



# User Manual

## Wireless N H.264 Network Camera

DCS-931L

---

# Manual Overview

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes. Information in this document may become obsolete as our services and websites develop and change. Please refer to the [www.mydlink.com](http://www.mydlink.com) website for the most current information.

## Manual Revision

Revision	Date	Description
1.00	January 16, 2013	Initial release

## Trademarks

D-Link and the D-Link logo are trademarks or registered trademarks of D-Link Corporation or its subsidiaries in the United States or other countries. All other company or product names mentioned herein are trademarks or registered trademarks of their respective companies.

Copyright © 2012-2013 by D-Link Corporation.

All rights reserved. This publication may not be reproduced, in whole or in part, without prior expressed written permission from D-Link Corporation.

# Table of Contents

<b>Product Overview.....</b>	<b>4</b>	Setup.....	21
Package Contents.....	4	Wizard.....	21
System Requirements.....	4	Internet Connection Setup Wizard.....	22
Introduction.....	5	Network Setup.....	24
Features.....	6	Wireless Setup.....	25
Hardware Overview.....	7	Extender Setup.....	26
Front View.....	7	DDNS.....	27
Rear View.....	8	Image Setup.....	28
<b>Installation.....</b>	<b>9</b>	Video.....	29
Zero Configuration Setup.....	10	Audio.....	30
Camera Installation Wizard.....	13	Motion Detection.....	31
Windows Users.....	13	Sound Detection.....	32
Mac Users.....	14	Mail.....	33
Manual Hardware Installation.....	15	FTP.....	35
Wireless Installation Considerations.....	16	Time and Date.....	37
WPS - Push Button Setup.....	17	Maintenance.....	38
mydlink.....	18	Admin.....	38
<b>Configuration.....</b>	<b>19</b>	System.....	39
Using the Web Configuration Interface.....	19	Firmware Upgrade.....	40
Live Video.....	20	Status.....	41
		Device Info.....	41
		Active User.....	42
		<b>Troubleshooting.....</b>	<b>43</b>
		<b>Technical Specifications.....</b>	<b>46</b>

## Package Contents

- DCS-931L Wireless N H.264 Network Camera
- CAT5 Ethernet Cable
- Power Adapter
- Manual and Software on CD
- Quick Install Guide
- Mounting Kit

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

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



## System Requirements

- Computer with Microsoft Windows® 8/7/Vista/XP, or Mac with OS X 10.6 or higher
- PC with 1.3GHz or above and at least 128MB RAM
- Internet Explorer 7, Firefox 12, Safari 4, or Chrome 20 or higher version with Java installed and enabled
- Existing 10/100 Ethernet-based network or 802.11g/n wireless network

# Introduction

Congratulations on your purchase of the DCS-931L Wireless N H.264 Network Camera. The DCS-931L is a versatile and unique solution for your small office or home. Unlike a standard webcam, the DCS-931L is a complete system with a built-in CPU and web server that transmits high quality video images for security and surveillance.

The DCS-931L can be accessed remotely, and controlled from any PC/Notebook over your local network or through the Internet via a web browser. The simple installation and intuitive web-based interface offer easy integration with your Ethernet/Fast Ethernet or 802.11 b/g/n wireless network, and its Extender Mode even allows you to increase your wireless network's coverage. The DCS-931L also comes with remote monitoring and motion detection features for a complete and cost-effective home security solution.

Your DCS-931L is mydlink-enabled, which means that you can view and manage your camera from anywhere over the Internet through the mydlink website or through the mydlink mobile app for iOS and Android. You can view your live video feed, take snapshots, set a recording schedule, and more!

# Features

## **Easy to Use and mydlink-Enabled for Easy Access and Management**

The DCS-931L is a standalone surveillance camera that requires no special hardware or software, and can run independently even without a PC. This camera is also mydlink-enabled, which means you can view and manage your camera through the mydlink website, or through the mydlink mobile app for iOS and Android.

## **H.264 Codec for Smooth, Space-Efficient Video**

This camera supports use of the H.264 video codec, which gives you high-quality video with reduced bandwidth requirements. This means that you can enjoy smoother, more reliable video streaming over the Internet, and less disk space is required to save recordings.

## **Motion and Sound Triggered Notifications and Recordings**

The DCS-931L can send e-mail notifications with snapshots or video clips whenever motion or sound is detected. You can customize areas of the video to monitor for motion to keep watch over entryways, and you can set volume limits to detect when a loud sound is picked up by the camera.

## **Supports a Variety of Platforms**

Supports TCP/IP networking, HTTP, and other Internet related protocols. The DCS-931L can also be integrated easily into other Internet/Intranet applications because of its standards-based features.

## **802.11b/g/n Wireless or Ethernet/Fast Ethernet Support**

The DCS-931L offers wireless 802.11b/g/n and Ethernet/Fast Ethernet connectivity, making the DCS-931L easy to integrate into your existing network environment. The DCS-931L works with a 10Mbps Ethernet based network or 100Mbps Fast Ethernet based network for traditional wired environments, and works with 802.11b/g/n routers or access points for added flexibility. The Site Survey feature also allows you to view and connect to any available wireless networks.

## **Extender Mode Increases the Range of Your Wireless Network**

You can use the DCS-931L's Extender Mode to extend the range of your wireless network, giving your home or office better wireless coverage.

## **Remote Monitoring Utility**

This camera also includes the D-ViewCam software, which adds enhanced features and functionality that helps you create a full surveillance system for up to 32 cameras. With D-ViewCam, you can view multiple cameras at the same time, record video, and set up scheduled and triggered recordings.

# Hardware Overview

## Front View



## Rear View





# Installation

There are three ways to set up your camera:

**Zero Configuration Setup:** If you have a mydlink-enabled router, this is the easiest way to set up your camera. Refer to page 10.

**Camera Installation Wizard:** If you do not have a mydlink-enabled router, use the Camera Installation Wizard to guide you through setup and initial configuration of your camera. Refer to page 13.

**Manual Hardware Installation:** This section shows you how to manually set up your camera, though in order to use the mydlink features of your camera, you will still need to run the Camera Installation Wizard. Refer to page 15.

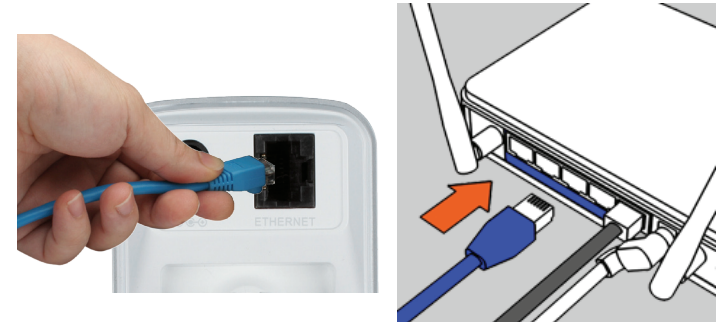
# Zero Configuration Setup

If you have a mydlink-enabled Cloud Router, you can take advantage of Zero Configuration. Zero Configuration automatically configures your camera's settings for you, and adds it to your mydlink account automatically. This type of setup allows you to set up your camera by simply plugging it in and connecting it to your router.

Connect your camera to your mydlink-enabled Cloud Router and Zero Configuration will automatically configure your DCS-931L and automatically add the camera to your mydlink account. After the short time it takes to do this you can remotely access your camera from the [www.mydlink.com](http://www.mydlink.com) website to manage and monitor your DCS-931L.

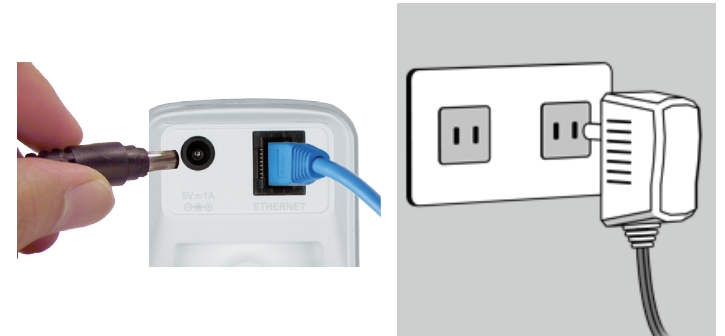
## Connect the Ethernet Cable

Use the included Ethernet cable and plug it into the camera. Plug the other end into an available port on your router. If you wish to use your camera wirelessly, you will be able to remove the cable after Zero Configuration Setup is complete.



## Attach the External Power Adapter

Connect the power adapter to the power connector on your camera, then plug the power adapter into a wall outlet.



