Week	Time
DST Start	<input type="text" value="Oct"/>	<input type="text" value="2nd"/>	<input type="text" value="Sun"/>	<input type="text" value="1 am"/>
DST End	<input type="text" value="Mar"/>	<input type="text" value="1st"/>	<input type="text" value="Sat"/>	<input type="text" value="1 am"/>

Click **Next**



If you have selected **DHCP**, you will see a summary of your camera's settings. Please note down all this information as you will need it for accessing your camera within the network. Click **Apply** to save your settings.

**STEP 6: SETUP COMPLETE**

Below you should see a summary of your camera settings. Click back to review or modify settings. Click Restart to apply the settings below. Please note these settings as you will require this information when accessing your camera on the network or via your web browser.

IP address:	DHCP
Camera Name:	DC55610
Time Zone:	-8
DDNS:	OFF
PPPoE:	OFF

Click **Apply**

If you have selected **PPPoE**, you will see a summary of your camera's settings. Please note down all this information as you will need it for accessing your camera within the network. Click **Apply** to save your settings.

**STEP 6: SETUP COMPLETE**

Below you should see a summary of your camera settings. Click back to review or modify settings. Click Restart to apply the settings below. Please note these settings as you will require this information when accessing your camera on the network or via your web browser.

IP address:	PPPoE
Camera Name:	DC55610
Time Zone:	-8
DDNS:	OFF
PPPoE:	ON

Click **Apply**

If you selected **Static IP**, you will see a summary of your camera's settings. Please note down all this information as you will need it for accessing your camera within the network. Click **Apply** to save your settings.

**STEP 6: SETUP COMPLETE**

Below you should see a summary of your camera settings. Click back to review or modify settings. Click Restart to apply the settings below. Please note these settings as you will require this information when accessing your camera on the network or via your web browser.

IP address:	192.168.0.100
Camera Name:	DC55610
Time Zone:	-8
DDNS:	OFF
PPPoE:	OFF

Click **Apply**

## Motion Detection Setup Wizard

This wizard will guide you through a step-by-step process to configure your new D-Link Camera motion detection functions. Click **Next** to continue.

### WELCOME TO D-LINK SETUP WIZARD - MOTION DETECTION

This wizard will guide you through a step-by-step process to configure your camera's motion detection functions. To setup the internet connection settings, please click "Cancel" to close this wizard. Otherwise click "Next" to begin.

- Step 1: Specify motion detection Area Settings
- Step 2: Motion Detection Schedule
- Step 3: Alerts and Notifications

Click **Next**

Next Cancel

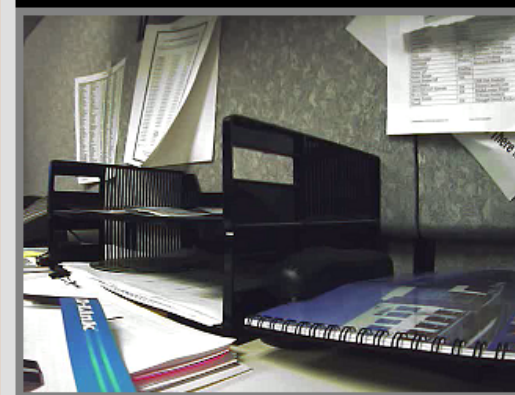
This section will allow you to enable or disable motion detection as well as control the sensitivity or your camera's ability to detect movement. Specify the window area, window name and sensitivity of detection as well as the type of recording (either snapshot or video clip). Then, click **Next** to continue.

### STEP 1: SPECIFY MOTION DETECTION AREA SETTINGS

This section will allow you to enable or disable motion detection as well as control the sensitivity of your camera's ability to detect movement. Please specify the window area, window name and sensitivity of detection before clicking on the Next button.

Enable motion detection  Snapshot  Video Clip

DCS5610(TCP-AV) 2008/01/07 01:57:28



Window Name:

Sensitivity:

 0%

Percentage:

 0%


New

Save

Back Next Cancel

Click **Next**

This section will allow you to specify the time and date your camera records motion.

**Note:** Recording camera footage will take up space on your hard drive. It is recommended that you have sufficient disk space for **Always** function.

Click **Next**

**STEP 2: MOTION DETECTION SCHEDULE**

This section allows you to specify the time and dates that your camera records motion. Please note that recorded camera footage will take up space on your hard drive. It is therefore recommended that you have sufficient disk space for 'Always' function.

Sun
  Mon
  Tue
  Wed
  Thu
  Fri
  Sat

**Time**
 Always
  From   to

This step allows you to specify how you will receive the events notification of your camera, either via using email or FTP. You will need to enter all the relevant information for your email account or FTP settings. Then, click **Next** to continue.

Click **Next**

**STEP 3: ALERTS AND NOTIFICATION**

This final step allows you to specify how you receive notification of camera events. Choose between an email notification or alternatively you can setup an FTP Notification. You will need your email account settings or FTP details. If you are unsure of this information, please contact your ISP. Once you have entered this information, please click on the Next button.

Do not notify me
  Notify me by E-mail

User name   
 Password   
 SMTP(mail) Server   
 Return E-mail Address   
 Recipient email address

Notify me by FTP

User name   
 Password   
 Server address   
 Remote folder name   
 Server port   
 Passive mode

You have completed the Motion Detection Wizard. Click **Apply** to save your settings.

**STEP 4: SETUP COMPLETE**

You have completed your camera setup. Please click the Back button if you want to review or modify your settings or click on the Apply button to save and apply your settings.

Motion Detection:	Disable
Event:	Take Snapshot
Schedule Day:	Sun, Mon, Tue, Wed, Thu, Fri, Sat
Schedule Time:	Always
Alerts and Notification:	Do not notify me

Click **Apply**



# Network Setup

**LAN Settings:** Settings for your local area network.

**DHCP:** Select this connection if you have a DHCP server running on your network and would like a dynamic IP address to be updated to your camera automatically.

**Static IP Client:** You may obtain a static or fixed IP address and other network information from your network administrator for your camera. A static IP address will ease you for accessing your camera in the future.

**IP Address:** The fixed IP address.

**Subnet Mask:** The default value is “255.255.255.0.” Used to determine if the destination is in the same subnet.

**Default Gateway:** The gateway used to forward frames to destinations in a different subnet. Invalid gateway settings may cause the failure of transmissions to a different subnet.

**Primary DNS:** Primary domain name server that translates names to IP addresses.

**Secondary DNS:** Secondary domain name server to backup the primary one.

**Enable UPnP Presentation:** Allows a user to find, view and control this camera via a presentation page or “Network Neighborhood” without configuration.

**Enable UPnP Port Forwarding:** Enables the camera to add the port forwarding entry into the router automatically when this option is enabled.

**PPPoE Settings:** Enable this setting if your ISP (DSL service) is using PPPoE. You may already have both **Username** and **Password** given by your ISP, or you may check with your ISP. The **Connect Status** will be determined automatically by the system.

Product Page: DCS-5610 Firmware Version: 1.00

**D-Link**

DCS5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

**NETWORK SETUP**  
You can configure your LAN and Internet settings from here.  
Save Settings Don't Save Settings

**LAN SETTINGS**  
 DHCP  
 Static IP Client  
 IP address: 192.168.0.100  
 Subnet mask: 255.255.255.0  
 Default Gateway: 192.168.0.1  
 Primary DNS: 192.168.0.1  
 Secondary DNS:  
 Enable UPnP presentation  
 Enable UPnP port forwarding

**PPPoE SETTINGS**  
 Enable  Disable  
 User name:  
 Password:  
 Confirm password:  
 Connect Status: none

**HTTP**  
 Authentication: basic  
 HTTP port: 80  
 Secondary HTTP port: 8080  
 Access name for stream1: video.mjpg  
 Access name for stream2: video2.mjpg

**FTP**  
 FTP port: 21

**RTSP STREAMING**  
 Authentication: disable  
 Access name for stream1: live.sdp  
 Access name for stream2: live2.sdp  
 RTSP port: 554  
 RTP port for video: 5556  
 RTCP port for video: 5557  
 RTP port for audio: 5558  
 RTCP port for audio: 5559  
 Enable multicast for stream 1  
 Multicast group address: 239.128.1.99  
 Multicast video port: 5560  
 Multicast RTP video port: 5561  
 Multicast audio port: 5562  
 Multicast RTP audio port: 5563  
 Multicast TTL[1~255]: 15  
 Enable multicast for stream 2  
 Multicast group address: 239.128.1.100  
 Multicast video port: 5564  
 Multicast RTP video port: 5565  
 Multicast audio port: 5566  
 Multicast RTP audio port: 5567  
 Multicast TTL[1~255]: 15  
 Save Settings Don't Save Settings

**Helpful Hints...**  
 Select "DHCP Connection" if you are running a DHCP server on your network and would like an IP address assigned by your IP camera.  
 Port Detail Settings allow you to specify the ports that you reserve for HTTP and RTSP Streaming.  
 HTTP Port is the port you allocate in order to connect to the IP camera via a standard web browser.  
 RTSP Port is the port you allocate in order to connect to streaming mobile devices such as mobile phone or PDA.  
 RTSP streaming Authentication: if enable authentication, you will need below "access name" for RTSP connection. For example, if authentication is disable, you can connect like RTSP://camera IP; if authentication is enable, you need connect camera RTSP stream like: RTSP://camera IP/live.sdp. (live.sdp is default access name, you can revise at below options.)

**SECURITY**



**HTTP:** You may configure two HTTP ports for your camera. HTTP ports allow you to connect to the camera via a standard web browser. These ports can be set to a number other than the default TCP ports 80 and 8080. A corresponding port must be opened on the router. For example, if the port is changed to 1010, users must type in the web browser “http://192.168.0.100:1010” instead of “http://192.168.0.100”.

**Authentication:** Choose either **Basic** where the password is not encrypted, or **Digest** where the password is encrypted during the transmission to the web server.

**HTTP Port:** The default value is 80.

**Secondary HTTP** The default value is 8080.

**Port:** After you have enabled the **Authentication**, you will need to configure and use the access name to access your video file. For example, **http://camera ip/video.mjpg** (video.mjpg is the **Access name**, you can modify it here)

**Access name for stream1:** The default name is video.mjpg.

**Access name for stream2:** The default name is video2.mjpg.

**FTP Port:** Default port is 21. If you want to change the port number, you will need to specify the port when connecting to the FTP server. For example **FTP://68.5.1.81:60** (if you use port 60 for your FTP server)

**RTSP Streaming:** This setting enables you to connect to a camera by using streaming mobile device(s), such as a mobile phone or PDA.

