



# User Manual

## Full HD Outdoor PoE Mini Dome Camera

DCS-6212L

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# Preface

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.

## Manual Revisions

Revision	Date	Description
1.00	May 28, 2015	DCS-6212L Revision A1 with firmware version 1.00

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# Product Overview

## Package Contents



DCS-6212L Full HD Outdoor PoE Mini Dome Camera



Mounting Kit (screws, wall anchors, wrench, and power cable plug)



Ethernet Cable (preattached to camera)



Power Adapter



Ethernet Extension Adapter (RJ-45 Coupler)



Quick Installation Guide

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

**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.

# Introduction

Congratulations on your purchase of the DCS-6212L Full HD Day & Night Outdoor Network Camera. The DCS-6212L is a professional surveillance and security solution for small, medium, and large enterprises alike. The DCS-6212L uses a 2 megapixel progressive scan CMOS sensor; the professional sensor results in low noise and high sensitivity capabilities ideal for surveillance applications.

The DCS-6212L is a complete system built with an ARM SoC CPU that incorporates a web server, allowing it to transmit excellent real-time Full HD resolution video quality for security and outdoor surveillance.

The DCS-6212L can be accessed remotely, controlled and configured 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 configuration across the full range of its advanced feature set, including granular control over multiple video streams with different configurations and multicast video/audio streams which helps you manage your network load.

The DCS-6212L has an IP65 certified weatherproof and vandal-proof housing designed for both indoor and outdoor applications. The built-in removable IR-cut filter and IR LEDs give the DCS-6212L the capability to view up to 10M at night. The DCS-6212L also incorporates Power over Ethernet (PoE), allowing it to be easily installed in a variety of locations without the need for supplemental power cabling. The combination of IP65 housing, IR-Cut Filter, IR LEDs and PoE make the DCS-6212L an ideal solution for a dependable and cost-effective 24 hour surveillance solution with an easy clutter-free installation.

## System Requirements

### **PC/Mac** (to use the mydlink Setup Wizard)

- Windows® 8, 7, Vista®, or Mac OS® X (10.6 or higher)
- Internet Connection
- Internet Explorer 11, Firefox 20, or Safari 7 or higher

### **Mobile Device** (to use mydlink Lite app)

- iPhone, iPad, or Android smartphone or tablet  
(Refer to the mobile app's store page to see if your device is compatible)

### **Network Device and Service**

- A router with Internet service
- A Power over Ethernet (PoE) switch or router (for PoE)
- An e-mail account (required to create a mydlink® account)

# Features

## **Simple to Maintain**

The DCS-6212L is a stand-alone system with a built-in CPU, requiring no special hardware or software. The DCS-6212L supports browsers such as Internet Explorer®, Firefox®, and Safari®.

## **Supports a Variety of Platforms**

Supports TCP/IP networking, HTTP, and other Internet related protocols. The DCS-6212L can also be integrated easily into other Internet/Intranet applications because of its standards-based features. The DCS-6212L works with any 10/100 Ethernet network, making the DCS-6212L easy to integrate into your existing network environment.

## **Advanced Event Management**

The DCS-6212L can be set up to send e-mail notifications with snapshots when an event occurs, such as when motion is detected. Events can be triggered from several sources, such as motion detection and timer based events.

## **Remote Monitoring Utility**

The D-ViewCam application adds enhanced features and functionality for the camera and allows administrators to configure and access the camera from a remote site via Intranet or Internet. Other features include image monitoring, recording images to a hard drive, viewing up to 32 cameras on one screen, and taking snapshots.

## **IR LEDs for Day and Night Functionality**

The built-in infrared LEDs enables night time viewing of up to 10 meters (32 feet).

## **IP65 Weatherproof Housing**

The DCS-6212L uses an IP65 weatherproof housing, which will protect the camera from dust and water.

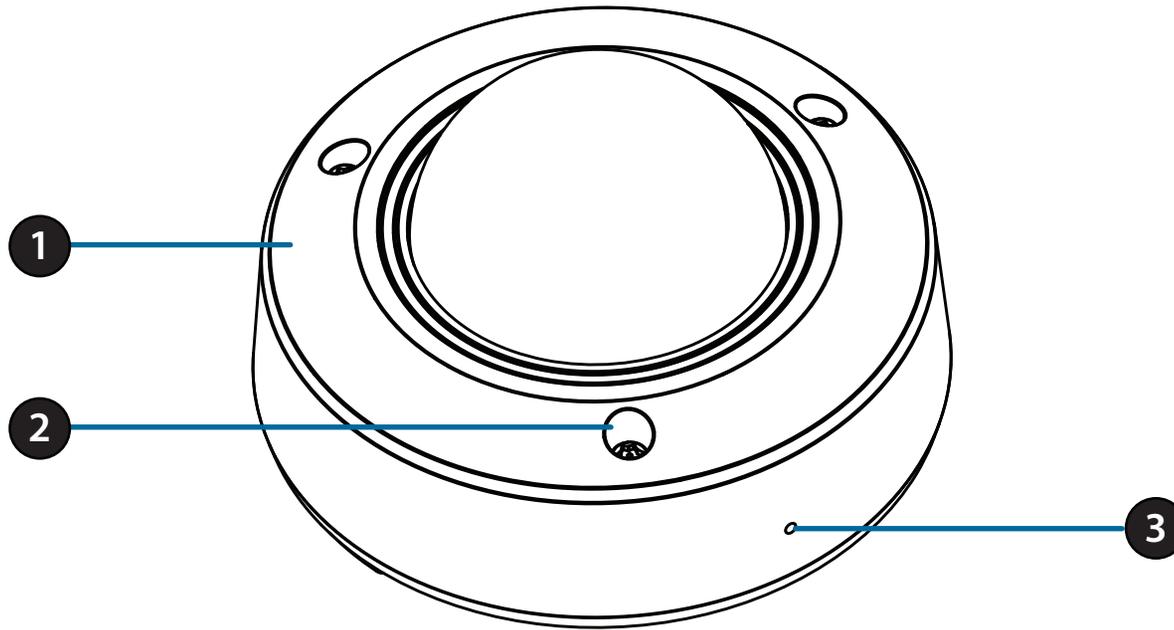
## **IK10 Vandalproof Housing**

The tough IK10 vandal-proof housing protects the camera from impacts for a solid, durable camera you can rely on.

## **PoE (Power over Ethernet) for Flexible Installation**

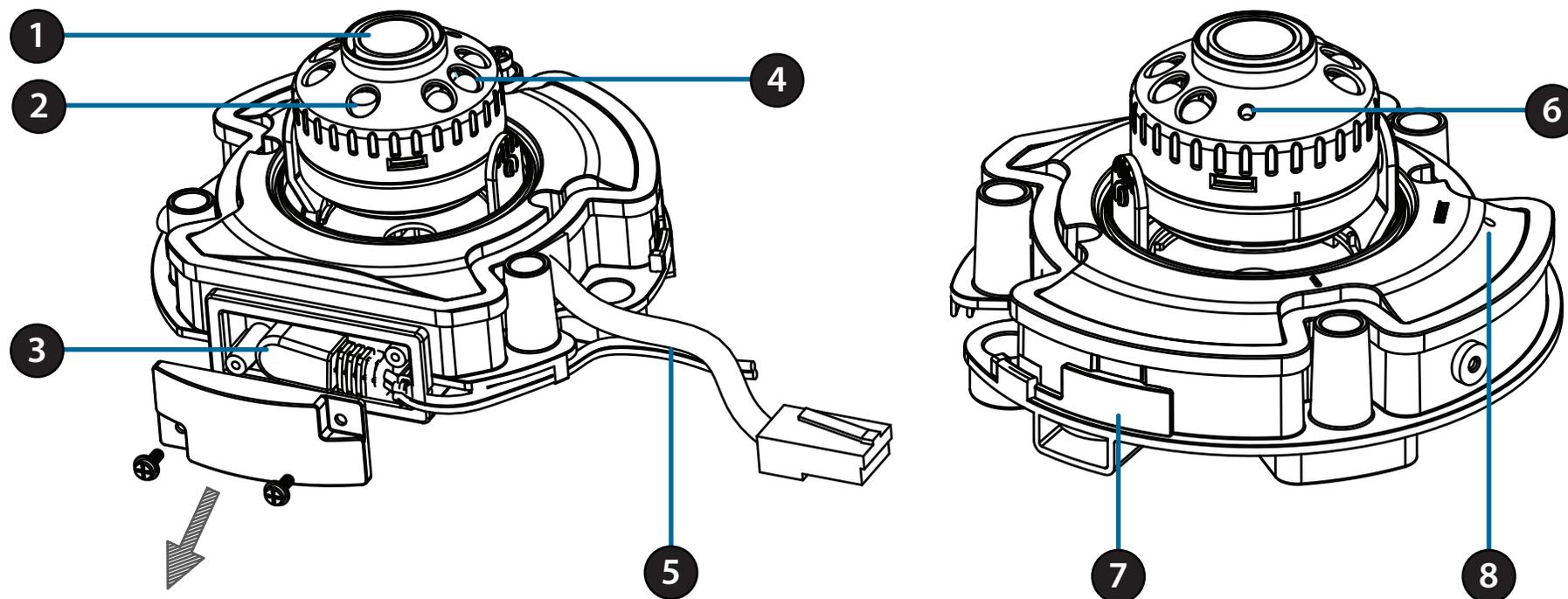
The DCS-6212L can draw all the power it needs from a PoE switch or PoE injector for a simple and clutter-free installation.

