

## 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

**WELCOME TO D-LINK SETUP WIZARD - INTERNET CONNECTION SETUP**

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.

- **Step 1:** Setup LAN Settings
- **Step 2:** Setup DDNS Settings
- **Step 3:** Server Name Settings
- **Step 4:** Setup Time Zone

Next Cancel

You may configure your camera using

- **DHCP Connection** (by default), where your DHCP server will automatically assign dynamic IP to your device.
  - **Static IP Address** if your ISP has already assigned an IP address to you.
  - **PPPoE connection**, where your camera is directly connected to the Internet through a DSL modem.
- \* Input the DNS information if you have chosen and assigned a Static IP Address for your camera.

Click Next

**STEP 1: SETUP LAN SETTINGS**

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

DHCP Connection

Static IP Address

IP Address

Subnet Mask

Default Gateway

PPPoE

User ID

Password

Primary DNS

Secondary DNS

Next Cancel

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

Click **Next**

**STEP 2: SETUP DDNS SETTINGS**

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

Enable  
 Disable

Server Address  <<

Host Name

User Name

Password

Timeout  hours

Enter a name for your camera.

Click **Next**

**STEP 3: SERVER NAME SETTINGS**

D-Link recommends that you rename your camera for easy accessibility. Please assign a name of your choice before clicking on the **Next** button.

Camera Name

Configure the correct time to ensure that all events triggered, captured and scheduled at the right time.

Click **Next**

**STEP 4: 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.

Current Time

Time Zone

This page displays your configured settings. Click **Apply** to save and activate the setting, or **Back** to change your settings.

Click **Apply**

**STEP 5: SETUP COMPLETE**

Here is a summary of your camera settings. Click **Back** to review or modify the settings, or click **Apply** if all settings are correct. It is recommended to note down this information for future access or reference.

IP Address	DHCP Connection
IP Camera Name	DCS-930
Time Zone	(GMT-05:00) Eastern Time (US & Canada)
DDNS	Disable

## Network Setup

This section allows you to configure your network settings.

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

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

**IP Address:** The fixed IP address

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

**PPPoE Settings:** If you are using a PPPoE connection, enable it and enter the User Name and Password for your PPPoE account. You can get this information from your Internet service provider (ISP).

**Port Settings:** You may configure a Second HTTP port that will allow you to connect to the camera via a standard web browser. The port can be set to a number other than the default TCP ports 80. A corresponding port must be opened on the router. For example, if the port is changed to 1010, users must type “http://192.168.0.100:1010” instead of only “http://192.168.0.100”.

**UPnP Settings:** Enable this setting to configure your camera as an UPnP device in the network.

Product: DCS-930 Firmware version: 0.80

**D-Link**

DCS-930 // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

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

**LAN SETTINGS**

DHCP Connection  Static IP Address  PPPoE

IP Address  User ID

Subnet Mask  Password

Default Gateway

Primary DNS

Secondary DNS

**PORT SETTINGS**

HTTP Port

**UPnP SETTINGS**

UPnP  Enable  Disable

UPnP Port Forwarding  Enable  Disable

Save Settings Don't Save Settings

**Helpful Hints..**  
Select "DHCP Connection" if you are running a DHCP server on your network and would like an IP address assigned to your camera automatically. You may choose to manually enter a Static IP Address and all the relevant network information or select PPPoE if you connect your DCS-930 directly to the Internet that uses a PPPoE service. If you choose PPPoE you must enter the user ID and password that was given by your Internet Service Provider.  
DNS (Domain Name System) server is an Internet service that translates domain names (i.e. www.dlink.com) into IP addresses (i.e. 192.168.0.20). The IP addresses can be obtained from your ISP.  
- Primary DNS: Primary domain name server that translates names to IP addresses.  
- Secondary DNS: Secondary domain name server to backup the primary one.

# Setup > Wireless

This section allows you to setup and configure the wireless settings on your camera.

## Wireless Interface

**SSID:** Service Set Identifier, an identifier for your wireless network.

**Channel:** The default setting is channel 6. Select the same channel that is using by other wireless devices within your network. When there is interference from the wireless networks that overlap with one another, you may change the channel to obtain maximum performance for your connection.

**Connection Mode:** **Infrastructure** is a wireless connection using an access point as a transmission point of all wireless devices. **Ad-Hoc** is a wireless connection used without an access point, where your **DCS-930\_A2** directly connecting to your PC. This is done using the on-board wireless adapter on the **DCS-930\_A2** connected to a wireless adapter on the PC.