**Authentication:** Choose either **Basic** where the password is not encrypted, or **Digest** where the password is encrypted during the transmission to the web server. After you have enabled the **Authentication**, you will need to configure and use the access name to access your video file. **RTSP://camera ip/live.sdp** (live.sdp is the default access name, you can modify it here)

**Access name for stream1:** The default name is live.sdp.

**Access name for stream2:** The default name is live2.sdp.

**RTSP port:** The port number that you use for RSTP streaming, the default port number is 554. **RTP** (Real Time Protocol) **Port** is used to streaming audio and video while **RTCP** (Real Time Control Protocol) port is used to monitor QoS of RTP stream.

**Note:** *RTP video port and RTP audio port must be an “even” number. The numbers of RTCP video port and RTCP audio port must equal to the numbers of RTP video port and RTP audio port, plus one repetitively*

**RTP port for video:** Default port number is 5556.

**RTCP port for video:** Default port number is 5557.

**RTP port for audio:** Default port number is 5558.

**RTCP port for audio:** Default port number is 5559.

You may choose to enable multicast for your camera audio and video streaming so that your **cameras (sources)** and the **receivers (clients)** can establish the connection to send and receive contents.

**Multicast group address:** An IP Multicast group address is used to send and receive content. Sources use this group address as the destination address while sending their data packets. Receivers use this group address to inform the network that they are interested in receiving packets sent to that group.

For example, if some content is associated with group 239.1.1.1, the source will send data packets destined to 239.1.1.1. Receivers for that content will inform the network that they are interested in receiving data packets sent to the group 239.1.1.1. The receiver “joins” 239.1.1.1. The Multicast address ranges from 224.0.0.0 to 239.255.255.255, or, equivalently, 224.0.0.0/4

**Multicast video port:** Default port number is 5560, or please choose between 1024 and 65534.

**Multicast RTCP video port:** Default port number is 5561, or please choose between 1024 and 65534.

**Multicast audio port:** Default port number is 5562, or please choose between 1024 and 65534.

**Multicast RTCP audio port:** Default port number is 5563, or please choose between 1024 and 65534.

**Multicast TTL {1~255}:** Set a Time to Live(TTL) value for multicast packet, please choose between 1 and 255.

# Dynamic DNS

DDNS (Dynamic Domain Name Server) will hold a DNS host name and synchronize the public IP address of the modem when it has been modified. The username and password are required when using the DDNS service.

**Enable DDNS:** Click to enable the DDNS function.

**Server Name:** Select your Dynamic DNS provider from the pull down menu.

**Host Name:** Enter the host name of the DDNS server.

**Username:** Enter your username or e-mail used to connect to the DDNS

**Password:** Enter your password used to connect to the DDNS server.

**Status:** Indicate the connection status, automatically determined by the system.

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**D-Link**

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Camera Control  
Access List  
DI and DO  
Logout

**DDNS**

The Dynamic DNS feature allows you to host a server (Web, FTP, Game Server, etc...) using a domain name that you have purchased ( <http://www.whateveryournameis.com>) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter your host name to connect to your game server no matter what your IP address is.

Sign up for D-Link's Free DDNS service at [www.DLinkDDNS.com](http://www.DLinkDDNS.com).

Save Settings Don't Save Settings

**DDNS SETTING**

Enable DDNS

Server name [www.dlinkddns.com\(Free\)](http://www.dlinkddns.com(Free))

Host name

User name

Password

Confirm password

Status none

Save Settings Don't Save Settings

**Helpful Hints..**

Dynamic DNS is useful if you have a DSL or Cable service provider that changes your modem IP address periodically. This will allow you to assign a website domain name to your camera instead of connecting through an IP address.

**SECURITY**

# Image Setup

You may configure the color, brightness, and orientation settings of the video image. Preview of the image will be shown in the window of Live Video. Click **Save Settings** to save your changes.

**Color:** Select either for **Color** or **B/W (black and white, monochrome)** video display.

**Power line frequency:** You may need to choose 50 or 60 Hz frequency; and nonetheless maintain the system operation at a basic 50 Hz frequency.

**Video orientation:** Two options. **Flip** will vertically rotate the video while **Mirror** will horizontally rotate the video. You may check both options if the camera is being installed upside down.

**White balance:** Choose either Auto or Fix white balance.

**Brightness:** It has eleven levels ranged from -5 to +5 for you to choose.

The screenshot displays the D-Link DCS-5610 web interface. At the top, it shows 'Product Page: DCS-5610' and 'Firmware Version: 1.00'. The main navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' menu is expanded to show 'IMAGE SETUP' in orange. Below this, a note states: 'Note: If parameters are changed without saving, they will be effective until the next system power up.' There are 'Save Settings' and 'Don't Save Settings' buttons. The 'LIVE VIDEO' section shows a camera feed of a desk with a telephone and a computer monitor, with a timestamp of '2008/01/14 21:31:18'. Below the feed is the 'IMAGE SETTINGS' section with the following options:

- Color: Color (dropdown)
- Power line frequency: 60 Hz (dropdown)
- Video orientation:  Flip,  Mirror
- White balance: Auto (dropdown)
- Brightness: +0 (dropdown)

At the bottom of the settings section are 'Save Settings' and 'Don't Save Settings' buttons. On the right side, there is a 'Helpful Hints..' section with the following text:

- Brightness field has eleven levels ranged from -5 to +5.
- Flip image - This will flip the image vertically.
- Mirror - This will flip the image horizontally in such a way that your left side will be on the left side of the screen and vice versa.

The bottom of the interface features a 'SECURITY' banner.

## Audio and Video

Two different settings for two video streams (stream 1 and stream 2) can be configured here. You may configure one setting for computer display and the other one for mobile display.

**Mode:** It can be either JPEG or MPEG4. In JPEG mode, the video frames are independent. However, MPEG4 consumes much less network bandwidth than JPEG.

**Frame Size:** Frame Size: Three options exist for the sizes of the video display. You can select between **176x144**, **352x240**, or **640x480**. It is recommended using 176x144 for mobile viewing and 640x480 for computer viewing.

**Maximum frame rate:** 1 is the minimum value while 30 is the maximum value. It is recommended choosing 30 for computer viewing and 5 for mobile viewing.

**Video quality:** This limits the maximal refresh frame rate, which can be combined with the “**Fixed quality**” to optimize the bandwidth utilization and video quality. If the User wants to fix the bandwidth utilization regardless of the video quality, choose “**Constant bit rate**” and select the desired bandwidth.

**Mute:** Select this if you want to switch off the sound.

**Internal microphone input gain:** Select from the list to set internal microphone input gain. It is necessary to find the optimum gain that transmits the best audio to whoever is listening.

**Note:** dB stands for decibels, unit of audio measurement. More decibels as a positive value indicates that the sound is louder, while more decibels as a negative value indicates that the sound is quieter.

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**D-Link**

DCS5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

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**AUDIO AND VIDEO**  
This section allows you to configure the sound and video of your camera. You can configure different settings depending on whether you are viewing content from a PC or a Mobile Phone / PDA.  
Save Settings Don't Save Settings

**VIDEO QUALITY SETTINGS FOR STREAM1**

Mode: MPEG-4  
Frame size: 640x480  
Maximum frame rate: 30 fps  
Video quality:  
 Constant bit rate: 512 Kbps  
 Fixed quality: Good

**VIDEO QUALITY SETTINGS FOR STREAM2**

Mode: MPEG-4  
Frame size: 176x144  
Maximum frame rate: 5 fps  
Video quality:  
 Constant bit rate: 40 Kbps  
 Fixed quality: Good

**AUDIO SETTINGS**

Mute  
Internal microphone input gain: -10.5 dB  
External microphone input:  0db  20db  
Audio type:  AAC  GSM-AMR  
AAC bit rate: 128 Kbps  
GSM-AMR bit rate: 12.2 Kbps  
Save Settings Don't Save Settings

Helpful Hints..  
Higher frame size, frame rate and bit rate gives better video quality. At the same time, it requires more network bandwidth.  
For best viewing results on a mobile phone, we suggest setting the Frame Rate to 5fps and the Bit Rate to 20 kbps.  
Higher audio bit rate gives better sound quality. At the same time, it requires more network bandwidth.

**SECURITY**

**External microphone input:** Select from the list to set external microphone input gain.

**Audio type:** AAC (Advanced Audio Coding): A wide band audio coding algorithm that exploits two primary coding strategies to dramatically reduce the amount of data needed to convey high-quality digital audio. Select a higher bit rate number for better audio quality.

**GSM-AMR:** A standard adapted audio codec by the 3GPP video (3rd Generation Partnership Project). It is an Adaptive Multi Rate-Narrow Band (AMR-NB) speech codec. Select a higher bit rate number for better audio quality.

**AAC bit rate:** Please select from the list, higher bit rate means higher audio quality but it takes more network bandwidth to transmit.

**GSM-AMR bit rate:** Please select from the list, higher bit rate means higher audio quality but it takes more network bandwidth to transmit.

# Motion Detection

Enabling Motion Detection will allow up to three windows that can be created with different settings for monitoring. This allows your camera to serve as a security device that will record when motion is detected.

**Enable motion detection:** Check this option to turn on the motion detection.

**Window name:** Create your own name for the monitored area/window. It will show at the top of the motion window.

**Sensitivity:** Set the measurable difference between two sequential images that would indicate motion.

**Percentage:** Set the amount of motion in the window being monitored that is required to initiate a motion detected alert. If this is set to 100%, this means that motion is detected within the whole window to trigger a snapshot.

**Note:** Setting a higher sensitivity and a lower percentage will make any motion more easily.

**New:** Click to add a new window. A maximum of three motion windows can be opened simultaneously. Use your mouse to drag the window frame to re-size or the title bar to move. Clicking on the 'x' at the upper right corner of the window will close the window.

**Save:** Save the related settings of that window.

The screenshot shows the D-Link DCS-5610 web interface. At the top, it displays 'Product Page: DCS-5610' and 'Firmware Version: 1.00'. The main navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' menu is expanded to show 'MOTION DETECTION'. Below this, there is a 'MOTION SETTINGS' section with a checkbox for 'Enable motion detection'. A video preview window shows a room with a desk and a chair. To the right of the preview are fields for 'Window Name', 'Sensitivity' (0%), and 'Percentage' (0%), each with a slider. At the bottom of the settings are 'New' and 'Save' buttons. A sidebar on the right contains 'Helpful Hints..' with text explaining 'Sensitivity' and 'Percentage' settings.