## Hardware Overview Top



1	<b>Protective Cover</b>	Protects the camera from rain and dust.
2	<b>Cover Screws</b>	The three screws can be removed with the included wrench.
3	<b>Microphone</b>	Records audio from the surrounding area.

## Inside - Front and Back



1	<b>Camera Lens</b>	Fixed lens to record video of the surrounding area.
2	<b>Light Sensor</b>	The light sensor measures the lighting conditions and switches between color and infrared accordingly.
3	<b>Power Adapter</b>	Located under the protective panel. Connect to an outlet or surge protector. Do not connect if you wish to use PoE to power the camera.
4	<b>IR LEDs</b>	Infrared LEDs illuminate the camera's field of view at night.
5	<b>Ethernet Cable (preattached)</b>	Connects to your wired network and can also be used to power the camera using Power over Ethernet (PoE).
6	<b>Power / Status LED</b>	Indicates that the camera is receiving power.
7	<b>microSD Card Slot (under rubber seal)</b>	Accepts microSD cards to use for onboard storage.
8	<b>Reset Button</b>	Press and hold for 10 seconds to reset camera back to the factory default settings.

# Installation

There are three ways to set up your camera:

**Zero Configuration Setup:** If you have a mydlink-enabled router (D-Link cloud router), this is the easiest way to set up your camera. Refer to "**Zero Configuration Setup**" on page 11.

**mydlink Lite Mobile App:** You can use the mydlink Lite mobile app to guide you through setup and initial configuration of your camera. Refer to "**Mobile App Setup**" on page 14.

**Camera Installation Wizard:** You can also use the Camera Installation Wizard for your PC or Mac to guide you through setup and initial configuration of your camera. Refer to "**Camera Installation Wizard**" on page 15.

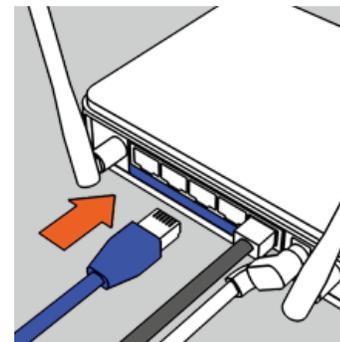
## Zero Configuration Setup

**If you have a mydlink-enabled Cloud Router**, you can take advantage of Zero Configuration Setup. Zero Configuration automatically configures your camera's settings for you, and adds the camera 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-6212L and add the camera to your mydlink account. After the short time it takes to do this you can remotely access your camera from the website (<http://www.mydlink.com>) to manage and monitor your DCS-6212L.

### Connect the Ethernet Cable

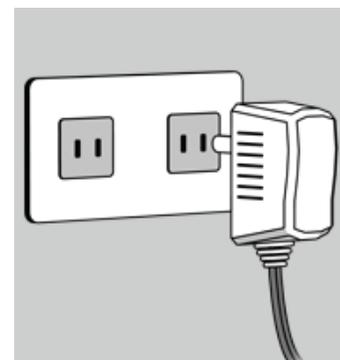
Connect the preattached Ethernet cable to an available port on your mydlink-enabled Cloud Router.



### Plug in the External Power Adapter

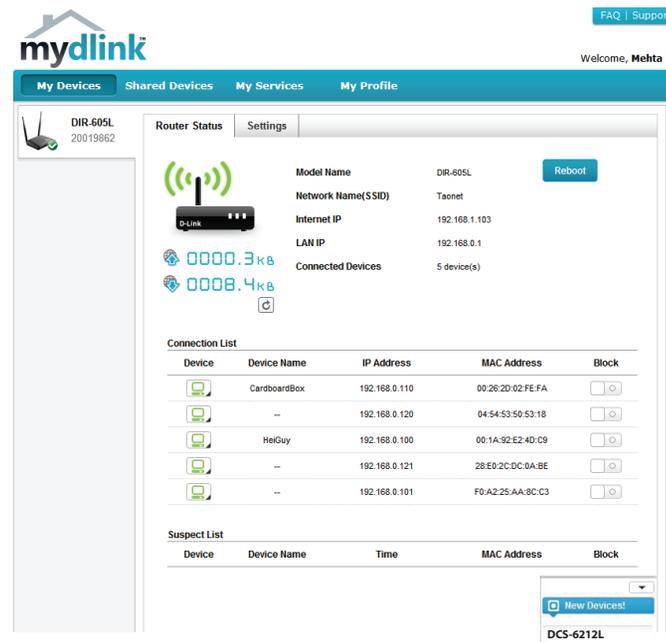
Plug the power adapter in to a wall outlet.

If you will be using PoE to power the camera, you will be able to disconnect the power adapter after configuring your camera. Refer to "Mounting the Camera" on page 18.



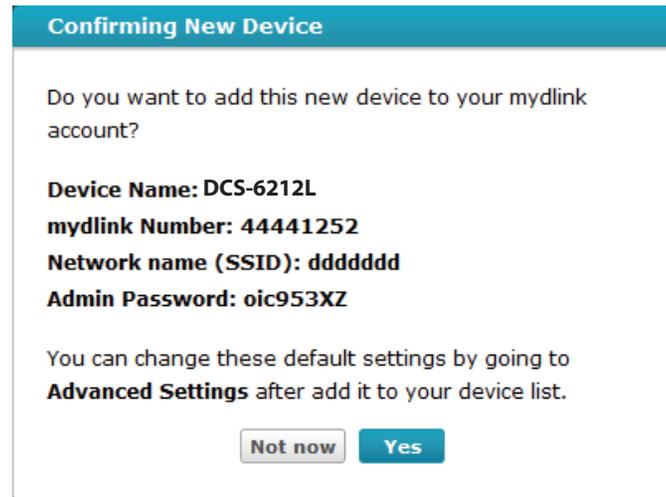
### Check Your mydlink Account

From any computer with an Internet connection, open a web browser and log in to your mydlink account. The mydlink page will check for new devices and display a **New device Found!** pop-up notification in the bottom-right corner. Click the notification to continue.



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 divided into 'Router Status' and 'Settings'. The 'Router Status' section displays the model name (DIR-605L), network name (Taonet), internet IP (192.168.1.103), LAN IP (192.168.0.1), and connected devices (5 device(s)). Below this is a 'Connection List' table with columns for Device, Device Name, IP Address, MAC Address, and Block. The table lists five devices, including 'CardboardBox', 'HeiGuy', and three unnamed devices. A 'Suspect List' section is also visible at the bottom. A 'New Devices!' notification pop-up is shown in the bottom right corner, displaying the device name 'DCS-6212L'.

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 a 'Confirming New Device' notification dialog. The dialog asks, 'Do you want to add this new device to your mydlink account?'. Below the question, the following details are listed: 'Device Name: DCS-6212L', 'mydlink Number: 44441252', 'Network name (SSID): dddddd', and 'Admin Password: oic953XZ'. At the bottom, there are two buttons: 'Not now' and 'Yes'.

## Section 2: Installation

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

Your camera is now set up, and you can skip to **"mydlink" on page 21** to learn more about the mydlink features of this camera, or to **"Configuration" on page 22** for advanced configuration of your camera.

**Note:** If you see a white haze when viewing in night vision mode, the night vision light on the camera may be reflecting off a nearby surface. Try repositioning and aiming the camera.



## Mobile App Setup

If you do not have a mydlink-enabled Cloud Router, you can configure your camera through the mydlink Lite mobile app. Search for the free **mydlink Lite** app on the App Store or Google Play and download it to your smartphone or tablet. You can also use a QR code reading app to scan the corresponding code for your device below.



Launch the **mydlink Lite** app and tap on the **Local** button at the bottom left, then tap the **Add Camera** button. Follow the onscreen prompts to set up and install your camera.

## Camera Installation Wizard Windows Users

Insert the Installation CD-ROM into your computer's optical drive to start the autorun program. If you do not have a CD-ROM drive, or the CD is missing, please download the Setup Wizard from <http://www.mydlink.com/support>

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.



**Note:** If the Setup Wizard program does not automatically start on your computer, click the Start button and type **D:\autorun.exe** (where D: represents the drive letter of your CD-ROM drive) and press Enter.

## Mac Users

Insert the Installation CD-ROM into your computer's CD drive. On the desktop, open your CD drive and double-click on the **SetupWizard** file. If you do not have a CD-ROM drive, or the CD is missing, please download the Setup Wizard from **<http://www.mydlink.com/support>**



Within 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.

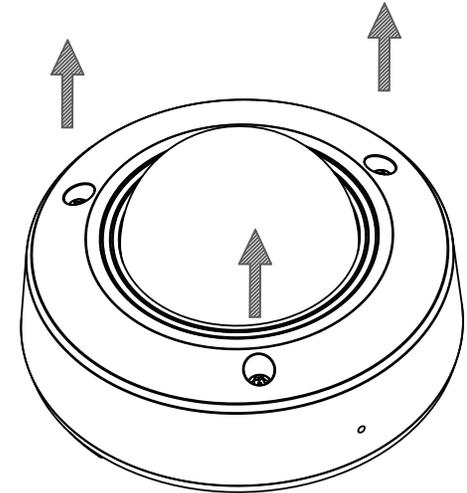


**Note:** mydlink portal requires Java™ to function correctly. For more guidelines, please refer to mydlink FAQ pages at <https://www.mydlink.com/faq/mydlink>

## Installing an SD Card

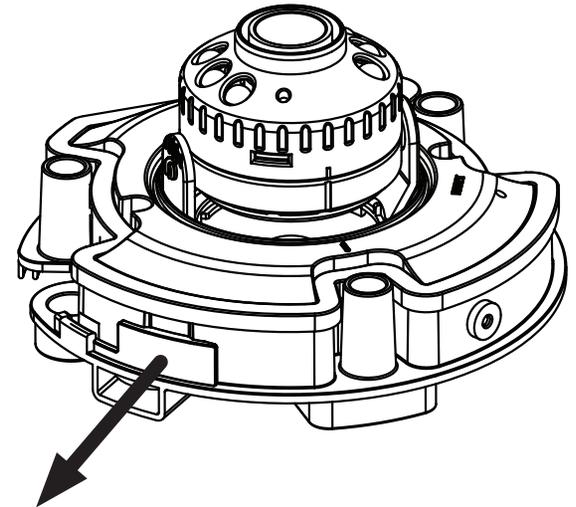
### Step 1

Use the included wrench to loosen the 3 screws on the top of the camera, then lift the camera cover off.