**Site Survey:** This page will allow you to select a wireless network that the **DCS-930\_A2** is able to detect.

**Wireless Security Mode:** For security, there are three choices; **None**, **WEP**, and **WPA-PSK / WPA2-PSK**. Select the same encryption method that is being used by your wireless device/ router.

### WPA-PSK / WPA2PSK

**Settings:** An appropriate **Preshared Key**, which is needed in order to connect to the wireless network..

## Setup > DDNS

This section allows you to configure the DDNS setting for your camera. DDNS will allow all users to access your camera using a domain name instead of an IP address.

**DYNAMIC DNS SETTING**  
 Enable  Disable  
Server Address  <<   
Host Name   
User Name   
Password   
Timeout  hours

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

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

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

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

**User Name:** Enter your username or e-mail used to connect to the DDNS.

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

## Setup > Image Setup

This section allows you to configure the image settings for your camera.

**IMAGE SETUP**

In this section, you can configure the image settings for your camera.

Save Settings Don't Save Settings

**IMAGE SETTINGS**

Enable Anti Flicker

Flip Image

Mirror

Brightness Control +0 ▾

Contrast Control +0 ▾

Saturation Control +0 ▾

Save Settings Don't Save Settings

### Image Settings

#### Enable

**Antiflicker:** Select this box to enable antiflicker.

**Flip Image:** Select this box to vertically rotate the video. If the camera is installed upside down, Flip Image and Mirror should both be checked.

**Mirror:** Horizontally rotates the video.

#### Brightness

**Control:** Allows you to adjust the brightness level.

#### Contrast

**Control:** Allows you to adjust the contrast level.

#### Saturation

**Control:** Allows you to adjust the saturation level.

## Setup > Video

This section allows you to configure the video settings for your camera.

**VIDEO**

In this section, you can configure the camera video quality, resolution, and frame rate.

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**VIDEO PROFILE**

Encode Type	Resolution	FPS	Jpeg Quality	View Mode
JPEG	320 x 240	Auto	Medium	Image

---

**LIGHT FREQUENCY**

50 Hz
  60 Hz

### Video Configuration

**Video Profile:** This section allows you to change the **Encode Type**, **Resolution**, **FPS**, and **Quality**.

**Encode Type:** The compression format used when viewing your camera.

**Resolution:** Select the desired video resolution from three formats: 640x480, 320x240, and 160x120. The higher setting can obtain better quality. However, it will use more resource within your network.

**FPS:** Select the optimal setting depending on your network status. Please note that the higher setting can obtain better quality. However, it will use more resources within your network.

**JPEG Quality:** Choose one of five levels of image quality: Highest, High, Medium, Low, and Lowest.

**View Mode:** Select the mode for viewing the camera image. Select Image for a still images, ActiveX for Internet Explorer, or Java for other web browsers.

#### Light

**Frequency:** Select the proper frequency (50Hz or 60Hz) to reduce image flicker.

## Setup > Audio

Enabling audio setting will allow you to listen to audio from the camera through your PC's audio output.

**Note:** Please wait a few seconds for the camera to adjust the audio after the setting has been selected.

**Audio Settings:** You may **Enable** or **Disable** the camera audio feed.

### Volume

**Settings:** Select the desired volume percentage level.

The screenshot shows the D-Link DCS-930 web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various configuration options: Wizard, Network Setup, Wireless Setup, Dynamic DNS, Image Setup, Video, Audio (selected), Motion Detection, Mail, FTP, Time and Date, and Logout. The main content area is titled 'AUDIO' and contains the following text: 'In this section, you can configure the audio settings for your camera.' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. The 'AUDIO SETTINGS' section has radio buttons for 'Enable' (selected) and 'Disable'. The 'VOLUME SETTINGS' section has a dropdown menu showing '100'. At the bottom of the main content area are two buttons: 'Save Settings' and 'Don't Save Settings'. The right sidebar, titled 'Helpful Hints...', contains the following text: 'Enabling audio setting will allow you to listen to audio from the camera through your PC's audio output. Note: Please wait a few seconds for the camera to adjust the audio after the setting has been selected.'



## Setup > Motion Detect

Enabling Video Motion will allow your camera to use the motion detection feature. You may draw a finite motion area that will be used for monitoring.

