

DCS-3411/DCS-3430

Version 1.10

PoE Day & Night Network Camera
(DCS-3411)

802.11n Day & Night Network Camera
(DCS-3430)

 **User Manual**

Business Class Networking

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Package Contents

- D-Link DCS-3411/3430 Day & Night Network Camera
- CAT5 Ethernet Cable
- Power Adapter
- Manual and Software on CD
- Quick Install Guide
- Camera Stand
- Two Antennas (DCS-3430 only)

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® 7, XP, or Windows Vista®
- At least 256MB of memory (512MB recommended)
- An available Ethernet connection
- Wireless 802.11n network (for DCS-3430 only)
- 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 software)

Introduction

The D-Link DCS-3411/3430 Day & Night Network Camera is a powerful surveillance system that can connect to your network. The DCS-3411/3430 differs from a conventional PC Camera because it is a stand-alone system with a built-in CPU and Web server, providing low-cost solution capable of solving demanding security and home/office monitoring needs. It is designed with an aluminum cast 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. H.264 can reduce the size of video stream around 80% compared with the Motion JPEG and as much as 50% when compared with MPEG4. Using less network bandwidth and storage space allows the DCS-3411/3430 to be a very cost effective network camera. With 0.5 lux light sensitivity, the DCS-3411/3430 is capable of capturing video in rooms with minimal lighting. With optional Day & Night Auto Iris lens, IR LED lens or night vision illuminator, you can customize your surveillance application to enable low light or night vision video streaming. You can also zoom in using the DCS-3411/3430's 16x digital zoom feature. The DCS-3411/3430 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.*

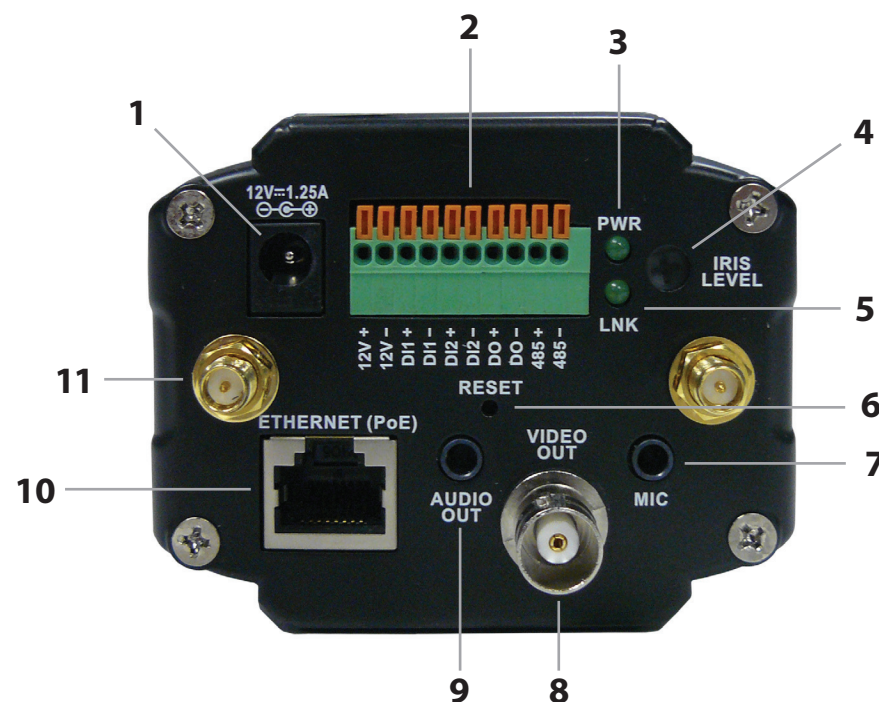
¹Optional accessories for Day & Night Morning and night version surveillance are available.

²16x digital zoom enlarges an image by magnifying the pixels in a selected portion of the image by 16 times.

Features

- **Multiple Stream Types:** Choose between H.264 / MPEG4 / MJPEG depending on the type of application the camera is being used for. When using H.264 you can reduce the bandwidth and storage needs by up to 80% when compared to MJPEG or by up to 50% when compared with MPEG4.
- **Supports a Variety of Protocols:** Supporting TCP/IP networking, SMTP e-mail, HTTP and other Internet related protocols, the DCS-3411/3430 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 and 16x Digital Zoom:** The DCS-3411/3430's 0.5 lux light sensitivity allows you to capture video in rooms with minimal lighting, making it ideal for use at night time. The camera also features 16x digital zoom for closer viewing.
- **Optional Day & Night Auto iris lens, IR LED Lens or night vision illuminator²,** you can customize your surveillance application to enable low light or night vision video streaming.
- **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 20 accounts with different settings can be created and controlled by the administrator.
- **Built-in BNC (Bayonet Neil-Concelman) connector** is used for professional video connections. It benefits users who integrate digital IP camera into traditional system (CCTV) for both analog and digital video streaming purposes.
- **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-3411/3430 allows remote access using an Internet Explorer or 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



1	Power Receptor	Connects to the supplied power adapter.
2	DI/DO Wiring	I/O connectors for external devices.
3	Power LED	The power LED is on the back of the camera. As soon as the power adapter is connected to the camera, the LED will turn green.
4	Iris Level	Used only when the DC-Iris lens is connected. When adjusting the Iris level, you can determine the brightness of the video images.
5	Link LED	A solid green light indicates a connection to an Ethernet device. The light will blink during data transmission.
6	Reset Button	Reset will be initiated when the reset button is pressed once and held until the Power LED flashes through its cycle twice.
7	Microphone Port	Use to connect an external microphone.
8	BNC Connector	The BNC connector is used for professional video connections. It benefits users who integrate digital IP camera into traditional system (CCTV) for both analog and digital video streaming purpose.
9	Audio Out Port	Use to connect external speakers to provide 2-way communication
10	Ethernet Jack	RJ-45 connector for Ethernet which can also be used to power the camera using Power over Ethernet (DCS-3411 only)
11	Antenna Connector	Connect wireless antennas (DCS-3430 only).

Hardware Installation

Attach the Antennas (DCS-3430 only)

Locate the antennas included with your DCS-3430, and attach them to the antenna connectors located on the back of the DCS 3430.



Connect the Ethernet Cable

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



Attach the External Power Supply

Attach the external power supply to the DC power input connector located on the Network 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 Network Camera.

Connect Using Power-Over-Ethernet

Once you connect an Ethernet cable to your PoE switch or adapter, the Power LED on the DCS-3411/3430 will turn green to indicate a proper connection.



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



Socket for camera stand

Software Installation

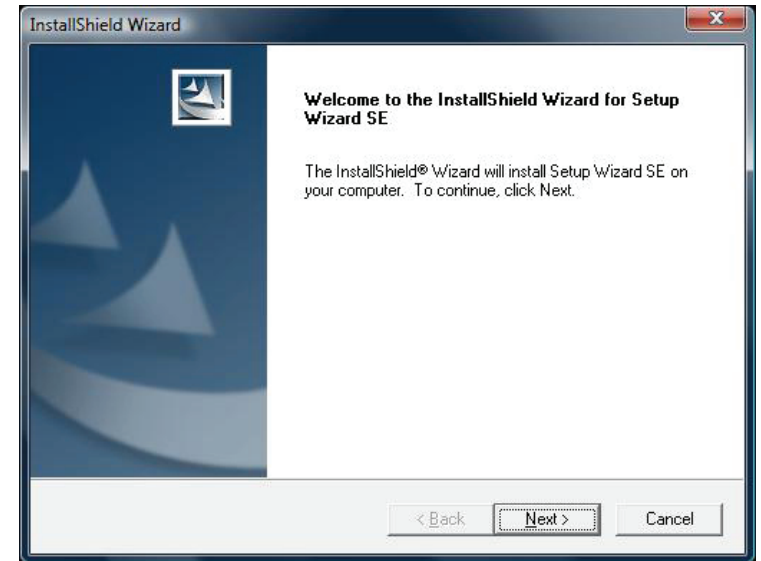
Turn on the computer and Insert the D-Link DCS-3411/3430 Driver CD in the CD-ROM drive. The step-by-step instructions that follow are shown in Windows® XP. The steps and screens are similar for the other Windows operating systems.

Click **Setup Wizard**

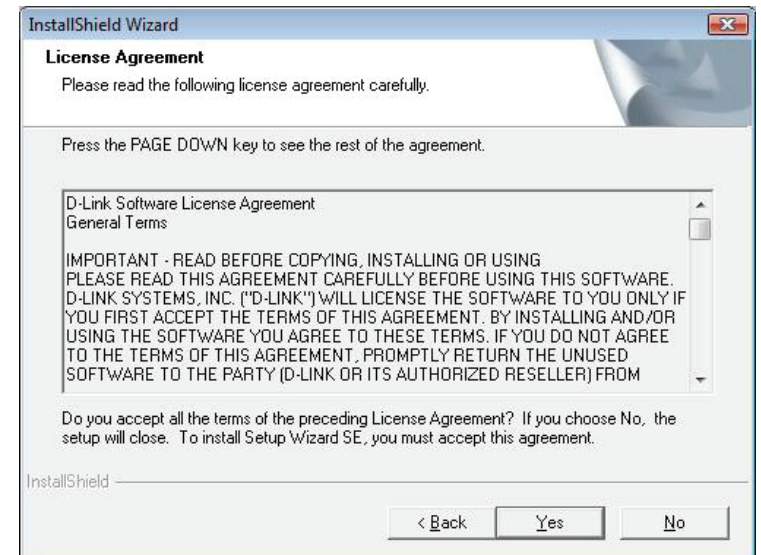


If the CD Autorun function does not automatically start on your computer, click **Start** > **Run**. In the Run command box type "**D:\autorun.exe**", where D: represents the drive letter of your CD-ROM. If it does start, proceed to the next screen.

Click **Next** to continue.

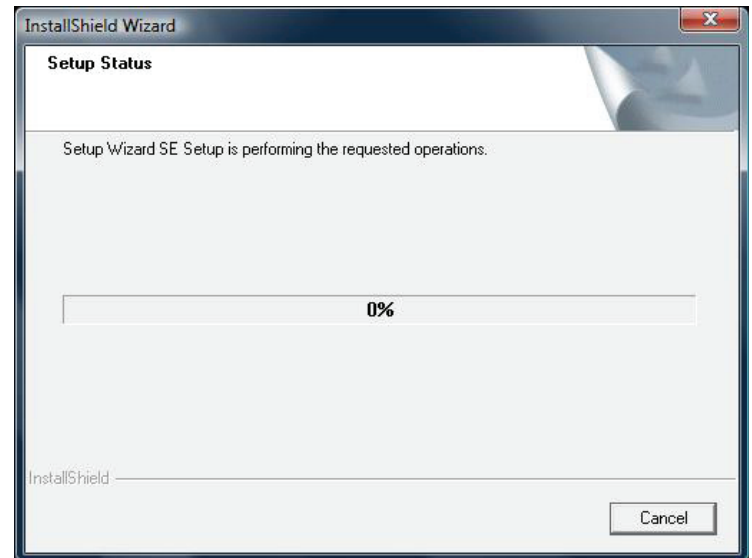
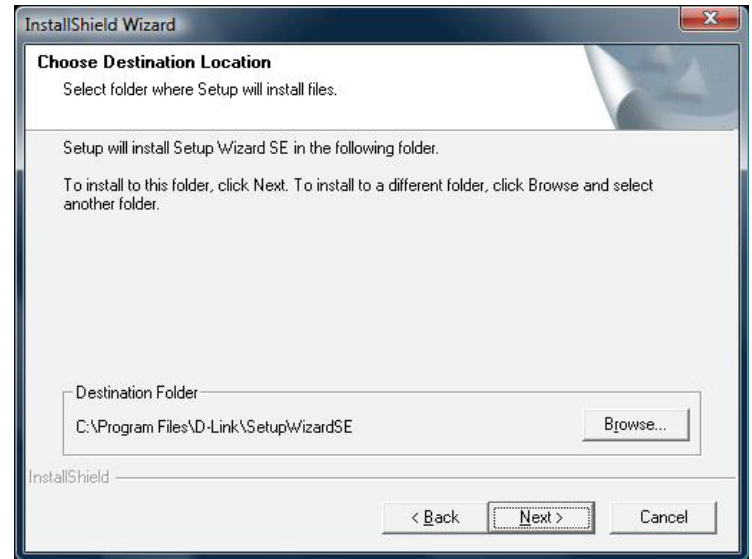


Click **Yes** to accept the License Agreement.