### Step 2

Lift the rubber flap on the side of the camera to expose the microSD card slot. Insert the microSD card, then close the rubber flap and make sure it is sealed properly.

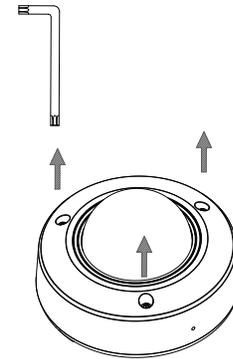


## Mounting the Camera

Please refer to the steps below to assist you with mounting the camera. We suggest that you configure the camera and insert a microSD card (if desired) before mounting.

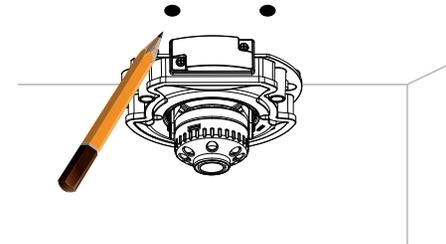
### Step 1

Use the included wrench to loosen the 3 screws on the top of the camera, then lift the camera cover off.



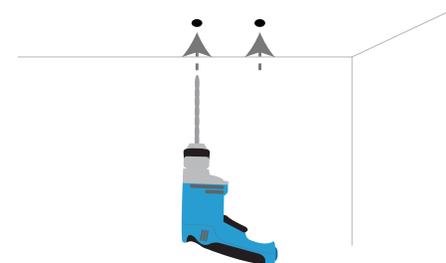
### Step 2

Place the camera in the position you want and use a pencil to mark the holes. Ensure the camera is oriented correctly with adequate space for the necessary cables to be routed.



### Step 3

Depending on the material of the wall or ceiling, use proper tools to drill two holes 25mm deep with a 6mm drill bit where you marked. After drilling the holes, insert the plastic anchors to support the screws.

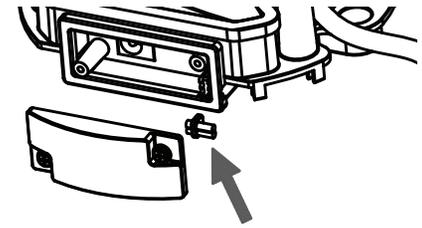
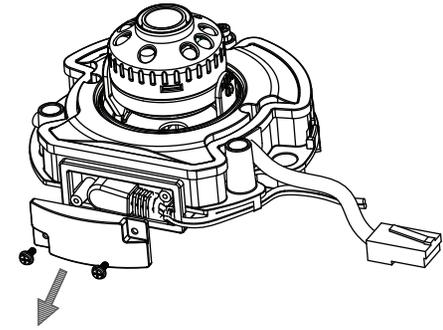


If you are running the camera cables through the wall, drill a hole in the center and pull the cables through the hole.

### Step 4

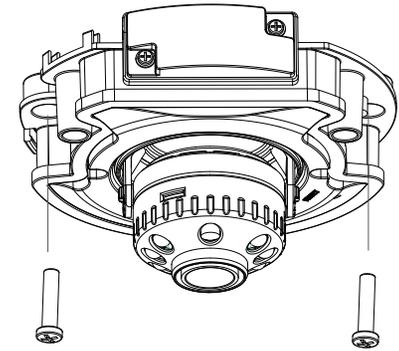
If you are using PoE to power the camera, use a small Philips screwdriver to remove the screws for the power connector cover, then disconnect the power cable.

Place the power cable plug into the gap, then reattach the cover with the screws.



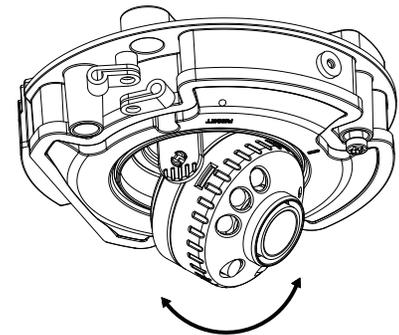
### Step 5

Mount the camera on the wall or ceiling using the screws provided.



### Step 6

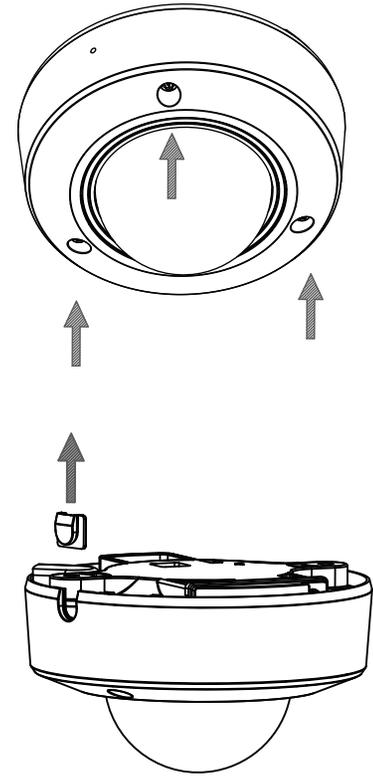
Tilt and rotate the camera to your desired position. It may be helpful to do this while the camera is connected to your network so you can view its live video for reference.



### Step 7

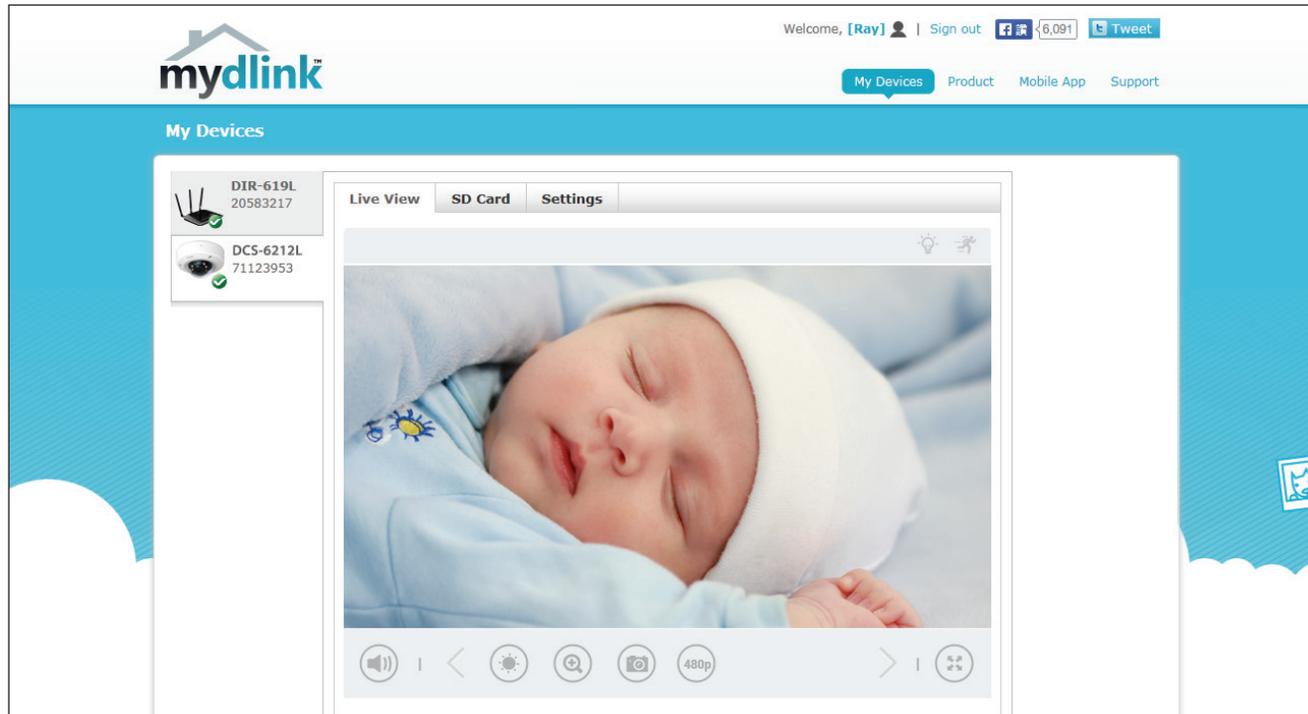
Reattach the camera cover with the screws and included wrench.

If you are running the camera cables out the side of the camera, remove the cable channel cover and guide the camera cables through the cable channel before reattaching the cover.



# mydlink

After registering your DCS-6212L 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 Configuration Interface

After completing the Camera Installation Wizard, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your DCS-6212L. At the end of the wizard, enter the IP address of your camera into a web browser, such as Mozilla Firefox. 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**.