**Motion Detection:** Select this box to enable the motion detection feature of your camera.

**Sensitivity:** Specifies the measurable difference between two sequential images that would indicate motion. Please enter a value between 0 and 100.

**Detection Areas:** Use your mouse to click on the blocks that you would like to monitor for motion.

The screenshot shows the D-Link web interface for the DCS-930 camera. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various setup options: Wizard, Network Setup, Wireless Setup, Dynamic DNS, Image Setup, Video, Audio, Motion Detection (highlighted), Mail, FTP, Time and Date, and Logout. The main content area is titled 'MOTION DETECTION' and contains the following settings:

- MOTION DETECTION:** In this section, you can configure the motion detection settings for your camera. Buttons: Save Settings, Don't Save Settings.
- MOTION DETECTION SETTINGS:**
  - Motion Detection:  Enable  Disable
  - Sensitivity: 90 % (0~100%, high sensitivity makes the motions easier to be detected.)
  - Detection Areas: Use mouse to click the blocks where you want to monitor for motion.

The 'Detection Areas' section shows a live video feed with a blue grid overlay, indicating the areas where motion is being monitored. Buttons: Save Settings, Don't Save Settings.

The footer of the page reads 'SURVEILLANCE'.

# Setup > Mail

## Email Account

This section allows you to configure the email notification settings for your camera.

**SMTP Server** This is the domain name or IP address of your external e-mail  
**Address:** server.

**Sender e-mail** This is the e-mail address of the person sending the camera  
**Address:** snapshots.

**Receiver e-mail**  
**Address:** This is the e-mail address of the recipient.

**User Name:** If the SMTP server uses authentication, you must enter your user name here.

**Password:** This is the password that corresponds to your user name to connect to the SMTP server.

**MAIL**

This section allows you to setup and configure the email notification settings for your camera. If your details change or you are experiencing issues with alert notifications, you may need to modify these settings.

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**E-MAIL ACCOUNT**

SMTP Server Address

SMTP Server Port  (Default is 25)

Sender E-mail Address

Receiver E-mail Address

User Name

Password

TLS Authentication

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**TIME SCHEDULE**

Enable emailing images to email account

Always

Schedule

Day  Mon  Tue  Wed  Thu  Fri  Sat  Sun

Time Period Start :  (Example : 06:30:00)

Stop :  (Example : 22:30:00)

Motion Detection

Interval  Seconds

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**TEST E-MAIL ACCOUNT**

A test e-mail will be sent to the e-mail account listed above.

## Time Schedule

### Enable e-mail

**image to e-mail** Choosing **Always** will start sending snapshots to the recipient's e-mail account right away. Choosing **Schedule** will allow you to **account:** schedule when to start and stop the sending of snapshots to the recipient's e-mail account.

**Interval:** The frequency of the snapshot interval can also be configured from 1 to 65535 seconds.

**Test E-mail** This will send a snapshot to the e-mail account that you have configured in the **E-mail** section. If you have configured the SMTP **Account:** account correctly, you will be able to send a test file to the e-mail account of the recipient.

# Setup > FTP

## FTP Server

This section allows you to configure a FTP server to receive images from the camera.

**Host Address:** This is the IP address of the FTP server that you will be connecting to.

**Port Number:** Default is port 21. If changed, external FTP client program must change the server connection port accordingly.

**User Name:** Specifies the user name to access the external FTP server. If you are to upload snapshots to an FTP server you will need to fill in the Domain name or IP address of your external FTP server. The following user settings must be correctly configured for remote access.

**Password:** Specifies the password to access the external FTP server.

**Directory Path:** Specifies the destination folder in the external FTP server.

**Passive Mode:** Enabling passive mode will allow access to an external FTP server if your camera is behind a router protected by a firewall.

**FTP**

In this section, you may configure a FTP server to receive the images.
 