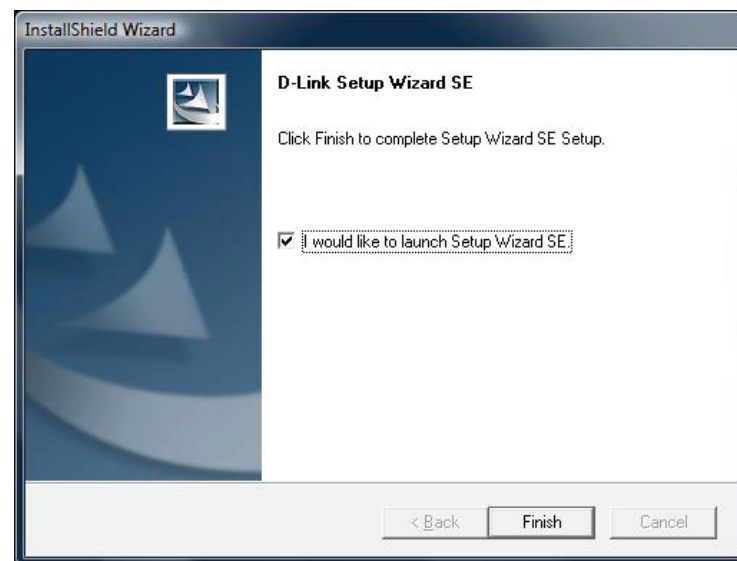


To start the installation click **Next**.

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



Click **Finish** to complete the installation.

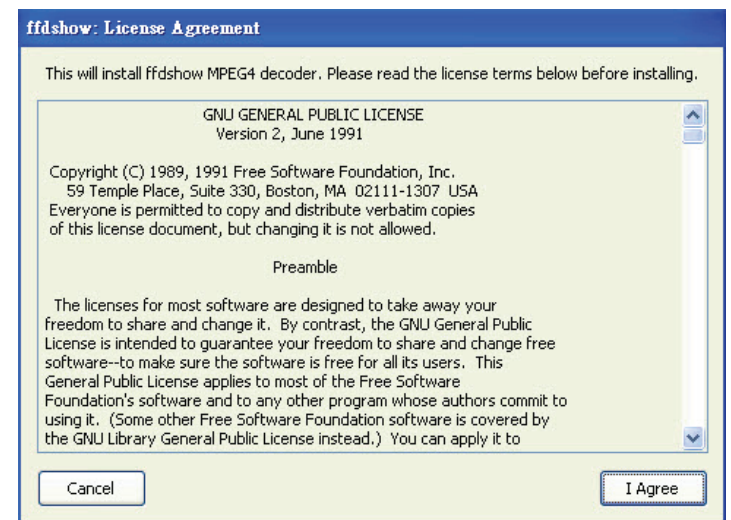


Now, click on **ffdshow** from the autorun screen. This will install the proper codecs that will allow you to playback video taken by the DCS-3411/3430.

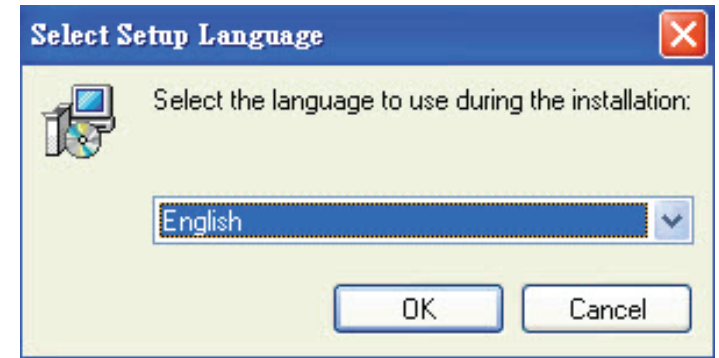
Click **ffdshow**



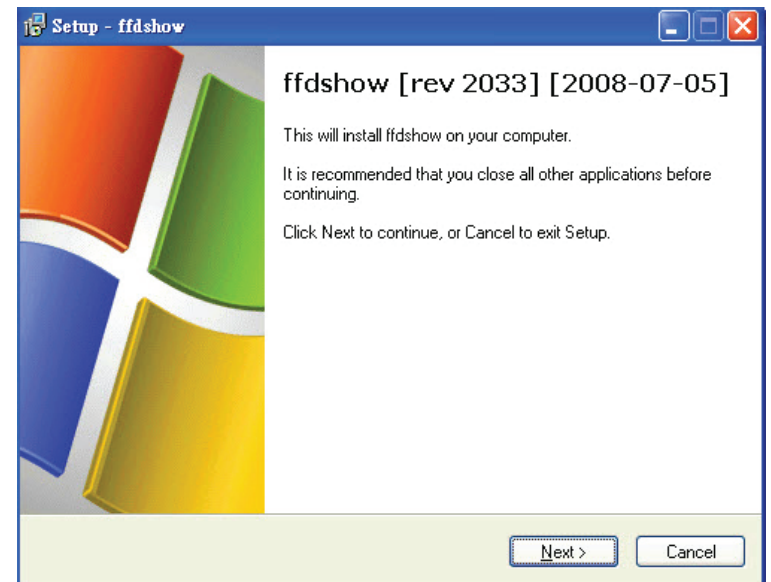
Click **I Agree** to continue.



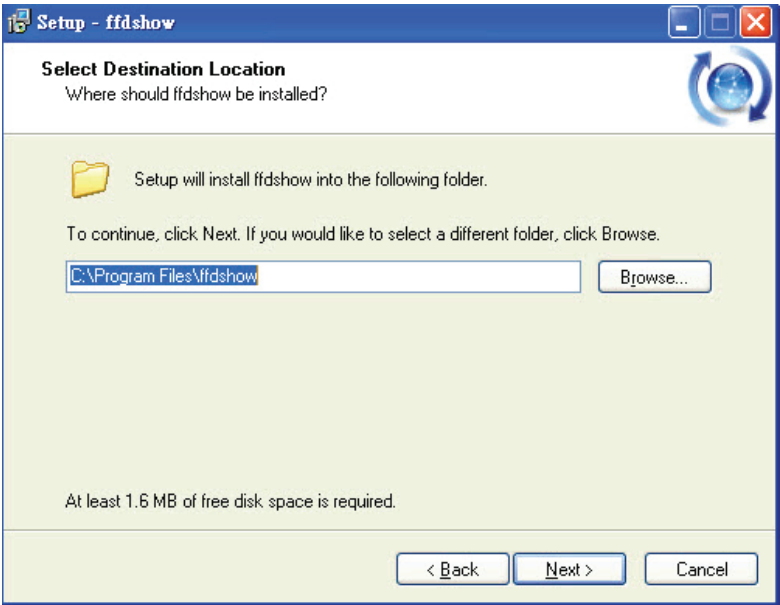
Select your language and click **OK**.



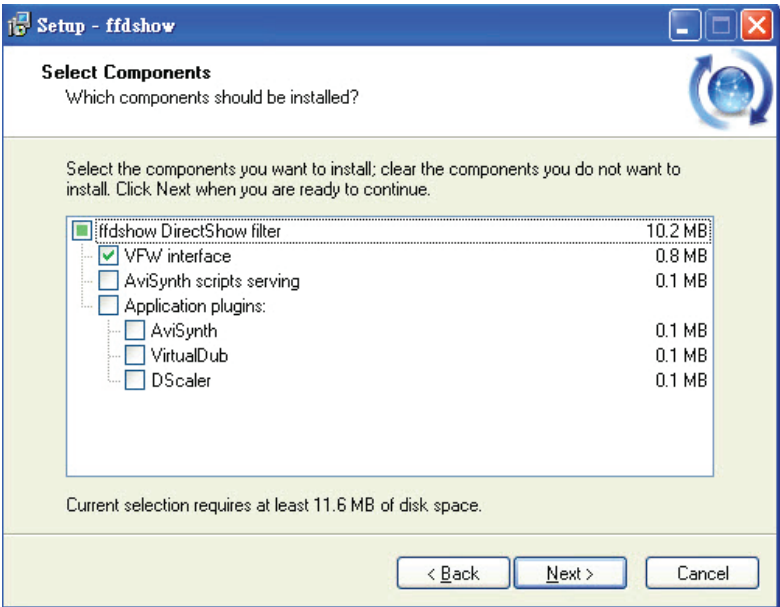
Click **Next** to continue.



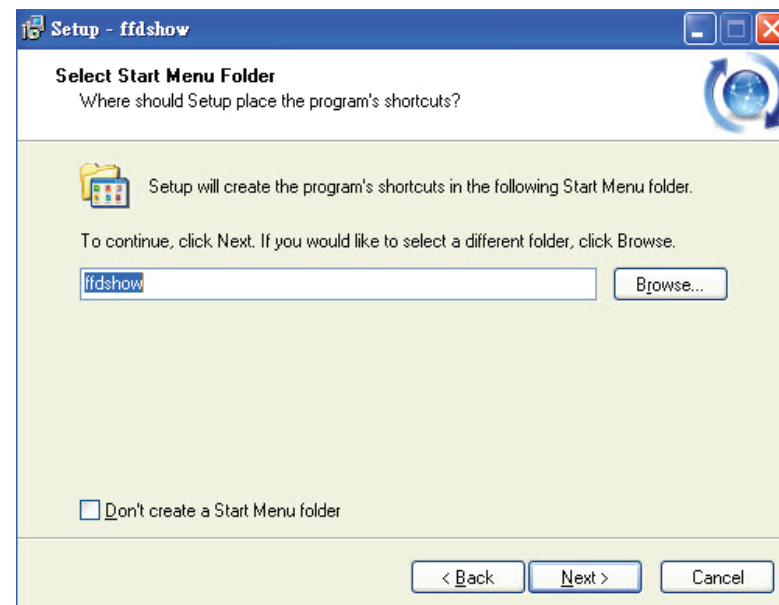
Select the location you want to install to and click **Next** to continue.