## Check Your mydlink Account

Open a web browser and login to your mydlink account. The mydlink page will check for new devices and display a **New device Found!** pop-up notification in the bottom-left corner. Click the notification to continue.

A summary and confirmation notification will appear with the automatically configured details. Make a note of the details and click **Yes** to add the camera to your account.

The screenshot shows the mydlink web interface for a DIR-605L router. The top navigation bar includes 'My Devices', 'Shared Devices', 'My Services', and 'My Profile'. The main content area is titled 'Router Status' and displays the following information:

- Model Name: DIR-605L
- Network Name (SSID): Taonet
- Internet IP: 192.168.1.103
- LAN IP: 192.168.0.1
- Connected Devices: 5 device(s)

Below this information is a 'Connection List' table:

Device	Device Name	IP Address	MAC Address	Block
	CardboardBox	192.168.0.110	00:26:2D:02:FE:FA	<input type="checkbox"/>
	--	192.168.0.120	04:54:53:50:53:18	<input type="checkbox"/>
	HeiGuy	192.168.0.100	00:1A:92:E2:4D:C9	<input type="checkbox"/>
	--	192.168.0.121	28:E0:2C:DC:0A:BE	<input type="checkbox"/>
	--	192.168.0.101	F9:A2:25:AA:8C:C3	<input type="checkbox"/>

At the bottom left of the interface, a notification pop-up is visible with the text 'New Devices!' and 'DCS-931L'.

### Confirming New Device

Do you want to add this new device to your mydlink account?

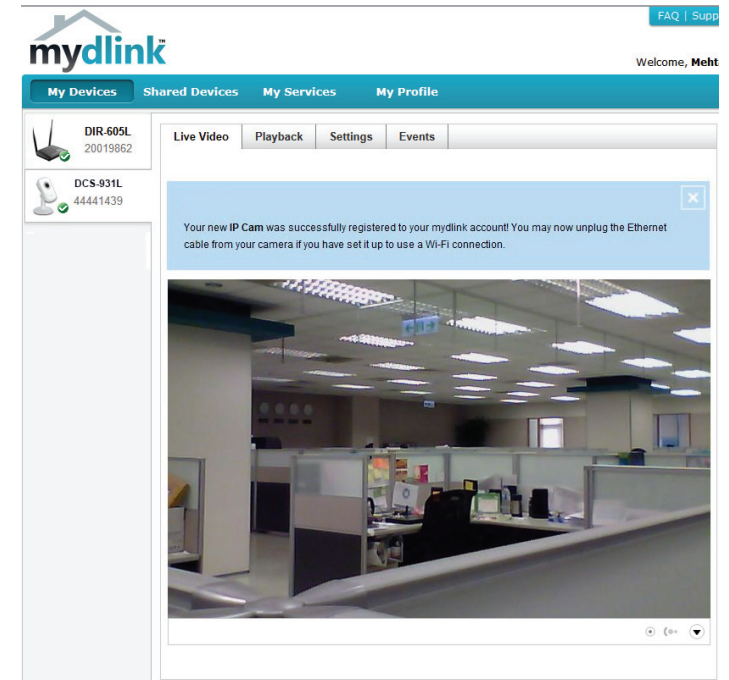
**Device Name: DCS-931L**  
**mydlink Number: 44441252**  
**Network name (SSID): dddddd**  
**Admin Password: oic953XZ**

You can change these default settings by going to **Advanced Settings** after add it to your device list.

Zero Configuration will navigate to the mydlink Live View tab for your camera where you will see a screen similar to the following.

If you wish to connect your camera to your router wirelessly, you can simply disconnect the Ethernet cable and move the camera to its intended location; your router's wireless settings have been automatically transferred to the camera, and no further configuration is required.

Your camera is now set up, and you can skip to “mydlink” on page 18 to learn more about the mydlink features of this camera, or to “Configuration” on page 19 for advanced configuration of your camera.



# Camera Installation Wizard

## Windows Users

Insert the Installation CD-ROM into your computer's optical drive to start the autorun program.

Simply click **Set up your Cloud Camera** to go through the Setup Wizard, which will guide you step-by-step through the installation process from connecting your hardware to configuring your camera and registering it with your mydlink account.

mydlink DCS-931L Setup Wizard

**Set up your Cloud Camera**

Click here for an easy step-by-step wizard that guides you through installation.

You can set up your camera to use mydlink Cloud service, or you can choose to have the camera run independently.

[\\*Zero Configuration](#) is recommended if you have a registered Cloud Router with mydlink.

**Install D-ViewCam**

D-ViewCam is a highly versatile application for creating a multi-camera local surveillance system for your home or office.

Exit

■ [Camera User Manual](#) ■ [Quick Installation Guide](#) ■ [D-View Cam Manual](#) ■ [Adobe Reader](#)

**Note:** If the autorun program does not open, go to My Computer, browse to your CD drive, and double-click on the autorun.exe file.

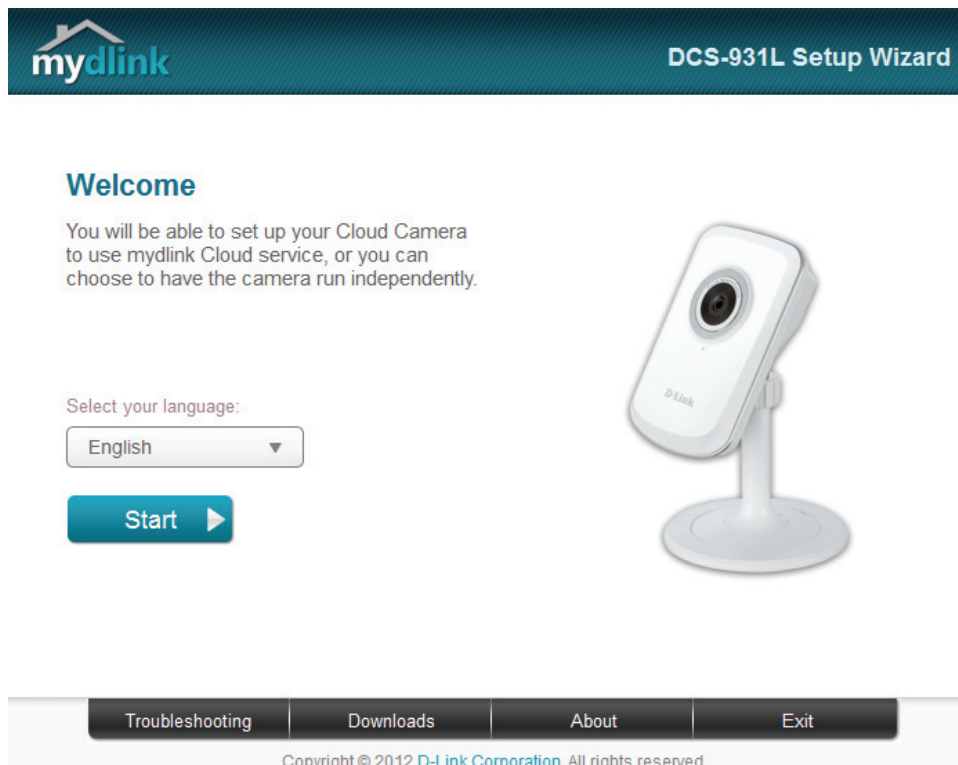


## Mac Users

Insert the Installation CD-ROM into your computer's optical drive. On the desktop, open your CD drive and double-click on the **SetupWizard** file.



After about 20-30 seconds, the Setup Wizard will open, which will guide you step-by-step through the installation process from connecting your hardware to configuring your camera and registering it with your mydlink account.



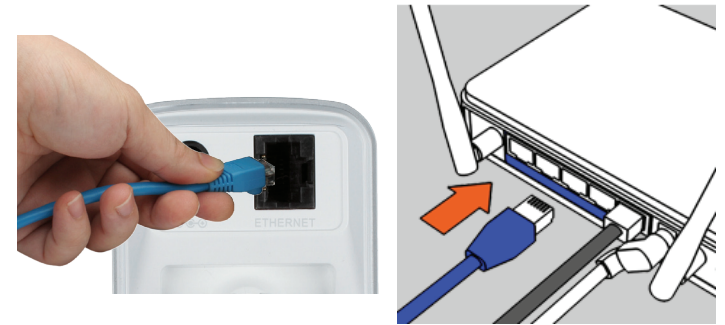
# Manual Hardware Installation

If you wish to set up your camera without using the Camera Setup Wizard, please follow these steps.

**Note:** In order to use the mydlink features of this product, you will need to go through the Camera Setup Wizard or Zero Configuration Setup.