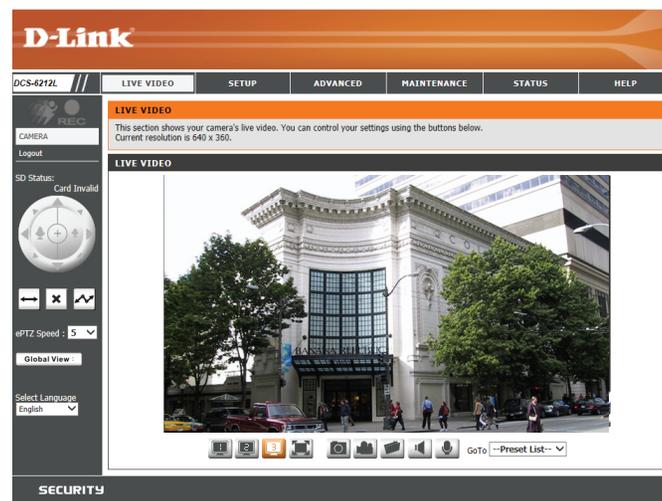
# Live Video

This section shows your camera's live video. You may select any of the available icons listed below to operate the camera. You may also select your language using the drop-down menu on the left side of the screen.

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

**SD Status:** This option displays the status of the SD card. If no SD card has been inserted, this screen will display the message "Card Invalid."

	<b>Motion Trigger Indicator</b>	This indicator will change to amber when a trigger event occurs.  <b>Note:</b> The video motion feature for your camera must be enabled.
	<b>Recording Indicator</b>	When a recording is in progress, this indicator will change color.
	<b>Control Pad</b>	This control pad can be used to electronically pan, tilt, and zoom (ePTZ) within the camera's predefined view area, if one has been defined.
	<b>Auto Pan</b>	Starts the automatic panning function. The zoomed window will pan from back and forth within the camera's field of view.
	<b>Stop</b>	Stops the camera ePTZ motion.
	<b>Preset Path</b>	Starts the camera's motion along the predefined path.



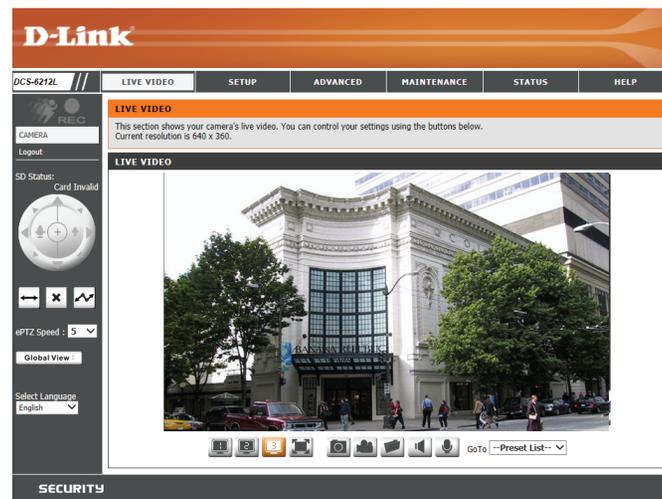
**ePTZ Speed:** You may select a value between 0 and 10. 0 is the slowest and 10 is the fastest.

**Global View:** This window indicates the total field of view of the camera. The red box indicates the portion of the camera's view being displayed.

**Language:** You may select the interface language using this menu.

- |  |  |
|--|--|
|  Video Profile 1  |  Record a Video Clip                    |
|  Video Profile 2  |  Set a Storage Folder                   |
|  Video Profile 3  |  Listen/Stop Audio In (from microphone) |
|  Full screen mode |  Start/Stop Audio Out (to speaker)      |
|  Take a Snapshot  |  |

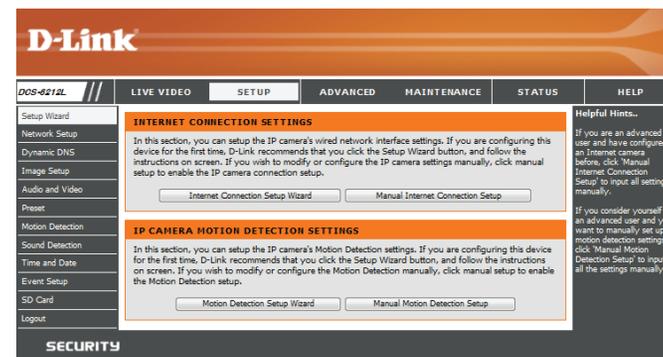
**Go To:** If any presets have been defined, you can select them here to move the **(Preset List)** camera to the selected preset.



# Setup Setup Wizard

To configure your Network Camera, click **Internet Connection Setup Wizard**. Alternatively, you may click **Manual Internet Connection Setup** to manually configure your Network Camera and skip to "Network Setup" on page 30.

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



## Internet Connection Setup Wizard

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



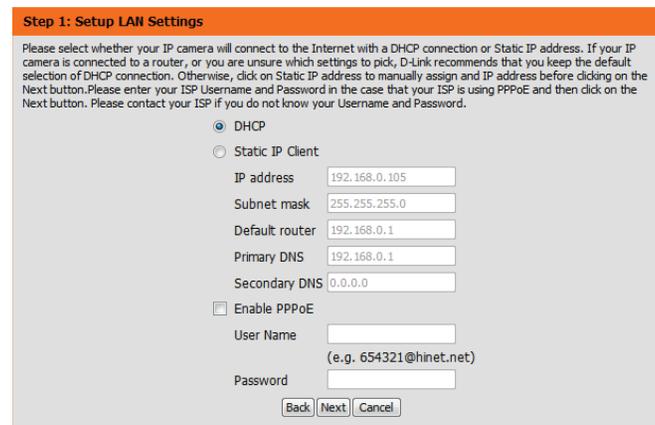
Select how the camera will connect to the Internet.

If your camera is connected to a router, or you are unsure how your camera will connect to the Internet, select **DHCP Connection**.

Select **Static IP** if your Internet Service Provider has provided you with connection settings, or if you wish to set a static address within your home network. Enter the correct configuration information and click **Next** to continue.

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

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 DDNS** and enter your host information. Click **Next** to continue.

**Step 2: Setup DDNS Settings**

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

Enable DDNS

Server Address  <<

Host Name

User Name

Password

Verify Password

Timeout  (hours)

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

**Step 3: IP camera Name Settings**

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

IP camera Name

Configure the correct time to ensure that all events will be triggered as scheduled. Click **Next** to continue.

**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.

Time Zone

Enable Daylight Saving

If you have selected DHCP, you will see a summary of your settings, including the camera's IP address. Please write down all of this information as you will need it in order to access your camera.

Click **Apply** to save your settings.

**Step 5: Setup complete**

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

IP Address	DHCP
IP camera Name	DCS-6212L
Time Zone	(UTC+08:00) Taipei
DDNS	Disable
PPPoE	Disable

## Motion Detection Setup Wizard

This wizard will guide you through a step-by-step process to configure your camera's motion detection functions.

Click **Next** to continue.

### Step 1

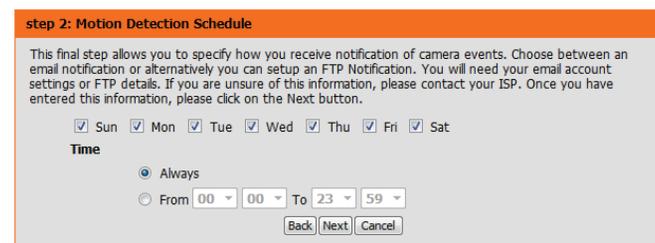
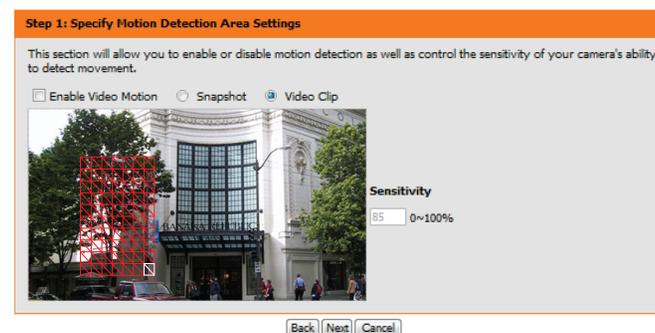
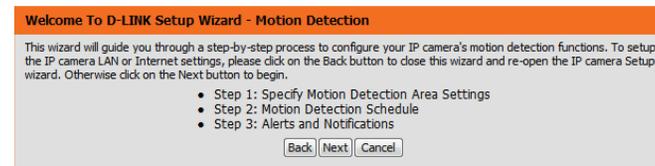
This step will allow you to enable or disable motion detection, specify the detection sensitivity, and adjust the camera's ability to detect movement.

You may specify whether the camera should capture a snapshot or a video clip when motion is detected.

Please refer to "Motion Detection" on page 40 for information about how to configure motion detection.

### Step 2

This step allows you to enable motion detection based on a customized schedule. Specify the day and hours. You may also choose to always record whenever motion is detected.



## Section 3: Configuration

### Step 3

This step allows you to specify how you will receive event notifications from your camera. You may choose not to receive notifications, or to receive notifications via e-mail or FTP.

Please enter the relevant information for your e-mail or FTP account.

Click **Next** to continue.

**Step 3: Alerts and Notification**

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

Do not notify me

Email

Sender email address

Recipient email address

Server address

User name

Password

Port

This server requires a secure connection (StartTLS)

FTP

Server address

Port

User name

Password

Remote folder name

### Step 4

You have completed the Motion Detection Wizard.

Please verify your settings and click **Apply** to save them.

