

DCS-6410

Version 1.2

Fixed Dome Network Camera

User Manual

Business Class Networking

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Package Contents

- D-Link DCS-6410 Fixed Dome Network 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 the package 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 using the D-ViewCam software)

Introduction

The D-Link DCS-6410 Fixed Dome Network Camera with Built-In IR LEDs and PoE support is a powerful surveillance system that can connect to your network. The DCS-6410 differs from a conventional PC Camera because it is a standalone system with a built-in CPU and Web server, providing a low-cost solution capable of solving demanding security and home/office monitoring needs. It is designed with aluminum casing for maximum heat dissipation and better protection. Snapshot enables you to save a snapshot image directly from a Web browser to a local hard drive without installing any software. With 0.1 lux light sensitivity, the DCS-6410 is capable of capturing video in rooms with minimal lighting. With the Built-In IR LED Lens, you can customize your surveillance application to enable low light or night vision video streaming. The DCS-6410 gives you the ability to monitor video and audio in your home/office using an Internet browser anywhere in the world! Simple installation procedures, along with the built-in Web-based interface offers 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

- **Supports a Variety of Protocols:** Supporting TCP/IP networking, SMTP e-mail, HTTP and other Internet related protocols, the DCS-6410 Network Camera can be integrated easily into other Internet/Intranet applications because of its standards-based features.
- **Remote Snapshot Images:** Using the Snapshot feature, you save snapshots directly from the Web browser to a local hard drive without installing any software, making it convenient to instantly capture any moment from a remote location.
- **Low Light Recording:** The light sensitivity allows you to capture video in rooms with minimal lighting, making it ideal for use at night time.
- **Web Configuration:** Using the Web browser, administrators can configure and manage the Network Camera directly using the web browser via Intranet or Internet. Up to 10 accounts with different settings can be created and controlled by the administrator.
- **Powerful Surveillance and Remote Monitoring Utility:** An administrator is assigned with a pre-defined user ID and password, can modify the Network Camera settings from a remote site via Intranet or Internet. Administrators are allowed to monitor the video image, record the video image to a hard drive, and take snapshots.
- **Broad Range of Applications:** With today's high-speed Internet, the Network Camera provides the ideal solution for remotely monitoring live video images over the Intranet and Internet. The DCS-6410 allows remote access using Internet Explorer or other web browser for live image viewing with audio and allows the administrator to manage and control the Network Camera anywhere and anytime. Apply the Network 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 Network 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.

Hardware Overview

DC Power Connector

The DC power input connector is located on the DCS-6410 Network Camera's back panel and is labeled 12V DC with a single socket to supply power to the Network Camera.

Reset Button

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

Ethernet Cable Connector (PoE)

The Network 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 Network Camera to automatically detect or negotiate the transmission speed of the network.



Hardware Overview

Audio Out Connector

The DCS-6410 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-6410 Fixed Dome Network Camera doesn't support built-in microphone. But, you have the option of using an external microphone by plugging it into the microphone connector.



DI/DO

The DCS-6410 provides a general I/O terminal block. The I/O connectors provide the physical interface to send and receive digital signals to and from a variety of external devices.

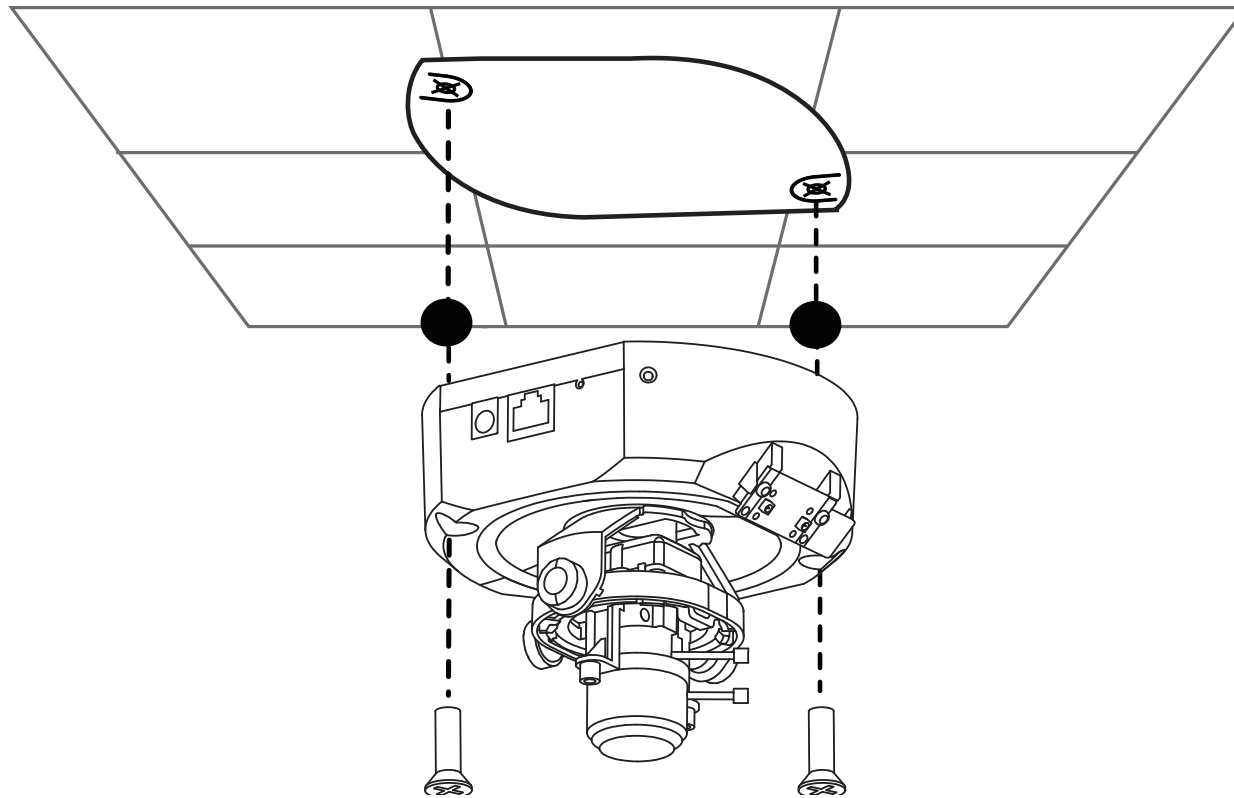
Video Out

The DCS-6410 provides an Analog RCA Video port output allowing you to connect to a TV for local viewing. The DCS-6410 can also be connected to a VCR to record activities.

Hardware Installation

When Mounting to a Ceiling

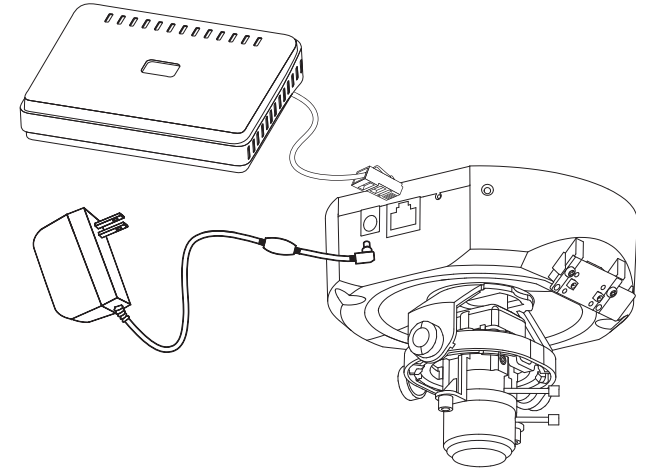
Find a suitable place to install the camera using the alignment stencil. Place the camera at the desired operating location and insert the screws through the two holes located at the base of the camera. Use a screwdriver to tighten and secure.



Network Deployment

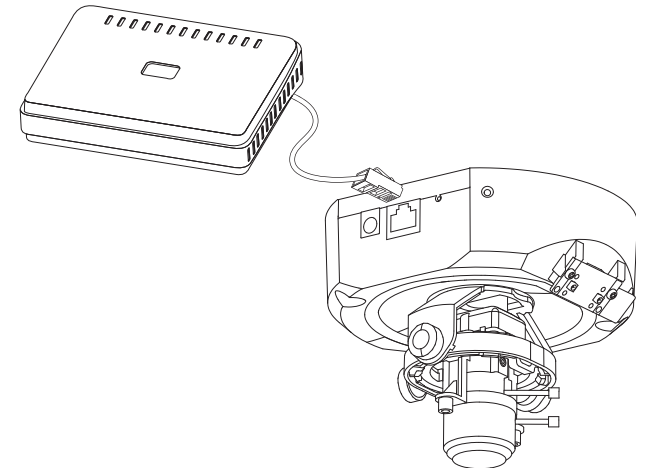
General Connection (without PoE)

Connect the network camera to a switch via an Ethernet cable.
Connect the supplied power cable from the camera to a power outlet.



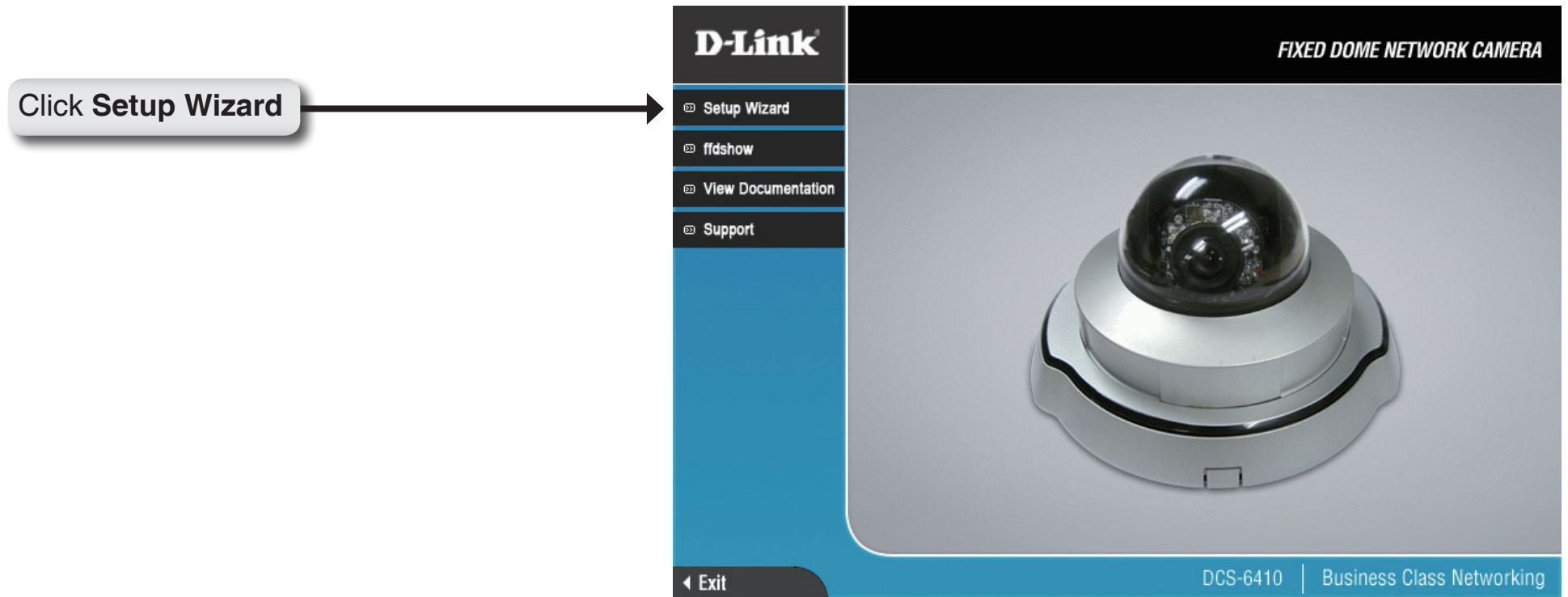
Connection with a PoE Switch

If using a PoE switch, connect the network camera to the switch via an Ethernet cable, which will provide both power and data transmission over a single cable.