Save Settings
Don't Save Settings

**FTP SERVER**

Host Name	<input style="width: 90%;" type="text"/>	
Port	<input style="width: 60%;" type="text" value="21"/>	(Default is 21)
User Name	<input style="width: 90%;" type="text"/>	
Password	<input style="width: 90%;" type="password"/>	
Path	<input style="width: 90%;" type="text" value="/"/>	
Passive Mode	<input type="radio"/> Yes <input checked="" type="radio"/> No	

**TIME SCHEDULE**

Enable uploading images to the FTP server

Always

Schedule
 

Day	<input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat <input type="checkbox"/> Sun
Time Period	Start : <input style="width: 60%;" type="text" value="00:00:00"/> (Example : 06:30:00) Stop : <input style="width: 60%;" type="text" value="00:00:00"/> (Example : 22:30:00)

Motion Detection

Image Frequency   Frames/Second

Seconds/Frame

Base File Name

File

Overwrite

Date/Time Suffix

Sequence Number Suffix Up to

**TEST FTP SERVER**

A JPEG file will be sent to the above FTP server for testing.  
(File name: test\_date\_time.jpg)

Save Settings
Don't Save Settings

## Time Schedule

### Enable upload image to

**FTP server:** Checking this box will enable video uploads to the FTP server you have selected.

**Always:** Selecting this option allows snapshots to be uploaded to your FTP as soon as you click **Apply**.

**Schedule:** Selecting this option allows you to configure specific times when you want the snapshots to be uploaded to your FTP server.

**Video Frequency:** Users can select in frames per second (1, 2, 3 or auto, in auto this could go to 4). The user can also select a duration for each frame from 1 to 65535 seconds.

**Base File Name:** This will be the name that precedes the time, for example DCS9302010072116425101.jpg. This means that the camera took a snapshot in the year 2010, July 21 at 16th hour (4 o'clock), 42 minutes and 51 seconds and it is picture number one.

**File:** If **Overwrite** is selected, only a few images will be constantly refreshed, depending on how many snapshots you choose to have sent. Select **Date/Time Suffix** and the pictures will be named with a date and time also. An example of this can be seen above under the **Base file name** category. Select a **Sequence Number Suffix** up to 1024 and all the pictures will be numbered from 1-1024. Up to 1024 pictures can be configured. Picture number 1025 will reset to number 1.

**Test FTP Server:** This will send a snapshot to the FTP server that you have configured in the **Upload** section. If you have configured the FTP correctly, you will be able to see a test file on your FTP server.

## Setup > Time and Date

This section allows you to configure the settings of the internal system clocks for your camera.

**Test FTP Server:** Select the time zone for your region from the pull-down menu.

**Synchronize NTP Server:** Network Time Protocol will synchronize your camera with an Internet time server. Choose the one that is closest to your camera.

**Copy your Computer's Time Settings:** Click to synchronize the time information from your PC.

**Set the Date and Time Manually:** Select this to set the time manually.

**TIME AND DATE**

The Time Configuration option allows you to configure, update, and maintain the internal system clock. From this section you can set the time zone that you are in, and set the NTP (Network Time Protocol) Server.

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**TIME CONFIGURATION**

Current Time 29 Apr 2010 3:14:16 P.M.  
 Time Zone (GMT-05:00) Eastern Time (US & Canada) ▼

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**AUTOMATIC TIME CONFIGURATION**

Synchronize NTP Server   
 NTP Server Used << Select NTP Server ▼

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**SET THE DATE AND TIME MANUALLY**

Year 2010 ▼ Month 4 ▼ Day 29 ▼  
 Hour 15 ▼ Minute 14 ▼ Second 15 ▼

## Maintenance > Admin

This section allows you to change the administrator's password and configure the server settings for your camera. You can also manage the user account(s) that access to your camera.

**Camera Name:** Specify a name for your camera

**LED Control:** Select **Normal** to enable the LED on the front of the device, or select off to disable the LED.

**User Access Control:** Select **Enable** to enable user access control or **Disable** to allow only the administrator account to access the camera.

**Snapshot URL Authentication:** Select **Enable** to allow access to the current camera snapshot via the web address indicated.

**Add User Account:** Create new user for accessing the video image. Enter the user name, password, and password confirmation, and click **Add**. A maximum of 8 user accounts can be added into the user list.

**User List:** Displays the account names of authorized users.

**ADMIN**

Here you can change the administrator's password and configure the server setting for your camera. You can also add, modify and/or delete the user account(s).

**ADMIN PASSWORD SETTING**

Old Password

New Password

Retype Password

**SERVER SETTING**

Camera Name

LED Control  Normal  Off

User Access Control  Enable  Disable

Snapshot URL Authentication  Enable  Disable (http://172.17.5.72/image/jpeg.cgi)

**ADD USER ACCOUNT**

User Name

Password

Retype Password

**USER LIST**

no.	name	modify delete
1	Ronald	<input type="button" value="edit"/> <input type="button" value="trash"/>

## Maintenance > System

This section allows you to save and restore your configuration, restore the factory settings, and/or restart the camera.