**Step 4: Setup Complete**

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

Motion Detection : Enable

EVENT : Video Clip

Schedule Day : Sun , Mon , Tue , Wed , Thu , Fri , Sat ,

Schedule Time : Always

Alerts and Notification : Email

Please wait a few moments while the camera saves your settings and restarts.

**Step 4: Setup Complete**

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

Changes saved.IP camera's network is restarting, please wait for 6 seconds ...

# Network Setup

Use this section to configure the network connections for your camera. All relevant information must be entered accurately. After making any changes, click the **Save Settings** button to save your changes.

**LAN Settings:** This section lets you configure settings for your local area network.

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

If you choose DHCP, you do not need to fill out the IP address settings.

**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 may simplify access to your camera in the future.

**IP Address:** Enter the fixed IP address in this field.

**Subnet Mask:** This number is used to determine if the destination is in the same subnet. The default value is 255.255.255.0.

**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:** The primary domain name server translates names to IP addresses.

**Secondary DNS:** The secondary DNS acts as a backup to the primary DNS.

**Helpful Hints:**

Select DHCP: Connect if you are running a DHCP server on your network and would like an IP address assigned to your IP camera automatically.

UPnP: Enabling UPnP settings will allow you to configure your IP camera as an UPnP device in the network.

UPnP: Enabling UPnP settings will allow you to connect directly to the Internet; you will need to enter the username and password which were given to you when you set up your account with your Internet Service Provider. If the camera is behind a router or a gateway, you do not need to configure this setting.

HTTP: HTTP Port is the port you allocate in order to connect to the IP camera via a standard web browser.

HTTPS: HTTPS Port is a IP camera connects it with a PC via a secure web browser.

RTSP: RTSP Port is the port you allocate in order to connect to a IP camera by using streaming mobile devices, such as a mobile phone or PDA.

CoS (Class of Service): Coarsely-grained traffic control based on the L2 protocol. Class of Service technologies do not guarantee a level of service in terms of bandwidth and delivery time; they offer a "best-effort".

QoS (Quality of Service): Fine-grained traffic control; a resource reservation control mechanism. Quality of service guarantees are important if the network capacity is insufficient, especially for real-time streaming multimedia applications.

Enable IPv6: Select this option and click Save to enable IPv6 setting. Please note that this only works if your network environment and hardware equipment support IPv6. The browser should be Microsoft® Internet Explorer 6.5, Mozilla Firefox 3.0 or above. When IPv6 is enabled by default, the Network Camera will respond to router advertisements and be assigned a link-local IPv6 address accordingly.

IPv6 Information: Click this button to obtain the IPv6 information. If your IPv6 setting are successful, the IPv6 address list will be listed in the pop-up window. Please follow the steps below to link to IPv6.

**Enable UPnP Presentation:** Enabling this setting allows your camera to be configured as a UPnP device on your network.

**Enable UPnP Port Forwarding:** Enabling this setting allows the camera to add port forwarding entries into the router automatically on a UPnP capable network.

**Enable PPPoE:** Enable this setting if your network uses PPPoE.

**User Name / Password:** Enter the username and password for your PPPoE account. Re-enter your password in the Confirm Password field. You may obtain this information from your ISP.

**HTTP Port:** The default port number is 80.

**Access Name for Stream 1~3:** The default name is video#.mjpg, where # is the number of the stream.

**HTTPS Port:** You may use a PC with a secure browser to connect to the HTTPS port of the camera. The default port number is 443.

**Authentication:** Choose to enable or disable RTSP digest encryption. Digest encryption uses MD5 hashes.

**RTSP Port:** The port number that you use for RTSP streaming to mobile devices, such as mobile phones or PDAs. The default port number is 554. You may specify the address of a particular stream. For instance, live1.sdp can be accessed at rtsp://x.x.x.x/video1.sdp where the x.x.x.x represents the IP address of your camera.

**Enable CoS:** Enabling the Class of Service setting implements a best-effort policy without making any bandwidth reservations.

**LAN SETTINGS**

DHCP  
 Static IP Client

IP address: 192.168.0.126  
 Subnet mask: 255.255.255.0  
 Default router: 192.168.0.1  
 Primary DNS: 192.168.0.1  
 Secondary DNS: 0.0.0.0

Enable UPnP presentation  
 Enable UPnP port forwarding

Forwarding Port: 1024 [Test]  
 Forwarding Status: UPnP forwarding is inactive

**PPPOE SETTINGS**

Enable  Disable

User Name:   
 Password:   
 Confirm password:   
 PPPoE Status: PPPoE is inactive.

**HTTP**

HTTP port: 80  
 Access name for stream1: video1.mjpg  
 Access name for stream2: video2.mjpg  
 Access name for stream3: video3.mjpg

**HTTPS**

HTTPS port: 443

**RTSP**

Authentication: Digest  
 RTSP port: 554  
 Access name for stream1: live1.sdp  
 Access name for stream2: live2.sdp  
 Access name for stream3: live3.sdp

**COS SETTINGS**

Enable CoS

VLAN ID: 1 [0~4095]  
 Live video: 0  
 Live audio: 0  
 Event/Alarm: 0  
 Management: 0

**QoS SETTINGS**

Enable QoS

Live video: 0  
 Live audio: 0  
 Event/Alarm: 0  
 Management: 0

**Enable QoS:** Enabling QoS allows you to specify a traffic priority policy to ensure a consistent Quality of Service during busy periods. If the Network Camera is connected to a router that itself implements QoS, the router's settings will override the QoS settings of the camera.

**Enable IPv6:** Enabling this setting will enable use of the IPv6 protocol. Click the IPv6 Information button to see the camera's current IPv6 details, or you can check **Manually setup the IP address** to manually set up the IP address, specify a default router, and set the primary DNS.

**Enable Multicast for stream:** The DCS-6212L allows you to multicast each of the available streams via group address and specify the TTL value for each stream. Enter the port and TTL settings you wish to use if you do not want to use the defaults.

**Enable Bonjour:** Enable this to allow other network devices to connect to this camera using Bonjour.

**Bonjour Name:** Enter the name to identify this camera on Bonjour.

**QoS SETTINGS**

Enable QoS
 

Live video	0	▼
Live audio	0	▼
Event/Alarm	0	▼
Management	0	▼

**IPv6**

Enable IPv6  


Manually setup the IP address

Optional IP address / Prefix length:  / 64

Optional default router:

Optional primary DNS:

**MULTICAST**

Enable multicast for stream 1
 

Multicast group address	<input type="text" value="239.1.1.1"/>
Multicast video port	<input type="text" value="6550"/>
Multicast RTCP video port	<input type="text" value="6551"/>
Multicast audio port	<input type="text" value="6552"/>
Multicast RTCP audio port	<input type="text" value="6553"/>
Multicast TTL [1~255]	<input type="text" value="64"/>

Enable multicast for stream 2

Multicast group address	<input type="text" value="239.1.1.2"/>
Multicast video port	<input type="text" value="6554"/>
Multicast RTCP video port	<input type="text" value="6555"/>
Multicast audio port	<input type="text" value="6556"/>
Multicast RTCP audio port	<input type="text" value="6557"/>
Multicast TTL [1~255]	<input type="text" value="64"/>

Enable multicast for stream 3

Multicast group address	<input type="text" value="239.1.1.3"/>
Multicast video port	<input type="text" value="6558"/>
Multicast RTCP video port	<input type="text" value="6559"/>
Multicast audio port	<input type="text" value="6560"/>
Multicast RTCP audio port	<input type="text" value="6561"/>
Multicast TTL [1~255]	<input type="text" value="64"/>

**BONJOUR SETTINGS**

Enable Bonjour
 

Bonjour Name:  32 characters maximum

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

## Dynamic DNS

DDNS allows you to access your camera using a domain name instead of an IP address. To do this, you will need to have an account with one of the DDNS services listed in the drop-down box on this page.

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

**Server Address:** Select your Dynamic DNS provider from the drop-down menu or enter the server address manually.

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

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

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

**Timeout:** Enter the DNS timeout values you wish to use.

**Status:** Indicates the connection status, which is automatically determined by the system.

The screenshot shows the D-Link web interface for the DCS-6212L camera. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is active, and the 'Dynamic DNS' option is selected in the left sidebar. The main content area is titled 'DYNAMIC DNS' and contains the following information:

- Enable DDNS:** A checkbox that is currently unchecked.
- Server Address:** A text input field containing 'www.dlinkddns.com' and a dropdown menu showing 'www.dlinkddns.com'.
- Host Name:** An empty text input field.
- User Name:** An empty text input field.
- Password:** An empty text input field.
- Verify Password:** An empty text input field.
- Timeout:** A text input field containing '24' followed by '(hours)'.
- Status:** A dropdown menu showing 'Inactive'.

Below the settings are two buttons: 'Save Settings' and 'Don't Save Settings'. A 'Helpful Hints...' section on the right provides additional information about Dynamic DNS. At the bottom of the page, the word 'SECURITY' is visible.

## Image Setup

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

**Enable Privacy Mask Setting:** The Privacy Mask setting allows you to specify up to three rectangular areas on the camera's image to be blocked/excluded from recordings and snapshots.

You may click and drag the mouse cursor over the camera image to draw a mask area. Right-click on the camera image to bring up the following menu options:

- **Disable All:** Disables all mask areas
- **Enable All:** Enables all mask areas
- **Reset All:** Clears all mask areas.