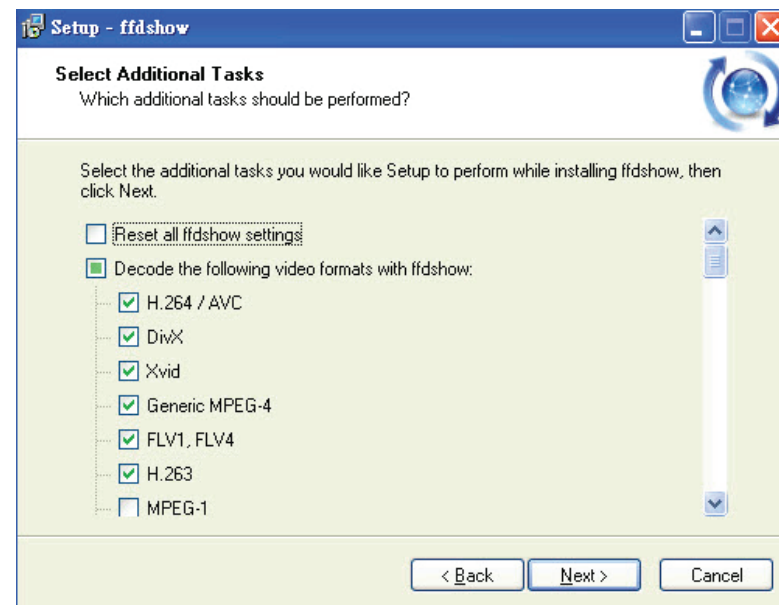
Click **Next** to continue.



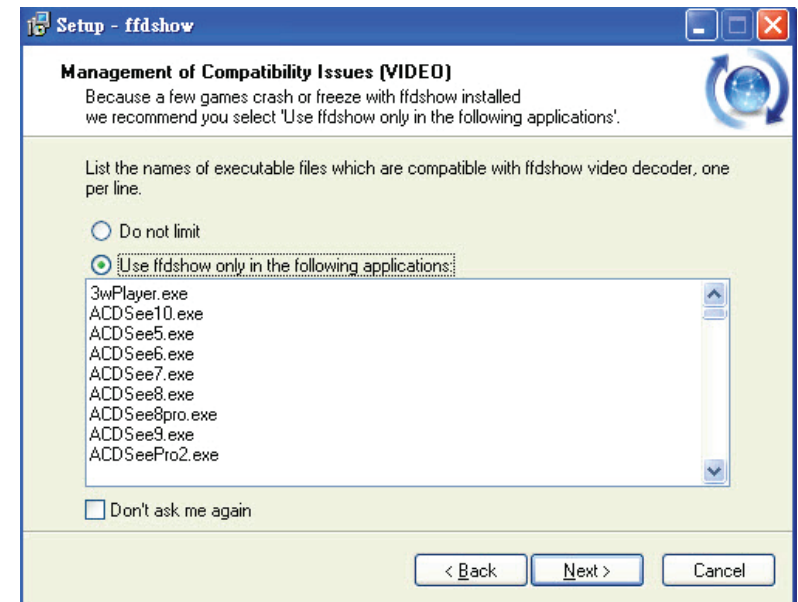
Click **Next** to continue.



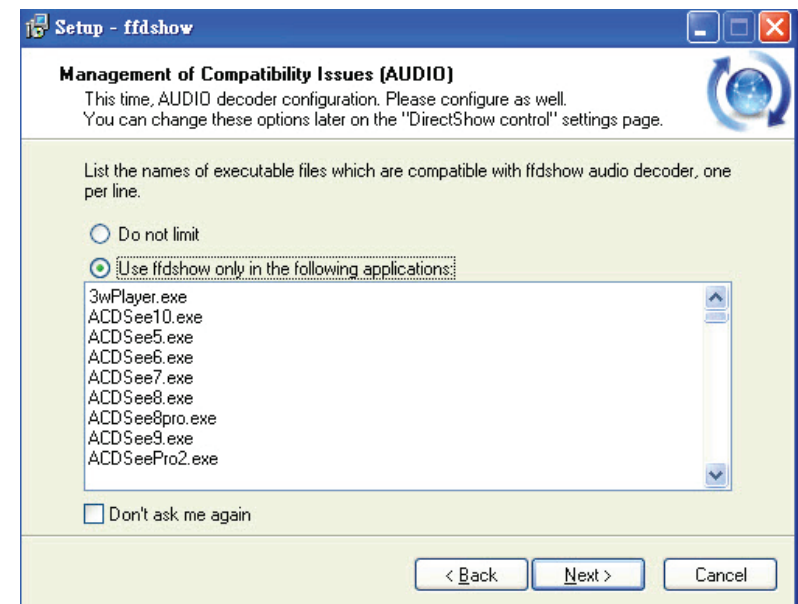
Click **Next** to continue.



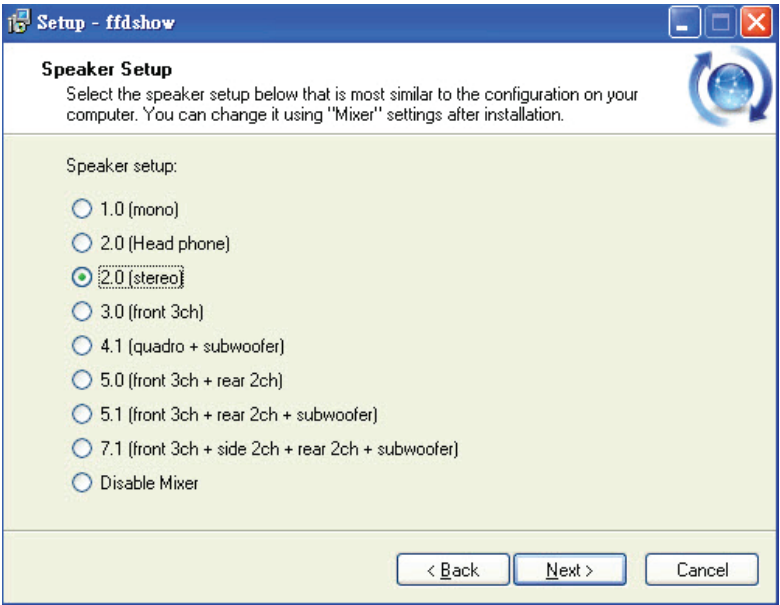
Click **Next** to continue.



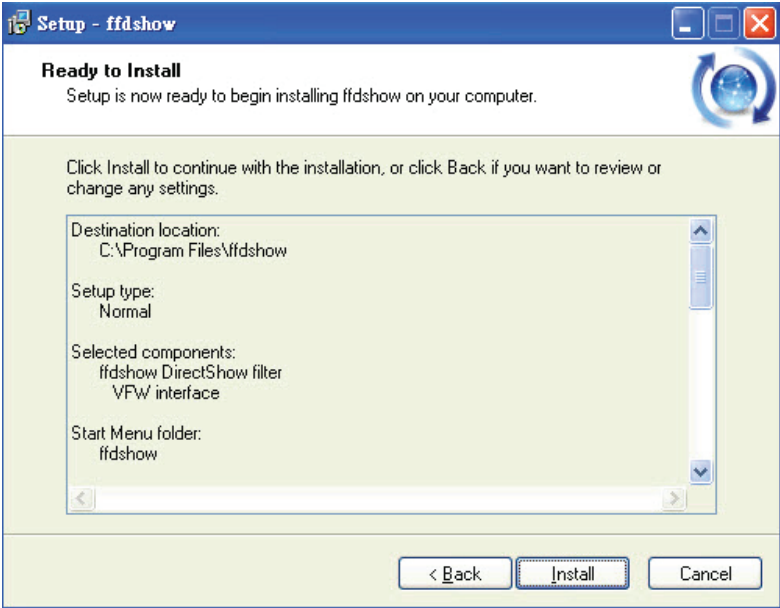
Click **Next** to continue.



Click **Next** to continue.



Click **Next** to continue.



Once ffdshow is finished installing, click **Finish**.

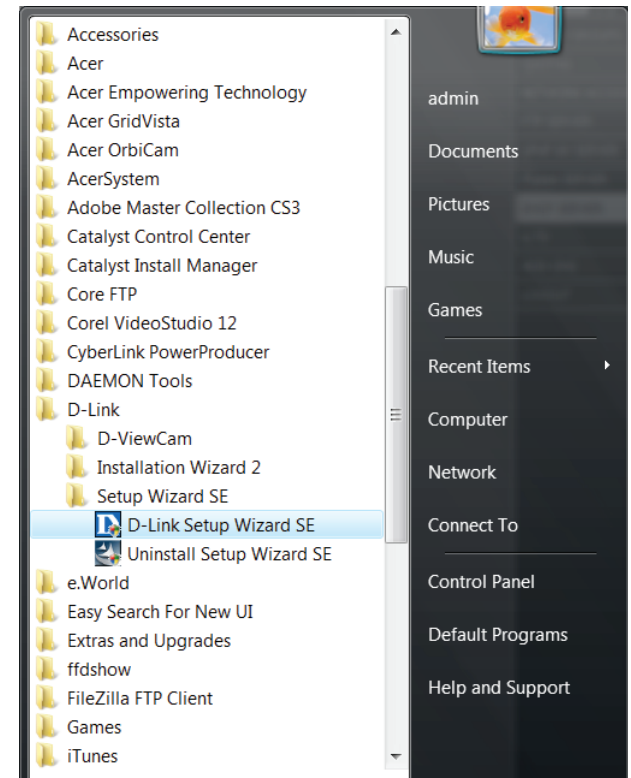


Configuration

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

Setup Wizard Configuration

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



Section 3 - Configuration

The Setup Wizard will appear and show the MAC address of the DCS-3411/3430 and an IP Address (which may or may not be correct depending on what you have your DCS-3411/3430 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. On the left, there is a vertical menu with buttons: Wizard, Search, Link, About, and Exit. The main area displays a table with the following data:

MAC Address	Current IP Address	Device Name
00.22.b0.e5.d4.7f	192.168.1.195	DCS-1130
00.03.1b.58.91.43	192.168.1.196	DCS-3411

Enter the admin ID and password.

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



The screenshot shows the D-Link SECURICAM Network Admin Setup screen. It prompts the user to "Set up an Admin ID and Password to secure your camera. Click Next to continue." The form includes the following fields and options:

- Admin ID:
- Password:
- ☐ Change (checkbox group)
- New ID:
- Reconfirm:
- New Password:
- Reconfirm:

At the bottom right, there are three buttons: Back, Next, and Exit.

Section 3 - Configuration

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



The screenshot shows the 'Set IP Address' configuration screen for a D-Link SECURICAM Network. The 'DHCP' option is selected with a radio button. Below it, the 'Static IP' option is also visible but unselected. There are five input fields for 'IP Address', 'Subnet Mask', 'Default Gateway', 'Primary DNS', and 'Secondary DNS', all of which are currently empty. At the bottom right, there are three buttons: 'Back' (with a left arrow), 'Next' (with a right arrow), and 'Exit' (with a red 'X').

Select static IP to use the same IP address at each boot up. Click **Next** to continue.



This screenshot is identical to the one above, showing the 'Set IP Address' screen. However, the 'Static IP' option is now selected with a radio button, and the 'DHCP' option is unselected. The input fields for IP configuration remain empty, and the 'Back', 'Next', and 'Exit' buttons are still present at the bottom right.

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

D-Link

Building Networks for People

SECURICAM

Network

Admin ID

admin

Password

IP Address

192.168.0.102

Subnet Mask

255.255.255.0

Primary DNS

192.168.0.1

Secondary DNS

192.168.0.1

The Setup Wizard has completed. Click on 'Back' to modify your settings. Click 'Restart' to save your current settings and reboot the Internet Camera.

Back

Restart

Click the button labeled **Link** to access the web configuration page. The Setup Wizard will automatically open your web browser to the IP address of the DCS-3411/3430, in this example it is: `http://192.198.0.185`. Your DCS-3411/3430 may have a different IP Address.