**SYSTEM**

Here you can save and restore your configuration, restore the factory settings, and/or restart the camera.

**SYSTEM**

Save To Local Hard Drive	<input type="button" value="Save Configuration"/>
Load From Local Hard Drive	<input type="text"/> <input type="button" value="Browse..."/>
	<input type="button" value="Restore Configuration From File"/>
Restore To Factory Default	<input type="button" value="Restore Factory Defaults"/>
Reboot The Device	<input type="button" value="Reboot the Device"/>



## Maintenance > 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 versions available.

To upgrade the firmware on your **DCS-930\_A2**, 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 using the **Browse** button. Then, open the file and click the **Upload** button to start the firmware upgrade.

The screenshot displays the D-Link web interface for the DCS-930 camera. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE' (which is selected), 'STATUS', and 'HELP'. The left sidebar contains 'Admin', 'System', 'Firmware Upgrade', and 'Logout'. The main content area is titled 'FIRMWARE UPGRADE' and contains the following text:

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

Below this text is a section titled 'FIRMWARE INFORMATION' showing:

Current Firmware Version : 1.00  
Current Firmware Date : 2010-04-29

At the bottom of the main content area is another 'FIRMWARE UPGRADE' section with a 'File Path' label, a text input field, a 'Browse...' button, and an 'Upload' button.

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

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

## Status > Device Info

This section displays all the details information about your device and network settings.

### DEVICE INFO

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

### BASIC INFORMATION

Camera Name	DCS-930
Time & Date	03 May 2010 11:06:11 A.M.
Firmware Version	0.80 (2010-04-29)
IP Address	172.17.5.72
Subnet Mask	255.255.255.0
Default Gateway	172.17.5.254
Primary DNS	192.168.168.250
Secondary DNS	192.168.168.201
DDNS	Disable
FTP Server Test	No test conducted.
E-mail Test	No test conducted.

### WIRELESS STATUS

Connection Mode	Infrastructure
Link	No
SSID	dlink (MAC : 00 00 00 00 00 00)
Channel	6
Encryption	WPA2PSK-AES

Refresh

## Status > Active User

This page lists all the active user's information including the User Name, IP address, and the time that camera access began.

### ACTIVE USER

This page lists all the active user's informations include user name, IP address and the time start accessing the camera.

### USER LIST

no.	user name	IP address	time
1	Ronald	172.17.5.95	2010-05-03 11:12:35

Refresh

# Using & Configuring the **DCS-930\_A2**

D-Link's **DCS-930\_A2** is a versatile and cost effective Network Camera for video monitoring. It can also serve as a powerful surveillance system in security applications. The **DCS-930\_A2** can be used with any wired or 802.11n wireless router. This section explains how to view the camera from either the Internet or from inside your internal network.

## Materials Needed:

- 1 **DCS-930\_A2** Network Camera
- 1 Ethernet Cable
- A Wired or Wireless router such as the D-Link DI-624 Wireless Router
- Ethernet based PC for system configuration

## Setting Up the **DCS-930\_A2** for Use Behind a Router

Installing a **DCS-930\_A2** Network Camera on your network is an easy 4–step procedure:

1. Assign a Local IP Address to Your Network Camera
2. View the Network Camera Using Your Internet Explorer Web Browser
3. Access the Router with Your Web Browser
4. Open Virtual Server Ports to Enable Remote Image Viewing

This section is designed to walk you through the setup process for installing your camera behind a router and enable remote video viewing. For the basic setup of the **DCS-930\_A2** follow the steps outlined in the Quick Installation Guide.

After you have completed the setup of the **DCS-930\_A2** outlined in the Quick Installation Guide you will have an operating camera that has an assigned IP Address. Because you are using a router to share the Internet with one or more PCs, the IP Address assigned to the Network Camera will be a local IP Address. This allows viewing within your Local Area Network (LAN) until the router is configured to allow remote viewing of the camera over the Internet.

### 1. Assign a Local IP Address to Your Camera

Run the Setup Wizard program from the CD included with the DCS-930. Follow the steps in the Quick Installation Guide to configure the **DCS-930\_A2**. The camera will be assigned a local IP Address that allows it to be recognized by the router. Write down this IP Address for future reference.