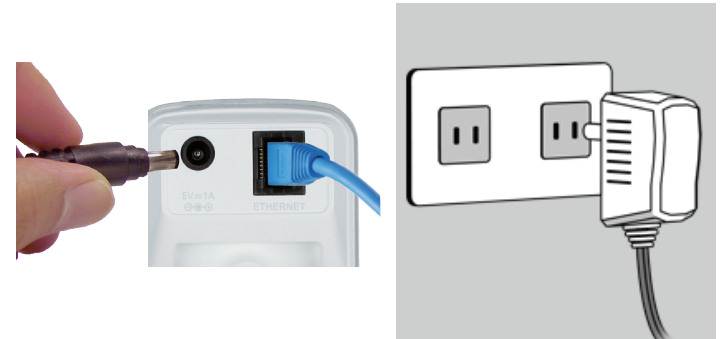
## Connect the Ethernet Cable

Use the included Ethernet cable and plug it into the camera. Plug the other end into an available port on your router.



## Attach the External Power Adapter

Connect the power adapter to the power connector on your camera, then plug the power adapter into a wall outlet.



## Configure Your Camera

Refer to "Configuration" on page 19 for information on how to configure your camera.

## Optional: Use WPS to Connect Wirelessly

You can use WPS to connect your camera to your network wirelessly. For more information, refer to "WPS - Push Button Setup" on page 17. If your router does not support WPS, you will still be able to set up your camera's wireless settings in the camera's web interface.

# Wireless Installation Considerations

The D-Link Wireless Network Camera lets you access your network using a wireless connection from anywhere within the operating range of your wireless network. However, the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

1. Minimize the number of walls and ceilings between your adapter and other network devices (such as your Network Camera) - each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters).
2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle, it looks over 42 feet (14 meters) thick. Position your devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building Materials make a difference. A solid metal door or aluminum studs may weaken the wireless signal. Try to position your access points, wireless routers, and other networking devices where the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
4. Keep your product at least 3-6 feet or 1-2 meters away from electrical devices or appliances that generate RF noise.
5. If you are using 2.4GHz cordless phones or other radio frequency sources (such as microwave ovens), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.



# WPS - Push Button Setup

Alternatively, you may create a secure wireless connection using the WPS Button on the back of the camera.

## To create a WPS connection:

### Step 1

Make sure the camera is plugged in, then press and hold the WPS button for three seconds. The blue WPS status LED will start blinking.

### Step 2

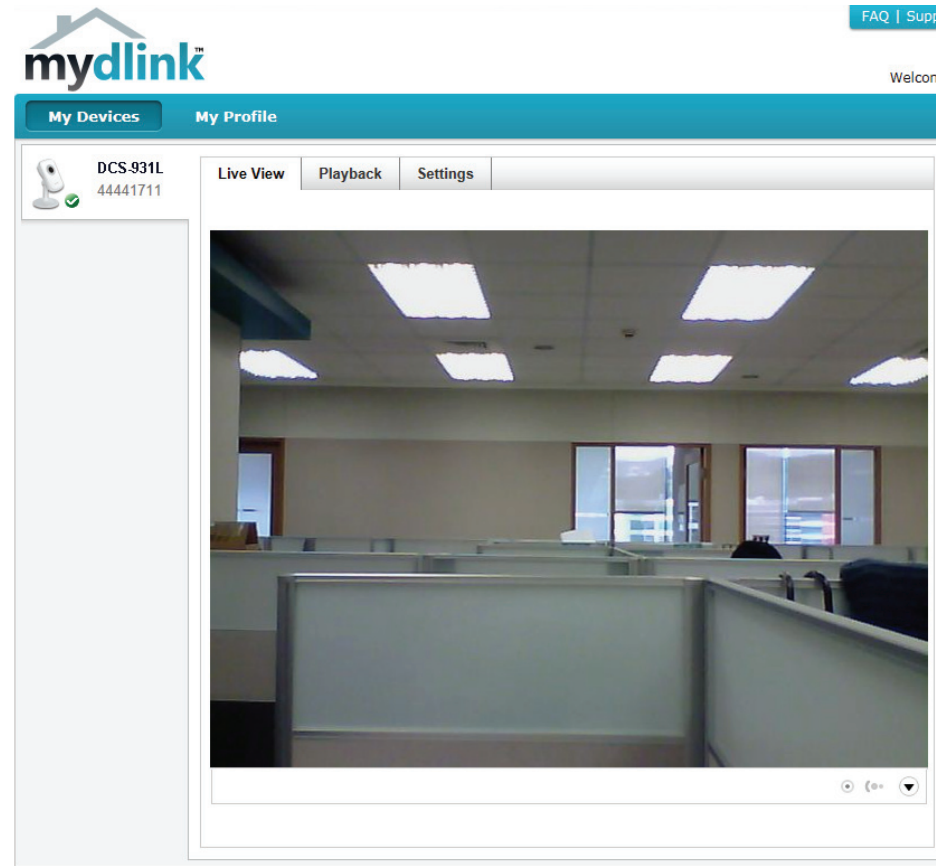
Press the WPS button on your router within 60 seconds. The WPS button is usually on the front or side of your router. On some routers, you may need to log in to the web interface and click on an on-screen button to activate the WPS feature. If you are not sure where the WPS button is on your router, please refer to your router's User Manual.

The DCS-931L will automatically create a secure wireless connection to your router. While connecting, the green LED will flash and your camera will reboot.



# mydlink

After registering your DCS-931L camera with a mydlink account in the Camera Installation Wizard, you will be able to remotely access your camera from the [www.mydlink.com](http://www.mydlink.com) website. After signing in to your mydlink account, you will see a screen similar to the following:



For more details on using your camera with mydlink, go to the **Support** section of the mydlink website and check the **User Manual** section for your product to find the latest instruction guide for your camera's mydlink features.

# Configuration

## Using the Web Configuration Interface

After completing the Camera Installation Wizard, you are ready to use your camera. The camera's built-in Web configuration interface is designed to allow you to easily access and configure your DCS-931L. At the end of the wizard, enter the IP address of your camera into a web browser, such as Internet Explorer®. To log in, use the User name **admin** and the password you created in the Installation Wizard. If you did not create a password, the default password is blank. After entering your password, click **OK**.

**Note:** If you are directly connecting your PC to the camera, or if you are using the camera on a closed network, the default IP is **192.168.0.20**.



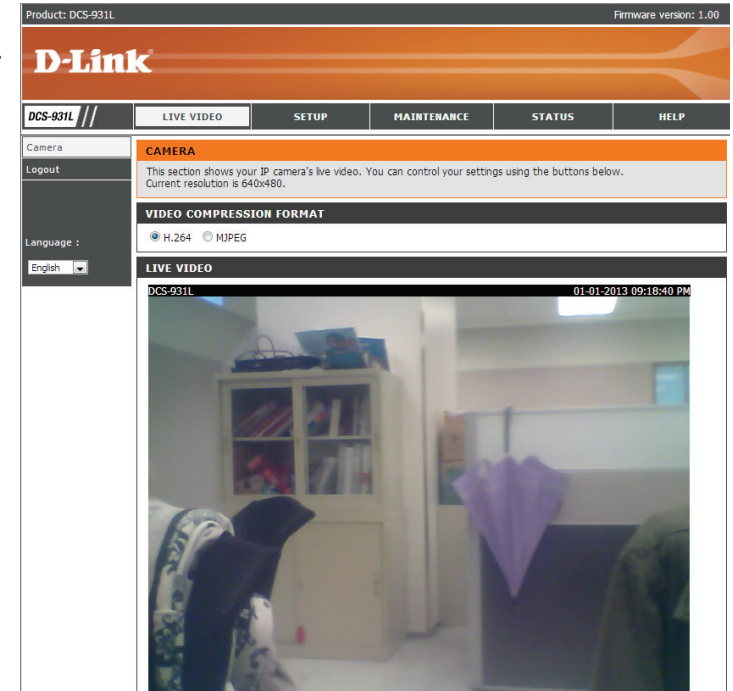
# Live Video

The Live Video screen shows you the live video feed from your camera. For information on how to configure your Live Video streams, refer to "Video" on page 29.

**Video Compression Format:** Click the **H.264** or **MJPEG** radio button to choose which stream to view.

**Zoom:** Click on these buttons to zoom in and out of the video.

**Audio:** Click on these buttons to turn audio playback on and off.



# Setup Wizard

You may choose to configure your network by using the **Internet Connection Setup Wizard** that includes step-by-step instructions. Otherwise, you may manually configure your connection using the **Manual Internet Connection Setup**.