D-Link

Building Networks for People

SECURICAM

Network

Wizard

Search

Link

About

Exit

MAC Address	Current IP Address	Device Name
00:1c:f0:d3:fb:0e	192.168.1.185	DCS-3411

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 for your Network Camera (<http://192.168.1.179>)

Note: For example, the address is 192.168.1.179. Your address may differ.



Enter **Admin** for the username and then leave the password blank by default. Click **OK** to continue.


Note: To change your password at a later time, please refer to page 45.





Live Video Camera












This section shows your camera's live video. You may select the available thumbnails for your option 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 for your camera must be enabled.*

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

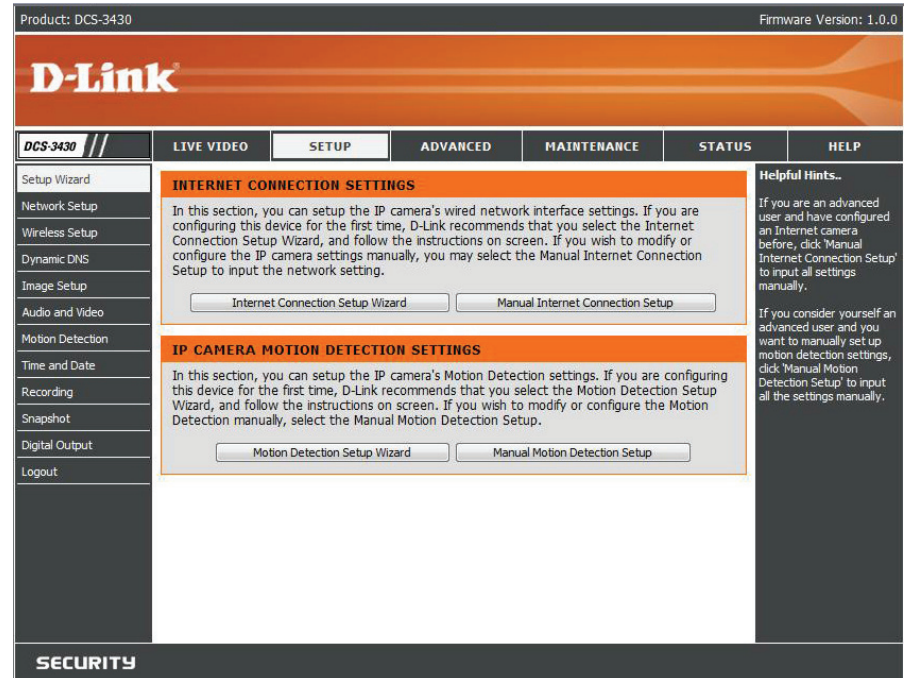
-  **Video Profile 1**
-  **Video Profile 2**
-  **Video Profile 3**
-  **Video Profile 4**
-  **Full screen mode**
-  **Taking a Snapshot**
-  **Recording a Video Clip**
-  **Set a Storage Folder**
-  **Listen/Stop Listening**
-  **Talk/Stop Talking**
-  **Start/Stop Digital Output**



Setup Wizard

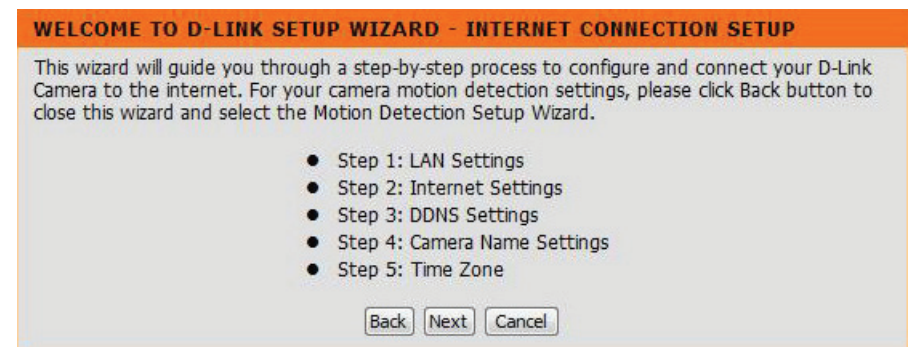
To quickly configure your Network Camera, click **Internet Connection Setup Wizard**, or click **Manual Internet Connection Setup** to manually configure your Network Camera.

To quickly configure your Network Camera's motion detection settings, click **Motion Detection Setup Wizard** and skip to page 30. If you want to enter your settings without running the wizard, click **Manual Motion Detection Setup** and skip to page 40.



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 28.

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. 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

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

Section 3 - Configuration

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

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

Enter a name for your camera and 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

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 <<

Host Name

User Name

Password

Verify Password

Timeout (Hours)

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


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

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.

If you have 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 5: SETUP TIME ZONE

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

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

Enable Daylight Saving ☒

[Back](#) [Next](#) [Cancel](#)

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-3430
Time Zone	(GMT-08:00) Pacific Time (US & Canada)
DDNS	Disable
PPPoE	Disable

[Back](#) [Apply](#) [Cancel](#)

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	192.168.0.20
IP Camera Name	DCS-3430
Time Zone	(GMT-08:00) Pacific Time (US & Canada)
DDNS	Disable
PPPoE	Disable

[Back](#) [Apply](#) [Cancel](#)

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 camera LAN or Internet settings, please click on the Back button to close this wizard and re-open the Camera Setup wizard. Otherwise click on the Next button to begin.

- Step 1: Specify Motion Detection Area Settings
- Step 2: Alerts and Notifications

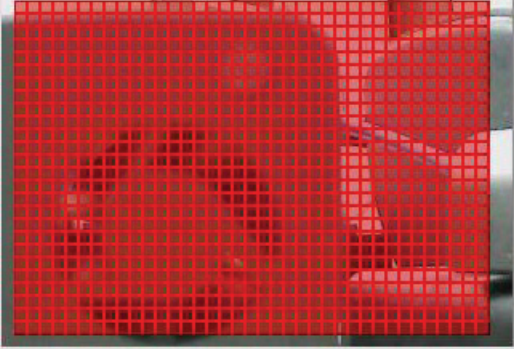
Back Next Cancel

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. You can select the **Drawing Mode** to draw or erase the motion area in your window of live video. Click **Next** to continue.

STEP 1: SPECIFY MOTION DETECTION AREA SETTINGS

This section will allow you to enable or disable motion detection function, draw or erase motion area, as well as configure the sensitivity setting of your camera to detect movement.

☒ Enable Video Motion
2009/04/13 16:42:30D PM



Sensitivity
98 0~100%

Drawing Mode

☐ Draw motion area
☒ Erase motion area

Clear

Back Next Cancel

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 will receive alert and notification of camera events. You can enable an email notification and/or a FTP Notification by input all the relevant information. Then, click on the Next button.

Enable e-mail notification	<input type="checkbox"/>
User Name	<input type="text"/>
Password	<input type="password"/>
SMTP Mail Server	<input type="text"/>
Sender E-mail Address	<input type="text"/>
Recipient E-mail Address	<input type="text"/>
Port	<input type="text" value="25"/>
Enable FTP uploading	<input type="checkbox"/>
User Name	<input type="text"/>
Password	<input type="password"/>
Host Name	<input type="text"/>
Path	<input type="text"/>
Filename Prefix	<input type="text" value="cam"/>
Port	<input type="text" value="21"/>
Interval	<input type="text" value="1"/>
Passive Mode	<input checked="" type="checkbox"/>
<input type="button" value="Back"/> <input type="button" value="Next"/> <input type="button" value="Cancel"/>	

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

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

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DCS-3430 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

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: 192.168.0.20
 Subnet Mask: 255.255.255.0
 Default Gateway: 192.168.0.1
 Primary DNS:
 Secondary DNS:

☒ Enable UPnP
☒ Enable UPnP port forwarding
 External HTTP port: 0
 External RTSP port: 0

☐ Enable PPPoE
 User Name:
 Password:
 Confirm password:

PORT DETAIL SETTINGS

HTTP port: 80
 RTSP port: 554

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

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

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

Password: The password to 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.

Wireless Setup (DCS-3430 only)

This sections allows you to setup and configure the wireless settings for your camera.

Enable Wireless: Select to enable wireless configuration.

Site Survey: Select the wireless connection you would like to use from the pull-down menu.

SSID: Enter the name of you wireless network.

Wireless Mode: Use the dropdown box to select the mode of the wireless network you wish to connect to. **Infrastructure** is normally used to connect to an access point or router. **Ad-Hoc** is usually used to connect directly to another computer.

Channel: If you are using Ad Hoc mode, select the channel of the wireless network you wish to connect to, or select **Auto**.

Authentication: Select the authentication you use on your wireless network - **Open**, **Shared (WEP)**, **WPA-PSK**, or **WPA-PSK2**.

Encryption: If you use **WPA-PSK** or **WPA-PSK2** authentication, you will need to specify whether your wireless network uses TKIP or AES encryption. If you use **Open** or **Shared** authentication, this setting will be automatically set for you.

Key: If you use **WEP**, **WPA-PSK**, or **WPA-PSK2** authentication, enter the **Key** (also known as password) used for your wireless network.

Signal: Indicates the strength of the wirelss signal between the camera and the access point.

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DCS-3430 // LIVE VIDEO **SETUP** ADVANCED MAINTENANCE STATUS HELP

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WIRELESS SETUP

In this section, you can setup and configure the wireless settings for your camera.

Save Settings Don't Save Settings

WIRELESS CONFIGURATION

Enable Wireless ☒

Site Survey dlink Rescan

SSID dlink

Wireless Mode Infrastructure

Channel Auto

Authentication WPA2-PSK

Encryption AES

Key

Signal 100

Save Settings Don't Save Settings

SECURITY

Helpful Hints..

You may choose which wireless network for the connection using the pull-down menu of **Site Survey** or enter the SSID manually.

SSID (Service Set Identifier) is the name of your wireless network such as Default, Conference, My network, and etc.

Authentication

Open - This option makes the camera visible to all devices on the network.

Shared - Allows communication only with other devices that have the identical WEP (Wired Equivalent Privacy) settings.

WPA-PSK, WPA2-PSK - Both modes will require you to input a pre-shared **Key** for the connection that is held between the camera and the wireless device.

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: Click to enable the DDNS function.

Server Address: 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.

Timeout: This sets the number of hours between DDNS updates.

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

The screenshot shows the D-Link DCS-3430 web interface. The top navigation bar includes links for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists various setup options: Setup Wizard, Network Setup, Wireless Setup, Dynamic DNS (selected), Image Setup, Audio and Video, Motion Detection, Time and Date, Recording, Snapshot, SD Card, and Logout. The main content area is titled 'DYNAMIC DNS' and contains the following text: '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.' Below this text is a link: 'Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com.' There are two buttons: 'Save Settings' and 'Don't Save Settings'. Below this is the 'DYNAMIC DNS SETTING' section, which includes: 'Enable DDNS' (checkbox), 'Server Address' (text field with a dropdown arrow), 'Host Name' (text field), 'User Name' (text field), 'Password' (text field), 'Verify Password' (text field), 'Timeout' (text field with '(hours)' label), and 'Status:Disable'. There are also 'Save Settings' and 'Don't Save Settings' buttons at the bottom. On the right side, there is a 'Helpful Hints..' section with text explaining the utility of Dynamic DNS.