# Time and Date

From this section, you may automatically or manually configure, update and maintain the internal system clock for your camera.

**Current Server Time:** Will be determined by the system.

**Time Zone:** Select your time zone from the drop-down menu.

**Enable Daylight Saving:** Select this to enable the daylight saving time.

**Daylight Saving Dates:** You may configure the daylight saving date and time.

**Automatic Time Configuration:** Enable this feature to obtain time configuration automatically from NTP server.

**NTP Server:** Network Time Protocol (NTP) synchronizes the DCS-5610 with an Internet time server. Choose the one that is closest to your location.

**Update Interval:** The time interval for updating the time information from NTP server.

**Set the date and time manually:** This option allows you to set the time and date manually.

**Copy Your Computer's Time Settings:** This will synchronize the time information from your PC.

Product Page: DCS-5610 Firmware Version: 1.00

**D-Link**

DCS5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

**TIME AND DATE**

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight Saving can also be configured to automatically adjust the time when needed.

Save Settings Don't Save Settings

**TIME CONFIGURATION**

Current Server Time: 14 Jan 2008 21:33:29

Time Zone: GMT-08:00 Las Vegas, San Francisco, Vancouver

Enable Daylight Saving:

Daylight Saving Dates:

DST Start	Month	Week	Day of Week	Time
DST Start	Oct	2nd	Sun	1 am
DST End	Mar	1st	Sat	1 am

**AUTOMATIC TIME CONFIGURATION**

Enable  Disable

NTP server: << Select NTP Server

Update interval: One hour

**SET THE DATE AND TIME MANUALLY**

Year	2008	Month	01	Day	14
Hour	21	minute	33	Second	29

Copy Your Computer's Time Settings

Save Settings Don't Save Settings

**SECURITY**

**Helpful Hints..**

Good timekeeping is important for accurate logs and scheduled firewall rules.



# Event Setup

There are three sections in Event Setup page. They are **Event**, **Server** and **Media**. Click **Add** to pop up a window to add a new item of event, server or media. Click **Delete** to delete the selected item from the pull-down menu of event, server or media. Click on the item name to pop up a window for modifying. You can add up to three events, five servers and five medias.

Product Page: DCS-5610 Firmware Version: 1.00

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**D-Link**

DCS5610 //	LIVE VIDEO	SETUP	MAINTENANCE	STATUS	HELP																																																
Wizard Network Setup Dynamic DNS Image Setup Audio and Video Motion Detection Time and Date <b>Event Setup</b> Recording Camera Control Access List DI and DO Logout	<div style="background-color: #f4a460; padding: 5px;"><b>EVENT SETUP</b></div> <p>There are three sections in Event Setup page. They are event, server and media. Click Add to pop a window to add a new item of event, server or media. Click Delete to delete the selected item from event, server or media. Click on the item name to pop a window to edit it. There can be at most three events. There can be at most five server and five media configurations.</p> <div style="background-color: #f4a460; padding: 5px;"><b>SERVER</b></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Address/Location</th> </tr> </thead> <tbody> <tr> <td><a href="#">Server1</a></td> <td>email</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: center;"> <input type="button" value="Add"/> <input type="button" value="▼"/> <input type="button" value="Delete"/> </td> </tr> </tbody> </table> <div style="background-color: #f4a460; padding: 5px;"><b>MEDIA</b></div> <p>Media freespace: 4050KB</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td><a href="#">Media1</a></td> <td>snapshot</td> </tr> <tr> <td colspan="2" style="text-align: center;"> <input type="button" value="Add"/> <input type="button" value="▼"/> <input type="button" value="Delete"/> </td> </tr> </tbody> </table> <div style="background-color: #f4a460; padding: 5px;"><b>EVENT</b></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Status</th> <th>Sun</th> <th>Mon</th> <th>Tue</th> <th>Wed</th> <th>Thu</th> <th>Fri</th> <th>Sat</th> <th>Time</th> <th>Trigger</th> </tr> </thead> <tbody> <tr> <td><a href="#">Event1</a></td> <td>OFF</td> <td>V</td> <td>V</td> <td>V</td> <td>V</td> <td>V</td> <td>V</td> <td>V</td> <td>00:00~24:00</td> <td>motion</td> </tr> <tr> <td colspan="11" style="text-align: center;"> <input type="button" value="Add"/> <input type="button" value="Event1"/> <input type="button" value="▼"/> <input type="button" value="Delete"/> </td> </tr> </tbody> </table>				Name	Type	Address/Location	<a href="#">Server1</a>	email		<input type="button" value="Add"/> <input type="button" value="▼"/> <input type="button" value="Delete"/>			Name	Type	<a href="#">Media1</a>	snapshot	<input type="button" value="Add"/> <input type="button" value="▼"/> <input type="button" value="Delete"/>		Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Trigger	<a href="#">Event1</a>	OFF	V	V	V	V	V	V	V	00:00~24:00	motion	<input type="button" value="Add"/> <input type="button" value="Event1"/> <input type="button" value="▼"/> <input type="button" value="Delete"/>											<b>Helpful Hints..</b> Suggest setting server and media first before setting event. The servers and media which selected in event list are not be able to modify or delete. Please remove them first from the event if you want to delete or modify them. Recommend using different media in different event to make use all media be produced and received correctly. If using the same media in different events and the events trigger almost simultaneously, the servers in the second triggered event will not receive any media; there would be only notifications.
Name	Type	Address/Location																																																			
<a href="#">Server1</a>	email																																																				
<input type="button" value="Add"/> <input type="button" value="▼"/> <input type="button" value="Delete"/>																																																					
Name	Type																																																				
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<input type="button" value="Add"/> <input type="button" value="Event1"/> <input type="button" value="▼"/> <input type="button" value="Delete"/>																																																					
<b>SECURITY</b>																																																					

## Add Server

Up to 5 servers, where will store the media with its own settings can be created and configured here.

**Server Name:** Unique name of your server.

**Email:** Select this to enable and apply your email account setting for your camera.

**FTP:** Select this to access a granted folder on the external FTP server.

**HTTP:** Select this to use a web server to store the media.

**Network Storage:** Only one network storage is supported.

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**D-Link**

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**SERVER**  
You can set at most 5 different servers here for different event.  
Test Save Settings Don't Save Settings

**SERVER TYPE**

Server name:

Email  
 Sender email address   
 Recipient email address   
 Server address   
 User name   
 Password

FTP  
 Server address   
 Server port   
 User name   
 Password   
 Remote folder name   
 Passive mode

HTTP  
 URL   
 User name   
 Password

Network storage  
 Network storage location   
 (for example: \\my\_nas\disk\folder)  
 Workgroup   
 User name   
 Password   
 Primary WINS server

Test Save Settings Don't Save Settings

**SECURITY**

**Helpful Hints..**  
**"Server name"** The unique name for server. There are four kinds of servers supported. They are email server, FTP server, HTTP server and network storage.  
**Email server:**  
**"Sender email address"** The email address of the sender.  
**"Recipient email address"** The email address of the recipient.  
**FTP server:**  
**"Remote folder name"** Granted folder on the external FTP server. The string must conform to that of the external FTP server. Some FTP servers cannot accept preceding slash symbol before the path without virtual path mapping. Refer to the instructions for the external FTP server for details. The folder privilege must be open for upload.  
**"Passive Mode"** Check it to enable passive mode in transmission.  
**HTTP server:**  
**"URL"** The URL to upload the media.  
 Only one network storage is supported.  
**"Network storage location"** The path to upload the media.  
**"Workgroup"** The workgroup for network storage.  
 After input the setting of server, user can click on Test to test whether the setting is correct. The testing result will be shown in a pop-up window.

## Add Media

Up to 5 media for recording with its own settings can be created and configured here. There are three types of media, **Snapshot**, **Video Clip** and **System Log**.

**Media Name:** The unique name for media.

**Snapshot:** Select this feature to enable camera to take snapshot.

**Source:** The source of stream, stream1 or stream2.

**Send pre-event image(s) [0~7]:** The number of pre-event images.

**Send post-event image(s) [0~7]:** The number of post-event images.

**File name prefix:** The prefix name will be added on the file name of the snapshot images.

**Add date and time suffix to file name:** Check it to add timing information as file name suffix.

**Video clip:** Select this feature to enable camera to take video clip.

**Source:** The source of stream, stream1 or stream2.

**Pre-event recording:** The interval of pre-event recording in seconds.

**Maximum duration:** The maximal recording file duration in seconds.

**Maximum file size:** The maximal file size would be generated.

**File name prefix:** The prefix name will be added on the file name of the video clip.

**System log:** Select this feature to enable camera to display system log.

Product Page: DCS-5610 Firmware Version: 1.00

**D-Link**

DCS5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

**MEDIA**  
You can set at most 5 different media here for different event.  
[Save Settings] [Don't Save Settings]

**MEDIA TYPE**

Media name:

Snapshot  
Source:   
Send  pre-event image(s) [0~7]  
Send  post-event image(s) [0~7]  
File Name Prefix:   
 Add date and time suffix to file name

Video Clip  
Source:   
Pre-event recording:  seconds [0~9]  
Maximum duration:  seconds [1~10]  
Maximum file size:  kbytes [50~800]  
File Name Prefix:

System log

[Save Settings] [Don't Save Settings]

**Helpful Hints..**  
"Media name" The unique name for media. There are three kinds of media. They are snapshot, video clip and system log.  
**Snapshot:**  
"Source" The source of stream, stream1 or stream2.  
"Send Pre-event images" The number of pre-event images.  
"Send Post-event images" The number of post-event images.  
"File name prefix" The prefix name will be added on the file name of the snapshot images.  
"Add date and time suffix to file name" Check it to add timing information as file name suffix.  
**Video clip:**  
"Source" The source of stream, stream1 or stream2.

**SECURITY**

## Add Event

Up to 3 events with its own settings can be created and configured here. Meanwhile, you can schedule the events here.

**Event name:** Unique name for the event.

**Enable this event:** Select this to activate this event.

**Priority:** Set the priority for this event and the event with higher priority will be executed first.

**Delay:** The delay time before checking next event. It is being used for both events of motion detection and digital input trigger.

**Trigger:** The input type that triggers the event.

**Video motion detection:** Motion is detected during live video monitoring. Select the windows that need to be monitored.

**Periodic:** The event is triggered in specified intervals. The unit of trigger interval is minute.

**Digital input:** External trigger input to the camera.

**System boot:** The event is triggered when the system boot up.

**Time:** Either “Always” or input the time interval.

**Trigger D/O:** Check it to trigger digital output for specific seconds when event is triggered. The default actions are triggering the D/O and storing the media on a CF card.