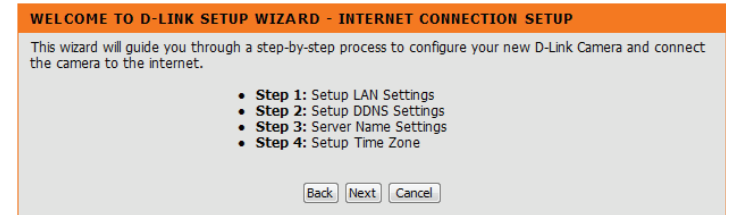
**Note:** To register your camera with mydlink and enable its mydlink-related features, you will need to use the Camera Installation Wizard. Please refer to “Camera Installation Wizard” on page 13 for more details.

The screenshot displays the D-Link DCS-931L web interface. At the top, it shows 'Product: DCS-931L' and 'Firmware version: 1.00'. The D-Link logo is prominently displayed. Below the logo, there are navigation tabs: 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is selected. On the left side, there is a vertical menu with options: 'Wizard', 'Network Setup', 'Wireless Setup', 'Extender Setup', 'Dynamic DNS', 'Image Setup', 'Video', 'Audio', 'Motion Detection', 'Sound Detection', 'Mail', 'FTP', 'Time and Date', and 'Logout'. The main content area is titled 'INTERNET CONNECTION SETTINGS'. It contains the following text: 'In this section, you can setup the IP camera's network interface settings. If you are configuring this device for the first time, D-Link recommends that you click the Internet Connection Setup Wizard button, and follow the instructions on screen. If you wish to modify or configure the IP camera settings manually, click the Manual Internet Connection Setup button.' Below this text are two buttons: 'Internet Connection Setup Wizard' and 'Manual Internet Connection Setup'. On the right side, there is a 'Helpful Hints...' section with the text: 'If you are an advanced user and have configured an Internet camera before, click "Manual Internet Connection Setup" to input all the settings manually.' At the bottom of the page, there is a 'SURVEILLANCE' section and a copyright notice: 'Copyright 2012 - 2013, D-Link Corporation / D-Link Systems, Inc. All rights reserved.'

## 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.

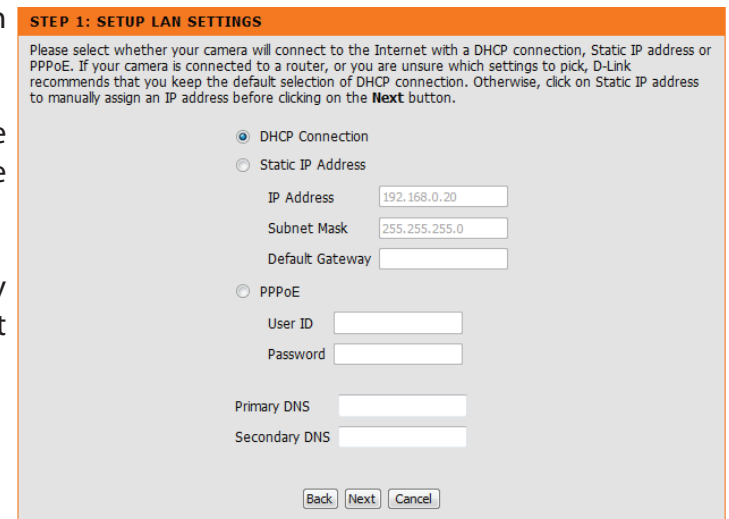
Click **Next** to continue.



Select what kind of Internet connection your camera should use:

- **DHCP Connection (Default):** If you are connected to a router, or are not sure which connection to use, select DHCP Connection.
- **Static IP Address:** This will allow you to manually enter your network settings for the camera. If you are not sure what settings to enter, check with your Internet Service Provider or network administrator.
- **PPPoE Connection:** If your camera is directly connected to a DSL modem, you may need to use PPPoE. Enter the username and password provided to you by your Internet Service Provider.

Click **Next** to continue.



## Section 3 - Configuration

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. Otherwise, simply select **Disable**.

Click **Next** to continue.

Enter a name for your camera. Click **Next** to continue.

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

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

### 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  << Select Dynamic DNS Server ▾

Host Name

User Name

Password

Timeout  hours

### 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

### STEP 4: SETUP TIME ZONE

Please select the camera's timezone and then click on the **Next** button.

Current Time 01 Jan 2012 12:37:14 A.M.  
Time Zone

### STEP 5: SETUP COMPLETE

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

IP Address	DHCP Connection
IP Camera Name	DCS-931L
Time Zone	(GMT-12:00) International Date Line West
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 a UPnP device in the network.

Product: DCS-931L Firmware version: 1.00

**D-Link**

DCS-931L // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Wizard  
 Network Setup  
 Wireless Setup  
 Extender Setup  
 Dynamic DNS  
 Image Setup  
 Video  
 Audio  
 Motion Detection  
 Sound Detection  
 Mail  
 FTP  
 Time and Date  
 Logout

**NETWORK SETUP**  
 You can configure your LAN and Internet settings here.

**LAN SETTINGS**

DHCP  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

**BONJOUR SETTINGS**

Bonjour  Enable  Disable

Bonjour Name   
 (Characters you may use in a Bonjour Name: "upper or lower case letters", "numbers" and "hyphens".)

**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-931L 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.  
 Port Settings - Most ISPs do not open port 80 (a DCS-931L default video transfer port) for their residential customers, the DCS-931L has the ability to use a different port by enabling the second http



# Wireless Setup

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

**Enable Wireless:** Check this box to allow your camera to connect to your network wirelessly.

**SSID:** Enter the network name (SSID) of the wireless network you want to connect to. You can also click the **Site Survey** button below to choose an available network and fill in settings automatically.

**Channel:** If you are using **Ad-Hoc** as your connection mode, select the same channel that is being used by your wireless network.

**Connection Mode:** Select the connection mode used by your wireless network. In most cases, you should select **Infrastructure**. **Ad-Hoc** is only used if your camera is directly connecting to another PC or device.

**Site Survey:** Clicking this button will allow you to select an available wireless network to connect to, and will fill in the necessary settings for you.

**Wireless Security Mode:** Select the wireless security mode used by your wireless network. If you select WEP or WPA-PSK/WPA2-PSK, enter the password for your wireless network in the text box that appears.

Product: DCS-931L Firmware version: 1.00

**D-Link**

DCS-931L // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

**WIRELESS SETUP**  
In this section, you can configure the wireless settings of your camera.  
Save Settings Don't Save Settings

**WIRELESS SETTINGS**  
Enable Wireless   
SSID   
Channel   
Connection Mode  Infrastructure  Ad-Hoc  
Site survey

**WIRELESS SECURITY MODE**  
Security Mode  None  WEP  WPA-PSK / WPA2-PSK  
Save Settings Don't Save Settings

**Helpful Hints.**  
You may enable the wireless setting on your camera and connect to a wireless network by entering the SSID (unique name of your wireless network). Then you may choose a channel number. When there is interference from the wireless networks that overlap with one another, you may change the channel to obtain maximum performance from your connection.  
There are two connection modes. **Infrastructure** is a wireless connection using an access point as the transmission point of all wireless devices. **Ad-Hoc** is a wireless connection used without an access point, which connects the

# Extender Setup

This section allows you to setup and configure the wireless network extending feature of your camera. Extender Mode allows your camera to extend the range of your existing wireless network. You can choose to use the same network name and settings as your existing wireless network, or you can create a new one.

**Enable Extender Mode:** Check this box to enable Extender Mode.

**Host Wireless Network Name:** This shows the name of the Host wireless network that the camera is connected to and will extend.

**Extended Wireless Network Name (SSID):** Select an option:

- **Same as Host Wireless Network Name:** Your extended network will use the same name and settings as your Host network. Your devices can use the same wireless information to connect to both the Host and Extended networks.
- **Create a New Wireless Network Name:** This allows you to manually set the name and security used for the extended network. You will need to add this information for each wireless device that connects to this Extended network.

**Maximum Clients Allowed to Connect:** Set the maximum number of clients that are allowed to connect to the extended network.

**Security Mode:** If you choose to **Create a New Wireless Network Name**, you can set your wireless security options here.

The screenshot shows the D-Link DCS-931L web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' menu is expanded, showing options like 'Wizard', 'Network Setup', 'Wireless Setup', 'Extender Setup', 'Dynamic DNS', 'Image Setup', 'Video', 'Audio', 'Motion Detection', 'Sound Detection', 'Mail', 'FTP', 'Time and Date', and 'Logout'. The 'Extender Setup' page is active, displaying the following content:

**EXTENDER SETUP**

In this section, you can configure the wireless extender feature of your camera, which allows you to extend the range of an existing wireless network. You can choose to keep the same wireless network name for the extended network, or you can create a new one.