Software Installation

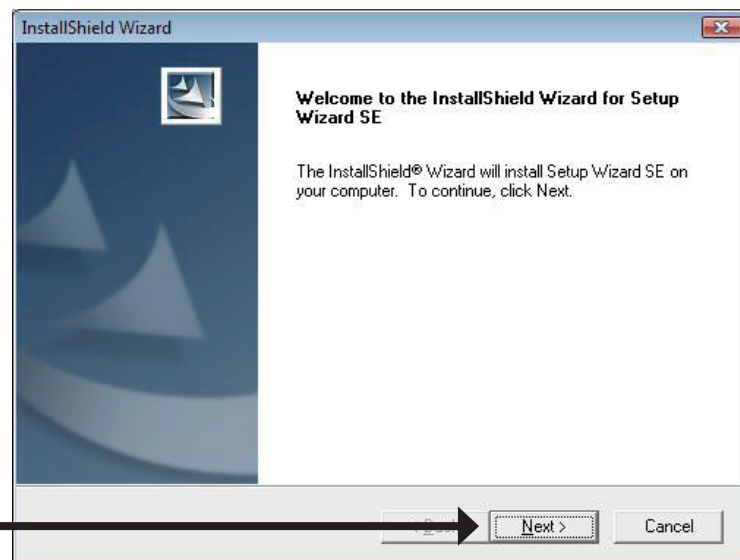
Turn on the computer and insert the D-Link DCS-6410 Driver CD into the CD-ROM drive. The following step-by-step instructions will be shown in Windows® XP. Similar steps and screens will also be shown for other Windows operating systems.



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

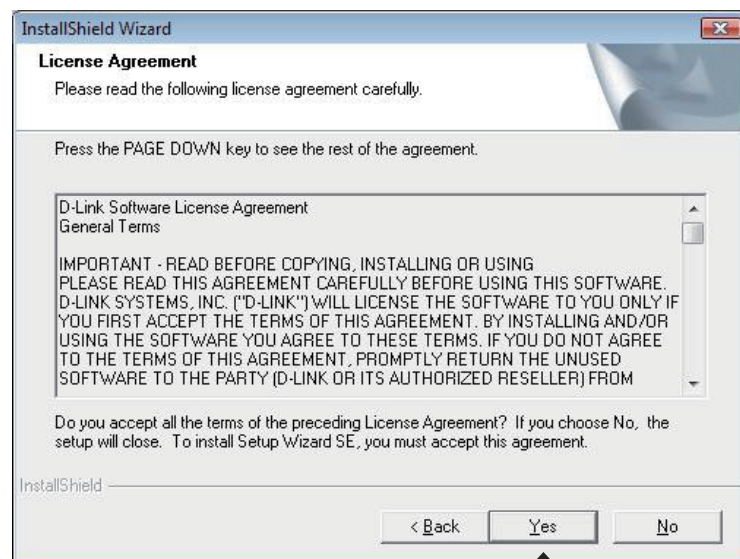
Click **Next** to continue.

Click **Next**



Click **Yes** to accept the License Agreement.

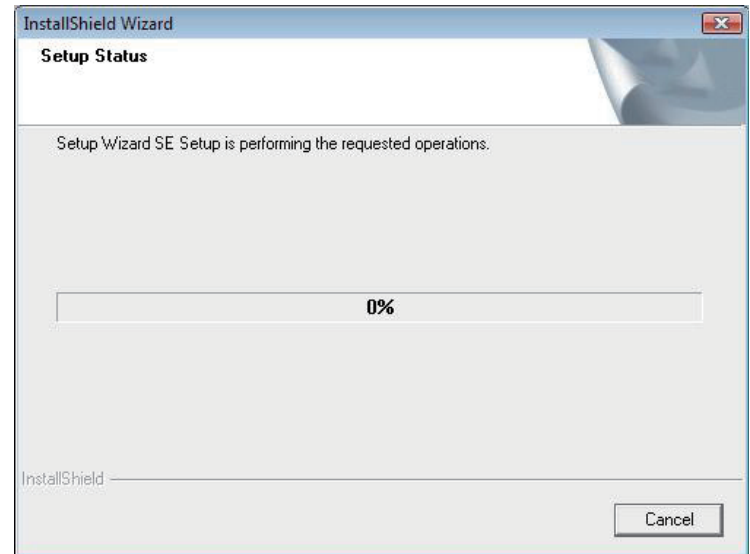
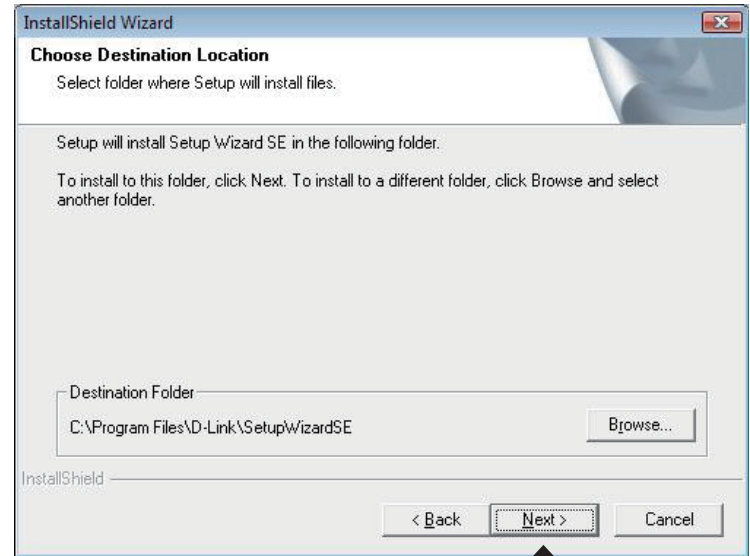
Click **Yes**



To start the installation click **Next**.

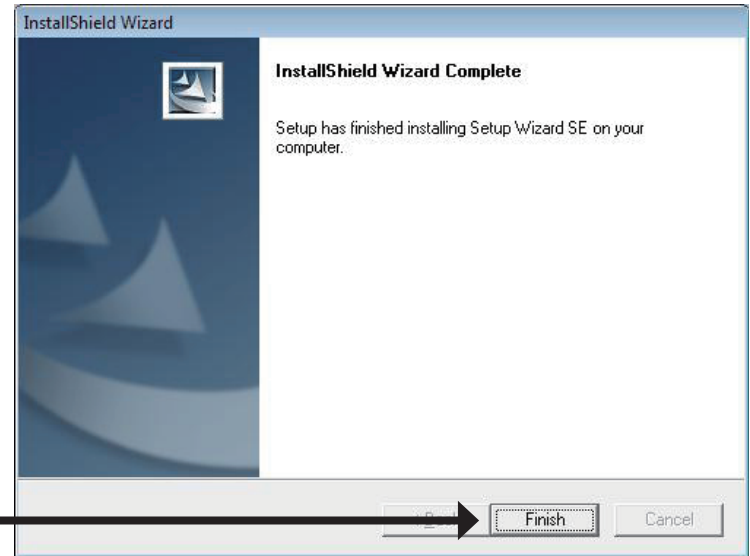
Note: *The installation may take several minutes to complete.*

Click **Next**



Click **Finish** to complete the installation.

Click **Finish**

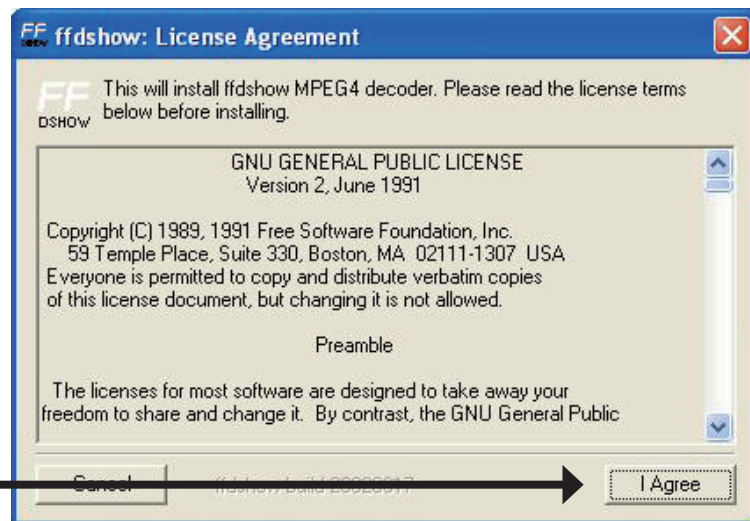


Now, click on **ffdshow** from the autorun screen. This will install the proper codecs that will allow you to playback video taken by the DCS-6410.