**Anti Flicker:** If the video flickers, try enabling this setting.

**Mirror:** This will mirror the image horizontally.

**Flip:** This will flip the image vertically. When turning Flip on, you may want to consider turning Mirror on as well.

**Power Line:** Select the frequency used by your power lines to avoid interference or distortion.

**White Balance:** Use the drop-down box to change white balance settings to help balance colors for different environments. You can choose from Auto, Outdoor, Indoor, Fluorescent, and Push Hold.

**D-Link**

DCS-6212L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard  
Network Setup  
Dynamic DNS  
Image Setup  
Audio and Video  
Preset  
Motion Detection  
Sound Detection  
Time and Date  
Event Setup  
SD Card  
Logout

**Helpful Hints...**

**Privacy Mask:** Click the attached box to activate this function. Now use your mouse to draw a rectangle covering the area you want hidden. Click the box again to deactivate the function.

**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.

**Mirror:** This function horizontally reverses your images 180 degrees.

**Flip:** This function vertically reverses your images 180 degrees.

**Power Line:** This setting is used to remove 50/60 Hz flicker.

**White Balance:** White Balance - Is the process of removing unrealistic color casts, so that objects which appear white in person are rendered white in your photo.

**Exposure Mode:** Exposure is the total amount of light allowed to fall on the image sensor during the process of capturing an image. You may choose different scene modes to produce the better images.

**Max Gain:** It can always be enabled automatically, but you have an option you can change Max Gain either automatically or manually.

**Denoise:** It is the process of removing noise from a signal.

**Brightness:** It is used to compensate for backlight scenes.

**IMAGE SETUP**

Changes to your IP camera settings are made immediately.

**PRIVACY MASK AREA OF VIDEO SETTING**

Enable Privacy Mask Setting

- Privacy mask: mask 3 privacy area(s) on video.
- Click the right mouse button on the video control to show the popmenu.
- Press the left mouse button, drag and drop to set the privacy area.
- Privacy area can be enabled or disabled.
- After you finish all privacy mask settings, click the Save button.

**IMAGE SETTINGS**

Anti Flicker  On  Off

Mirror  On  Off

Flip  On  Off

Power Line  60 Hz  50 Hz

White Balance **Auto**

Exposure Mode **Auto** Max Gain **36** dB

Denoise **10**

Brightness **4**

Contrast **4**

Saturation **128**

Sharpness **4**

WDR Level **None** 5

3D Filter **None**

Reset Default

**Exposure Mode:** Changes the exposure mode. Use the drop-down box to set the camera for Indoor, Outdoor, or Night environments, or to Moving to capture moving objects. The Low Noise option will focus on creating a high-quality picture without noise. You can also create three different custom exposure modes. The Max Gain setting will allow you to control the maximum amount of gain to apply to brighten the picture.

**Denoise:** This setting controls the amount of noise reduction that will be applied to the picture.

**Brightness:** Adjust this setting to compensate for backlit subjects.

**Contrast:** Adjust this setting to alter the color intensity/strength.

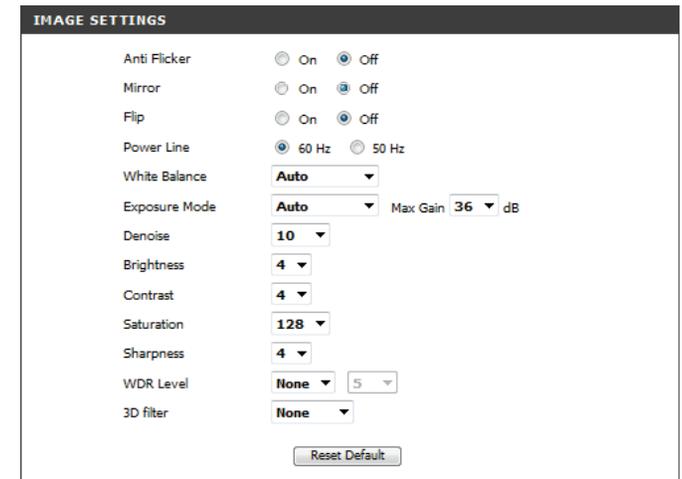
**Saturation:** This setting controls the amount of coloration, from grayscale to fully saturated.

**Sharpness:** Specify a value from 0 to 8 to specify how much sharpening to apply to the image.

**WDR Level:** WDR makes it easier to see objects that may appear dark due to strong backlighting conditions during the daytime. Higher WDR levels will make it easier to see objects in shadows.

**3D Filter:** 3D filtering reduces the amount of image noise when viewing a low-light environment. Higher levels of 3D filtering will apply stronger levels of noise reduction.

**Reset Default:** Click this button to reset the image settings to their factory defaults.



The screenshot displays the 'IMAGE SETTINGS' interface with the following configurations:

- Anti Flicker:  On  Off
- Mirror:  On  Off
- Flip:  On  Off
- Power Line:  60 Hz  50 Hz
- White Balance: Auto
- Exposure Mode: Auto Max Gain: 36 dB
- Denoise: 10
- Brightness: 4
- Contrast: 4
- Saturation: 128
- Sharpness: 4
- WDR Level: None 5
- 3D filter: None

A 'Reset Default' button is located at the bottom right of the settings panel.

## Audio and Video

You may configure up to three video profiles with different settings for your camera. Hence, you may set up different profiles for your computer and mobile display. In addition, you may also configure the two-way audio settings for your camera. After making any changes, click the **Save Settings** button to save your changes.

**Aspect ratio:** Set the aspect ratio of the video to 4:3 standard or 16:9 widescreen.

**Mode:** Set the video codec to be used to JPEG or H.264.

**Frame size / View window area:** Frame size determines the total capture resolution, and View window area determines the Live Video viewing window size. If the Frame size is larger than the Live Video size, you can use the ePTZ controls to look around.

16:9 1920 x 1080, 1280 x 720, 800 x 448,  
640 x 360 up to 30 fps

4:3 1440 x 1080, 1280 x 960, 1024 x 768,  
800 x 592, 640 x 480 up to 30 fps

**Note:** If your View window area is the same as your Frame size, you will not be able to use the ePTZ function.

**Maximum frame rate:** A higher frame rate provides smoother motion for videos, and requires more bandwidth. Lower frame rates will result in stuttering motion, and requires less bandwidth.

**D-Link**

DCS-6212L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard  
Network Setup  
Dynamic DNS  
Image Setup  
Audio and Video  
Preset  
Motion Detection  
Sound Detection  
Time and Date  
Event Setup  
SD Card  
Logout

**AUDIO AND VIDEO**

This section allows you to configure the sound and video of your camera. You can configure different settings depending on whether you are viewing content from a PC or a Mobile Phone / PDA.

Save Settings Don't Save Settings

**VIDEO SETTINGS**

Aspect ratio: 16:9 **Warning: Change the aspect ratio will clear the settings of privacy mask and preset and motion detection.**

Save Default

**VIDEO PROFILE 1**

Mode: H.264  
Frame size: 1920x1080  
View window area: 1920x1080  
Maximum frame rate: 15  
Video quality: Constant bit rate (2PI), Fixed quality (Standard)

**VIDEO PROFILE 2**

Mode: H.264  
Frame size: 1280x720  
View window area: 1280x720  
Maximum frame rate: 30  
Video quality: Constant bit rate (2PI), Fixed quality (Standard)

**VIDEO PROFILE 3**

Mode: H.264  
Frame size: 640x360  
View window area: 640x360  
Maximum frame rate: 15  
Video quality: Constant bit rate (512K), Fixed quality (Excellent)

**AUDIO SETTINGS**

Audio in off  
Audio in gain level: 20dB  
Audio out off  
Audio out volume level: 7

Save Settings Don't Save Settings

**Helpful Hints...**

Higher frame size, frame rate and bit rate gives better video quality. At the same time, it requires more network bandwidth.

For best viewing results on a mobile phone, we suggest setting the Frame Rate to 5fps and the Bit Rate to 64 Kbps.

**Aspect Ratio:** An aspect ratio is the ratio between the width and height of an image.

**Mode:** It can be H.264 or JPEG. In JPEG mode, the video frames are independent; H.264 can use less bandwidth but better image quality.

**Frame Size:** 5 options exist for the sizes of the video display. It is recommended using 2048x1536 for mobile viewing and 1920x1080 for computer viewing.

**View window area:** The viewing region of this current video stream.

**Max frame rate:** The maximum number of frames that is displayed in 1 second. 30fps is the highest video quality for this camera. In general, any frame rate above 15 fps is imperceptible to the human eye.

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

**Audio Settings:** You can use the option to switch the external microphone on/off or adjust the volume.

**SECURITY**

**Video quality:** This limits the maximum frame rate, which can be combined with the "Fixed quality" option to optimize the bandwidth utilization and video quality. If fixed bandwidth utilization is desired regardless of the video quality, choose "Constant bit rate" and select the desired bandwidth.

**Constant bit rate:** The bps will affect the bit rate of the video recorded by the camera. Higher bit rates result in higher video quality.

**Fixed quality:** Select the image quality level for the camera to try to maintain. High quality levels will result in increased bit rates.