Please note that you must be connected to another wireless network through the [Wireless Setup](#) page in order to use Extender Mode and configure these settings.

Buttons: Save Settings, Don't Save Settings

---

**EXTENDED WIRELESS NETWORK SETTINGS**

Enable Extender Mode

Host Wireless Network Name: dlink

Extended Wireless Network Name (SSID):

- Same as Host Wireless Network Name
- Create a new Wireless Network Name

Input field: dlink-ASBE

Maximum clients allowed to connect: 3

Buttons: Save Settings, Don't Save Settings

**Helpful Hints:**

For security there are three choices of wireless encryption, None, WEP, and WPA-PSK / WPA2-PSK. Select the same encryption method that is being used by your wireless device/router. If you have selected WPA-PSK or WPA2-PSK setting, you may need to enter the appropriate Pre-Shared Key in order to connect to the wireless network.

# 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.

**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.

The screenshot displays the web interface for a D-Link DCS-931L camera. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' menu is expanded, showing options like Wizard, Network Setup, Wireless Setup, Extender Setup, Dynamic DNS, Image Setup, Video, Audio, Motion Detection, Sound Detection, Mail, FTP, Time and Date, and Logout. The 'Dynamic DNS' option is selected, leading to the 'DYNAMIC DNS SETTINGS' page. This page features a 'Helpful Hints...' section on the right and a main configuration area. The configuration area includes radio buttons for 'Enable' and 'Disable' (with 'Disable' selected), a 'Server Address' dropdown menu, and input fields for 'Host Name', 'User Name', and 'Password'. A 'Timeout' field is set to '576' hours. 'Save Settings' and 'Don't Save Settings' buttons are located at the bottom of the configuration area. The footer of the interface reads 'SURVEILLANCE Copyright 2012 - 2013, D-Link Corporation / D-Link Systems, Inc. All rights reserved.'

# Image Setup

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

**Enable Antiflicker:** If you have lights flickering in your camera video, try enabling antiflicker. Otherwise, you should leave this disabled.

**Flip Image:** Select this box to vertically flip the video.

**Mirror:** Horizontally flip the video.

**Note:** If the camera is installed upside down, Flip Image and Mirror should both be checked

**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.

Product: DCS-931L Firmware version: 1.00

**D-Link**

DCS-931L // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Wizard  
Network Setup  
Wireless Setup  
Extender Setup  
Dynamic DNS  
Image Setup  
Video  
Audio  
Motion Detection  
Sound Detection  
Mail  
FTP  
Time and Date  
Logout

**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

**Helpful Hints...**

**Anti Flicker** - This feature will help to offset the interference of the lighting system and avoid the image flicker issue. ONLY use this option when it is necessary.

**Flip Image** - Flip the image vertically.

**Mirror** - Flip the image horizontally.

**Brightness, Contrast, or Saturation Control** - There are 11 settings (-5 to 5).

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

**SURVEILLANCE**

Copyright 2012 - 2013, D-Link Corporation / D-Link Systems, Inc. All rights reserved.

# Video

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

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

**Encode Type:** Your camera has separate settings for the H.264 and MJPEG video streams.

**Resolution:** Select the desired video resolution from three formats: 640x480, 320x240, and 160x112. Higher settings offer better quality, but will require more bandwidth to stream.

**FPS:** Select the frame rate(FPS) to use for the video stream. Higher settings offer better quality, but will require more bandwidth to stream.

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

**View Mode:** Select the default encoding to use when viewing your video on the **Live Video** page.

**Light Frequency:** Select the frequency used by your lighting and power to help reduce image flicker.

Product: DCS-931L Firmware version: 1.00

**D-Link**

DCS-931L // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Wizard  
Network Setup  
Wireless Setup  
Extender Setup  
Dynamic DNS  
Image Setup  
Video  
Audio  
Motion Detection  
Sound Detection  
Mail  
FTP  
Time and Date  
Logout

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

**VIDEO PROFILE**

Encode Type	Resolution	Bit Rate	Frame Rate
H.264	640 x 480	2 Mbps	30
Encode Type	Resolution	Jpeg Quality	Frame Rate
MJPEG	640 x 480	Medium	Auto

Default View Mode : H.264

**LIGHT FREQUENCY**

50 Hz  60 Hz

**Helpful Hints...**

**Resolution** - 3 settings are available.  
1. QVGA @ 160x112 - Usually used for display on handheld devices.  
2. QVGA @ 320x240 - Standard resolution for mobile phones, and PDAs  
3. VGA @ 640x480 - Standard resolution for computer display.

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

**Frame Rate** (frames per second) - The higher the frame rate, the smoother the video will appear. Note that a higher frame rate setting also uses more bandwidth.

**Jpeg Quality** - Default value is Medium.

**Light Frequency** - 2 options, 50 or 60 Hz. Default value is 60 Hz.

**SURVEILLANCE**

Copyright 2012 - 2013, D-Link Corporation / D-Link Systems, Inc. All rights reserved.

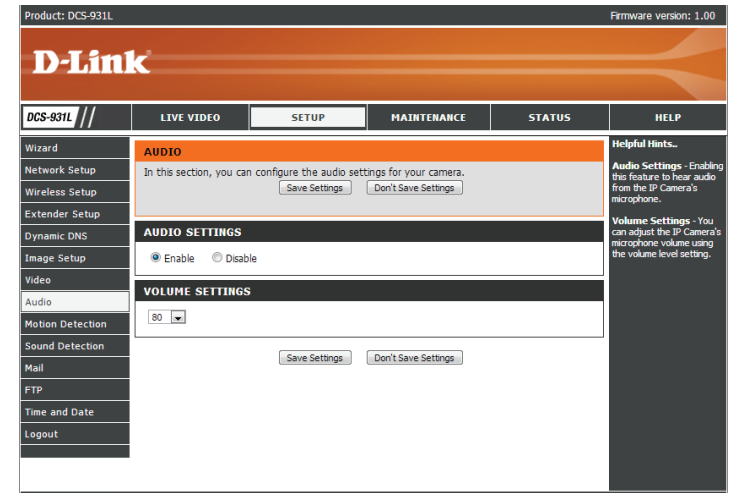
# Audio

This section allows you to adjust the audio settings for your camera.

**Note:** Please wait a few seconds for the camera to adjust the audio after making changes.

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

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



# Motion Detection

Motion detection allows you to mark areas of your camera's video to monitor for motion, which can be used to trigger snapshots or recordings. Refer to "Mail" on page 33 and "FTP" on page 35 for more details.

**Motion Detection:** Select whether you want to enable or disable the motion detection feature of your camera.

**Time:** Specify whether you want to **Always** have motion detection enabled, or according to a **Schedule** that you define.

**Sensitivity:** Specify the amount of difference required to determine whether there was motion.

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

The screenshot shows the D-Link DCS-931L web interface. At the top, it displays 'Product: DCS-931L' and 'Firmware version: 1.00'. The D-Link logo is prominent. A navigation menu on the left includes options like 'Wizard', 'Network Setup', 'Wireless Setup', 'Extender Setup', 'Dynamic DNS', 'Image Setup', 'Video', 'Audio', 'Motion Detection', 'Sound Detection', 'Mail', 'FTP', 'Time and Date', and 'Logout'. The 'Motion Detection' menu item is selected.

The main content area is titled 'MOTION DETECTION' and contains the following text: 'In this section, you can configure the motion detection settings for your camera. Please note that your computer needs to have Java installed in order to view the motion detection configuration window. If you do not see the live video below, please visit <http://www.java.com> to download and install Java.' Below this text are 'Save Settings' and 'Don't Save Settings' buttons.

The 'MOTION DETECTION SETTINGS' section includes:
 

- Motion Detection:  Enable  Disable
- Time:  Always  Schedule
  - Day:  Mon  Tue  Wed  Thu  Fri  Sat  Sun
  - Time Period: Start:  (Example: 06:30:00) Stop:  (Example: 22:30:00)
- Sensitivity:  % (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.

 Below the settings is a live video feed of an office interior with a blue grid overlay for marking detection areas. At the bottom of the video feed are 'Save Settings' and 'Don't Save Settings' buttons.

The footer of the page is labeled 'SURVEILLANCE' and contains the copyright notice: 'Copyright 2012 - 2013, D-Link Corporation / D-Link Systems, Inc. All rights reserved.'

# Sound Detection

Sound detection allows you to detect when there is a loud sound in the area, which can be used to trigger snapshots or recordings. Refer to “Mail” on page 33 and “FTP” on page 35 for more details.

**Sound Detection:** Select whether you want to enable or disable the sound detection feature of your camera.

**Time:** Specify whether you want to **Always** have motion detection enabled, or according to a **Schedule** that you define.