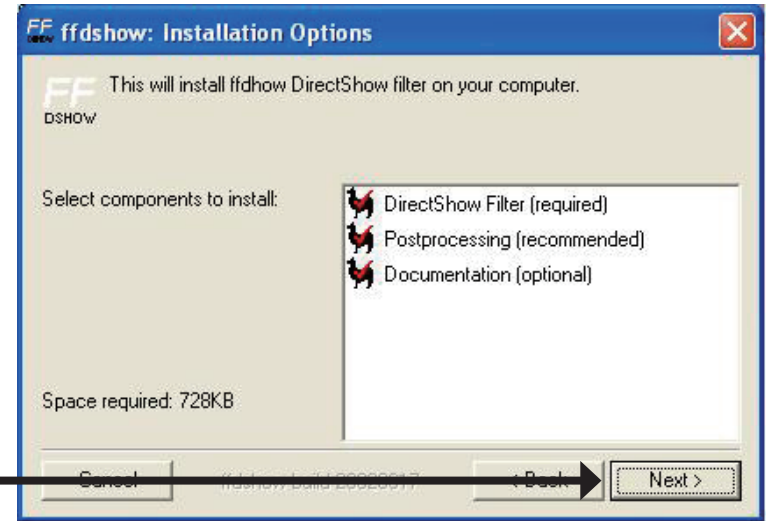
Click **ffdshow**



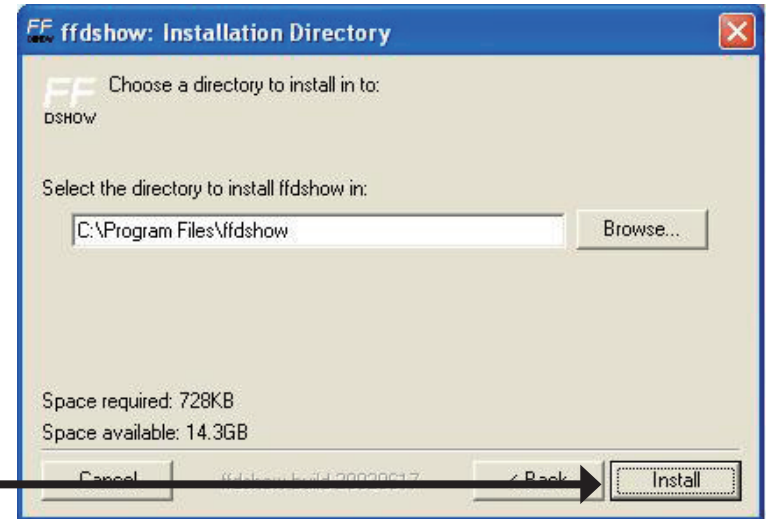
Click **I Agree**



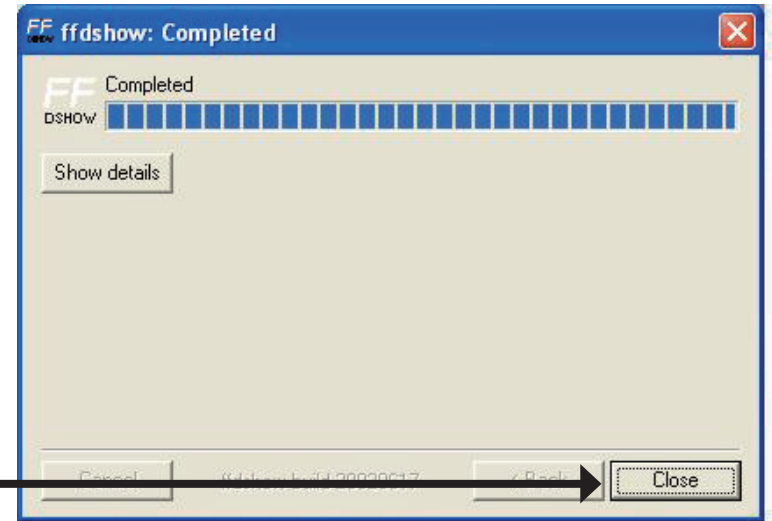
Click Next



Click Install



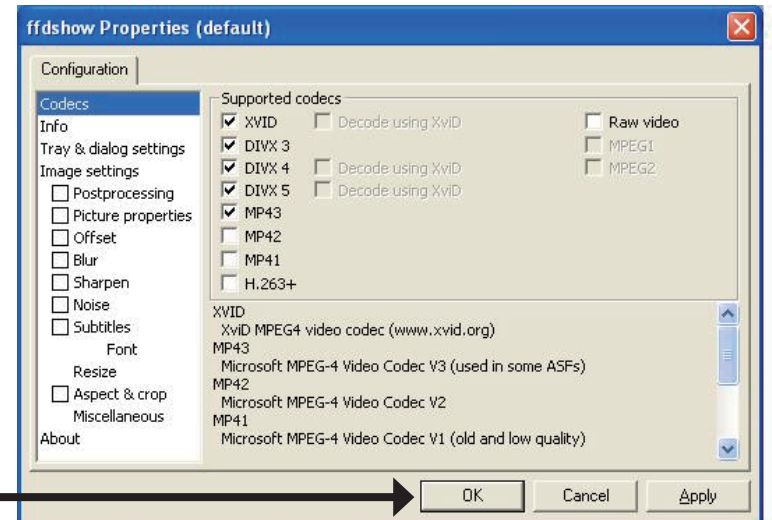
Click **Close**



Before using **ffdshow** you must configure its properties. From your computer, click on **Start > Programs > ffdshow > Configuration**.

At the **ffdshow** properties window, scroll to the bottom and click **Miscellaneous**. Be sure **Autodetect** is checked, and **Error resilience** and **Error concealment** are set to “none”. Click **OK** and close the window.

Click **OK**



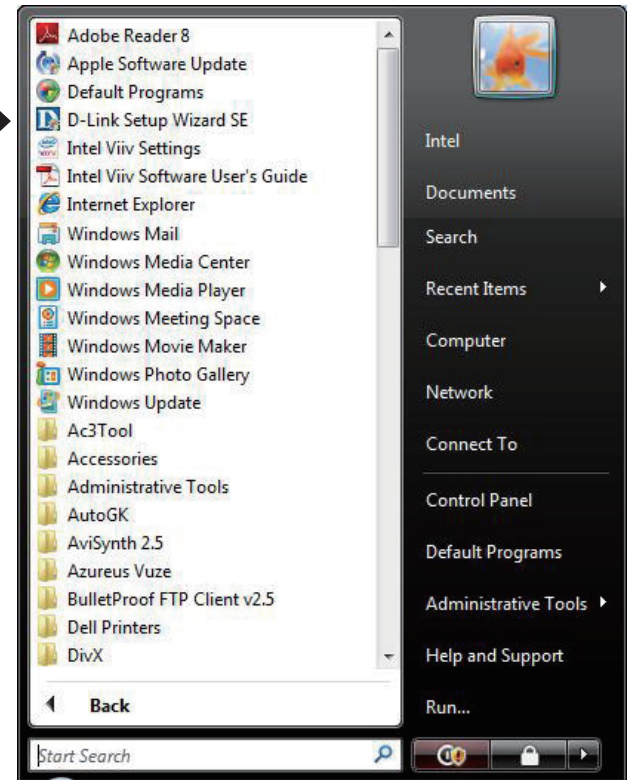
Configuration

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

Setup Wizard Configuration

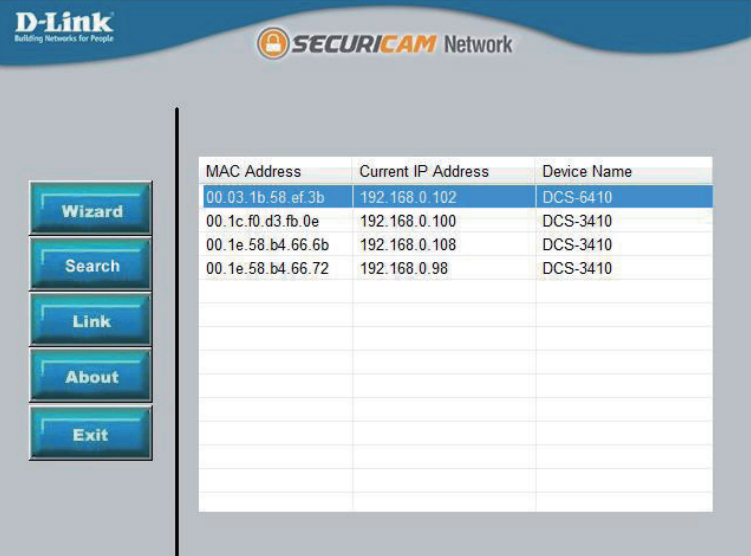
Click on the icon that has been created in your Windows Start menu.

Click **D-Link Setup Wizard SE**



The Setup Wizard will appear and show the MAC address of your DCS-6410 and an IP Address (which may or may not be correct, depending on what you have your DCS-6410 connected to). If you have a DHCP server on your network, there will be a valid IP Address displayed here. Click the **Wizard** button to continue.

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



The screenshot shows the D-Link SecurICAM Network Setup Wizard interface. On the left side, there are five buttons: Wizard, Search, Link, About, and Exit. The main area displays a table with the following data:

MAC Address	Current IP Address	Device Name
00 03 1b 58 ef 3b	192.168.0.102	DCS-6410
00 1c f0 d3 fb 0e	192.168.0.100	DCS-3410
00 1e 58 b4 66 6b	192.168.0.108	DCS-3410
00 1e 58 b4 66 72	192.168.0.98	DCS-3410

Enter the admin ID and password.

Note: By default, Admin ID is **admin** and the password is left blank.



The screenshot shows the D-Link SecurICAM Network Setup Wizard interface for setting up an Admin ID and Password. The text reads: "Set up an Admin ID and Password to secure your camera. Click Next to continue." Below this, there are two columns of input fields. The first column is for the Admin ID, with a "Change" checkbox and fields for "New ID" and "Reconfirm". The second column is for the Password, with a "Change" checkbox and fields for "New Password" and "Reconfirm". At the bottom right, there are three buttons: Back, Next, and Exit. An arrow points from the "Click Next" button in the previous block to the "Next" button in this block.

Click Next

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



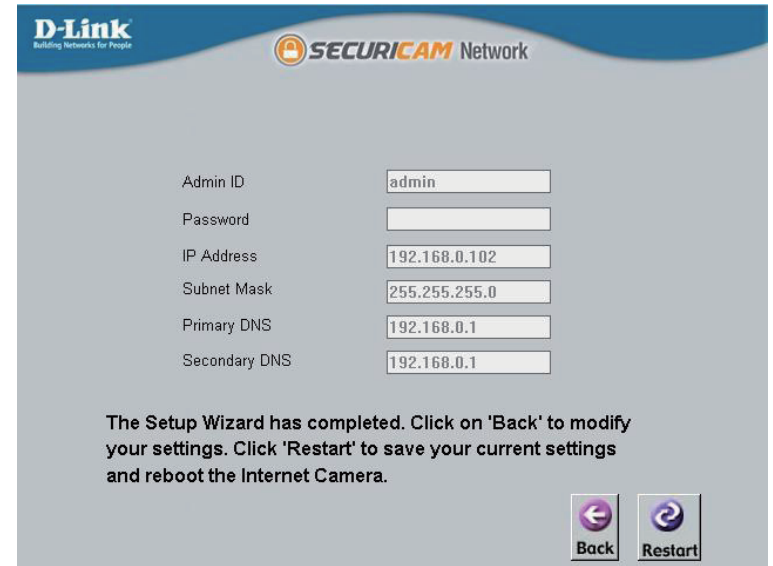
Click Next

Select static IP to use the same IP address at each boot up.