Image Setup

In this section, you may configure the video image settings for your camera. Preview of the image will be shown in the window of Live Video. Click **Save Settings** to activate and save your changes.

Brightness: An adjustable setting to compensate for backlit scenes.

Contrast: Adjust to control the contrast of colors between the object. This feature will help improve images under a dull grey sky.

Flip: Select this feature when your camera is installed upside down on the ceiling

B/W: Select to enable or disable black and white mode for you camera.

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

Sharpness: Adjust the sharpness of images. Sharper images will be displayed when the number is higher. If the number is lower, a blurrier image will be displayed.

Mirror: Select this feature to obtain a mirror image.

Frequency: You may chose 50Hz or 60Hz frequency. It may depend on the country where you reside.

D-Link

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SETUP

IMAGE SETUP

Your changes made for the image settings will be reflected immediately. The results can be seen and found in the Live Video window below.

LIVE VIDEO

2009/04/13 17:31:26D PM

IMAGE SETTINGS

Brightness	50	Saturation	100
Contrast	50	Sharpness	40
Flip	<input type="checkbox"/>	Mirror	<input type="checkbox"/>
B/W	<input type="checkbox"/>	Frequency	60Hz

Reset to Default

SECURITY

Brightness - It is used to compensate for backlit scenes.

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

Contrast - Adjustable to control the contrast of colors between the object. It help to improve the image under a dull grey sky.

Frequency - You may need to choose '50' or '60' Hz frequency (depends on country).

B/W - Select to enable or disable black-and-white mode for your camera.

Flip - Select this feature when your camera is installed up-side down on the ceiling.

Mirror - Select this feature to obtain mirror image.

Audio and Video

You may configure 4 video profiles with different setting for your camera. Additionally, you may also configure your audio (speakers and microphone) setup for your camera. Profile 3 is set as the profile for snapshot, while profile 4 is set for your mobile phone or PDA device.

Resolution: This option allows the user to choose the video resolution of the camera between 160x120, 320x240 and 640x480:

- QVGA @ 160x112 - Usually used for only displays of handheld devices.
- QVGA @ 320x240 - Standard solution for mobile phones and PDAs.
- VGA @ 640x480 - Standard solution for computer display.

FPS: (Frames Per Second): Highest FPS represents highest refresh rate of a picture is updated on screen every second, and provides better quality of video.

JPEG Quality: Select the image quality level you wish to use for the JPEG images captured.

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

Analog Output: Select the display system of Analog Video Output on the back **NTSC** or **PAL**.

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AUDIO AND VIDEO

You may configure audio, and video settings (4 video profiles) here. Profile 3 has been set as the for snapshot while profile 4 is set for your mobile phone or PDA device.

Save Settings Don't Save Settings

VIDEO PROFILE 1

Encode Type	Resolution	FPS	bps	JPEG Quality	RTSP URL
H264	640x480	30	2 Mbps	--	play1.sdp

VIDEO PROFILE 2

Encode Type	Resolution	FPS	bps	JPEG Quality	RTSP URL
MPEG4	320x240	30	1 Mbps	Excellent	play2.sdp

VIDEO PROFILE 3

Encode Type	Resolution	FPS	bps	JPEG Quality	RTSP URL
JPEG	640x480	10	--	Excellent	play3.sdp

VIDEO PROFILE 4 FOR MOBILE DEVICE ONLY

Encode Type	Resolution	FPS	bps	JPEG Quality	RTSP URL
MPEG4	160x112	5	2 Mbps	--	3gpp

ANALOG OUTPUT

☒ NTSC
☐ PAL

AUTO EXPOSURE

☒ On
☐ Off (used for auto IRIS lens)

AUDIO SETUP

Enable Speaker ☒
 Volume 100
 Enable Microphone ☒
 Volume 100

Save Settings Don't Save Settings

Helpful Hints..

Encode Type - Select the video codec 'JPEG' or 'MPEG4'.

Resolution - 3 options depend on display system used.

FPS (Frame per second) - 30fps is the highest video quality for this camera.

bps (bit per second) - Select a fixed bandwidth for your camera operation. Higher value means a higher quality image but consumes more network bandwidth.

JPEG Quality - Set the quality of JPEG image.

RTSP URL - The URL used to connect to the camera when viewing from a mobile device or PDA. (i.e. rtsp://EXAMPLE.dlinkdns.com/3gpp).

Analog Output - Select the display system of Analog Video Output on the back as NTSC or PAL.

Auto Exposure - Select On to use auto exposure, Off to use auto IRIS.

Audio Setup - To switch the external speaker and microphone on/off or adjust the volume.

Enable Speaker - Enabling this feature to allow you to talk using PC's microphone and your voice to be transmitted to the external speaker connected to the camera.

Speaker Volume - You can adjust the speaker volume using the volume level setting.

Enable Microphone - Enabling this feature to hear audio from the IP Camera's microphone.

Microphone Volume - You can adjust the MIC Port volume using the volume level setting.

We suggest using a resolution of 160x112 at 5 FPS and 64k BPS to watch images on your cell phone or pda.

SECURITY

Auto Exposure: Select **On** to use auto exposure or **Off** to use auto IRIS.

Audio Setup: You may switch the external speaker and microphone on/off or adjust the volume.

Enable Speaker: Enabling this feature allows you to talk using a PC microphone. Your voice will be transmitted to the external speaker connected to the camera.

Speaker Volume: You can adjust the speaker volume by using the volume level setting.

Enable Microphone: Enable this feature to hear audio from the IP Camera's microphone.

Microphone Volume: You can adjust the MIC Port volume by using the volume level setting.

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

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DCS-3430 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

MOTION DETECTION

This section will allow you to enable or disable motion detection function, draw or erase motion area, as well as configure the sensitivity setting of your camera to detect movement. You must select the checkbox of 'Enable Video Motion' to turn on the feature.

Save Settings Don't Save Settings

LIVE VIDEO

☒ Enable Video Motion

2009/04/13 17:51:19.0 EX

Sensitivity 98 0~100%

Drawing Mode

☒ Draw motion area

☐ Erase motion area

Clear

Save Settings Don't Save Settings

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.

SECURITY

Time and Date

From 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 this 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 NTP server.

NTP Server: Network Time Protocol (NTP) synchronizes the DCS-3411/3430 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.

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DCS-3430 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

TIME AND DATE

Here you may configure the internal clock of your camera.

Save Settings Don't Save Settings

TIME CONFIGURATION

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

☒ Enable Daylight Saving

☒ Auto Daylight Saving

☐ Set date and time manually

Offset: +1:00

Month Week Day of week Hour Minutes

Start time: 3 2 Sunday 2 00

End time: 11 1 Sunday 2 00

AUTOMATIC TIME CONFIGURATION

☒ Synchronize with NTP Server

NTP Server: ntp1.dlink.com << Select NTP Server

SET DATE AND TIME MANUALLY

☐ Set date and time manually

Year: 2009 Month: 4 Day: 13

Hour: 17 Minute: 52 Second: 54

Copy Your Computer's Time Settings

Save Settings Don't Save Settings

SECURITY

Helpful Hints..

Setting the correct time and time zone will allow you to have accurate logs and proper scheduling for recordings.

Recording

In this section, you can configure and schedule the recording setting for your IP camera.

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

SD Card: Selecting this will allow you to record to a SD Card inserted into the SD slot on the right side of the unit. When recording to the SD card, you can only use Event Based recording.

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

Server: 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.

Event Based: Records 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.

Continous: Select to continuously record.

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

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DCS-3430 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

RECORDING

Here you may configure and schedule the recording of you camera. You must select the checkbox of 'Enable Recording' to turn on the feature.

Save Settings Don't Save Settings

RECORDING

☐ Enable recording

Record to:

☒ SD Card

SD Card status: Disable Get status

☒ Samba network drive

Samba Auth: Anonymous

User name:

Password:

Password confirm:

Server:

Shared folder:

Test

Samba status: Disable 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

Recording Method

☐ 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

Save Settings Don't Save Settings

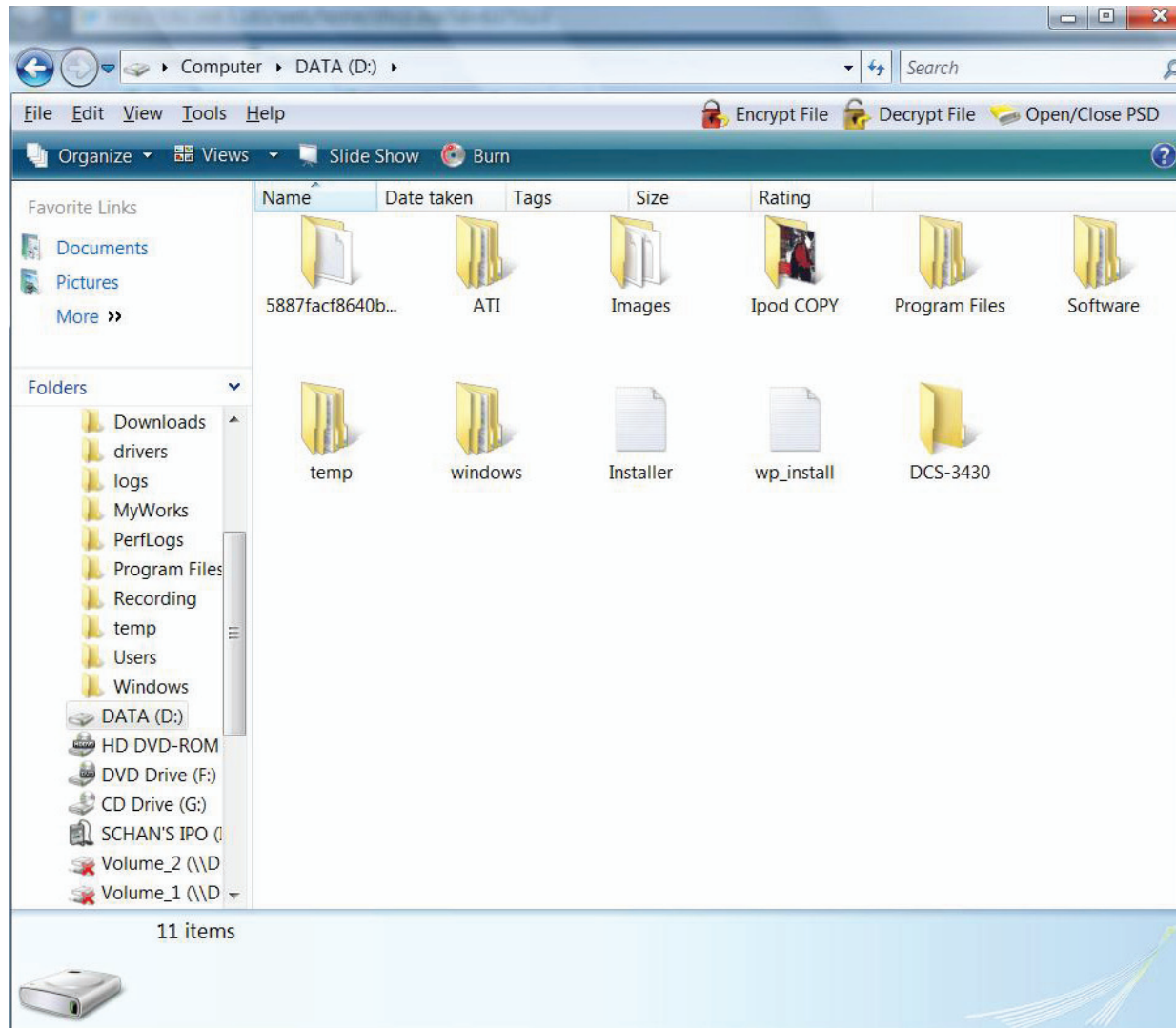
SECURITY

Helpful Hints..