**Detection Level:** Specify the volume level that a sound must exceed in order to be “detected”.

Product: DCS-931L Firmware version: 1.00

**D-Link**

DCS-931L // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Wizard  
Network Setup  
Wireless Setup  
Extender Setup  
Dynamic DNS  
Image Setup  
Video  
Audio  
Motion Detection  
Sound Detection  
Mail  
FTP  
Time and Date  
Logout

**SOUND DETECTION**

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

Please note that your computer needs to have Java installed in order to view the sound dB/Time window. If you do not see the sound dB/Time window below, please visit <http://www.java.com> to download and install Java.

Save Settings Don't Save Settings

**SOUND DETECTION SETTINGS**

Sound Detection  Enable  Disable

Time  Always  
 Schedule  
 Day  Mon  Tue  Wed  Thu  Fri  Sat  Sun  
 Time Period Start: 00:00:00 (Example : 06:30:00)  
 Stop: 00:00:00 (Example : 22:30:00)

Detection Level 90 dB

dB

100  
90  
80  
70  
60  
50  
40

Time

Save Settings Don't Save Settings



# Mail

This section allows you to configure your camera to send snapshots and video clips to an e-mail address. If you are not sure what settings to use, check with your e-mail service provider.

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

**Sender e-mail Address:** This is the e-mail address listed as the sender for your notification e-mails.

**Receiver e-mail Address:** This is the e-mail address that your notification e-mails will be sent to.

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

**Password:** If the SMTP server uses authentication, enter your password.

For example, if you want to use Gmail with SSL-TLS for e-mail notifications, you can follow the setup procedure as below:

**Step 1** - Enter "smtp.gmail.com" in SMTP Server Address.

**Step 2** - Change the SMTP server port number from 25 to **465**.

**Step 3** - Enter your gmail e-mail address in Sender E-mail Address.

**Step 4** - Enter the destination e-mail address in Receiver E-mail Address.

**Step 5** - Enter the user name required to access the SMTP server.

**Step 6** - Enter the password required to access the SMTP server.

**Step 7** - Select **SSL-TLS** and then click **Save Settings**.

**Step 8** - Click the **Test** button to send a test e-mail will be sent to the e-mail account listed above.

**Note:** You can also use **STARTTLS**, which will use SMTP server port number **587**.

**Note:** If you want to use a Yahoo SMTP server, the SMTP server address will be different between each registered region, and only SMTP port **465** is supported for **SSL-TLS**.

Product: DCS-931L Firmware version: 1.00

**D-Link**

DCS-931L // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Wizard  
Network Setup  
Wireless Setup  
Extender Setup  
Dynamic DNS  
Image Setup  
Video  
Audio  
Motion Detection  
Sound Detection  
Mail  
FTP  
Time and Date  
Logout

**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.

Save Settings Don't Save Settings

**E-MAIL ACCOUNT**

SMTP Server Address  
SMTP Server Port 25 (Default is 25)  
Sender E-mail Address  
Receiver E-mail Address  
User Name  
Password  
Use SSL-TLS/STARTTLS  No  SSL-TLS  STARTTLS

**TIME SCHEDULE**

Enable the emailing of images to an email account

Always  
 Schedule  
Day  Mon  Tue  Wed  Thu  Fri  Sat  Sun  
Time Period Start: 00:00:00 (Example : 06:30:00) Stop: 00:00:00 (Example : 22:30:00)

Motion/Sound Detection  
 E-mail frame immediately  
 E-mail attached with 6 frames (3 frames before and 3 frames after detection)  
Frame interval time : 1 second  
E-mail Interval 300 Seconds

Enable the emailing of video clip to an email account

Always  
 Schedule  
Day  Mon  Tue  Wed  Thu  Fri  Sat  Sun  
Time Period Start: 00:00:00 (Example : 06:30:00) Stop: 00:00:00 (Example : 22:30:00)

Motion/Sound Detection  
E-mail Interval 300 Seconds  
Video Limit : Size 2048 KBytes (max is 4096 KBytes) Time 10 Seconds (max is 15 Seconds)

**TEST E-MAIL ACCOUNT**

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

Save Settings Don't Save Settings

SURVEILLANCE

**Helpful Hints.**

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

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

**Receiver E-mail Address:** This is the email address of recipient for the SMTP server.

**User Name:** The user name of your email account.

**Password:** The password of your email account.

**Use SSL-TLS/STARTTLS:** Select SSL-TLS or STARTTLS if SMTP server requires TLS authentication.

**Enable the emailing of images to an email account:** Select **Always** to enable the camera to always send images to the recipient's email account. Select **Schedule** if you would like to specify the time and day when the camera will start and stop sending images to the recipient's email account. The interval of the snapshot can be configured from 1 to 65535 seconds.

**Select Motion/Sound Detection** if you would like the camera to send images to the recipient's email account only when motion/sound is detected.

**Enable the emailing of video clip to an email account:** Select **Always** to enable the camera to always send video clip to the recipient's email account. Select **Schedule** if you would like to specify the time and day when the camera will start and stop sending video clip to the recipient's email account. The interval of the video clip can be configured from 1 to 65535 seconds.

**Select Motion/Sound Detection** if you would like the camera to send video clip to the recipient's email account only when motion/sound is detected.

**Enable the e-mailing of images to an e-mail account:**

Enabling this will allow snapshots to be e-mailed to you in different ways:

- Choosing **Always** will e-mail snapshots continuously based on the **E-mail Interval** specified.
- Choosing **Schedule** will allow you to schedule when to start and stop the e-mailing of snapshots.
- Select **Motion/Sound Detection** if you would like the camera to e-mail images only when motion or sound is detected. You can choose whether to e-mail a snapshot immediately, or e-mail 6 snapshots together, with 3 frames before and after motion/sound was detected. You can also set the **Frame interval time** to specify how far apart the snapshots should be.

**E-mail Interval:**

This sets the limit for how frequently e-mail notifications will be sent. This can be set from 1 to 65535 seconds.

**Enable the e-mailing of video clips to an e-mail account:**

Enabling this will allow video clips to be e-mailed to you in different ways. This is the same as e-mailing images, as specified above, but will take video clips according to the **Video Limit** settings you specify.

**Test E-mail Account:**

This will send a test e-mail according to the e-mail settings you have specified above.

Use SSL-TLS/STARTTLS  No  SSL-TLS  STARTTLS

---

**TIME SCHEDULE**

Enable the emailing of images to an 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/Sound Detection

E-mail frame immediately

E-mail attached with 6 frames (3 frames before and 3 frames after detection)

Frame interval time :  second

E-mail Interval  Seconds

Enable the emailing of video clip to an 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/Sound Detection

E-mail Interval  Seconds

Video Limit : Size  KBytes (max is 4096 KBytes)

Time  Seconds (max is 15 Seconds)

---

**TEST E-MAIL ACCOUNT**

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

# FTP

This section allows you to configure your camera to send snapshots and video clips to an FTP server.

**Host Name:** Enter the IP address of the FTP server that you will be connecting to.

**Port:** Enter the port of the FTP server that you will be connecting to.

**User Name:** Enter the user name of your FTP server account.

**Password:** Enter the password of your FTP server account.

**Path:** Enter the destination path/folder to save files to on the FTP server.

**Passive Mode:** Enabling passive mode may help you reach your FTP server if your camera is behind a router protected by a firewall.

**Enable the uploading of images to an FTP server:** Enabling this will allow snapshots to be uploaded in different ways:

- Choosing **Always** will upload snapshots continuously based on the **Image Frequency** specified.
- Choosing **Schedule** will allow you to schedule when to start and stop the uploading of snapshots.
- Select **Motion/Sound Detection** if you would like the camera to upload images only when motion or sound is detected.

**Image Frequency:** Set how frequently you want images to be taken and uploaded. You can choose to upload by frames per second, or by seconds per frame.

**Base File Name:** Set what you want the base file name to be for your snapshots.

Product: DCS-931L Firmware version: 1.00

**D-Link**

DCS-931L // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Wizard  
Network Setup  
Wireless Setup  
Extender Setup  
Dynamic DNS  
Image Setup  
Video  
Audio  
Motion Detection  
Sound Detection  
Mail  
FTP  
Time and Date  
Logout

**FTP**

In this section, you can configure the camera to send images to an FTP server.