Click Next

Click **Restart** to save your settings and reboot the Network Camera.



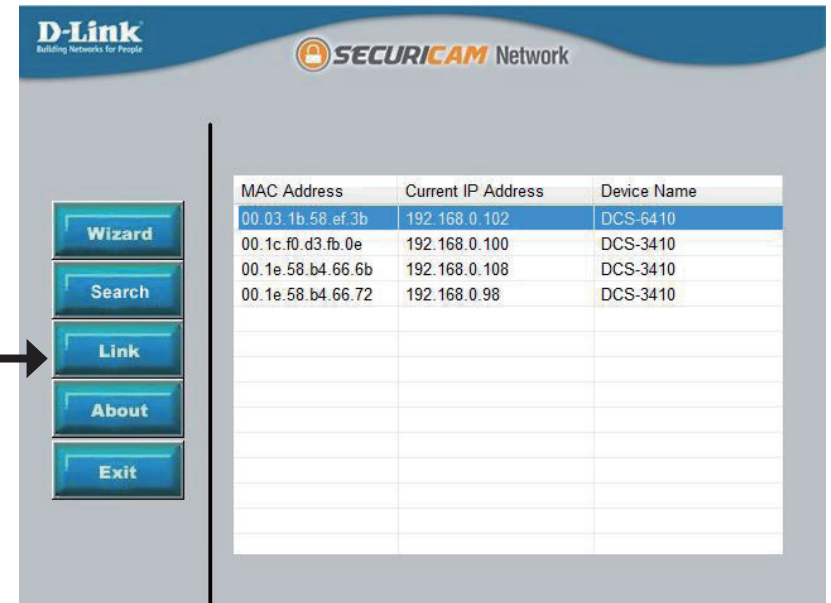
Click **Restart**



Click the button labeled **Link** to access the web configuration page. The Setup Wizard will automatically open your web browser with the IP address of your DCS-6410. For example, the IP address is: <http://192.198.0.20>.

Note: Your DCS-6410 may have a different IP Address.

Click **Link**



Web-based Configuration Utility

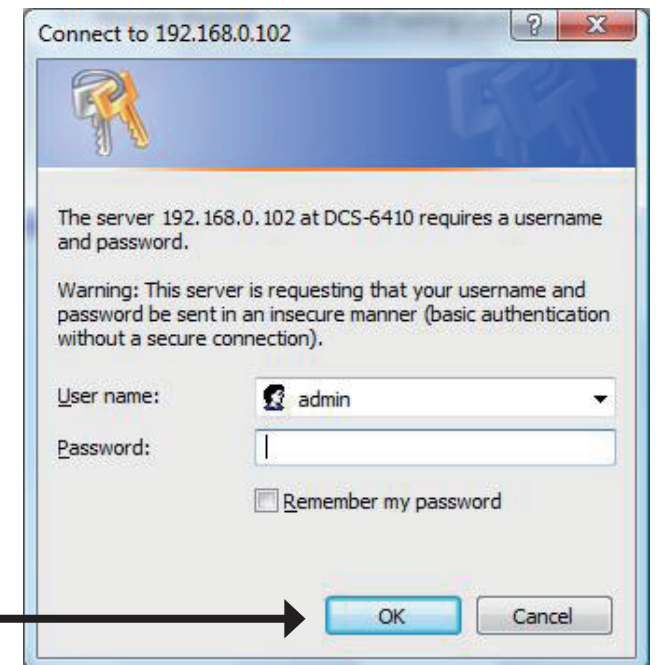
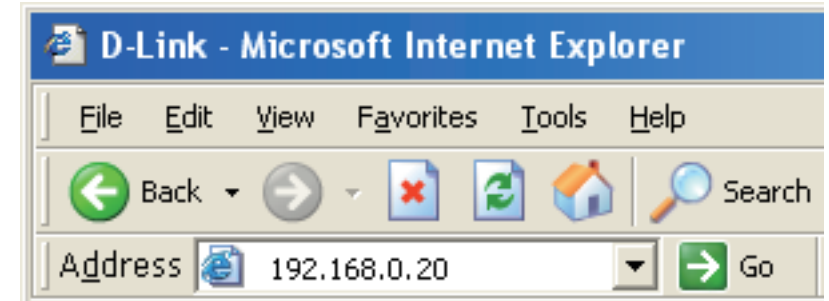
This section will show you how to configure your new D-Link Network Camera using the Web-based Configuration Utility.

To access the configuration utility, open a web-browser such as Internet Explorer and enter the IP address of your Network Camera (<http://192.168.0.20>)

Note: *192.168.0.20 is only an example. Your address may differ.*

Enter **Admin** for the username and leave the password blank by default.


Note: *To change your password, please refer to page 41.*




Live Video Camera


This section shows your camera's live video and event indicators. You may select the available thumbnails for your options of predefined **Video Profile**, **Full Screen** mode, and action items of taking **Snapshot**, **Recording**, **Set Storage Folder**, **Listen**, **Talk**, and **Digital Output**. You may also select your language setting using the drop-down menu.

You can zoom in and out of the live video image using your mouse. Right-click to zoom out and left-click to zoom in on the image.

 **Digital Input Indicator:** This indicator will light up when there is an available digital input signal.

 **Motion Trigger Indicator:** When a trigger event occurs, this will light up.

***Note:** The video motion feature of your camera must be enabled.*

 **Recording Indicator:** When a recording is in progress, this indicator will light up.

 **Video Profile 1**

 **Video Profile 2**

 **Video Profile 3**

 **Video Profile 4**

 **Full screen mode**

 **Taking a Snapshot**

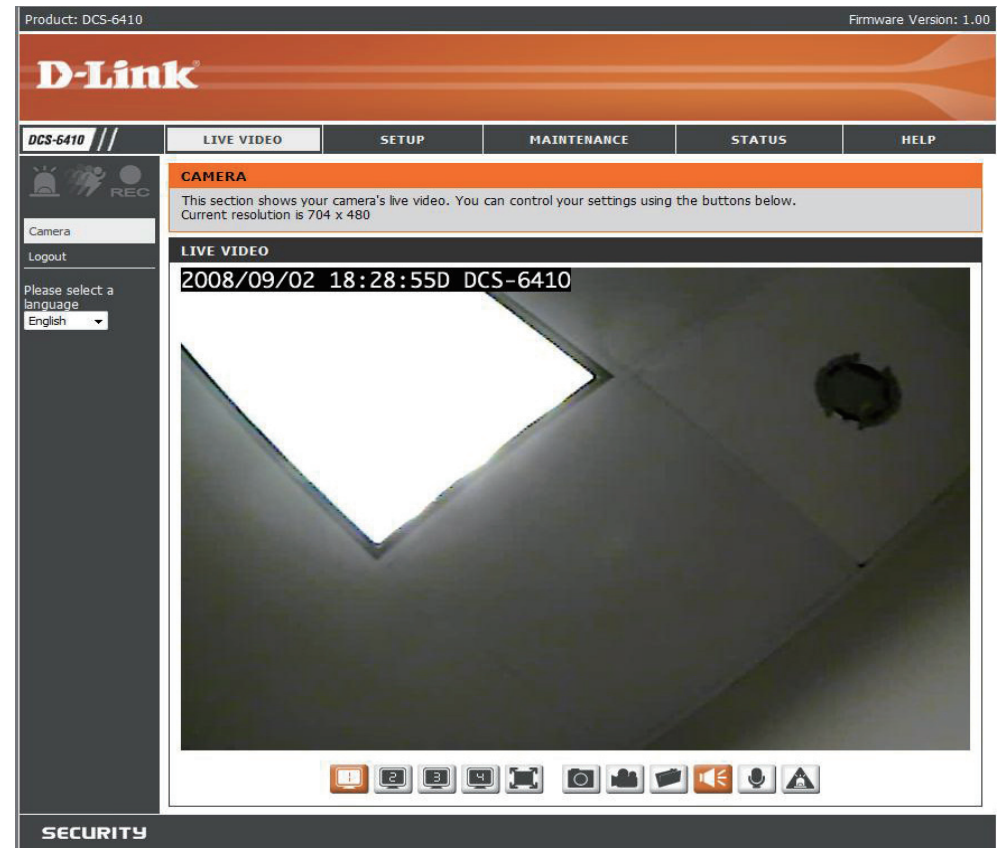
 **Recording a Video Clip**

 **Set a Storage Folder**

 **Listen/Stop Listening**

 **Talk/Stop Talking**

 **Start/Stop Digital Output**



Setup Wizard

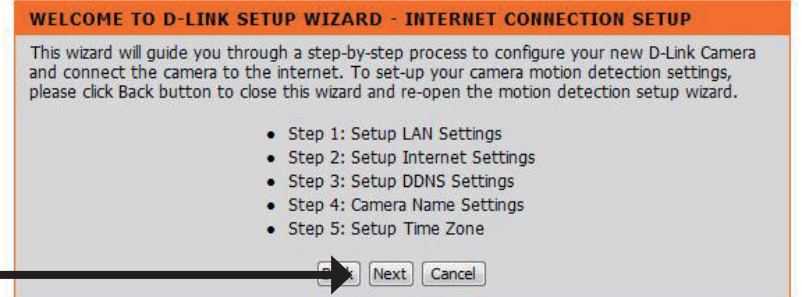
To quickly configure your Network Camera, click **Internet Connection Setup Wizard** or click **Manual Internet Connection Setup** to manually configure your Network Camera.

To quickly configure your Network Camera's motion detection settings, click **Motion Detection Setup Wizard** and go to page 27. If you want to enter your settings without running the wizard, click **Manual Motion Detection Setup** and skip to page 30.



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.



Click Next

Select **DHCP** if you are unsure which settings to pick. Click **Next** to continue and skip to page 25.

Select **Static IP** if your Internet Service Provider has provided you with connection settings, or you want to set a static address within your home network. Enter the accurate information for your static IP setting. Click **Next** to continue.

STEP 1: 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, select Static IP address to manually assign an IP address before clicking on the Next button.