You can record the video to a 'SD Card' or a 'Samba network' drive based on the selected events. You may also configure the 'Recording Options' and select a scheduling method to specify when the camera will record video.

How to save video to a shared folder?

1. Set the folder in your computer to shared. You can set as anonymous authentication or set a user name and password.



2. Click **Enable Recording**.
3. Set the *Samba Authentication* to **Anonymous** or **Account**. Enter the IP address of the computer or network attached storage with the shared folder and the name of the shared folder in step 1 to record to. If you selected **Account**, enter the user name and password from step 1.
4. Set the recording and schedule options.
5. Click **Save Settings**. The status will be set to **Normal** when connected properly.

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LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

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RECORDING

Here you may configure and schedule the recording of you camera. You must select the checkbox of 'Enable Recording' to turn on the feature.

Save Settings Don't Save Settings

RECORDING

☐ Enable recording

Record to:

☒ SD Card
SD Card status : Disable Get status

☒ Samba network drive
Samba Auth Anonymous
User name
Password
Password confirm
Server
Shared folder
Test
Samba status : Disable 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

Recording Method
☐ 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

Save Settings Don't Save Settings

SECURITY

Helpful Hints..
You can record the video to a 'SD Card' or a 'Samba network' drive based on the selected events. You may also configure the 'Recording Options' and select a scheduling method to specify when the camera will record 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: Enable or disable snapshot event.

Event Based: 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.

Continuous: Select to continuously record.

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

Send to E-mail Address: Select this option if you want to receive snapshot images in your 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).

Filename Prefix: 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-3430 // LIVE VIDEO SETUP ADVANCED 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 FTP and/or email notification(s). The resolution of snapshot can be configured as in the video profile 3 in Audio and Video.

Save Settings Don't Save Settings

SNAPSHOT

☐ Enable Snapshot

Scheduling

☐ Event Based

☐ Motion Detection

☐ D/I Signal 1

☐ D/I Signal 2

☐ Continuous (FTP only)

☐ Scheduled (FTP only)

	Start	Hours	Minutes	End	Hours	Minutes
<input checked="" type="checkbox"/> Sun	Start	00	: 00	End	24	: 00
<input checked="" type="checkbox"/> Mon	Start	00	: 00	End	24	: 00
<input checked="" type="checkbox"/> Tue	Start	00	: 00	End	24	: 00
<input checked="" type="checkbox"/> Wed	Start	00	: 00	End	24	: 00
<input checked="" type="checkbox"/> Thu	Start	00	: 00	End	24	: 00
<input checked="" type="checkbox"/> Fri	Start	00	: 00	End	24	: 00
<input checked="" type="checkbox"/> Sat	Start	00	: 00	End	24	: 00

Send to:

☐ E-mail Address

User Name

Password

SMTP Mail Server

Sender E-mail Address

Recipient E-mail Address

Port (range 1 to 65535)

Test

☐ FTP Server

User Name

Password

Host Name

Path

Filename Prefix

Port (range 1 to 65535)

Interval Seconds (range 1 to 86400 seconds)

Passive Mode ☒

Test

Save Settings Don't Save Settings

Helpful Hints...

You can choose to receive notifications by FTP and/or E-mail. The 'Test' buttons are provided to test if your input settings are valid and functional.

SD Card

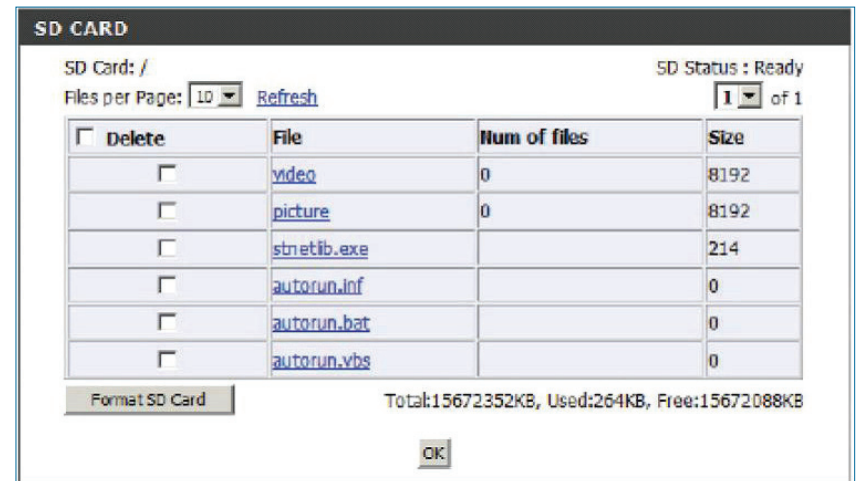
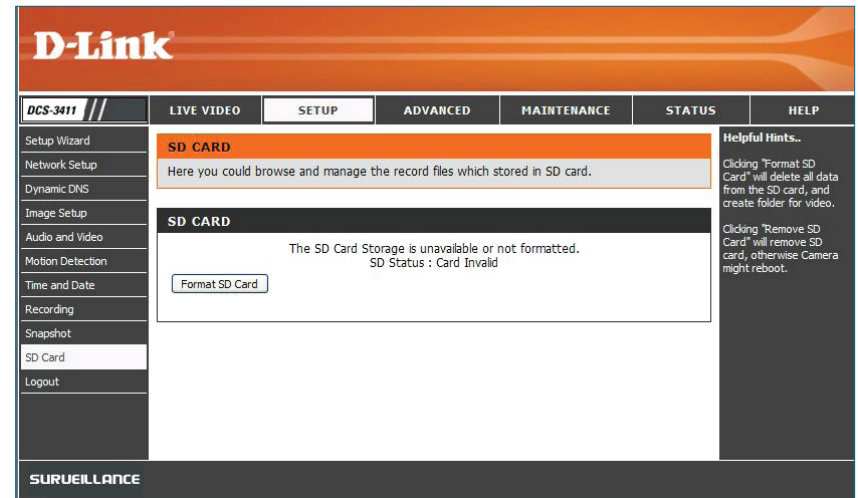
Here you may browse and manage the recorded files which are stored on the SD card.

Format SD Card: Click this icon to automatically format the SD card and create "picture" & "video" folders.

View Recorded Picture: If the picture files are stored on the SD card, click on the picture folder and choose the picture file you would like to view.

Playback Recorded Video: If video files are stored on the SD card, click on the video folder and choose the video file you would like to view.

Refresh: Reloads the file and folder information from the SD card.



Advanced

Advanced ICR

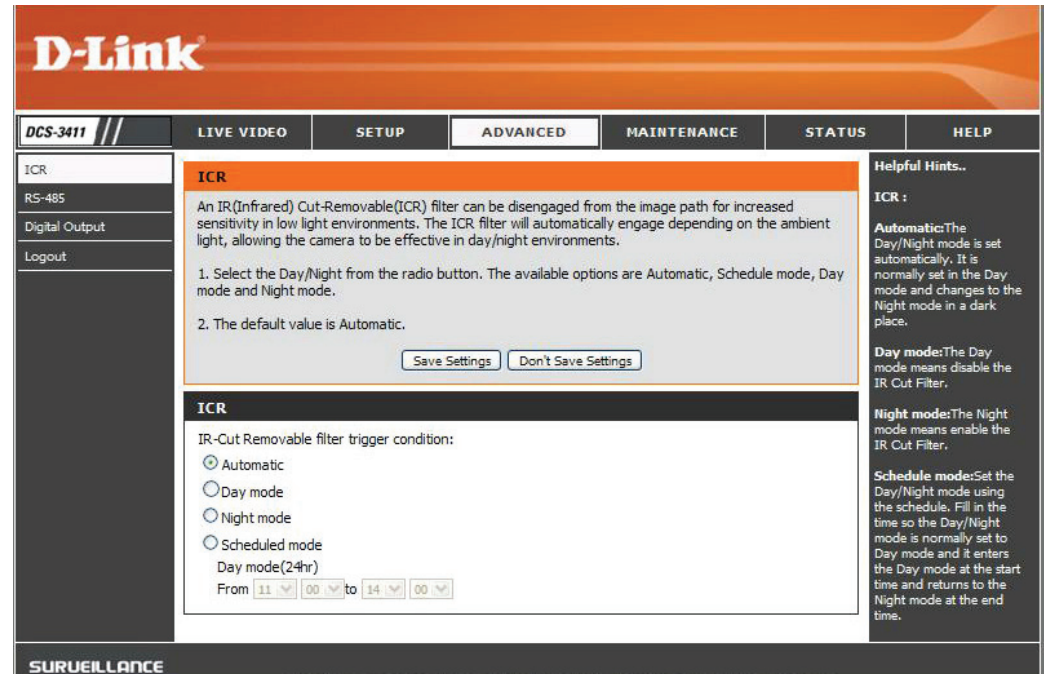
ICR - IR-Cut Removable(ICR) filter is a switch mechanical design with two different sensor filters. It provides the best lighting conditions for day and night.

Automatic: Selecting this feature will automatically set to the day mode during daylight and to the night mode during the night or in dark places.

Day mode: Selecting this mode will disable the IR Cut Filter.

Night mode: Selecting this mode will enable the IR Cut Filter.

Scheduled Mode: This mode will allow you to enter the desired time frames for the ICR filter.



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, 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 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 **8**.

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.

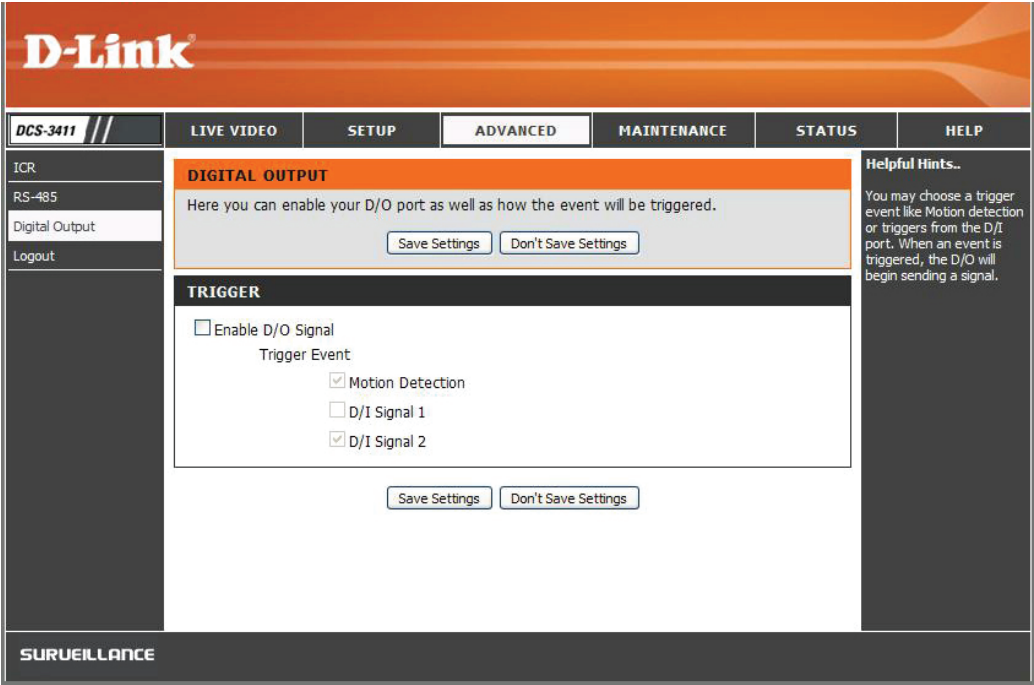
For example, if the data is 011, for even parity, the parity bit is 0 to keep the number of logic-high bits even. If the parity is odd, the parity bit is 1, resulting in 3 logic-high bits.