Save Settings Don't Save Settings

**FTP SERVER**

Host Name  
Port 21 (Default is 21)  
User Name  
Password  
Path /  
Passive Mode Yes No

**TIME SCHEDULE**

Enable uploading of images to an FTP server

Always  
Schedule  
Day Mon Tue Wed Thu Fri Sat Sun  
Time Period Start: 00:00:00 (Example : 06:30:00)  
Stop: 00:00:00 (Example : 22:30:00)  
Motion/Sound Detection

Image Frequency 1 Frames/Second  
1 Seconds/Frame

Base File Name DCS-931L  
File  
Overwrite  
Date/Time Suffix  
Create subfolder by 0.5 hour  
Sequence Number Suffix Up to 1024

Enable uploading of video clip to an FTP server

Always  
Schedule  
Day Mon Tue Wed Thu Fri Sat Sun  
Time Period Start: 00:00:00 (Example : 06:30:00)  
Stop: 00:00:00 (Example : 22:30:00)  
Motion/Sound Detection

File Name Prefix DCS-931L  
Video Limit : Size 2048 Kbytes (max is 4096 Kbytes)  
Time 10 Seconds (max is 15 Seconds)

**TEST FTP SERVER**

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

Save Settings Don't Save Settings

**Helpful Hints.**

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

**Port:** The default port is 21.

**User Name:** The user name required for accessing the external FTP server.

**Password:** The password of 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.

**Enable uploading of images to an FTP server**  
Checking this box will enable the camera to upload images to FTP server shown above. Select **Always** to enable the camera to always upload images to the FTP server. Select **Schedule** if you would like to specify the time and day when the camera starts and stops uploading images to the FTP server. Select **Motion/Sound Detection** if you would like the camera to upload images to the FTP server only when motion/sound is detected.

**Image Frequency** - User can choose and define the numbers for both **Frames/Second** and **Seconds/Frame**.

**Base File Name** - The name that contains the time stamp information. For example DCS-931L\_20120721164925101.jpg. This means that the camera took a snapshot in the year 2012, July 21 at 16:49:25.1 (hour:min:sec) and 01 represents the 1st picture.

**File** - Select **Overwrite** and only one image filename is constantly refreshed. Select **Date/Time Suffix** and the pictures will be named with a date and time (refer to **Base File Name**). Enable the **Create subfolder** function to have the camera auto create the subfolder by 0.5 hour, 1 hour or 1 day. An example of this can be seen under the **Base file name category**. Select **Sequence Number Suffix up to 1024** and all the image files will be numbered from 1-1024. The total amount of images can be configured up to 1024.

**Test FTP server**  
An image file will be sent to the FTP server after you click **Test**.

**SURVEILLANCE**

**File:** Select how you want uploading of snapshots to be handled:

- **Overwrite** will replace the old snapshot with the new one. This means you will only have one snapshot that is updated every time a new one is taken.
- **Date/Time Suffix** will add the date and time to the end of the snapshot file name. You can also choose to make subfolders based on a period of time you specify to help you organize your snapshots.
- **Sequence Number Suffix** will add a number to the end of the snapshot file name up to the number you specify, after which the oldest files will be overwritten.

**Test FTP Server:** Clicking on the **Test** button will send a test JPEG snapshot to the FTP server specified above to make sure that your settings are correct.

This will send a test e-mail according to the e-mail settings you have specified above.

Passive Mode  Yes  No

---

**TIME SCHEDULE**

Enable uploading of images to an FTP server

Always

Schedule

Day  Mon  Tue  Wed  Thu  Fri  Sat  Sun

Time Period Start : 00:00:00 (Example : 06:30:00)  
Stop : 00:00:00 (Example : 22:30:00)

Motion/Sound Detection

Image Frequency  1 Frames/Second  
 1 Seconds/Frame

Base File Name DCS-931L

File  Overwrite  
 Date/Time Suffix  
 Create subfolder by 0.5 hour  
 Sequence Number Suffix Up to 1024

Enable uploading of video clip to an FTP server

Always

Schedule

Day  Mon  Tue  Wed  Thu  Fri  Sat  Sun

Time Period Start : 00:00:00 (Example : 06:30:00)  
Stop : 00:00:00 (Example : 22:30:00)

Motion/Sound Detection

File Name Prefix DCS-931L

Video Limit : Size 2048 KBytes (max is 4096 KBytes)  
Time 10 Seconds (max is 15 Seconds)

---

**TEST FTP SERVER**

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

# Time and Date

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

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

**Synchronize NTP Server:** Enabling this will allow the camera to update its clock automatically from an NTP server. Select the NTP server closest to you, and select whether you want to apply daylight saving corrections.

**Set the Date and Time Manually:** If Synchronize NTP Server is disabled, you can set the date and time manually. You can also click on the **Copy Your Computer's Time Settings** to automatically set the date and time based on your computer's settings.

Product: DCS-931L Firmware version: 1.00

**D-Link**

DCS-931L // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Wizard  
Network Setup  
Wireless Setup  
Extender Setup  
Dynamic DNS  
Image Setup  
Video  
Audio  
Motion Detection  
Sound Detection  
Mail  
FTP  
Time and Date  
Logout

**TIME AND DATE**

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

Save Settings Don't Save Settings

**TIME CONFIGURATION**

Current Time 01 Jan 2013 10:42:06 P.M.  
Time Zone (GMT) Casablanca, Morocco, Reykjavik

**AUTOMATIC TIME CONFIGURATION**

Synchronize NTP Server   
NTP Server Used << Select NTP Server >>  
Daylight Saving  
 Enable  Disable  
Offset : +1:00  
Month Week Day of Week Time  
Start Jan 1st Sun 12 am  
End Jan 1st Sun 12 am

**SET THE DATE AND TIME MANUALLY**

Year 2013 Month 1 Day 1  
Hour 22 Minute 42 Second 1  
Copy Your Computer's Time Settings  
Save Settings Don't Save Settings

**Helpful Hints...**

**Time Zone** - The geographical zone for the local time setting.

**Automatic Time Configuration** - With this option selected, the camera will synchronize its date and time settings with an NTP server over the Internet upon camera start up. If the timeserver cannot be reached, no time settings will be applied.

**NTP server** - The IP address or domain name of the Time Server.

**Daylight Saving** - Enable daylight saving that will adjust the time depending on the daylight saving time offset and date.

You may also **Set the Date and Time Manually** or **Copy your Computer's Time Settings**.

**SURVEILLANCE**

# 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 are allowed to access to your camera.

**Admin Password:** To change the admin password used to log into the web interface, enter the old password, then enter the new password and retype it in the next text box, then click **Apply**.

**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. Turning this off may be useful if you do not want the camera to be noticeable.

**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.

**OSD Time:** Select **Enable** to allow the current time to be added to the camera video, and select a color to use for the text.

**Add User Account:** You can create new users to provide viewing access for your camera's video. User accounts will only be able to access the **Live Video** section of the web configuration interface, but cannot access any other parts or change any settings.

To create a new user, enter a user name, password, and retype the password, then click **Add**. A maximum of 8 user accounts can be created.

**User List:** Displays the account names of authorized users. You can modify or delete an account by clicking on its modify or delete icon.

Product: DCS-931L Firmware version: 1.00

**D-Link**

DCS-931L // LIVE VIDEO SETUP MAINTENANCE STATUS HELP

Admin ADMIN

System 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).

Firmware Upgrade

Logout ADMIN PASSWORD SETTING

Old Password

New Password

Retype Password

SERVER SETTING

Camera Name DCS-931L

LED Control  Normal  Off

User Access Control  Enable  Disable

Snapshot URL Authentication  Enable  Disable (http://192.168.50.135/image/jpeg.cgi)

OSD Time  Enable  Disable

Color

ADD USER ACCOUNT

User Name

Password

Retype Password

USER LIST

no.	name	modify	delete

SURVEILLANCE

Copyright 2012 - 2013, D-Link Corporation / D-Link Systems, Inc. All rights reserved.

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

# System

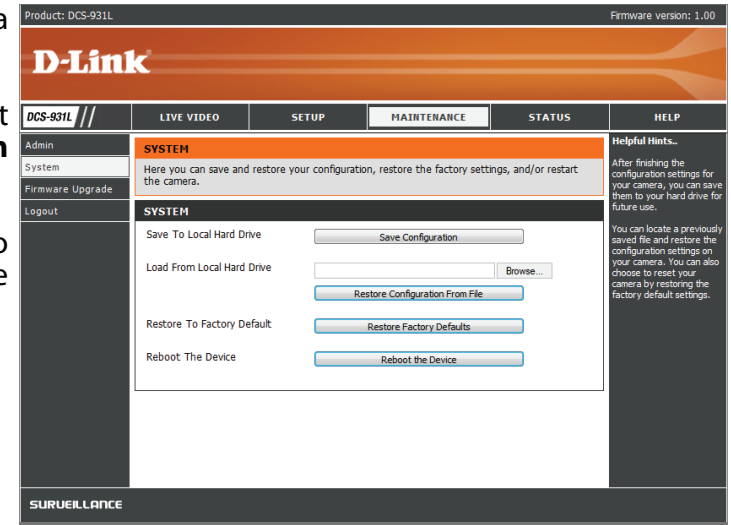
This section allows you to save and restore your configuration, restore the factory settings, and/or restart the camera.