**Move to preset location:** If there is a server(s), user can select the available server(s) from **Move to preset location**.

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**D-Link**

DCS-5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

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**EVENT**  
You can set at most 3 events like motion detection or digital input trigger here and arrange the detection schedule at the same time.  
Save Settings Don't Save Settings

**EVENT**  
Event name: Event1  
 Enable this event  
Priority: normal  
Delay for 10 seconds before detecting next event [For motion detection and digital input]

**TRIGGER**  
 Video motion detection  
Detect motion in  
Note: Please configure [Motion Detection](#) first  
 Periodic  
Trigger every 1 minutes  
 Digital input  
 System boot

**EVENT SCHEDULE**  
Sun Mon Tue Wed Thu Fri Sat  
Time  
 Always  
 From 00:00 to 24:00

**ACTION**  
 Trigger D/O for 1 seconds  
 Move to preset location: Server1  
 Server1  
Attached media: Media1  
Save Settings Don't Save Settings

**Helpful Hints...**  
"Priority" The event with higher priority will be executed first.  
"Delay second(s) before detecting next event" The delay to check next event. It is used in motion detection and digital input trigger type.  
There are four kinds of trigger supported.  
"Video motion detection" Select the windows which need to be monitored.  
"Periodic" The event is triggered in specified intervals. The unit of trigger interval is minute.  
"System boot" The event is triggered when the system boot up.  
"Sun" ~ "Sat" Select the days of the week to perform the event.  
"Time" show "Always" or input the time interval.  
The default action are triggering D/O and storing media on CF card. If there are servers configured, the user can select them from "Server name", too.  
"Trigger D/O" Check it to trigger digital output for specific seconds when event is triggered.

**SECURITY**

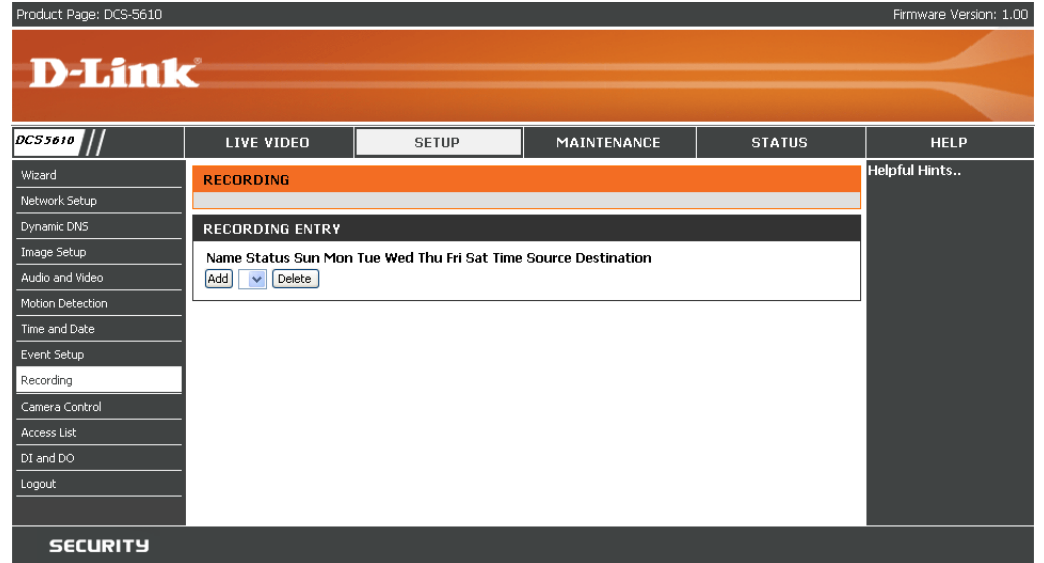
# Recording

Here you can configure and schedule the recording. You may add new entry or delete an existing entry via this page.

**Recording entry:** Available entry(s) is displayed here with its details.

**Add:** Click this button to add new entry.

**Delete:** Delete an existing entry.



## Add Recording

You can add and configure an entry here.

**Recording entry name:** The unique name of the entry.

**Enable this recording:** Select this to enable the recording function.

**Priority:** Set the priority for this entry and the entry with higher priority will be executed first.

**Source:** The source of stream.

**Recording schedule:** Scheduling the recording entry.

**Recording settings:** Configuring the setting for the recording.

**Destination:** Select the folder where will store the recording file.

**Total cycling recording size:** Please input a HDD memory volume between 1MB and 200GB for recording space. The recording data will replace the oldest one when total recording size exceeds this value. For example, if each recording file is 6MB, and the total cycling recording size is 600MB, then camera will recording 100 files to the specified location (folder). And then the camera will delete the oldest file and create new file for cycling recording.

Please notice that if the HDD empty space is not enough, the recording will stop. Before you setup this option please make sure you HDD have enough space and it is better not to save other files in the same folder as recording files.

**Size of each file for recording:** File size for each recording file. You may input the value in the range of 200-6000.

**File Name Prefix:** The prefix name will be added on the file name of the recording file(s).

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**D-Link**

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Helpful Hints..

**RECORDING**

Save Settings Don't Save Settings

**RECORDING**

Recording entry name:

Enable this recording

Priority: normal

Source: Stream1

**RECORDING SCHEDULE**

Sun  Mon  Tue  Wed  Thu  Fri  Sat

Time

Always

From 00:00 to 24:00 [hh:mm]

**RECORDING SETTINGS**

Destination

Total cycling recording size: 500 kbytes

Size of each file for recording: 200 kbytes [200~6000]

File Name Prefix:

Save Settings Don't Save Settings

**SECURITY**

# Camera Control

Here you can preset the locations and change the default location for your home button.

**Up, Down, Left, Right, Home:** “Home” aims the camera to the center, where as the other buttons aim the camera accordingly.

**Zoom (-):** Zoom widely function.

**Zoom (+):** Zoom telescopically function

**Pan Speed:** Select the speed at which the camera will pan for a full cycle from the pull down menu. Select a value between -5 and +5, -5 being the slowest setting.

**Tilt Speed:** Select the speed at which the camera will tilt for a full cycle from the pull down menu. Select a value between -5 and +5, -5 being the slowest setting.

**Zoom Speed:** Select the speed at which the camera will zoom for a full cycle from the pull down menu. Select a value between -5 and +5, -5 being the slowest setting.

**Auto pan/patrol speed:** Select the speed at which the camera will pan during auto patrol. Select a value between 1 and 5, 1 being the slowest setting.

**Dwelling time (sec):** Set the value of time that the camera will remain on each preset position before moving to the next. The dwelling time can be set between 1 and 255 seconds.

**Preset locations:** Desired positions that have been configured.

**Selected locations:** To use the Auto Patrol feature, select the desired preset positions from the **Preset Locations** list and add them to the **Selected Locations** list by clicking Select. You can then select the order in which the camera will patrol through the preset locations by selecting a location and clicking **UP** or **DN**. Click **Remove** to remove a location from the list.

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**D-Link**

DCS5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

**CAMERA CONTROL**

Here you can set preset locations and change the default location of your home button.

Save Settings Don't Save Settings

**CAMERA SETUP**

DCS5610(TCP-AV) 2008/01/14 9:39:18 PM

Up  
Left Home Right  
Down  
Zoom  
Pan speed 0  
Tilt speed 0  
Zoom speed 0  
Auto pan/patrol speed

Dwelling time (sec): 1

Patrol selection

Preset locations	Selected locations

Select Remove Up Down

Current position

Patrol selection Add

Preset Position Delete

Home location Set as home Default home

**Helpful Hints..**

**Home definition** - Allow users to set a new home position or default back to the original.

**Patrol selection** - Allow you to add the preset position into the Selected locations bar. This will determine where the IP camera will travel to and stop at each position when you select Auto Patrol on the Home page.

**SECURITY**

**Current Position:** Enter a name for the position at which you would like to preset the **DCS-5610**. Click **Add** to add the new preset position to the **Preset Locations** list.

**Preset Position:** A pull-down menu that contains all the preset locations. You can delete a preset position by selecting it and clicking **Delete**.

**Home Location:** Allow users to set a new home position or default back to the original.



# Access List

Here you can configure the access permissions for each user.

**Allow list:** The list of IP addresses that have the access right to the camera.

**Start IP address:** The starting IP Address of the devices (such as a computer) that have permission to access the video of the camera.

**End IP address:** The ending IP Address of the devices (such as a computer) that have permission to access the video of the camera.

**Delete allow list:** Remove the customized setting from the Allow List.

**Deny list:** The list of IP addresses that have no access right to the camera.

**Delete deny list:** Remove the customized setting from the Delete List.

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**D-Link**

DCS5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

**ACCESS LIST**  
Here you can set access permissions for users to view your DCS-5610.

**ALLOW LIST**

Start IP address

End IP address

Delete allow list

**DENY LIST**

Start IP address

End IP address

Delete deny list

**Helpful Hints..**

**Allow List:**  
"Start IP Address" The starting IP Address of the devices (such as a computer) that have permission to access the video of the camera.  
"End IP Address" The ending IP Address of the devices (such as a computer) that have permission to access the video of the camera.  
"Delete Allow List" Remove the customized setting from the Allow List.

**SECURITY**

## DI and DO

The I/O connector provides the physical interface for digital output (DO) and digital input (DI) that is used for connecting such external alarm devices as IR-Sensors and alarm relays to the PTZ IP camera.

**DI and DO:** Setting for both Digital input signal and digital output signal can be configured here.

**Digital input trigger condition:** Please select from “**High**” or “**Low**” for digital input trigger condition. When external device connect to the digital input pins, the state of the voltage will be monitored. (Max. Input 500mA, 12Vdc)

**Digital output:** Select **Grounded** or **Open** to define normal status of the digital output. The camera will show whether the trigger is activated or not.

Product Page: DCS-5610 Firmware Version: 1.00

**D-Link**

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**DI AND DO**

The I/O connector provides the physical interface for digital output (DO) and digital input (DI) that is used for connecting a diversity of external alarm devices to the PTZ IP camera such as IR-Sensors and alarm relays.

The digital input is used for connecting external alarm devices and once triggered images will be taken and e-mailed.

Save Settings Don't Save Settings

**DI AND DO**

Digital input trigger condition: Low, current status is normal

Digital output: normal status is Grounded, current status is normal

**Helpful Hints..**

The IP camera provides a general I/O terminal block with one digital input and one relay switch for device control. Pin 1 and pin2 can be connected to an external sensor and the state of voltage will be monitored from the initial state 'LOW'. The relay switch of pin 3 and pin 4 can be used to turn on or off the external device. Please refer to manual for detail connection diagram.