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 is **signal**: 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.



Maintenance

Device Admin

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: The user name for the new account.

Password: The password for the new account.

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

Camera Name: Create a unique name for your camera, in which you can access the camera by using this name in your web-browser.
For example: http://DCS-3411/3430 (By default).

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

Label: The label name.

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

LED Light: Chose **On** or **Off**.

The screenshot shows the D-Link DCS-3430 Maintenance Device Admin web interface. The top navigation bar includes links for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE (selected), STATUS, and HELP. The left sidebar contains links for Admin, System, Firmware Upgrade, and Logout. The main content area is titled 'ADMIN' and contains the following sections:

- ADMIN:** A text block explaining that users can change the administrator's password, add/delete user accounts, configure a unique camera name, and enable the OSD (On-Screen Display) feature.
- ADMIN PASSWORD SETTING:** A form with two input fields for 'New Password' and 'Retype Password', both with a '30 characters maximum' limit. A 'Save' button is located to the right of the 'Retype Password' field.
- ADD USER ACCOUNT:** A form with three input fields: 'User Name' (20 users maximum), 'New Password' (30 characters maximum), and 'Retype Password'. An 'Add' button is located below the 'Retype Password' field.
- USER LIST:** A table with one row containing a 'User Name' dropdown menu (set to '-- User list --') and a 'Delete' button.
- DEVICE SETTING:** A form with several settings:
 - 'Camera Name' input field with 'DCS-3430' and a '36 characters maximum' limit.
 - 'Enable OSD' checkbox, which is checked.
 - 'Label' input field with 'PM' and a '30 characters maximum' limit.
 - 'Show time' checkbox, which is checked.
 - 'LED light' radio buttons, with 'On' selected and 'Off' unselected.
 - A 'Save' button at the bottom.

On the right side of the interface, there is a 'Helpful Hints..' section with two paragraphs of text: 'For security purposes, it is recommended to change the password for your administrator account. Be sure to write down the new password to avoid having to reset the camera in the event that it is forgotten.' and 'Enabling OSD, the camera name and time will be displayed on the video screen.'

System

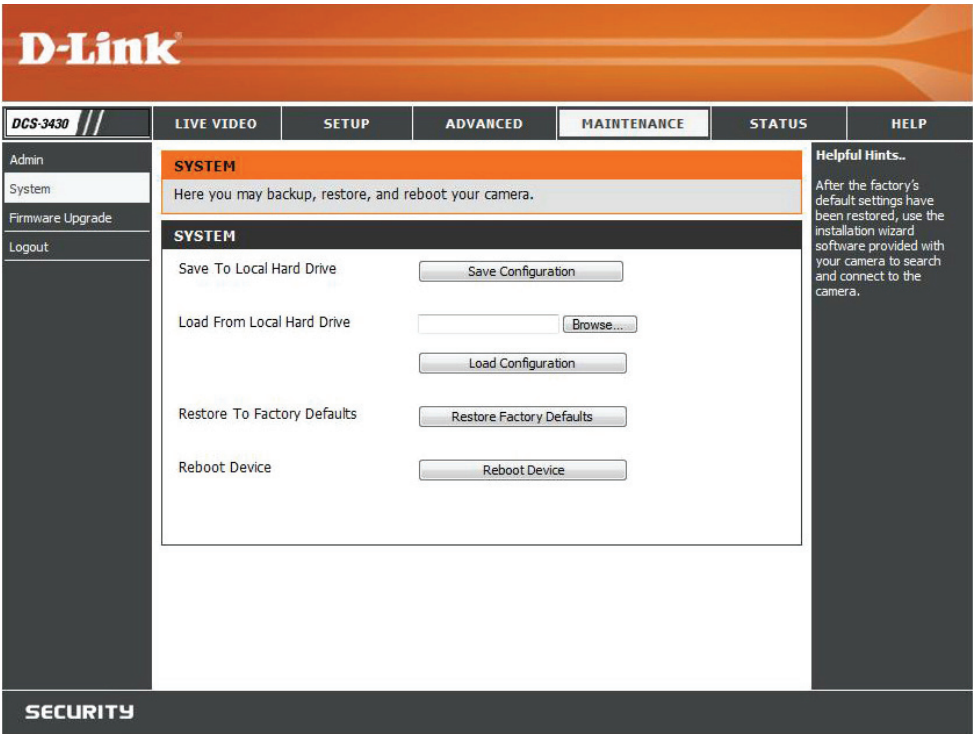
In this section, you may backup, restore and reset the settings as well as reboot your camera.

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

Local From Local Hard Drive: Locate a pre-saved configuration 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-3411/3430, 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: 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.

D-Link

DCS-3430 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Admin
System
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: 1.0.0, 2901
Current Product Name: DCS-3430

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 information about your device and network connection.

DCS-3430

Device Info

Log

Logout

SECURITY

LIVE VIDEO

SETUP

ADVANCED

MAINTENANCE

STATUS

HELP

DEVICE INFO

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

INFORMATION

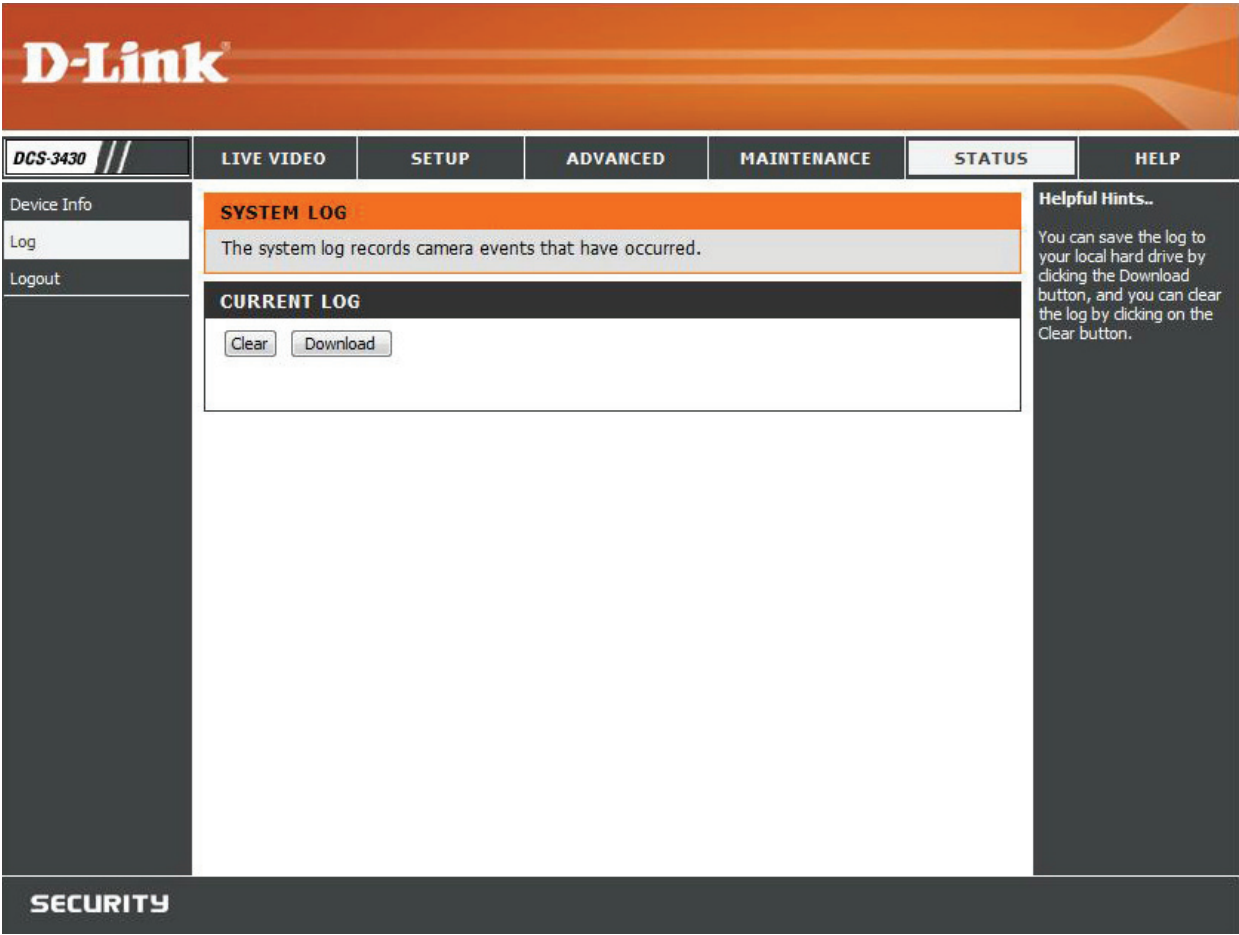
Camera Name	DCS-3430
Time & Date	Tue Apr 14 10:54:51 2009
Firmware Version	1.0.0, 2901
MAC Address	00:03:1B:58:91:36
IP Address	192.168.1.179
IP Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
Primary DNS	192.168.1.1
Secondary DNS	
PPPoE	Disable
DDNS	Disable

Helpful Hints..

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

Logs

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



Help

DCS-3430

///

Help Menu

Logout

HELP MENU

LIVE VIDEO

SETUP

MAINTENANCE

STATUS

LIVE VIDEO

Camera

SETUP

Setup Wizard

Network Setup

Wireless Setup

Dynamic DNS

Image Setup

Audio and Video

Motion Detection

Time and Date

Recording

Snapshot

Digital Output

RS-485

MAINTENANCE

Admin

System

Firmware Upgrade

STATUS

Device Info

Log

SECURITY

Troubleshooting

1. What is an 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 from 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-3411/3430 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-3411/3430 Network Camera is used only on an wireless 802.11n, Ethernet or Fast Ethernet network.

8. Can the DCS-3411/3430 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-3411/3430 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-3411/3430 uses port 5002 for streaming audio and port 5003 for streaming video. These ports (or the ports you specify from the Advanced Tab in the Configuration screen if you change the default ports) need to be opened on the firewall.

10. Why am I unable to access the DCS-3411/3430 from a Web browser?

If a router or firewall is used on the network, the correct ports for the DCS-3411/3430 may not be configured on the router or firewall. To correct the problem, you need to determine if the DCS-3411/3430 is behind a router or firewall and if the router or firewall is properly configured for the ports the DCS-3411/3430 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. I connected the Network Camera directly to a computer with a cross-over cable Ethernet cable and received the following Windows error upon running the Installation Wizard:

This Windows error will occur if the Network 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.