DHCP Connection
 Static IP Address

IP Address
Subnet Mask
Default Gateway
Primary DNS
Secondary DNS



If you are using PPPoE, select **Enable** and enter your user name and password. Click **Next** to continue.

STEP 2: INTERNET SETTINGS

If your ISP is using PPPoE, please enable this setting and enter your ISP Username and Password. Then, click on the Next button. Please contact your ISP if you do not know your Username and Password.

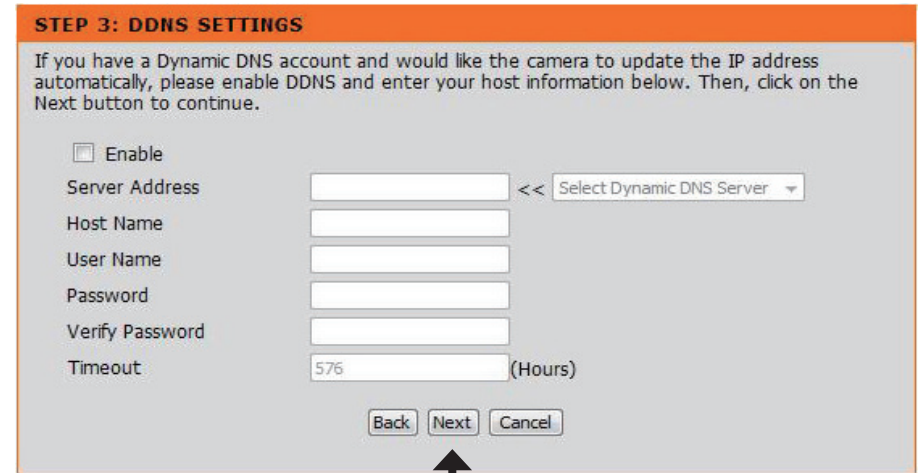
Enabled

Username
(e.g. 123456@hinet.net)

Password



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



STEP 3: DDNS SETTINGS

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

Enable

Server Address << Select Dynamic DNS Server ▾

Host Name

User Name

Password

Verify Password

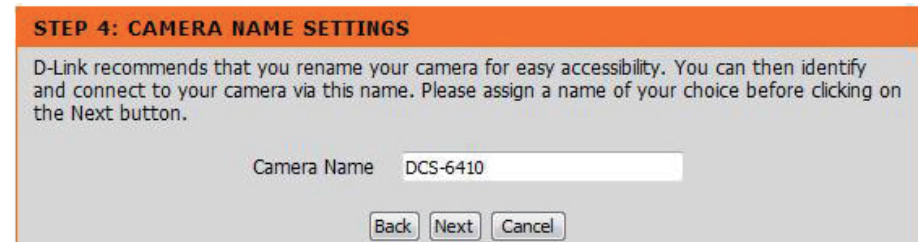
Timeout (Hours)

Back Next Cancel

Click Next



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



STEP 4: CAMERA NAME SETTINGS

D-Link recommends that you rename your camera for easy accessibility. You can then identify and connect to your camera via this name. Please assign a name of your choice before clicking on the Next button.

Camera Name

Back Next Cancel

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: TIME ZONE

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

Time Zone (GMT-08:00) Pacific Time (US & Canada) ▾

Enable Daylight Saving

Back Next Cancel

Click **Next**



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 activate your settings.

STEP 6: SETUP COMPLETE

Below is a summary of your camera settings. Click on the Back button to review or modify settings or click on the Apply button if all settings are correct. It is recommended to note down these settings in order to access your camera on the network or via your web browser.

IP Address	DHCP
IP Camera Name	DCS-6410
Time Zone	(GMT-08:00) Pacific Time (US & Canada)
DDNS	Disable
PPPoE	Disable

Back Apply Cancel

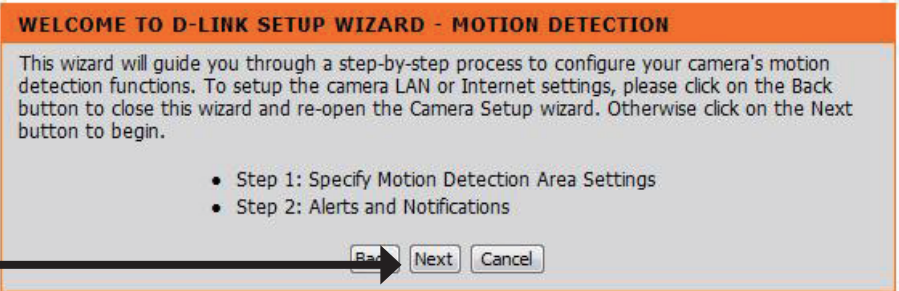
Click **Apply**



Motion Detection Setup Wizard

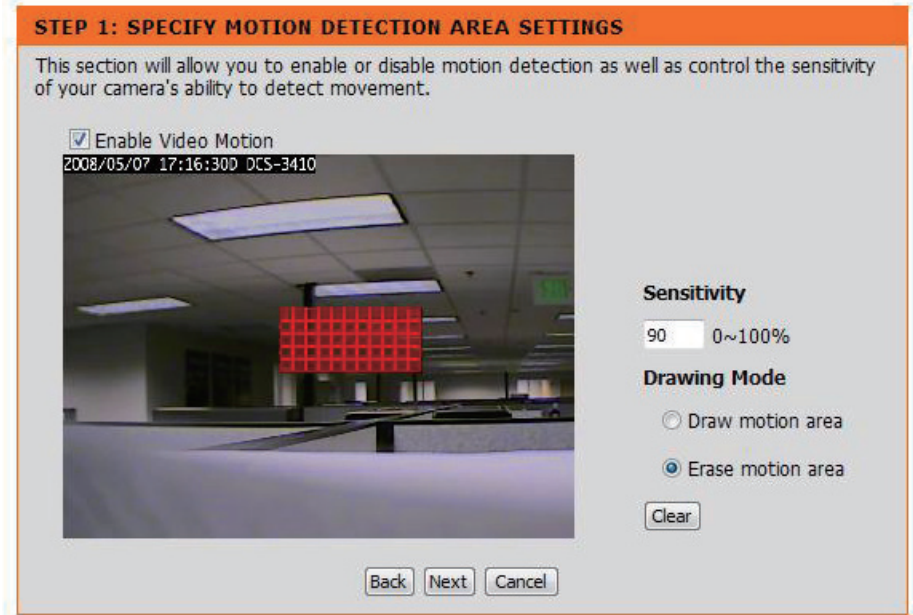
This wizard will guide you through a step-by-step process to configure your new D-Link Camera motion detection functions. Click **Next** to continue.

Click **Next**



This section will allow you to enable or disable motion detection as well as control the camera's sensitivity or its ability to detect movement. You can select the **Drawing Mode** to draw or erase the motion area in the window of live video.

Click **Next**



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.

STEP 2: ALERTS AND NOTIFICATIONS

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.

Enable e-mail notification

User Name

Password

SMTP Mail Server

Sender E-mail Address

Recipient E-mail Address

Port

Enable FTP uploading

User Name

Password

Host Name

Path

Filename Prefix

Port

Passive Mode

Click **Next**

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

STEP 3: 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: Enable
Alerts and Notification: Do not notify me

Click **Apply**



Network Setup

Use this section to configure the network connections for your camera. All relevant information must be entered accurately.

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 Address: 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 aid you in 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 DNS.

Enable UPnP: Enable this setting to allow your camera to be configured as an UPnP device in your network.

Enable UPnP port forwarding: Enable this setting to allow your camera to add port forwarding entries into the router automatically.

Product: DCS-6410 Firmware Version: 1.00

D-Link

DCS-6410 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Setup Wizard
Network Setup
Dynamic DNS
Image Setup
Audio and Video
Motion Detection
Time and Date
Recording
Snapshot
Digital Output
RS-485
Logout

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

LAN SETTINGS

LAN

DHCP Connection
 Static IP Address

IP Address
Subnet Mask
Default Gateway
Primary DNS
Secondary DNS

Enable UPnP
 Enable UPnP port forwarding
 Enable PPPoE

User Name
Password
Confirm password

PORT DETAIL SETTINGS

HTTP port
RTSP port

Save Settings Don't Save Settings

SECURITY

Helpful Hints...
Select 'DHCP Connection' if you are running a DHCP server on your network and would like an IP address assigned to your camera automatically.
- Enabling UPnP settings will allow you to configure your camera as an UPnP device in the network.
Port Detail Settings allow you to specify the ports you reserve for both HTTP and RTSP Streaming.
- HTTP Port is the port you allocate in order to connect to the camera via a standard web browser.
- RTSP Port is the port you allocate in order to connect to a camera by using streaming mobile device(s), such as a mobile phone or PDA.

Enable PPPoE: Enable this setting if your network is using PPPoE service.

User Name: The unique name of your account. You may obtain this information from your ISP.

Password: The password of your account. You may obtain this information from your ISP.

HTTP Port: The default value is 80.

RTSP port: The port number that you use for RTSP streaming to mobile devices, such as mobile phones or PDAs. The default port number is 554.

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 user name and password are required when using the DDNS service.

Enable DDNS: Select the checkbox to enable the DDNS function.

Server Name: Select your Dynamic DNS provider from the pull down menu or enter the server address manually.

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

User name: Enter your user name 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.

Product: DCS-6410 Firmware Version: 1.00

D-Link

DCS-6410 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Setup Wizard
Network Setup
Dynamic DNS
Image Setup
Audio and Video
Motion Detection
Time and Date
Recording
Snapshot
Digital Output
RS-485
Logout

DYNAMIC DNS

The Dynamic DNS feature allows you to use a domain name that you have purchased (www.yourdomain.com) to access your camera with a dynamically assigned IP address. Most broadband Internet service providers assign dynamic (changing) IP addresses. By using a DDNS service, you can enter your domain name to connect to your camera 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

DYNAMIC DNS SETTING

Enable DDNS

Server Address << Select Dynamic DNS Server

Host Name

User Name

Password

Verify Password

Timeout: 576 (hours)

Status:Disable

Save Settings Don't Save Settings

SECURITY

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.

Image Setup

In this section, you may configure the image settings for your camera. A preview of the image will be shown in the window of Live Video.

Brightness: An adjustable setting to compensate for backlit scenes.

Saturation: This setting controls the strength of color from black and white to bold colors.

Contrast: Allows for the measurement of color intensity or strength.

Hue: This setting controls the color tone.