**SECURITY**

# Maintenance

## Device Management

You can modify both camera's name and administrator's password of your camera, as well as add more user accounts for accessing the camera.

**Admin password setup:** Modify a password for the administrator's account.

**Add user account:** Add new user account.

**Username:** The username for the new account.

**Password:** The password for the new account.

**Privilege:** The access right for the new user.

**Manage user:** Managing the accounts for the existing users.

**Authentication:** The access right for the existing users.

**Camera Name:** Create a unique name for your camera and you can access the camera using this name in your web-browser. For example: <http://DCS-5610> (By default).

Product Page: DCS-5610 Firmware Version: 1.00

**D-Link**

DCS5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

**DEVICE MANAGEMENT**

You can change to camera's administrative password as well as adding more user accounts for accessing the camera.

**ADMIN PASSWORD SETUP**

Password:

Retype password:

**ADD USER ACCOUNT**

User name:

Password:

Confirm password:

Privilege:  Administrator  
 Normal User  
 Guest

**MANAGE USER**

User name:

User password:

Authentication:  Administrator  
 Normal User  
 Guest

**MANAGE USER**

Camera Name:

**Helpful Hints..**

For security reasons, it is recommended that you change the Login Name and Password for the Administrator accounts. Be sure to write down the new Login Names and Passwords to avoid having to reset the camera in the event that they are forgotten.

Camera name: You can access this device by using the name in your web-browser. For example: By default you can enter [http://DCS\\_5610](http://DCS_5610).

**SECURITY**

# Backup and Restore

You can turn off the front panel LED, restore factory default settings and reboot the camera.

**Turn off the LED indicator:** Check this option to turn off the LED next to the lens. This will prevent anyone from observing the operation of the IP Camera.

**Restore:** Click the button will reset the camera back to its factory default settings. This will remove all the configuration settings that were made previously.

**Reboot:** Click the button will restart the camera.

Product Page: DCS-5610 Firmware Version: 1.00

DCS5610 //	LIVE VIDEO	SETUP	MAINTENANCE	STATUS	HELP
Device Management	<b>BACKUP AND RESTORE</b>				<b>Helpful Hints..</b> <b>"Turn off the front panel LED"</b> Check this option to turn off the LED next to the lens. This will prevent anyone from observing the operation of the IP Camera.  <b>"Restore to Factory Default"</b> This option will reset the camera back to its factory default settings. This will remove all the configuration settings that were made previously.  <b>"Reboot"</b> This option will restart the camera.
Backup and Restore	You can turn off the front panel LED, restore to factory default and reboot the camera.				
Firmware Update	<b>SYSTEM</b> <input type="checkbox"/> Turn off the LED indicator				
Logout	<b>RESTORE</b> Restore all settings to factory default. <input type="button" value="Default"/>				
<b>REBOOT</b> Reboot the system <input type="button" value="Reboot"/>					
<b>SECURITY</b>					

# Firmware Update

Your current firmware version and date will be displayed on your screen. You may go to the D-Link Support page to check for the latest firmware version available.

To upgrade the firmware on your DCS-5610, please download and save the latest firmware version from the D-Link Support page to your local hard drive. Locate the file on your local hard drive by clicking the **Browse** button. Then, open the file and click the **Upload** button to start the firmware upgrade.

**Current firmware version:** It will be automatically determined and displayed by the system.

**Current firmware date:** It will be automatically determined and displayed by the system.

**File Path:** Locate the file (upgraded firmware) on your hard drive using the browse feature.

**Upload:** Start uploading and upgrading the new firmware to your camera.

The screenshot shows the D-Link DCS-5610 web interface. At the top, it displays 'Product Page: DCS-5610' and 'Firmware Version: 1.00'. The D-Link logo is prominently displayed. Below the logo is a navigation menu with tabs for 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'MAINTENANCE' tab is selected, and the 'Firmware Update' option is highlighted in the left sidebar. The main content area is titled 'FIRMWARE UPDATE' and contains the following text:

A new firmware upgrade may be available for your "DCS-5610". It is recommended to keep your "DCS-5610" firmware up-to-date to maintain and improve the functionality and performance of your internet camera. Click here [D-Link Support Page](#) to check for the latest firmware version available.

To upgrade the firmware on your "DCS-5610", please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the Browse button. Once you have found and opened the file using the browse button, click the "Upload" button to start the firmware upgrade.

Below this text is a section titled 'FIRMWARE INFORMATION' with the following details:

Current Firmware Version:	1.00
Current Firmware Date:	27 Nov 2008

At the bottom of the main content area is a section titled 'FIRMWARE UPGRADE' with a form for 'File Path:' containing a text input field, a 'Browse...' button, and an 'Upload' button.

On the right side of the interface, there is a 'Helpful Hints..' section with the following text:

Firmware updates are released periodically to improve the functionality of your IP camera and also to add new features. If you run into a problem with a specific feature of the IP camera, check our support site by clicking on the [Support Page](#) on our support site link and see if an updated firmware is available for your IP camera.

The bottom of the interface features a 'SECURITY' banner.

# Status

## Device Info

This page displays all the details information about your device and network connection.

The screenshot shows the D-Link DCS-5610 web interface. At the top, it displays 'Product Page: DCS-5610' and 'Firmware Version: 1.00'. The D-Link logo is prominently displayed. Below the logo is a navigation menu with tabs for 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'STATUS' tab is selected, and the 'DEVICE INFO' sub-tab is active. The main content area is divided into three sections: 'DEVICE INFO', 'BASIC INFORMATION', and 'Helpful Hints..'. The 'DEVICE INFO' section contains a summary of network connection details. The 'BASIC INFORMATION' section lists various system parameters. The 'Helpful Hints..' section provides additional context for the network connection details.

BASIC INFORMATION	
Camera Name:	Network Camera
Date and Time:	14 Jan 2008 21:49:23
Firmware Version:	1.00, 27 Nov 2008
IP address:	192.168.0.100
Subnet mask:	255.255.255.0
Default router:	192.168.0.1
Primary DNS:	192.168.0.1
Secondary DNS:	
PPPoE:	OFF
DDNS:	OFF

# Logs

This page displays the log information of your camera. You can configure a remote log server so that you can view your log details remotely.

**Enable remote log:** Enabling this feature so that the camera can send camera log files to a remote server.

**Log server settings:** Configure the setting for the log server.

**IP Address:** The IP address of the remote server.

**Port:** The port number of the remote log server. The default port is 514.

**Save:** Save the setting.

**Current Log:** The system log file that displayed by the system. The content of the file reveals useful information about camera configuration and connectivity status after the camera boots up.

Product Page: DCS-5610 Firmware Version: 1.00

**D-Link**

DCS5610 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Device Info  
Logs  
Logout

**LOG**  
View a summary of device information here.

**REMOTE LOG**  
 Enable remote log  
 Log server settings:  
 IP address:   
 Port:

**CURRENT LOG**  
 Jan 14 21:14:43 syslogd 1.4.1: restart.  
 Jan 14 21:14:46 [DRM Service]: Starting DRM service.  
 Jan 14 21:15:00 [SYS]: Serial number = 001CF0787B54  
 Jan 14 21:15:00 [SYS]: System starts at Mon Jan 14 21:15:00 UTC 2008  
 Jan 14 21:15:00 [NET]: === NET INFO ===

**Helpful Hints..**  
 "Enable remote log" checked can send log message to remote log server.  
 "IP address" remote log server IP.  
 "Port" the default port is 514, if you need specify port, please use port number between 1024 to 65535.  
 Check the log frequently to detect unauthorized network usage.

**SECURITY**

# Help

Product Page: DCS-5610
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D-Link

DCS5610

LIVE VIDEO

SETUP

MAINTENANCE

STATUS

HELP

Menu

Live Video

Setup

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SUPPORT MENU

- Live Video
- Setup
- Maintenance
- Status

LIVE VIDEO

- [Camera](#)
- [Snapshot](#)
- [Client Settings](#)
- Logout

SETUP

- [Wizard](#)
- [Network Setup](#)
- [Dynamic DNS](#)
- [Image Setup](#)
- [Audio and Video](#)
- [Motion Detection](#)
- [Time and Date](#)
- [Schedule](#)
- [Camera Control](#)
- [Access List](#)
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- Logout

MAINTENANCE

- [Device Management](#)
- [Backup and Restore](#)
- [Firmware Update](#)
- Logout