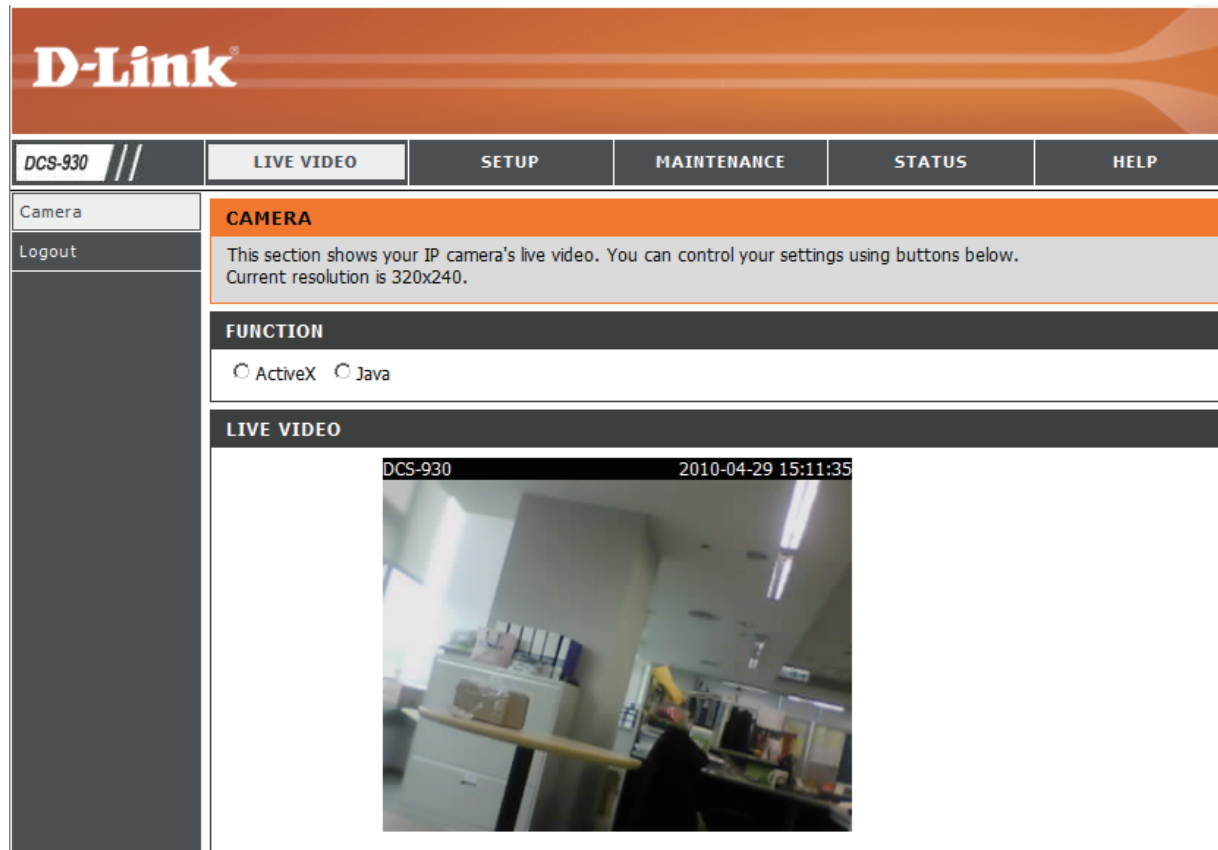
This is the IP Address assigned to your camera (192.168.0.120 is only an example). You will probably have a different IP Address.



## 2. View the Network Camera Using Your Internet Explorer Web Browser

Run your Internet Explorer Web browser. In the address bar, type in the IP Address that was assigned to the Network Camera by the Installation Wizard program. The **DCS-930\_A2** Home Page appears with a window displaying live video from the camera. You are able to view this screen from any PC running Internet Explorer on your LAN.

Click on the Configuration button on the left side of the display. Scroll to the bottom of the Network Configuration page to display the ports used by HTTP and Streaming video.



The screenshot displays the D-Link web interface for the DCS-930 camera. At the top, the D-Link logo is visible on an orange background. Below the logo is a navigation bar with tabs for **DCS-930**, **LIVE VIDEO**, **SETUP**, **MAINTENANCE**, **STATUS**, and **HELP**. The **LIVE VIDEO** tab is selected. On the left side, there is a sidebar with **Camera** and **Logout** options. The main content area is titled **CAMERA** and contains the following text: "This section shows your IP camera's live video. You can control your settings using buttons below. Current resolution is 320x240." Below this text is a **FUNCTION** section with two radio buttons:  ActiveX and  Java. The **LIVE VIDEO** section features a video player window showing a live feed from the camera. The video player has a black header with "DCS-930" on the left and "2010-04-29 15:11:35" on the right. The video feed shows an indoor office or laboratory setting with a white cabinet and a person in the background.