The screenshot displays the D-Link web interface for the DCS-6410 camera. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' menu is expanded to show 'IMAGE SETUP' as the active option. A message states: 'Your changes made for the image settings will be reflected immediately. The results can be seen and found in the Live Video window below.' The 'LIVE VIDEO' window shows a camera feed with a timestamp '2000/01/20 03:57:41 DCS-6410'. Below the video, the 'IMAGE SETTINGS' section contains four dropdown menus: Brightness (50), Contrast (60), Saturation (50), and Hue (50). A 'Reset to Default' button is located at the bottom of the settings area. A 'Helpful Hints...' sidebar on the right provides definitions for Brightness, Saturation, Contrast, and Hue.

Helpful Hints...

Brightness - It is used to compensate for backlit scenes.

Saturation - Controls the strength of color from black and white to bold colors.

Contrast - Helps to improve the image under a dull grey sky.

Hue - Is the gradation of color.

Audio and Video

You may configure 4 video profiles with different settings for your camera. You may also set up different profiles for your computer and mobile display. In addition, you may configure the audio (speakers and microphone) settings for your camera.

Resolution: This option allows the user to choose the video resolution of the camera between 176x120, 352x240 and 704x480:

- QVGA @ 176x120 - Usually used for only displays of handheld devices.
- QVGA @ 352x240 - Standard solution for mobile phones and PDAs.
- VGA @ 704x480 - Standard solution for computer display.

FPS: (Frames Per Second): Highest FPS represents the maximum refresh rate when a picture is updated on the screen every second. This provides a better quality of video.

BPS: (Bits Per Second): BPS will affect the bit rate of the video recorded by the camera. A higher bit rate will increase the video quality.

RTSP URL: Is the URL name used to connect to the camera when viewing from a mobile device or PDA.

The screenshot shows the D-Link DCS-6410 web interface. The main content area is titled "AUDIO AND VIDEO" and contains the following sections:

- VIDEO PROFILE 1:** Encode Type: MPEG4, Resolution: 704x480, FPS: 30, bps: 1 Mbps, JPEG Quality: Standard, RTSP URL: play1.sdp
- VIDEO PROFILE 2:** Encode Type: MPEG4, Resolution: 352x240, FPS: 30, bps: 1 Mbps, JPEG Quality: Standard, RTSP URL: play2.sdp
- VIDEO PROFILE 3:** Encode Type: JPEG, Resolution: 704x480, FPS: 10, bps: --, JPEG Quality: Standard, RTSP URL: play3.sdp
- VIDEO PROFILE 4 FOR MOBILE DEVICE ONLY:** Encode Type: MPEG4, Resolution: 176x120, FPS: 5, bps: 2 Mbps, JPEG Quality: --, RTSP URL: 3gpp
- AUDIO SETUP:**
 - Enable Speaker:
 - Volume: 50
 - Enable Microphone:
 - Volume: 50

The sidebar on the right contains "Helpful Hints..":

- FPS - Frames per Second -** The amount of image frames rendered by the camera per second.
- bps - Bits per Second -** Higher value means a higher quality image but consumes more network bandwidth.
- JPEG Quality -** Is the image quality level of JPEG images captured.
- RTSP URL -** Is the URL used to connect to the camera when viewing from a mobile device or PDA. (i.e. rtsp://EXAMPLE.dlinkddns.com/3gpp).
- Most cell phones only support small resolutions such as 176x120 and low bitrates.
- We suggest using a resolution of 176x120 at 5 FPS and 20k BPS to watch images on your cell phone or pda.
- Enable Speaker -** will allow you to send audio from your PC's audio input to an external speaker connected to the camera.
- Enable Microphone -** will allow you to listen to audio from the camera's microphone through your PC's audio output.

Motion Detection

Enabling **Video Motion** will allow your camera to use the motion detection feature. You may also draw out the motion area for the monitoring.

Enable Video Motion: Check this option to turn on the motion detection feature for your camera.

Sensitivity: Allows you to set the measurable difference between two sequential images that would indicate motion.

Draw motion area: Select this option to draw out the motion detection area by dragging your mouse in the window (indicated by the red-colored box).

Erase motion area: Use this option to erase your motion detection area by dragging your mouse in the window.

Product: DCS-6410 Firmware Version: 1.00

D-Link

DCS-6410 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

MOTION DETECTION

In order to turn on motion detection, you must first select the checkbox to enable the motion detection feature. Then, you may draw out the monitoring areas.

Save Settings Don't Save Settings

LIVE VIDEO

Enable Video Motion
2008/09/02 18:32:32D DCS-6410

Sensitivity: 90 0~100%

Drawing Mode

Draw motion area
 Erase motion area

Clear

Save Settings Don't Save Settings

SECURITY

Helpful Hints..

Sensitivity - Set the sensitivity for motion detection.

High sensitivity makes the motions easier to be detected.

Draw motion area -
Drag your mouse to add motion detection range.

Erase motion area -
Drag your mouse to erase motion detection range.

Time and Date

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

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

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

Auto Daylight Saving: Select this option so that your camera will configure the Daylight Saving setting automatically.

Set date and time manually: Select this option so that you may configure the Daylight Saving date and time manually.

Offset: Sets the amount of time to be added or removed when Daylight Saving is enabled.

Synchronize with NTP server: Enable this feature to obtain time configuration automatically from the NTP server.

NTP Server: Network Time Protocol (NTP) synchronizes the DCS-6410 with an Internet time server. Choose the one that is closest to your location.

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.

The screenshot shows the D-Link DCS-6410 web interface. The top navigation bar includes 'DCS-6410', 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various setup options, with 'Time and Date' selected. The main content area is titled 'TIME AND DATE' and contains the following sections:

- TIME AND DATE:** A header section with the text 'Here you may configure the internal clock of your camera.' and two buttons: 'Save Settings' and 'Don't Save Settings'.
- TIME CONFIGURATION:** A section with a dropdown menu for 'Time Zone' set to '(GMT-08:00) Pacific Time (US & Canada)'. It includes a checked checkbox for 'Enable Daylight Saving' and two radio button options: 'Auto Daylight Saving' (selected) and 'Set date and time manually'. Below these are 'Offset' (set to '+1:00') and 'Start time' (3:00 on Sunday) and 'End time' (11:00 on Sunday) fields.
- AUTOMATIC TIME CONFIGURATION:** A section with a checked checkbox for 'Synchronize with NTP Server'. The 'NTP Server' field is set to 'ntp1.dlink.com' and there is a 'Select NTP Server' dropdown.
- SET DATE AND TIME MANUALLY:** A section with an unchecked checkbox for 'Set date and time manually'. It includes fields for 'Year' (2008), 'Month' (9), 'Day' (2), 'Hour' (18), 'Minute' (32), and 'Second' (51). A button labeled 'Copy Your Computer's Time Settings' is located below these fields.

At the bottom of the main content area, there are 'Save Settings' and 'Don't Save Settings' buttons. The footer of the interface displays 'SECURITY'.

Recording

This section allows you to configure and schedule the recording setting for your IP camera.

Enable Recording: Select this option to enable the recording feature.

Samba Auth: To access your account on the Samba network drive, enter your account and password or select anonymous.

Server: Enter the name of your Samba server.

Shared Folder: The name of the shared folder used for recording.

Test: Click this thumbnail to verify the connection status of your camera to the Samba network drive.

Samba Status: Displays the connection status that is determined by the system. You can click **Get Status** to refresh the status.

Resolution: Select your pre-defined profile from the drop-down menu.

When Storage is full: When the recording storage area is full, you may choose to stop recording, or recycle the recording files so that your camera can record the video continuously.

Continuous: Select to record continuously.

Event Based: Allows Recording when Motion Recording, Digital Input 1, or Digital Input 2 is triggered.

Prerecord: A preset amount of time before motion recording is triggered.

Postrecord: A preset amount of time after motion recording is triggered.

Scheduled: Select this option to manually configure the starting and ending time for the recording.

D-Link

DCS-6410 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

RECORDING

Here you may configure and schedule the recording of your camera.

Save Settings Don't Save Settings

RECORDING

Enable recording

Record to:

Samba network drive

Samba Auth: Anonymous

User name:

Password:

Password confirm:

Server:

Shared folder:

Test

Samba status: disabled Get status

Recording Options

Resolution: profile 1

Record until: 100 MB of free space is left (minimum is 32MB)

When storage is full:

Stop recording

Overwrite older recordings

Scheduling

Event Based

Motion detection triggered recording

Digital input 1 triggered recording

Digital input 2 triggered recording

Prerecord: 0 seconds (range 0 to 15 seconds)

Postrecord: 0 seconds (range 0 to 15 seconds)

Continuous (Samba only)

Scheduled (Samba only)

	Start	Hours	Minutes	End	Hours	Minutes
<input checked="" type="checkbox"/> Sun	Start	0	:	0	End	24 : 0
<input checked="" type="checkbox"/> Mon	Start	0	:	0	End	24 : 0
<input checked="" type="checkbox"/> Tue	Start	0	:	0	End	24 : 0
<input checked="" type="checkbox"/> Wed	Start	0	:	0	End	24 : 0
<input checked="" type="checkbox"/> Thu	Start	0	:	0	End	24 : 0
<input checked="" type="checkbox"/> Fri	Start	0	:	0	End	24 : 0
<input checked="" type="checkbox"/> Sat	Start	0	:	0	End	24 : 0

Helpful Hints...

Enable Recording will allow your camera to record the live video to a Samba network drive based on the selected events. To enable recording, select the Enable recording checkbox. Then, select a Scheduling method to specify when the camera will record the video.

Snapshot

Enable the **Snapshot** feature so that your camera can take snapshots and send it to your email address or FTP server.

Enable Snapshot: Select to enable or disable snapshot event.

Trigger Event: Select one or more of the events, such as Motion Detection, D/I Signal 1 and D/I Signal 2 for the source that triggers the action.

E-mail Address: Select this option if you want to receive snapshot images via e-mail.

FTP Server: Select this option if you want to receive your snapshot images via FTP.

Host name: The host name of your FTP server.

Path: The directory or path where the images will be uploaded to (for example: \pub\images).

Prefix Filename: The prefix that will be added to the filename of each file.

Port: The port of the FTP server. The default port is 25.

Passive mode: Some FTP servers allow clients to use passive mode when connecting to an FTP, which uses random ports for transfers.

D-Link

DCS-6410 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

SNAPSHOT

In order to enable your camera to take snapshots, you must select the checkbox of Enable Snapshot. Then, you can determine the trigger event(s) and configure the settings of your FTP and/or email notification(s).

Save Settings Don't Save Settings

TRIGGER

Enable Snapshot

Trigger Event

Motion Detection

D/I Signal 1

D/I Signal 2

Send to:

E-mail Address

User Name

Password

SMTP Mail Server

Sender E-mail Address

Recipient E-mail Address

Port (range 1 to 65535)

FTP Server

User Name

Password

Host Name

Path

Filename Prefix

Port (range 1 to 65535)

Passive Mode

Helpful Hints...