STATUS

- [Device Info](#)
- [Logs](#)
- Logout

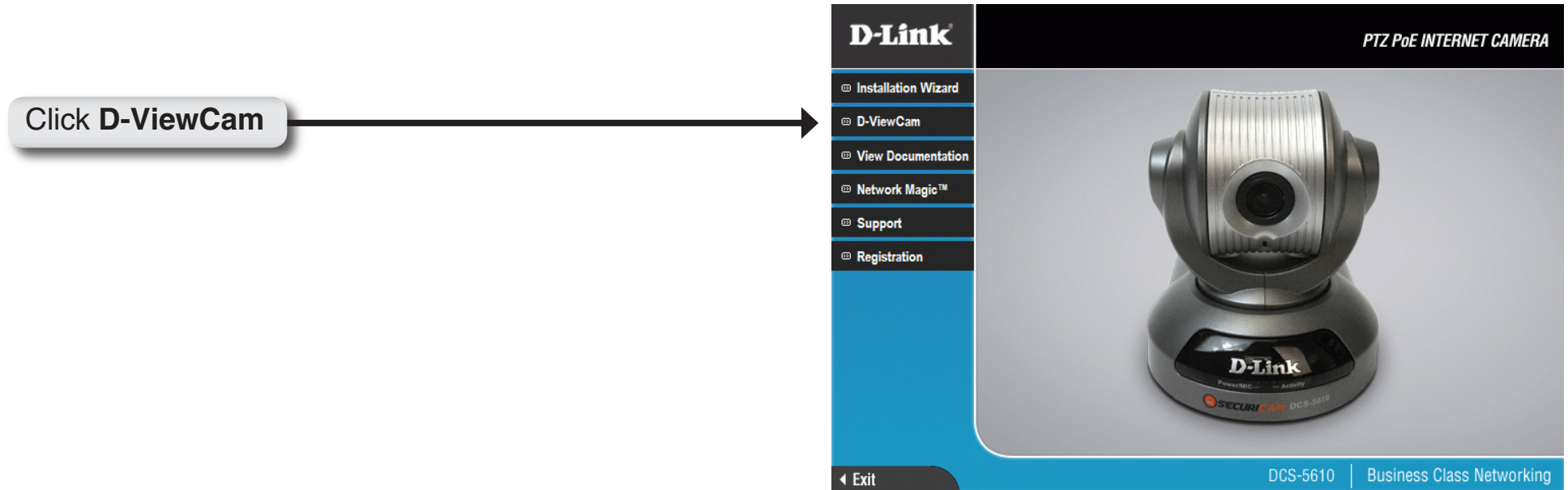
SECURITY



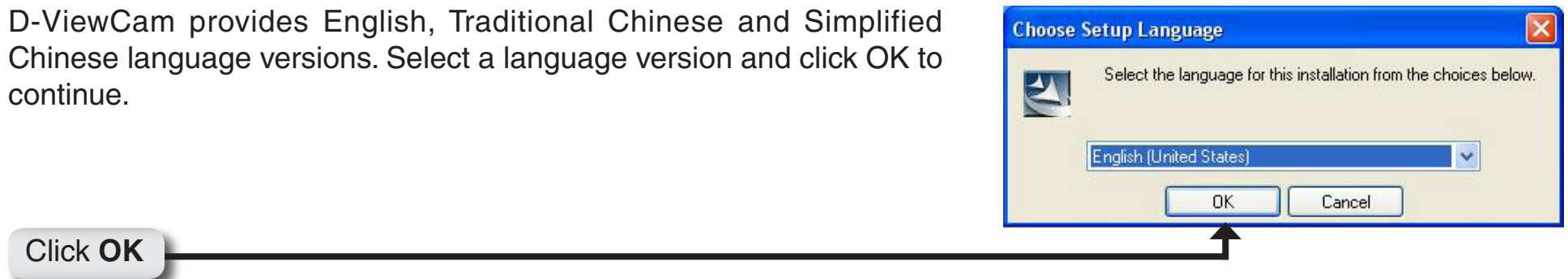
# D-ViewCam Installation

D-ViewCam software is included for the administrator to manage up to 32 D-Link IP cameras remotely. The administrator can use the software to configure the advanced settings for the camera. D-ViewCam is a complete management tool and includes all configurative settings.

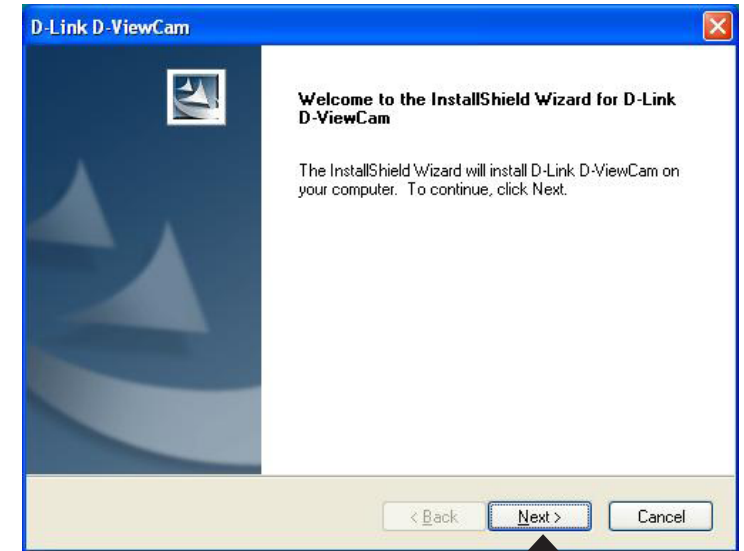
Insert the CD-ROM into the CD-ROM drive. A menu screen will appear as shown below.



D-ViewCam provides English, Traditional Chinese and Simplified Chinese language versions. Select a language version and click OK to continue.

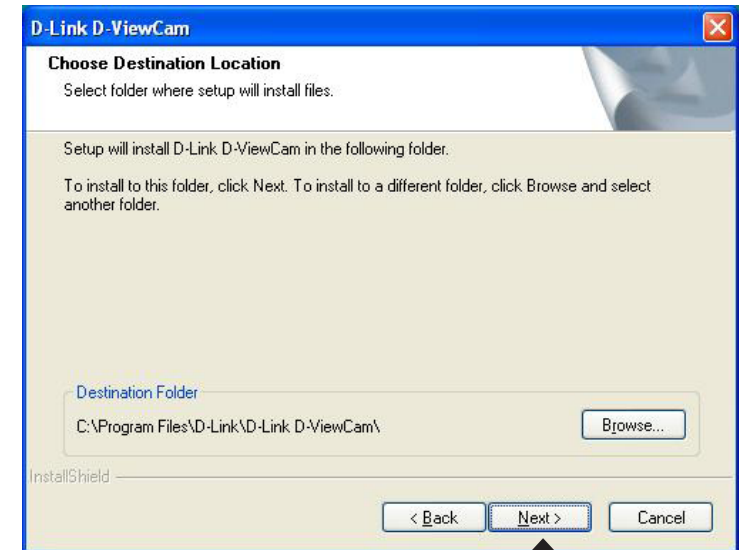


Click **Next** to continue.



Click **Next**

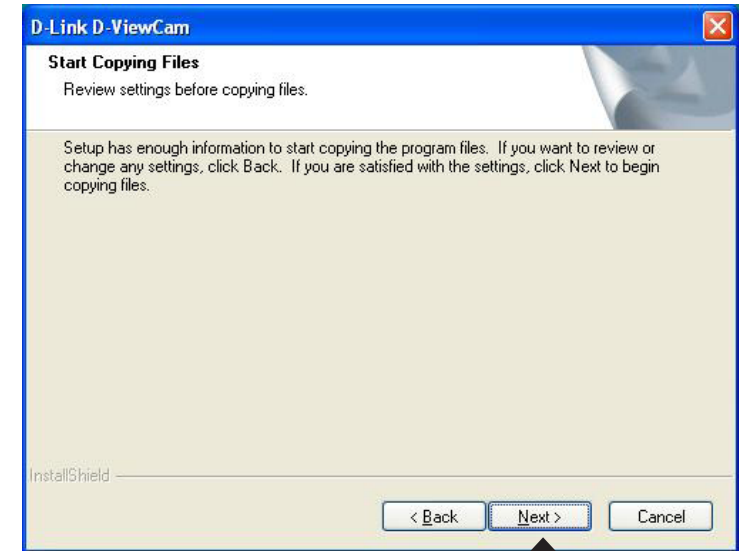
Click **Browse** if you would like to choose a specific folder for the installation, otherwise click **Next** to continue.



Click **Next**

Click **Next** to start the installation.

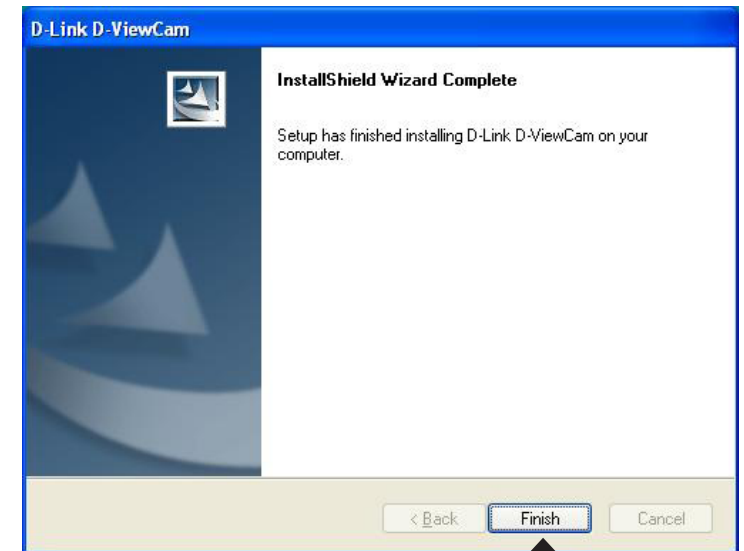
**Note:** The D-ViewCam installation process may take several minutes to complete.



Click **Next**



Click **Finish** to complete the installation.



Click **Finish**



# Add a Camera

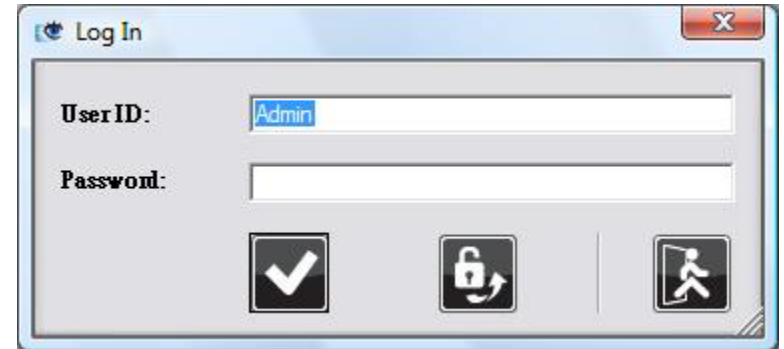
This section will show you how to start and add a camera to the D-ViewCam system.

To start D-ViewCam, select **Start > All Programs > D-Link > D-Link D-ViewCam**.



Enter **admin** as the default username and leave the password blank. Click  / OK to log into the system and access the Add Camera Wizard.