# Technical Specifications

## SYSTEM REQUIREMENTS

- Operating System: Microsoft Windows XP, Vista, Windows 7
- Internet Explorer 6 or above , Firefox 3.5 or above, Safari 4

## NETWORKING PROTOCOL

- IPV4, ARP, TCP, UDP, ICMP
- DHCP Client
- NTP Client (D-Link)
- DNS Client
- DDNS Client (Dyndns and D-Link)
- SMTP Client
- FTP Client
- HTTP Server
- PPPoE
- UPnP Port Forwarding
- LLTD
- UPnP-X1

## BUILT-IN NETWORK INTERFACE

- 10/100BASE-TX Fast Ethernet
- 802.11b/g/n WLAN

## WIRELESS CONNECTIVITY

- 802.11b/g/n Wireless with WEP/WPA/WPA2 security

## WIRELESS TRANSMIT OUTPUT POWER

- 16 dbm for 11b, 12 dbm for 11g, 12 dbm for 11n (typical)

## SDRAM

- 32 MB

## FLASH MEMORY

- 4 MB

## RESET BUTTON

- Reset to factory default

## VIDEO CODECS

- MJPEG
- JPEG for still images

## VIDEO FEATURES

- Adjustable image size and quality
- Time stamp and text overlay
- Flip and Mirror

## RESOLUTION

- 640 x 480 at up to 20 fps
- 320 x 240 at up to 30 fps
- 160 x 120 at up to 30 fps

### **LENS**

- Focal length: 5.01 mm, F2.8

### **SENSOR**

- VGA 1/5 inch CMOS Sensor

### **MINIMUM ILLUMINATION**

- 1 lux @ F2.8

### **VIEW ANGLE**

- Horizontal: 45.3°
- Vertical: 34.5°
- Diagonal: 54.9°

### **DIGITAL ZOOM**

- Up to 4x

### **3A CONTROL**

- AGC (Auto Gain Control)
- AWB (Auto White Balance)
- AES (Auto Electronic Shutter)

### **POWER**

- Input: 100-240 V AC, 50/60 Hz
- Output: 5 V DC, 1.2 A
- External AC-to-DC switching power adapter

### **DIMENSIONS (W X D X H)**

- Including the bracket and stand:  
65.8 x 65 x 126 mm
- Camera only:  
27.2 x 60 x 96 mm

### **WEIGHT**

- 76.9 g (without bracket and stand)

### **MAX POWER CONSUMPTION**

- 2 W

### **OPERATION TEMPERATURE**

- 0 °C to 40 °C (32 °F to 104 °F)

### **STORAGE TEMPERATURE**

- -20 °C to 70 °C (-4 °F to 158 °F)

### **HUMIDITY**

- 20-80% RH non-condensing

### **EMISSION (EMI), SAFETY & OTHER CERTIFICATIONS**

- FCC Class B
- IC
- C-Tick
- CE



# FCC Notices

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.

CAUTION: Change or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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 communications. 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.

## CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

## RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance."

# **Canada Notices**

## **Industry Canada regulatory information**

**Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.**

**The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.**

**Canada, avis d'Industry Canada (IC)**

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

**Informations concernant l'exposition aux fréquences radio (RF)**

La puissance de sortie émise par l'appareil de sans fil Dell est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil Dell de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a été évalué et démontré conforme aux limites SAR (Specific Absorption Rate – Taux d'absorption spécifique) d'IC lorsqu'il est installé dans des produits hôtes particuliers qui fonctionnent dans des conditions d'exposition à des appareils portables (les antennes se situent à moins de 20 centimètres du corps d'une personne).

Ce périphérique est homologué pour l'utilisation au Canada. Pour consulter l'entrée correspondant à l'appareil dans la liste d'équipement radio (REL - Radio Equipment List) d'Industry Canada rendez-vous sur:

<http://www.ic.gc.ca/app/sitt/reldel/srch/nwRdSrch.do?lang=eng>

Pour des informations supplémentaires concernant l'exposition aux RF au Canada rendez-vous sur : <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html>