**Audio in off:** Selecting this checkbox will mute incoming audio.

**Audio in gain level:** This setting controls the amount of gain applied to incoming audio to increase its volume.

**Audio out off:** Selecting this checkbox will mute outgoing audio.

**Audio out volume level:** This setting controls the amount of gain applied to outgoing audio to increase its volume.

VIDEO PROFILE 1	
Mode	H.264
Frame size	1920x1080
View window area	1920x1080
Maximum frame rate	15
Video quality	<input type="radio"/> 2M <input checked="" type="radio"/> Standard
VIDEO PROFILE 2	
Mode	H.264
Frame size	1280x720
View window area	1280x720
Maximum frame rate	30
Video quality	<input type="radio"/> 2M <input checked="" type="radio"/> Standard
VIDEO PROFILE 3	
Mode	H.264
Frame size	640x360
View window area	640x360
Maximum frame rate	15
Video quality	<input checked="" type="radio"/> 512K <input type="radio"/> Excellent
AUDIO SETTINGS	
<input type="checkbox"/> Audio in off	
Audio in gain level	20dB
<input type="checkbox"/> Audio out off	
Audio out volume level	7

## Preset

This screen allows you to set preset points for the ePTZ function of the camera, which allows you to look around the camera's viewable area by using a zoomed view. Presets allow you to quickly go to and view a specific part of the area your camera is covering, and you can create preset sequences, which will automatically change the camera's view between the different presets according to a defined order and timing you can set.

**Note:** If your View window area is the same as your Frame size, you will not be able to use the ePTZ function.

**Video Profile:** This selects which video profile to use.

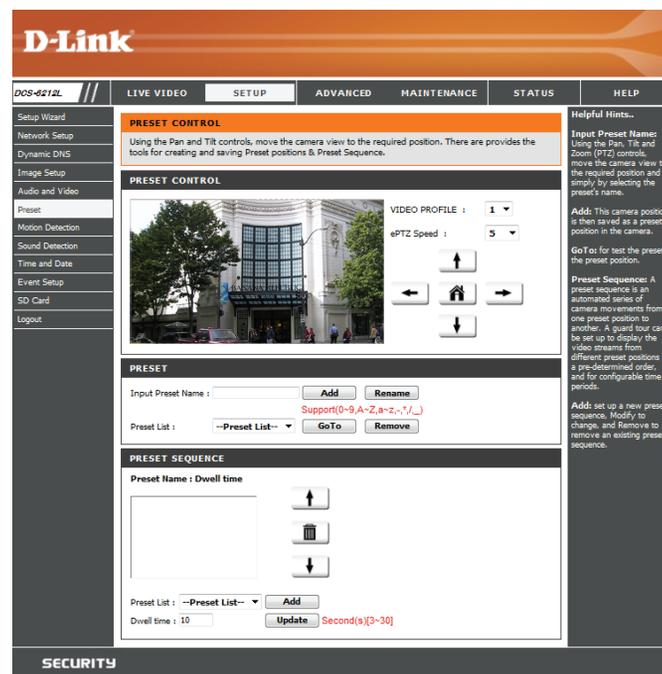
**ePTZ Speed:** You may select a value between 0 and 10. 0 is the slowest and 10 is the fastest.

**Arrow Buttons and Home Button:** Use these buttons to move to a specific part of the viewing area, which you can then set as a preset. Click the **Home** button to return to the center of the viewing area.

**Input Preset Name:** Enter the name of the preset you want to create, then click the **Add** button to make a new preset. If an existing preset has been selected from the Preset List, you can change its name by typing in a new name, then clicking the **Rename** button.

**Preset List:** Click this drop-down box to see a list of all the presets that have been created. You can select one, then click the **GoTo** button to change the displayed camera view to the preset. Clicking the **Remove** button will delete the currently selected preset.

**Preset Sequence:** This section allows you to create a preset sequence, which automatically moves the camera's view between a set of preset views.

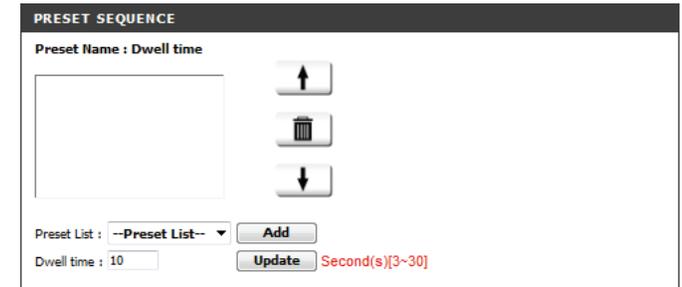


**Preset List:** To add a preset to the sequence, select it from the drop-down box at the bottom of this window, set the **Dwell time** to determine how long the camera view will stay at that preset, then click the **Add** button. The preset name will appear in the list, followed by the dwell time to view that preset for.

You can rearrange your presets in the sequence by selecting a preset in the sequence, then clicking the arrow buttons to move it higher or lower in the current sequence.

Click the trash can button to remove the selected preset from the sequence.

If you want to change the dwell time for a preset, select it from the list, enter a new dwell time, then click the **Update** button.



The screenshot shows a window titled "PRESET SEQUENCE". At the top, it says "Preset Name : Dwell time". Below this is a large empty rectangular box. To the right of this box are three vertically stacked buttons: an up arrow, a trash can, and a down arrow. Below the box, there is a "Preset List" dropdown menu currently showing "--Preset List--" and an "Add" button. Below that is a "Dwell time" input field with the value "10" and an "Update" button. To the right of the "Update" button, there is a red text label "Second(s)[3~30]".

## Motion Detection

Motion detection enables the camera to monitor the video feed for movement. Here, you can adjust the sensitivity settings that determine whether motion is detected by the camera or not. After making any changes, click the **Save Settings** button to save your changes.

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

**Sensitivity:** Specifies how sensitive motion detection will be from 0% to 100%. A low sensitivity setting means that there must be large changes between two images in order to detect motion, and a high sensitivity setting means that even small changes will cause motion to be detected.

**Draw Motion Area:** Use your mouse to click and drag on the areas that you would like to monitor for motion.

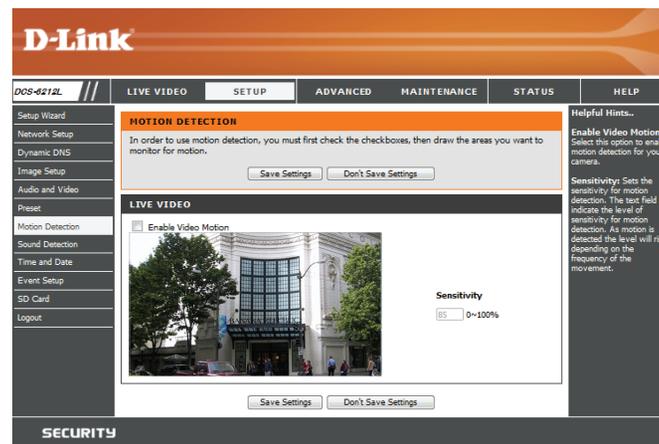
**Erase Motion Area:** To erase a motion detection area, click on the red square that you wish to remove.

Right-click on the camera image to bring up the following menu options:

**Select All:** Draws a motion detection area over the entire screen.

**Clear All:** Clears any motion detection areas that have been drawn.

**Restore:** Restores the previously specified motion detection areas.



## Sound Detection

Sound detection enables the camera to monitor the environment for loud sounds. You may set the volume threshold used to determine whether sound was detected or not.

**Sound Detection:** Select this box to enable the sound detection feature of your camera.

**Detection Level:** Set the volume level that must be exceeded for the camera to determine whether a loud sound was detected or not. Please note that the volume numbers are approximate; use the live monitor graph below to help you set an appropriate level.

The screenshot shows the D-Link DCS-6212L web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is active, and the 'Sound Detection' section is highlighted in the left sidebar. The main content area displays the 'Sound Detection' configuration page. It features a checkbox for 'Sound Detection' which is checked. Below it is a 'Detection Level' dropdown menu set to '80'. A live monitor graph shows sound levels over time, with a red vertical line at 80 dB. The graph shows several blue bars representing sound levels, with one bar exceeding the 80 dB threshold. The y-axis is labeled 'dB' and ranges from 40 to 100. The x-axis is labeled 'Time'. The page also includes 'Save Settings' and 'Don't Save Settings' buttons. A 'Helpful Hints...' section on the right provides additional information about the Sound Detection feature.

## Time and Date

This section allows you to automatically or manually configure, update, and maintain the internal system clock for your camera. After making any changes, click the **Save Settings** button to save your changes.

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

**Enable Daylight Saving:** Select this to enable Daylight Saving Time.

**Auto Daylight Saving:** Select this option to allow your camera to configure the Daylight Saving settings automatically.

**Set Date and Time Manually:** Selecting this option allows you to configure the Daylight Saving date and time manually.

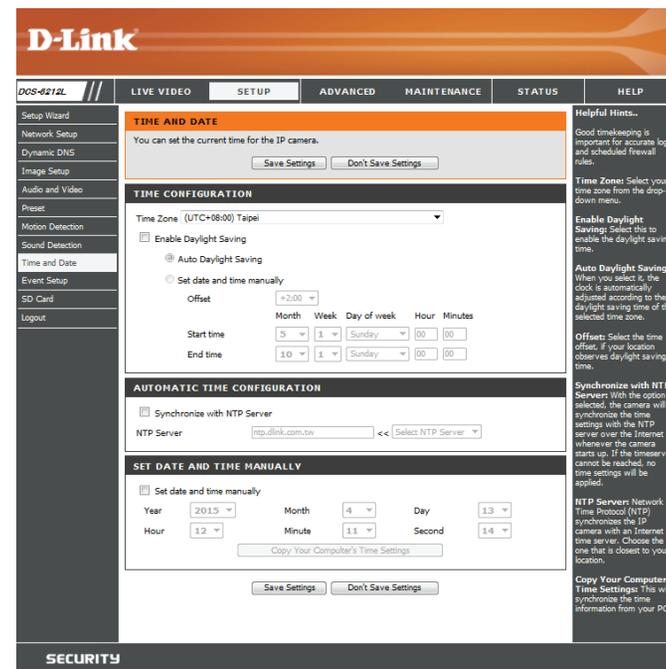
**Offset:** Sets the amount of time to be added or removed when Daylight Saving is enabled.