You can choose to receive notifications by FTP and/or E-mail.

Digital Output

You may enable the **Digital Output (DO)** feature and configure the source of event for your camera.

Enable D/O This enables the D/O to send a signal when there **signal:** is a triggered event.

Trigger Event: You can choose from one or up to three events, such as **Motion Detection**, **D/I Signal 1**, and **D/I Signal 2** for the sources of the triggered events.

Product: DCS-6410 Firmware Version: 1.00

D-Link

DCS-6410 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Setup Wizard
Network Setup
Dynamic DNS
Image Setup
Audio and Video
Motion Detection
Time and Date
Recording
Snapshot
Digital Output
RS-485
Logout

DIGITAL OUTPUT
Here you can enable your D/O port as well as how the event will be triggered.
Save Settings Don't Save Settings

TRIGGER
 Enable D/O Signal
Trigger Event
 Motion Detection
 D/I Signal 1
 D/I Signal 2
Save Settings Don't Save Settings

Helpful Hints..
You may choose a trigger event like Motion detection or triggers from the D/I port. When an event is triggered, the D/O will begin sending a signal.

SECURITY

RS-485

You may configure the **RS-485** settings or communication specifications (baud rate, data bit, stop bit, and parity bit) for your camera. RS-485 is a serial communication method for computers and devices. For your camera, the RS-485 is used to control a PAN/TILT device, such as an external camera enclosure, to perform PAN and TILT movement.

Support PAN-TILT: When enabling Support PAN-TILT, a control panel **TILT:** will be displayed on the Live Video page allowing control through RS-485 for an external camera enclosure.

Protocol: Select one protocol type from the pull-down menu.

ID: Range from **1** to **255**, is the identifier for each RS-485 devices.

Baud Rate: Range from **2400** to **38400** bps. It is a speed measurement for communication between a transmitter and receiver, indicates the number of bit transfers per second. Higher baud rate will reduce the distance of the two devices (transmitter and receiver). By default, the value is **2400**.

Data Bit: Either **7** or **8**. It is a measurement of the actual data bits in a transmission. By default, the value is **7**.

Stop Bit: Either **1** or **2**. It is used to signal the end of communication for a single packet. The more bits used for stop bits, the greater the lenience in synchronizing the different clocks, but the slower the data transmission rate. By default, the value is **1**.

Parity Bit: Choices of **No**, **Even**, and **Odd**. It is a simple form of error checking used in serial communication and you may use no parity. For even and odd parity, the serial port sets the parity bit (the last bit after the data bits) to a value to ensure that the transmission has an even or odd number of logic-high bits.

For example, if the data is 011, for even parity, the parity bit is 0 to keep the number of logic-high bits even. If the parity is odd, the parity bit is 1, resulting in 3 logic-high bits.

The screenshot shows the D-Link web interface for the DCS-6410 camera. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' menu is expanded to show 'RS-485'. The 'RS-485' configuration page has a 'Support PAN-TILT' checkbox that is checked. Below it are the following settings:

- Protocol:** Pelco-D (dropdown menu)
- ID:** 1 (text input field)
- Baud Rate:** 2400 (dropdown menu)
- Data Bits:** 7 (selected radio button), 8 (radio button)
- Stop Bit:** 1 (selected radio button), 2 (radio button)
- Parity Bit:** No (selected radio button), Even (radio button), Odd (radio button)

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

ID value is between 1 and 255, ID is used to identify RS-485 device.

Stop bit can be set to either 1 bit or 2 bits.

When enabling Support PAN-TILT a control panel will be displayed on the Live Video page allowing control through RS-485 for an external camera enclosure.

Protocol - Select the PTZ standard used to connect a PTZ scanner via the serial interface: RS-485.

Baud Rate - Select the desired baud rate for the device you connected.

Stop Bit - Select the desired stop bits for the device you connected.

Data Bits - Select the desired data bits for the device you connected.

Parity Bit - Select the desired parity type for the device you connected.

Maintenance

Device Management

You may modify the name and administrator's password of your camera, as well as add and manage the user accounts for accessing the camera. You may also use this section to create the unique name and configure the OSD setting for your camera.

Admin password setting: Set a new password for the administrator's account.

Add user account: Add new user account.

User name: Enter a user name for the new account.

Password: Enter a password for the new account.

User List: All the existing user accounts will be displayed here. You may delete any accounts included in the list.

Camera Name: Create a unique name for your camera to access the camera in your web-browser. For example: **DCS-6410** (By default).

Enable OSD: Select this option to enable the On-Screen Display feature for your camera.

Label: Enter the label name.

Show time: Select this option to enable the time-stamp display in the video screen.

The screenshot shows the D-Link DCS-6410 web interface. At the top, it displays 'Product: DCS-6410' and 'Firmware Version: 1.00'. The main navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'MAINTENANCE' tab is active, showing the 'DEVICE MANAGEMENT' section. This section contains four sub-sections: 'ADMIN PASSWORD SETTING', 'ADD USER ACCOUNT', 'USER LIST', and 'DEVICE SETTING'. The 'ADMIN PASSWORD SETTING' section has input fields for 'New Password' (30 characters maximum) and 'Retype Password', with a 'Save' button. The 'ADD USER ACCOUNT' section has input fields for 'User Name' (20 users maximum), 'New Password' (30 characters maximum), and 'Retype Password', with an 'Add' button. The 'USER LIST' section shows a table with 'User Name' and a 'Delete' button. The 'DEVICE SETTING' section has input fields for 'Camera Name' (36 characters maximum), 'Label', and 'Show time' (checked), and radio buttons for 'LED light' (On/Off), with a 'Save' button. A 'Helpful Hints..' section on the right provides security advice and OSD information.

Backup and Restore

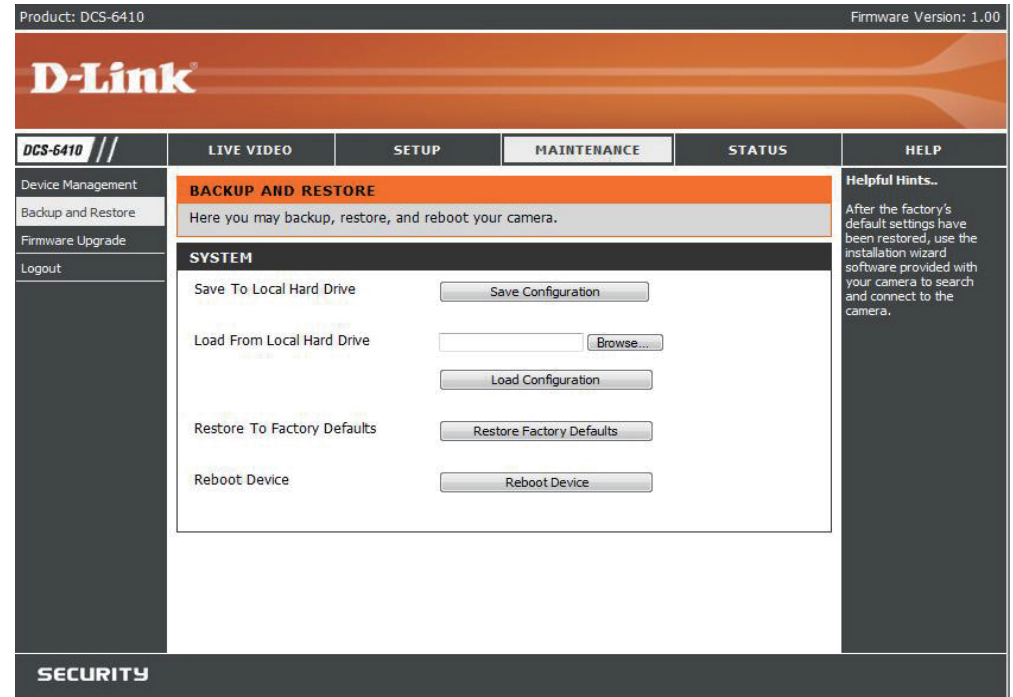
In this section, you may backup, restore, and reset the settings as well as reboot your camera.

Save To Local Hard Drive: You may save and document your current configuration settings into your computer.

Load From Local Hard Drive: Locate a pre-saved configuration file by clicking **Browse** and then restore the pre-defined settings to your camera by clicking **Load Configuration**.

Restore To Factory Default: You may reset your camera and restore the factory settings to your camera by clicking **Restore Factory Defaults**.

Reboot Device: This will restart your camera.



Firmware Upgrade

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-6410, 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 Product Name: Will display the name of the existing product.

File Path: Locate the file (upgraded firmware) on your hard drive by clicking **Browse**.

Upload: Start uploading the new firmware to your camera.

Product: DCS-6410 Firmware Version: 1.00

D-Link

DCS-6410 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Device Management
Backup and Restore
Firmware Upgrade
Logout

FIRMWARE UPGRADE

A new firmware upgrade may be available for your IP camera. It is recommended to keep your IP camera 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 IP camera, 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.

FIRMWARE INFORMATION

Current Firmware Version: 1.00
Current Product Name: DCS-6410

FIRMWARE UPGRADE

File Path:

Helpful Hints..

Firmware upgrade 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 [here](#) to check for an upgrade and see if updated firmware is available for your IP camera.

SECURITY

Status

Device Info

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

Product: DCS-6410
Firmware Version: 1.00

D-Link

DCS-6410 //
LIVE VIDEO
SETUP
MAINTENANCE
STATUS
HELP

Device Info

Log

Logout

DEVICE INFO

All of your network connection details are displayed on this page. The firmware version is also displayed here.

INFORMATION

Camera Name	DCS-6410
Time & Date	Wed Sep 3 18:36:30 2008
Firmware Version	1.00, 2023_FIX_MIC_BOOST
MAC Address	00:03:1B:58:EF:3B
IP Address	192.168.0.102
IP Subnet Mask	255.255.255.0
Default Gateway	192.168.0.1
Primary DNS	192.168.0.1
Secondary DNS	
PPPoE	Disable
DDNS	Disable

Helpful Hints..

This page displays all the information about the camera and network settings.

SECURITY

Log

This page displays the log information of your camera. You may also download the information by clicking **Download**.

Product: DCS-6410 Firmware Version: 1.00

D-Link

DCS-6410 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Device Info
Log
Logout

SYSTEM LOG
The system log records camera events that have occurred.

CURRENT LOG
2008-09-03 14:23:41 Motion is detected.
Clear Download

Helpful Hints..
You can save the log to your local hard drive by clicking the Download button, and you can clear the log by clicking on the Clear button.