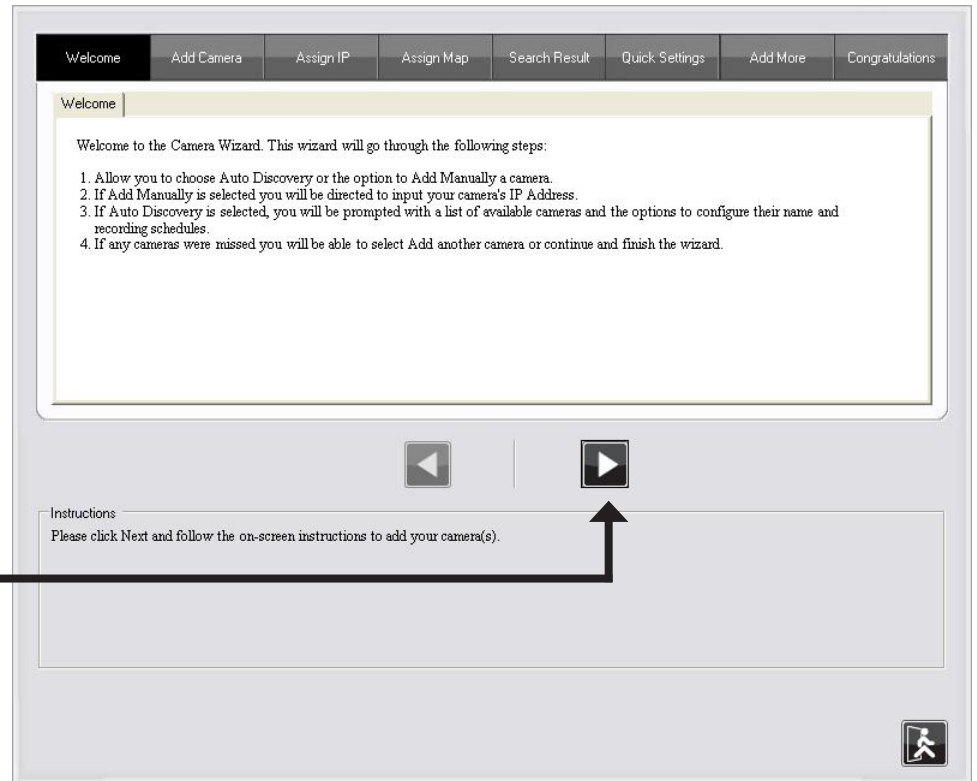
**Note:** Please refer to page 48 in the D-ViewCam user manual to change your password.



Welcome to the Add Camera Wizard. Use this wizard to add your cameras to the D-ViewCam system.

**Note:** Use the left or right arrow to navigate the wizard.

Click  / **Next** to continue.

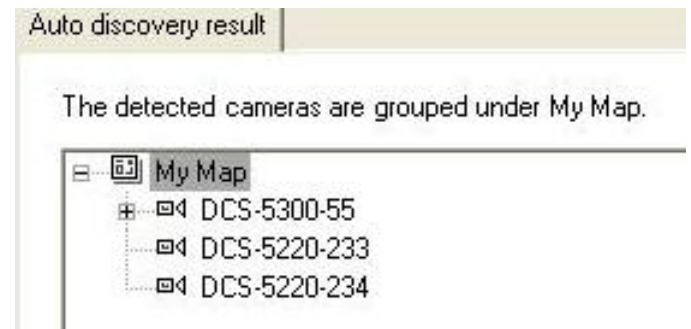
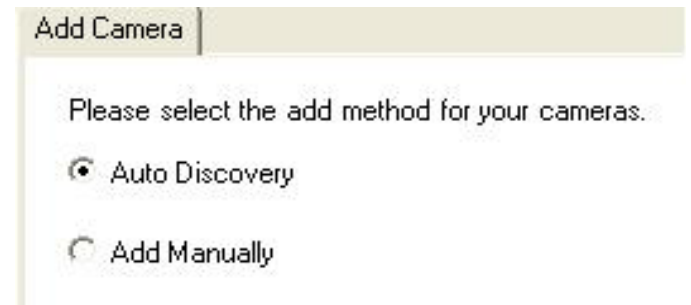


Click **Next**

Choose which method to add your camera(s). You can choose **Auto Discovery** to automatically search for your camera(s), or choose **Add Manually** to add your camera(s) via the camera's IP address. Click **Next** to continue.

If you choose **Auto Discovery**, the system will search all cameras that are located on the same LAN with same subnet. The system will place all the cameras at the default map called My Map. Click **Next** to continue.

If you choose **Add Manually**, you will need to enter the IP address of the camera(s). Click **Next** to continue.



D-ViewCam shows the detected IP camera(s) information. You can choose and schedule the recording for each camera.

- **24/7 Continuous Recording:** Continuously recording 24 hours a day, 7 days a week.
- **24/7 Motion Detection Recording:** Continuously monitoring but ONLY recording when motion is detected.
- **Office Hours Only:** Continuously monitoring during office hours (08:00 AM to 06.00 PM) and ONLY recording when motion is detected.
- **Non-Office Hours Only:** Continuously monitoring during non-office hours (06:00 PM to 08.00 AM) and ONLY recording when motion is detected.

**Note:** Excluding 24/7 Continuous Recording, other schedule recording types can ONLY do recording when motion is detected. Please refer to page 29 for more information.

Click **Next** to continue.

Quick Settings

The discovered cameras information showed as below:

Camera Name	Model	Schedule Recording Type	Status	IP Address	MAC Address
DCS-5300-55	DCS-5300	None	Active	10.129.1.55	000D887D6DC4
DCS-5220-233	DCS-5220	None	Active	10.129.1.233	001346DC3BC3
DCS-5220-234	DCS-5220	None	Active	10.129.1.234	001346DC3BEB

Select **Yes** to add other camera(s), or select **No** if you have no additional camera(s) to add. Click **Next** to continue.

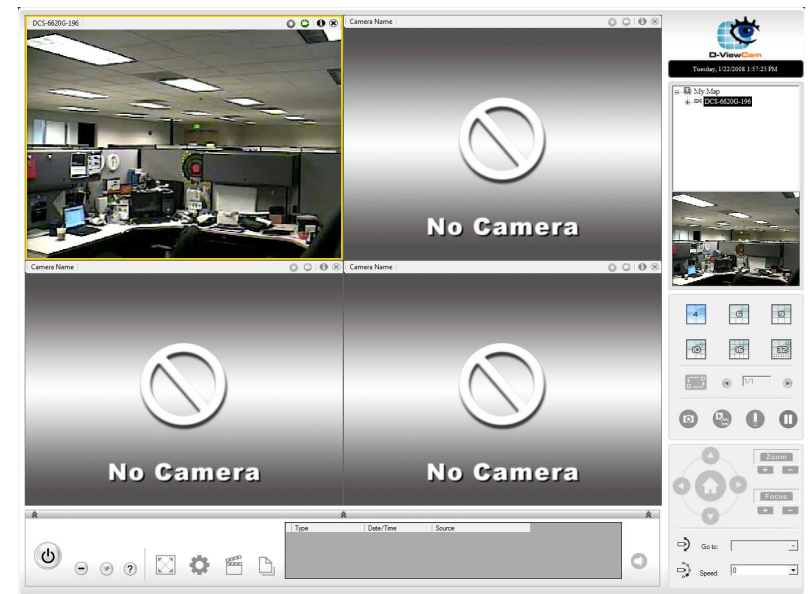


The **Add Camera wizard** is now complete. Click **Close** to access the D-ViewCam's main screen.



## Your D-ViewCam Installation is Complete!

**Note:** Please refer to the *D-ViewCam user manual* for information about using *D-ViewCam*.





# Frequently Asked Questions

This chapter provides solutions to problems that may occur during the installation and operation of the DCS-5610. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.)

## **PTZ PoE Internet Camera Features**

### **1. What is a PTZ PoE Internet Camera?**

The PTZ PoE Internet Camera is a stand-alone system connecting directly to an Ethernet or Fast Ethernet network. The PTZ PoE Internet Camera differs from a conventional PC Camera because it has an integrated system with built-in CPU and web-based solutions, providing a low cost solution that can transmit high quality video images for monitoring. The PTZ PoE Internet Camera can be remotely managed, accessed and controlled from any PC/Notebook over an Intranet or Internet using a web browser.

### **2. What is the maximum number of users that can access DCS-5610 simultaneously?**

The maximum number of users that can log onto the PTZ PoE Internet Camera at the same time is 10. Please keep in mind the overall performance of the transmission speed will be reduced if many users have logged on to the camera simultaneously.

### **3. What algorithm is used to compress the digital image?**

The PTZ PoE Internet Camera utilizes MPEG-4 simple profile or MJPEG Mode image compression technology providing high quality images. MJPEG is a standard for image compression and it can be applied to various web browsers and application software without installing any extra software

### **4. Can I capture still images from the PTZ PoE Internet Camera?**

Yes you can capture still images using the snapshot function.

## PTZ PoE Internet Camera Installation

### 1. Can the PTZ PoE Internet Camera be used outdoors?

The PTZ PoE Internet Camera is not weatherproof. It needs to be equipped with a weatherproof case for outdoor use but it is not recommended.

### 2. When physically connecting the PTZ PoE Internet Camera to a network, what network cabling is required?

The PTZ PoE Internet Camera uses Category 5 UTP cable allowing 10 Base-T and 100 Base-T networking solutions.

### 3. Can the PTZ PoE Internet Camera be setup as a PC-cam on a computer?

No, the PTZ PoE Internet Camera is used only on an Ethernet or Fast Ethernet network. The D-Link DSB-C110, DSB-C310, can be used as a PC Camera (Webcam).

### 4. Can the PTZ PoE Internet Camera be connected to the network if it consists only of private IP addresses?

The PTZ PoE Internet Camera can be connected to a LAN with private IP addresses.

### 5. Can the PTZ PoE Internet Camera be installed and work if a firewall exists on the network?

If a firewall exists on the network, port 80 is open for ordinary data communication. The **DCS-5610** uses port 5002 for streaming audio and port 5003 for streaming video. These ports (or the ports you have specified in the **Advanced** Tab in the Configuration screen) need to be opened on the firewall.

### 6. Why am I unable to access the PTZ PoE Internet Camera from a web browser?

If a router or firewall is used on the network, the correct ports for the **DCS-5610** may not be configured on the router or firewall. To correct the problem, you need to determine if the **DCS-5610** is behind a router or firewall and if the router or firewall is properly configured for the ports the **DCS-5610** is using. Refer to Page 28 for help in opening the correct ports on a router or firewall for use with the **DCS-5610**. Other possible problems might be due to the network cable. Try replacing your network cable. Test the network interface of the product by connecting a local computer to the unit, utilizing a Ethernet crossover cable. If the problem is not solved the PTZ PoE Internet Camera might be faulty.

## 7. Why does the PTZ PoE Internet Camera work locally but not externally?

- This might be caused by network firewall protection. The setting of the firewall may need to be changed in order for the PTZ PoE Internet Camera to be accessible outside of your local LAN. Check with the Network Administrator for your network.
- Make sure that your PTZ PoE Internet Camera isn't conflicting with any Web server you may have running on your network.
- The default router setting might be a possible reason. Check that the configuration of the router settings allows the PTZ PoE Internet Camera to be accessed outside of your local LAN.

## 8. I connected the PTZ PoE Internet Camera directly to a computer with a cross-over Ethernet cable and received a Windows error upon running the installation Wizard?

- This Windows error will occur if the PTZ PoE Internet Camera is connected to a computer that is not properly configured with a valid IP address. Turn off DHCP from the Network Settings in Windows and configure the computer with a valid IP address or connect the camera to a router with DHCP enabled.
- This error can also occur if the **Installation Wizard** icon is clicked on more than once from the setup wizard.