**Save To Local Hard Drive:** Click the **Save Configuration** button to save the current camera configuration to your local PC.

**Load From Local Hard Drive:** To load a previously saved configuration, click the **Browse...** button, select your saved configuration file, then click the **Restore Configuration From File** button.

**Restore To Factory Default:** Click the **Restore Factory Defaults** button to reset all settings back to the factory defaults. Please note that this will erase any changes you have made to the settings of the camera.

**Reboot The Device:** Click the **Reboot the Device** button to reboot the camera.

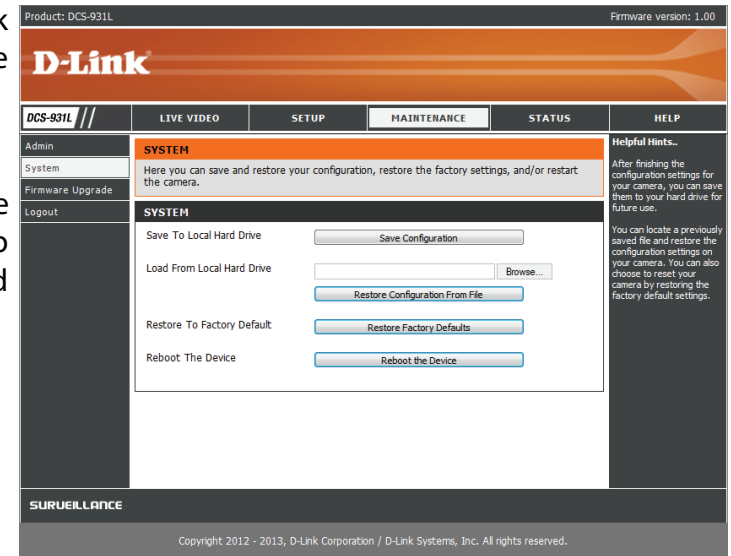


# Firmware Upgrade

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 versions available.

To upgrade the firmware on your DCS-931L, download the latest firmware from the D-Link Support Page to your local hard drive. Click the **Browse...** button and select the firmware file, then click the **Upload** button to start the firmware upgrade.

**Warning:** The firmware upgrade process must not be interrupted or the camera may be damaged. When upgrading firmware, do not unplug the camera or your PC or close your web browser until the process is complete. It is also highly recommended that you use a wired connection for your camera and PC when upgrading firmware.





# Status

## Device Info

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

Product: DCS-931L
Firmware version: 1.00

D-Link

DCS-931L //
LIVE VIDEO
SETUP
MAINTENANCE
STATUS
HELP

Device Info

Active User

Logout

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-931L
Time & Date	01 Jan 2013 10:53:58 P.M.
Firmware Version	1.00 (2012-12-05)
Agent Version	2.0.16-b33
MAC Address	28 10 7B 07 A9 BE
IP Address	192.168.50.135
Subnet Mask	255.255.255.0
Default Gateway	192.168.50.1
Primary DNS	192.168.50.1
Secondary DNS	4.2.2.2
DDNS	Disable
UPnP Port Forwarding	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	No
Wireless Client List	<input type="button" value="Wireless Client List"/>

Helpful Hints..

All of your network connection details are displayed on this page.

SURVEILLANCE

Copyright 2012 - 2013, D-Link Corporation / D-Link Systems, Inc. All rights reserved.

# Active User

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

Product: DCS-931L
Firmware version: 1.00

D-Link

DCS-931L //
LIVE VIDEO
SETUP
MAINTENANCE
STATUS
HELP

Device Info  
 Active User  
 Logout

ACTIVE USER

This page lists active user information, including user name, IP address and the initial access time.

**USER LIST**

no.	user name	IP address	time

**Helpful Hints..**  
 All of the active users are listed on this page. The time information indicates the time that each user started accessing the camera.

SURUEILLANCE

Copyright 2012 - 2013, D-Link Corporation / D-Link Systems, Inc. All rights reserved.

# Troubleshooting

## 1. What is Remote Access? How do I enable it?

Remote Access allows you to access your camera from any PC connected to the Internet through a web browser. This lets you view your camera feed and manage your camera's settings when you're away from home.

To enable Remote Access, simply go through the Camera Installation Wizard included on the Installation CD that came in your package. You can also download the wizard from the following websites:

DCS-931L: <http://DCS-931L.mydlink.com>

After going through the wizard, you should see Remote Status: Enabled on the summary page.

If you see Remote Status: Disabled, make sure that:

- ...the front LED on your camera is lit solid green

- ...your Internet connection is working

- ...your router's LAN & WAN connections are working properly

- ...your router has UPnP enabled (if your router does not support UPnP, please refer to Appendix A)

- ...your router can get a public IP

- ...your router is upgraded to the latest firmware

- ...you have tried rebooting your router by unplugging it, then plugging it back in

After checking the above items, you can click the Retry button to refresh the summary screen to see if Remote Access has been enabled.

## 2. What can I do if I forget my password?

If you forget your password, you will need to perform a hard reset of your camera. This process will change all your settings back to the factory defaults.

To reset your camera, please use an unfolded paperclip to press and hold the RESET button for at least 3 seconds while your camera is plugged in.

### **3. Why does the LED not light up?**

The power supply might be faulty. Confirm that you are using the provided DC 5V power supply for this network camera. Verify that the power supply is correctly connected. If the camera is functioning normally, the LED may have been disabled. See "Admin" on page 38 for information about how to enable the LED.

### **4. Why is the camera's network connection unreliable?**

There might be a problem with the network cable. To confirm that the cables are working, PING the address of a known device on the network. If the cabling is OK and your network is reachable, you should receive a reply similar to the following (...bytes = 32 time = 2 ms).

Another possible problem may be that the network device such as a hub or switch utilized by the Network Camera is not functioning properly. Please confirm the power for the devices are well connected and functioning properly.

### **5. Why does the Network Camera work locally but not remotely?**

This might be caused by the firewall protection. Check the Internet firewall with your system administrator. The firewall may need to have some settings changed in order for the Network Camera to be accessible outside your local LAN. For more information, please refer to the section about installing your camera behind a router.

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.

### **6. Why does a series of broad vertical white lines appear through out the image?**

It could be that the image sensor has become overloaded when it has been exposed to bright light such as direct exposure to sunlight or halogen lights. Reposition the camera into a more shaded area immediately, as prolonged exposure to bright lights will damage the sensor.

### **7. The camera is producing noisy images. How can I solve the problem?**

The video images might be noisy if the camera is used in a very low light environment.

### **8. The images are poor quality, how can I improve the image quality?**

Make sure that your computer's display properties are set to at least 6-bit color. Using 16 or 256 colors on your computer will produce dithering artifacts in the image, making the image look as if it is of poor quality.

You may also need to check your image settings to make sure the brightness, contrast, and other settings are set properly. For more, refer to "Image Setup" on page 28.

### **9. Why are no images available through the Web browser?**

ActiveX might be disabled. If you are viewing the images from Internet Explorer make sure ActiveX has been enabled in the Internet Options menu. You may also need to change the security settings on your browser to allow the ActiveX plug-in to be installed.

If you are using Internet Explorer with a version number lower than 6, then you will need to upgrade your Web browser software in order to view the streaming video transmitted by the Network Camera.

# Technical Specifications

## SYSTEM REQUIREMENTS

- Microsoft Windows® 8/7/Vista/XP, or Mac with OS X 10.6 or higher
- PC with 1.3 GHz or above and at least 128 MB RAM
- Internet Explorer 7, Firefox 12, Safari 4, or Chrome 20 or higher version with Java installed and enabled

## 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

## BUILT-IN PROTOCOL

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

## WIRELESS CONNECTIVITY

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

## WIRELESS TRANSMIT OUTPUT POWER

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

## SDRAM

- 64 MB

## FLASH MEMORY

- 8 MB

## RESET BUTTON

- Reset to factory default

## VIDEO CODECS

- H.264
- 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 30 fps
- 320 x 240 at up to 30 fps
- 160 x 112 at up to 30 fps

## LENS

- Focal length: 3.15 mm, F2.8

## SENSOR

- VGA 1/5 inch CMOS sensor

## MINIMUM ILLUMINATION

- 1 lux @ F2.8

### VIEWING 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 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

- 83 g (without bracket and stand)

### MAX POWER CONSUMPTION

- 3.5 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

## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>