SECURITY

Help

Product: DCS-6410 Firmware Version: 1.00

D-Link

DCS-6410 //	LIVE VIDEO	SETUP	MAINTENANCE	STATUS	HELP
<p>Help Menu</p> <p>Logout</p>	<div style="background-color: #e67e22; color: white; padding: 2px;">HELP MENU</div> <ul style="list-style-type: none"> LIVE VIDEO SETUP MAINTENANCE STATUS 				
<div style="background-color: #34495e; color: white; padding: 2px;">LIVE VIDEO</div> <ul style="list-style-type: none"> Camera 					
<div style="background-color: #34495e; color: white; padding: 2px;">SETUP</div> <ul style="list-style-type: none"> Setup Wizard Network Setup Dynamic DNS Image Setup Audio And Video Motion Detection Time and Date Recording Snapshot Digital Output RS-485 					
<div style="background-color: #34495e; color: white; padding: 2px;">MAINTENANCE</div> <ul style="list-style-type: none"> Device Management Backup and Restore Firmware Upgrade 					
<div style="background-color: #34495e; color: white; padding: 2px;">STATUS</div> <ul style="list-style-type: none"> Device Info Log 					
SECURITY					

Troubleshooting

1. What is a Network Camera?

The Network Camera is a stand-alone system connecting directly to an Ethernet or Fast Ethernet network. It differs from a conventional PC Camera; the Network Camera is an all-in-one system with built-in CPU and Web-based solutions providing a low cost solution that can transmit high quality video images for monitoring. The Network Camera can be managed remotely, accessed, and controlled using any PC/Notebook over an Intranet or the Internet from a Web browser.

2. What is the maximum number of users that can be allowed to access DCS-6410 simultaneously?

The maximum number of users that can log onto the Network Camera at the same time is 10. Please keep in mind the overall performance of the transmission speed will slow down when many users are logged on.

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

The Network Camera utilizes MPEG-4, simple profile image compression technology, to provide high quality images.

4. Can I capture still images from the Network Camera?

Yes, you are able to capture still images with the snapshot function from the software application CD supplied with the Network Camera or with the snapshot function on the Home page using an Internet browser.

5. Can the Network Camera be used outdoors?

The Network Camera is not weatherproof. It needs to be equipped with a weatherproof case to be used outdoors and it is not recommended.

6. When physically connecting the Network Camera to a network, what network cabling is required?

The Network Camera uses Category 5 UTP cable allowing 10 Base-T and 100 Base-T networking.

7. Can the Network Camera be setup as a PC-cam on a computer?

No, the DCS-6410 Network Camera is used only on a Ethernet or Fast Ethernet network.

8. Can the DCS-6410 be connected to the network if it consists of only private IP addresses?

Yes, the Network Camera can be connected to a LAN with private IP addresses.

9. Can the DCS-6410 be installed and work if a firewall exists on the network?

If a firewall exists in the network, port 80 is open for ordinary data communication. The DCS-6410 uses port 554 for streaming audio and video. These ports, or the ports you specify from the Advanced Tab in the Configuration screen need to be opened in the firewall.

10. Why am I unable to access the DCS-6410 from a Web browser?

If a router or firewall is used on the network, the correct ports for the DCS-6410 may not be configured on the router or firewall. To correct the problem, you need to determine if the DCS-6410 is behind a router or firewall and if the router or firewall is properly configured for the ports the DCS-6410 is using. 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 Network Camera might be faulty.

11. Why does the Network Camera work locally but not externally?

This might be caused by network firewall protection. The firewall may need to have some settings changed in order for the Network Camera to be accessible outside your local LAN. Check with the Network Administrator for your network.

Make sure that the Network 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 allow the Network Camera to be accessed outside your local LAN.

12. 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 Network Camera image display is incorrect. Through the Advanced > Image Setting section of the Web management you need to adjust the image related parameters such as brightness, contrast, hue 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.

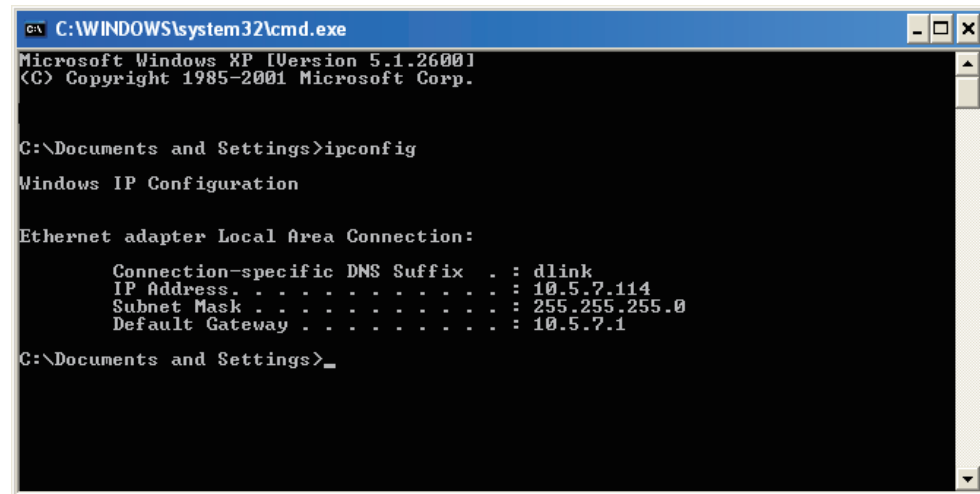
Click on **Start > Run**. In the run box type *cmd* and click **OK**.

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 router. Some firewall software programs may block a DHCP request on newly installed adapters.

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.



```
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>_
```


Statically Assign an IP address

If you are not using a DHCP capable gateway/router, 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

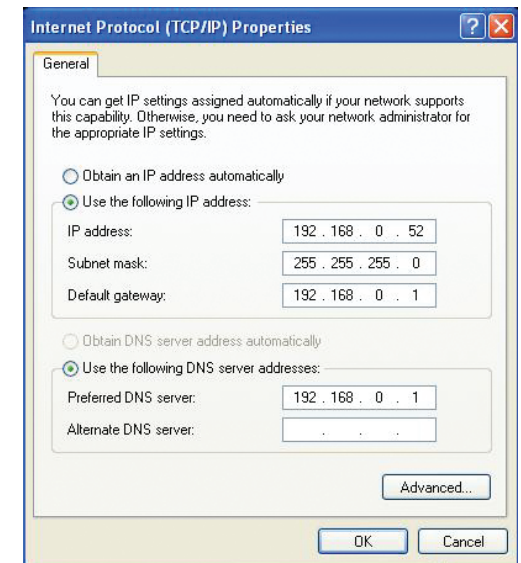
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the 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 router (192.168.0.1).

Set Primary DNS the same as the LAN IP address of your router (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

NETWORK PROTOCOL SUPPORT

- TCP/IP, RTSP, RTP, RTCP, HTTP, SMTP, FTP, NTP, DNS, DHCP, UPnP, DDNS, PPPoE, ICMP, Samba client, 3GPP

BUILT-IN NETWORK INTERFACES

- 10/100BASE-TX Ethernet port

VIDEO ALGORITHM SUPPORT

- JPEG for still image
- MPEG4/MJPEG dual format compression

VIDEO RESOLUTION

- 420 TV lines
- Up to 30 frames at 704 x 480 / 352 x 240 / 176 x 120 (NTSC)
- Up to 25 frames at 704x576 / 352x288 / 176x144 (PAL)

VIDEO FEATURES

- Adjustable image size and quality
- Time stamp and text overlays
- Configurable motion detection windows

VIDEO ELECTRONIC SHUTTER

- NTSC: 1/60 ~ 1/100,000 sec.
- PAL: 1/50 ~ 1/110,000 sec.

3A CONTROL

- AGC, AWB, AES

VIDEO BIT RATE

- 20K to 2M

MIC Input Impedance

- 4.4k Ohm

AUDIO/VIDEO OUT

- Yes

RESET BUTTON

- Reset to factory default

I/O CONNECTOR

- 2 Inputs (Photo relay, Active High: Dropout: 0 VDC)
- 1 Output (photo relay, Close circuit current: AC 70mA or DC 100mA, 40Ohm; Open circuit voltage: 240 VAC or 350VDC)

RS 485

- 2 pin (485A,485B) (Supported to control external Pan-Tilt device)

SDRAM

- 64M

FLASH MEMORY

- 8 Mbytes

AUDIO SAMPLE RATE

- GSM-AMR: 12.20kbps, PCM: 8Kbps

IR FUNCTIONS

- IR Led Count: 6
- IR distance up to 15M

CAMERA SPECIFICATIONS

- 1/3" SONY CCD SENSOR, INTERLACE SCAN MODE
- 0.1 lux @ F1.6, IR / 0 lux
- 4.3mm, F1.6

LAN

- 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)

PHYSICAL & ENVIRONMENTAL

DIAGNOSTIC LED

- 2 color LED
- Pan Range 170 ~ -170
- Tile Range 60 ~ -15

POWER INPUT

- 100-240VAC, 50/60Hz 12VDC 1.25A

POWER CONSUMPTION

- 11.04W
- Input: 100-240VAC, 50/60Hz
- Output: 12VDC, 1.25A

DIMENSIONS (WxDxH)

- 7.68 (W) x 7.09 (H) x 4.33 in (H) (195 x 180 x 110mm)

WEIGHT

- 0.58kg

SECURITY

- Administrator and user group protected
- Password authentication

SURVEILLANCE SOFTWARE FUNCTIONS

- Remote management/control of up to 32 cameras
- Viewing of up to 32 cameras on one screen
- Supports all management functions provided in web interface
- Scheduled motion triggered, or manual recording options

REMOTE MANAGEMENT

- Configuration accessible via web browser
- Take snapshots/video clips and save to local hard drive via web browser or NAS

SURVEILLANCE

(Motion detection weekly schedule)

- Upload snapshots via email
- Upload snapshots via FTP

SYSTEM REQUIREMENTS

- Operating System: Microsoft® XP, Vista®
- Browser: Internet Explorer Version 6 above, Firefox 2.0 above, Safari 2.0 above

SUPPORTED SOFTWARE

- Handsets with 3GPP player
- Packet Video Player 3.0
- QuickTime 6.5
- Real Player 10.5

OPERATION TEMPERATURE

- 0° to 40° C (32° to 104° F)

STORAGE TEMPERATURE

- -20° to 70° C (-4° to 158° F)

HUMIDITY

- 20% to 80% non-condensing

EMISSION (EMI), SAFETY & OTHER CERTIFICATIONS

- FCC
- CE
- C-Tick