13. Noisy images occur. How can I solve the problem?

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

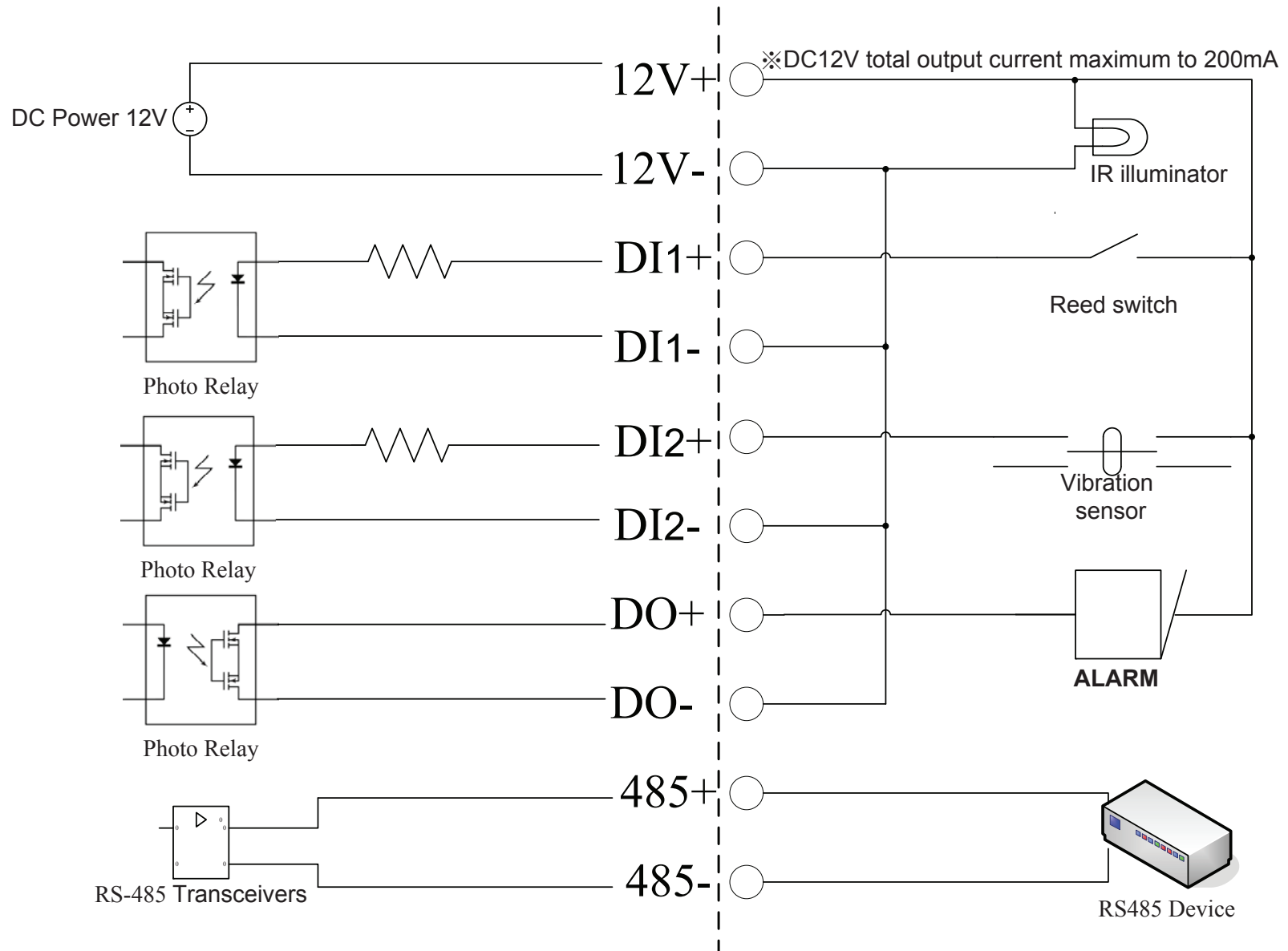
13. The images appear to be of poor quality, how can I improve the image quality?

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.



DI/DO



12V+/12V-	Connect to an IR illuminator or other device in parallel connection. The total output current should be under 200mA.
DI	Receive signals from a motion detector or any other external security device.
DO	Connect to an alarm or buzzer. Refer to page 43.
485+/485-	Connect to the RS-485 interface for controlling auxiliary equipment such as an external camera enclosure to perform PAN and TILT movement. Refer to page 48 for more information.

Networking Basics

Check your IP address

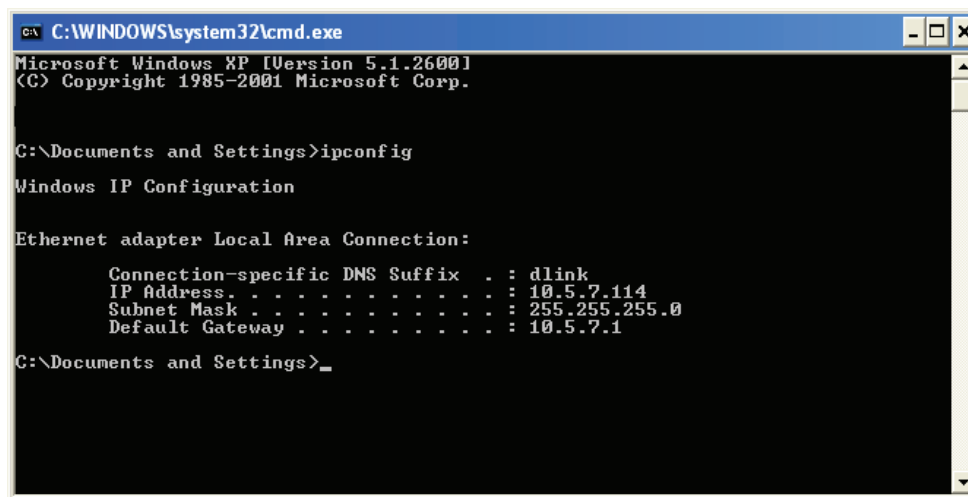
By default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on **Start > Run**. In the run box type **cmd** and click **OK**. (Windows® 7/Vista® users type *cmd* in the **Start Search** box.)

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.



```
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® 7 - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Change Adapter Settings**.

Windows Vista® - Click on **Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections**.

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 network adapter and select **Properties**.

Step 3

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

Step 4

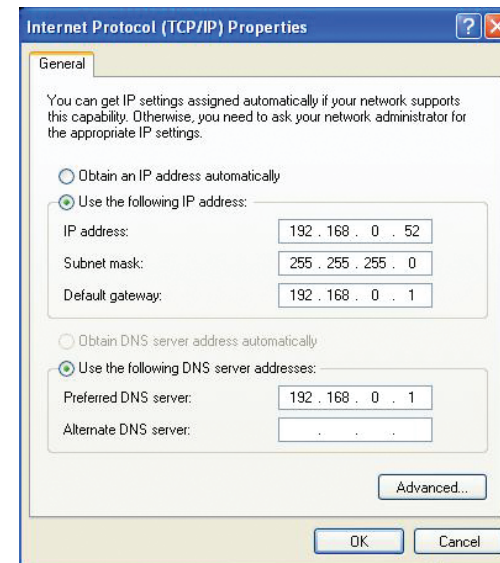
Click **Use the following IP address** and enter an IP address that is on the same subnet as your network or the LAN IP address on your router.

Example: If the router'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

Video Codec

- MPEG4 / MJPEG/ H.264 multi profile compression simultaneously

PoE (3411 only)

- Supported IEEE 802.3af standard

Sensor

- 1/4" CMOS Sensor

SDRAM

- 64 Mbytes

Flash Memory

- 8 Mbytes

Lens

- 6mm, F1.8
- Support Auto Iris lens, or IR lens

LAN

- 10/100Base T ports x1
- IEEE 802.3 compliance
- IEEE 802.3u compliance
- Support Full-Duplex operations
- MDI/MDIX auto-negotiation
- 802.3x Flow Control support for Full-Duplex mode
- Supported IEEE 802.3af standard (DCS-3411 only)

MIC

- 42dB +/- 3dB, Omni-directional

Antenna

- 2 (DCS-3430 only)

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)
- Power Output: 12VDC, 200mA

RS 485

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

Audio Out

- 600mV

Video Out

- 75 ohm 1Vpp

Reset Button

- Reset to factory default

Storage

- SD card slot

Dimension (WxDxH)

- 177mm x 78mm x 60mm

Weight

- 577.8g

Max Power Consumption

- Max : DCS-3411 5.484 W, DCS-3430 6.9W
- Input: 100-240VAC, 50/60Hz, 0.4A
- Output: 12VDC, 1.25A

Wireless (DCS-3430 only)

Frequency Range And Channels

- 2.412-2.4835 GHz
- 13 Channels (depend on Area)

Transmit

- 2TX, 2RX

Data Rate

- IEEE 802.11n: From MCS0 to MCS15
- IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
- IEEE 802.11b: 11, 5.5, 2, 1 Mbps
- Auto-select or Manual specified.

Output Power

- 12 dBm@11n (Typical)
- 12 dBm@11g (Typical)
- 16 dBm@11b (Typical)

Sensitivity

- HT40/802.11n: Packet Error Rate < 10%, MCS6 < -60dBm
- HT20/802.11n: Packet Error Rate < 10%, MCS6 < -66dBm
- 802.11g: Packet Error Rate < 10%, 54Mbps < -66 dBm
- 802.11b: Packet Error Rate < 8%, 11Mbps < -82 dB

Antenna

- Connector: MHF
- Operating Frequency: 2.4GHz

Networking

Protocol

- IPV4, ARP, TCP, UDP, ICMP
- DHCP Client
- NTP Client
- DNS Client
- DDNS Client (D-Link)
- SMTP Client
- FTP Client

- HTTP Server
- Samba Client
- PPPoE
- UPnP Port Forwarding
- RTP
- RTSP
- RTCP
- 3GPP

Ethernet

- 10/100M BaseT Fast Ethernet auto negotiation

Wireless (DCS-3430 only)

- WMM

Video

Algorithm Supported

- MPEG4/MJPEG/H.264 multi profile 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

- Up to 30 frames at 640x480
- Up to 30 frames at 320x240
- Up to 30 frames at 160x120

Sensitivity

- 11.5 V/lux-s at 550nm

Video

- AGC, AWB, AES, BLC

Digital Zoom

- Up to 16X

Low Lux

- 0.5 lux@F1.8

3A control

- AGC, AWB, AES

Electronic shutter

- NTSC: 1/60 ~ 1/100000 sec.
- PAL: 1/50 ~ 1/110000 sec.

Audio

Sample rate

- GSM-AMR: 12.2kbps, ADPCM: 8Kbps

Cable

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

Plug

- Type: L type
- Connector Color: Black

Frequency

- 20 ~ 20000Hz

S/N ratio

- More than 58dB

Microphone

Directional

- Omni-directional

Frequency

- 20 ~ 20000Hz

S/N ratio

- More than 58dB

LED

Control

- Enable/Disable

Security

Login authentication

- Default Admin ID/PW : admin/space(blank)

Physical Environment

Power

- 12V 1.25A switching power adapter
- External AC-to-DC Switching Power Adapter
- Type: USA / UK / EUR / AUS / CN (Order by each territory)

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
- IC
- C-Tick

¹Maximum wireless signal rate derived from IEEE Standard 802.11g, 802.11a and 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.

²Range varies depending on country's regulation.

³The DCS-3411/3430 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-3411/3430)
- Hardware Revision (located on the label on the bottom of the Network Camera (e.g. rev A1))
- Serial Number (s/n number located on the label on the bottom of the Network 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) 354-6555

Internet Support:

<http://support.dlink.com>

For customers within Canada:

Phone Support:

(877) 354-6560

Internet Support:

<http://support.dlink.ca>

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: One (1) year
- Power supplies: 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 1-877-354-6555, 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.

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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

Register your product online at support.dlink.com/register



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

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