## 9. Noisy images occur. How can I solve the problem?

The video images might be noisy if the PTZ PoE Internet Camera is used in a very low light environment. To solve this issue you need more lighting.

## 10. The images appear to be of poor quality, how can I improve the image quality?

- Make sure that your computer's display properties are set above 256 colors. Using 16 or 256 colors on your computer will produce dithering artifacts in the image, making the image appear to be of poor quality.
- The configuration on the PTZ PoE Internet Camera image display is incorrect. Through the **Advanced>Image Setup** section of the Web management you need to adjust the image related parameters such as brightness, white balance and power line frequency for fluorescent light.

# Networking Basics

## Check your IP address

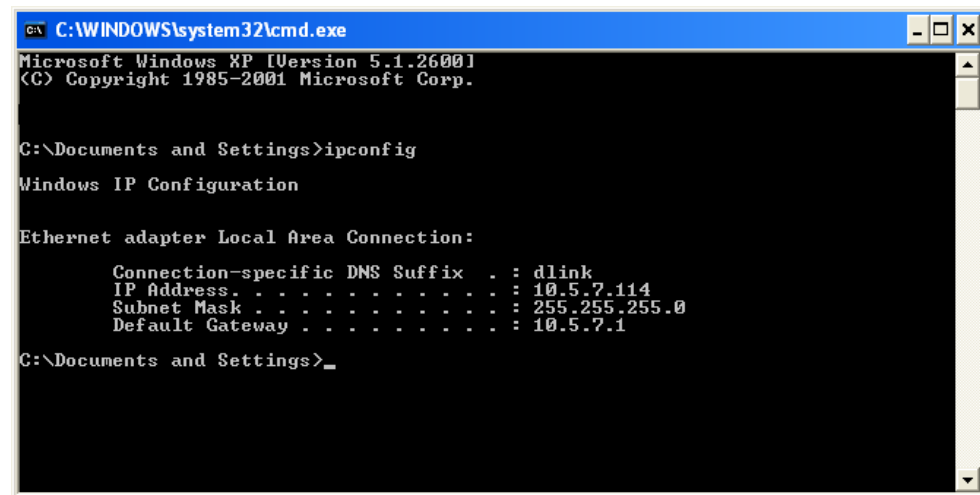
After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start > Run**. In the run box type *cmd* and click **OK**.

At the prompt, type *ipconfig* and press **Enter**.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your access point. Some firewall software programs may block a DHCP request on newly installed adapters.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : dlink
    IP Address . . . . . : 10.5.7.114
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.5.7.1

C:\Documents and Settings>_
```

If you are connecting to a wireless network at a hotspot (e.g. hotel, coffee shop, airport), please contact an employee or administrator to verify their wireless network settings.

## Statically Assign an IP address

If you are not using a DHCP capable gateway/access point, or you need to assign a static IP address, please follow the steps below:

### Step 1

Windows® XP - Click on **Start > Control Panel > Network Connections**.

Windows® 2000 - From the desktop, right-click **My Network Places > Properties**.

### Step 2

Right-click on the **Local Area Connection** which represents your D-Link network adapter and select **Properties**.

### Step 3

Highlight **Internet Protocol (TCP/IP)** and click **Properties**.

### Step 4

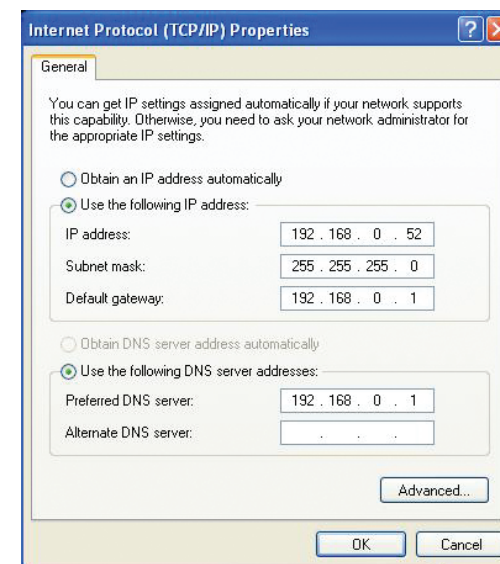
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your access point.

Example: If the internet camera's LAN IP address is 192.168.0.1, make your IP address 192.168.0.X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your access point (192.168.0.1).

Set Primary DNS the same as the LAN IP address of your access point (192.168.0.1). The Secondary DNS is not needed or you may enter a DNS server from your ISP.

### Step 5

Click **OK** twice to save your settings.



# Technical Specifications

## Video Codec

MPEG4 / MJPEG

## Audio Codec

GSM-AMR / MPEG-4 AAC

## PoE

Supported IEEE 802.3af standard

## Sensor

1/4" SONY progressive color CCD sensor

## SDRAM

32 Mbytes

## Flash Memory

8 Mbytes

## Lens

- 2.8-7.3mm zoom lens
- F1.9~F200 2.6x optical zoom (4x digital zoom)

## LAN

- 10/100Base T ports x1
- IEEE 802.3 compliance
- IEEE 802.3u compliance
- Support Full-Duplex operations
- 802.3x Flow Control support for Full-Duplex mode
- Supported IEEE 802.3af standard (PoE)

## MIC

6mm, -40 db  $\pm$  3db

## I/O Connector

4pin-contact terminal block (1x input (2pins), 1x output(2pins))

## Audio Out

Yes

## Mute Button

Slide switch for microphone mute (2 status)

## Reset Button

Reset to factory default

## Dimension (WxHxD)

104 X 103.5 X 118 (mm)

## Weight

319 (gram)

## Power Consumption

- Max 6W (estimate)
- Input: 100-240VAC, 50/60Hz
- Output: 12VDC, 1.5A

## Networking

### Protocol

- IPV4, ARP, TCP, UDP, ICMP
- DHCP Client
- NTP Client (D-Link)
- DNS Client
- DDNS Client (D-Link)
- SMTP Client
- FTP Client
- HTTP Server
- Samba Client
- PPPoE
- UPnP Port Forwarding
- RTP
- RTSP

- RTCP
- IP filtering
- 3GPP

### **Ethernet**

10/100M BaseT Fast Ethernet auto negotiation

### **Video**

#### **Algorithm Supported**

MPEG4/MJPEG dual format compression simultaneously  
JPEG for still image.

#### **Features**

- Adjustable image size and quality
- Time stamp and text overlay
- Three configurative motion detection windows
- Flip & mirror

#### **Resolution**

- 470 TV lines
- Up to 30 frames at 176x144
- Up to 30 frames at 320x240
- Up to 30 frames at 640x480

#### **Low lux**

1 Lux / F1.9

#### **3A control**

AGC, AWB, AES

#### **Electronic shutter**

1/60(1/50)~1/100,000sec

#### **Sample rate**

8/24/32K bps

### **Audio**

#### **Frequency**

50 ~ 16000Hz

#### **S/N ratio**

More than 58dB

#### **Mode**

Full duplex 2-way audio communication

#### **Directional**

Omnidirectional

### **Microphone**

#### **Frequency**

50 ~ 16000Hz

#### **S/N ratio**

6mm, - 40 dB + 3db

### **OS Support**

#### **Device**

Windows 2000 / Windows XP / Windows Vista / 3GPP Mobile Phone

#### **Utility**

Windows 2000 / Windows XP / Windows Vista

### **Physical Environment**

#### **Power**

- 12V 1.5A switching power adapter
- External AC-to-DC Switching Power Adapter
- Type: USA / UK / EUR / AUS / CN (Order by each territory)

#### **Cable**

- Cable Length: 1800 ± 30mm
- Type: UL 20AWGx2C (105°C) 300V

#### **Plug**

- Type: L type
- Connector Color: Black

**Power Jack (On Device)**

Color: Black

**Operation Temperature**

0 to 40 °C (32 to 104°F)

**Storage Temperature**

- 20 to 70 °C (-4 to 158 °F)

**Humidity**

20-80% RH non-condensing

**Emission (EMI), Safety & Other Certifications**

- FCC
- CE
- C-Tick

<sup>1</sup>Maximum wireless signal rate derived from IEEE Standard 802.11g, 802.11a and Draft 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

<sup>2</sup>Range varies depending on country's regulation.

<sup>3</sup>The DCS-5610 doesn't include 5.25-5.35GHz & 5.47~5.725GHz.



# Contacting Technical Support

U.S. and Canadian customers can contact D-Link technical support through our web site or by phone.

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DCS-5610)
- Hardware Revision (located on the label on the bottom of the internet camera (e.g. rev A1))
- Serial Number (s/n number located on the label on the bottom of the internet camera).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

## For customers within the United States:

**Phone Support:**  
(877) 453-5465

**Internet Support:**  
<http://support.dlink.com>

## For customers within Canada:

**Phone Support:**  
(800) 361-5265

**Internet Support:**  
<http://support.dlink.com>

# Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. (“D-Link”) provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

## **Limited Warranty:**

D-Link warrants that the hardware portion of the D-Link product described below (“Hardware”) will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below (“Warranty Period”), except as otherwise stated herein.

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

The customer’s sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link’s option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

### **Limited Software Warranty:**

D-Link warrants that the software portion of the product (“Software”) will substantially conform to D-Link’s then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days (“Software Warranty Period”), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer’s sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link’s option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link’s functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by DLink in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

### **Non-Applicability of Warranty:**

The Limited Warranty provided hereunder for Hardware and Software portions of D-Link’s products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold “As-Is” without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

### **Submitting A Claim:**

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow DLink to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-453-5465, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization (“RMA”) number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.com/>.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. DLink will only replace the defective portion of the product and will not ship back any accessories.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery (“COD”) is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link’s reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

### **What Is Not Covered:**

The Limited Warranty provided herein by D-Link does not cover:

Products that, in D-Link’s judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

### **Disclaimer of Other Warranties:**

EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED “AS-IS” WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

**Limitation of Liability:**

TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NONCONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

**Governing Law:**

This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

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**CE Mark Warning:**

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

**FCC Statement:**

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

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

**FCC Caution:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

If this device is going to be operated in 5.15 ~ 5.25GHz frequency range, then it is restricted in indoor environment only.

**IMPORTANT NOTICE:**

**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

**Industry Canada Notice:**

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**IMPORTANT NOTE:**

**Radiation Exposure Statement:**

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device has been designed to operate with an antenna having a maximum gain of 2 dB. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

# Registration



Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

Version 1.0  
February 26, 2007