**Synchronize with NTP Server:** Enable this feature to obtain time automatically from an NTP server.

**NTP Server:** Network Time Protocol (NTP) synchronizes the DCS-6212L with an Internet time server. Choose the one that is closest to your location.

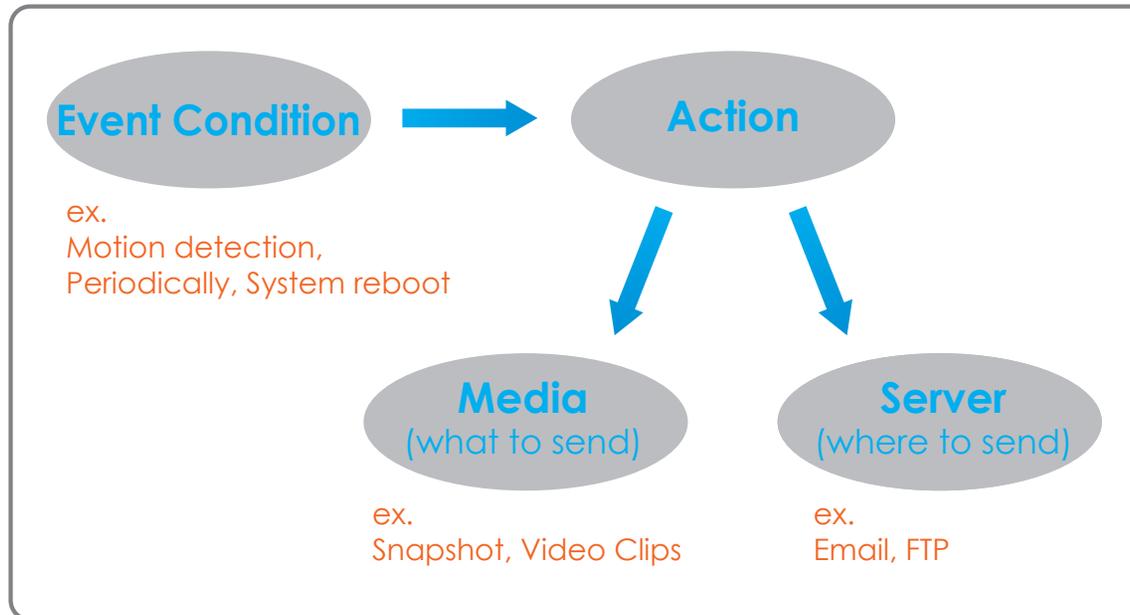
**Set the Date and Time Manually:** This option allows you to set the time and date manually.

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



## Event Setup

In a typical application, when motion is detected, the DCS-6212L sends images to a FTP server or via e-mail as notifications. As shown in the illustration below, an event can be triggered by many sources, such as motion detection. When an event is triggered, a specified action will be performed. You can configure the Network Camera to send snapshots or videos to your e-mail address or FTP site.



To start plotting an event, it is suggested to configure server and media columns first so that the camera will know what action shall be performed when a trigger is activated.

The Event Setup page includes four different sections.

- Event
- Server
- Media
- Recording

1. To add a new item server, media, event, or recording item click **Add**. A screen will appear and allow you to update the fields accordingly.
2. To delete the selected item from the server, media, event, or recording drop-down menus, click the **Delete** button next to it.
3. Click on an item to edit it.

### Add Server

You can configure up to five servers to save snapshots and/or video to. After making any changes, click the **Save Settings** button to save your changes.

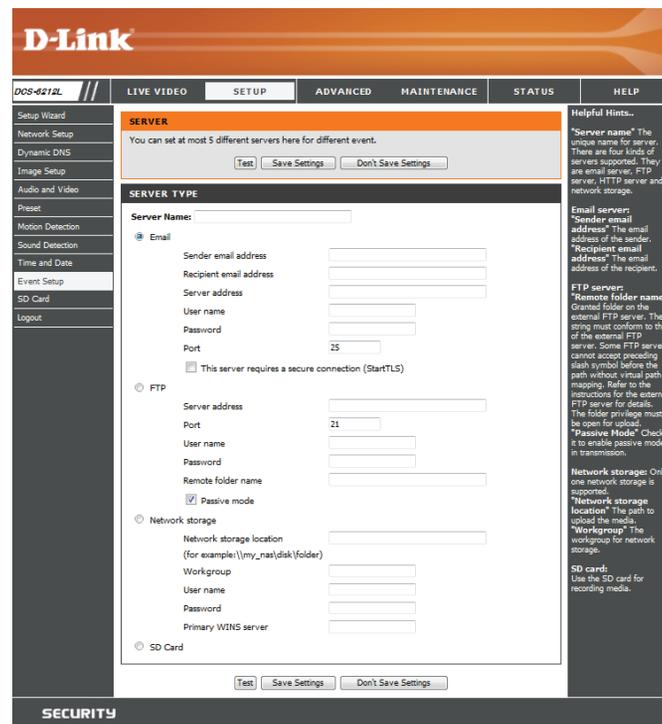
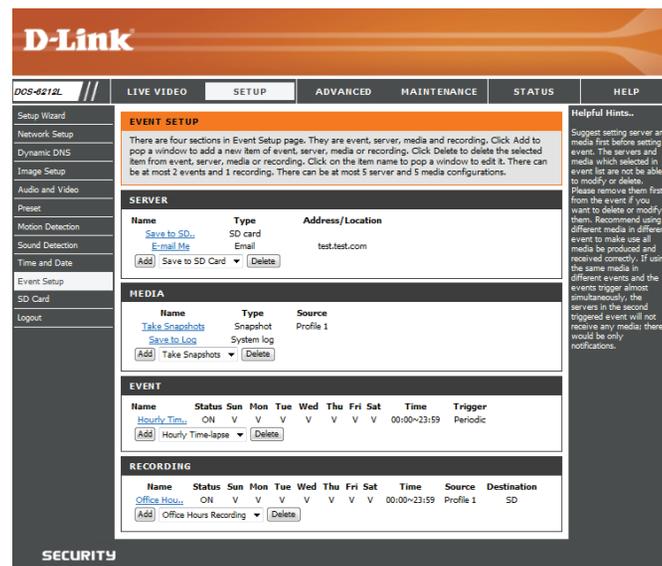
**Server Name:** Enter the unique name of your server.

**E-mail:** Enter the configuration for the target e-mail server account.

**FTP:** Enter the configuration for the target FTP server account.

**Network Storage:** Specify a network storage device. Only one network storage device is supported.

**SD Card:** Use a microSD card for storage.



## Add Media

There are three types of media: **Snapshot**, **Video Clip**, and **System Log**. After making any changes, click the **Save Settings** button to save your changes.

**Media Name:** Enter a unique name for media type you want to create.

**Snapshot:** Select this option to set the media type to snapshots.

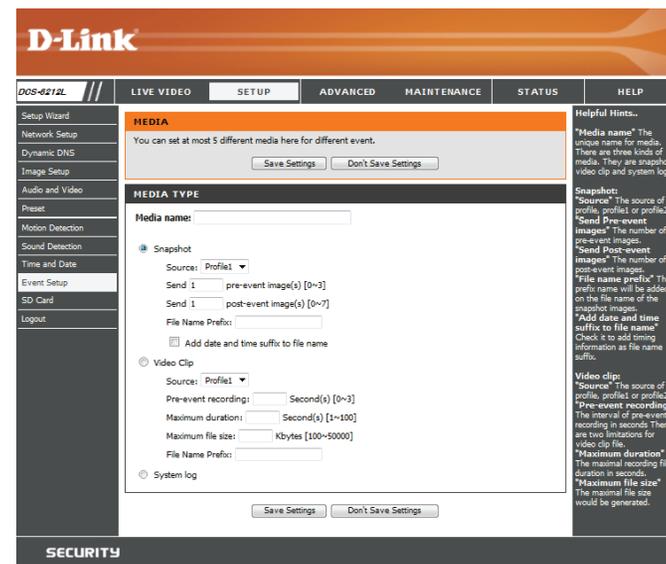
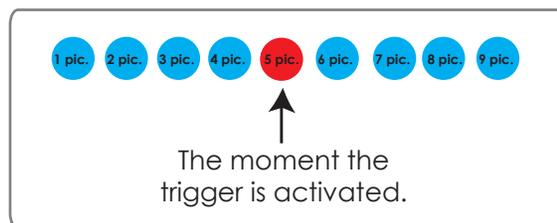
**Source:** Set the video profile to use as the media source. Refer to "Audio and Video" on page 36 for more information on video profiles.

**Send pre-event image(s) [0~4]:** Set the number of pre-event images to take. Pre-event images are images taken before the main event snapshot is taken.

**Send post-event image(s) [0~7]:** Set the number of post-event images to take. Post-event images are images taken after the main event snapshot is taken. You can set up to 7 post-event images to be taken.

For example:

If both the Send pre-event images and Send post-event images are set to 4, a total of 9 images are generated after a trigger is activated.



**File name prefix:** The prefix name will be added to the file name.



**Add date and time suffix to file name:** Check this to add the date and time the snapshot was recorded as a file name suffix.

**Video clip:** Select this option to set the media type to video clips.

**Source:** Set the video profile to use as the media source. Refer to "Audio and Video" on page 36 for more information on video profiles.

**Pre-event recording:** This sets how many seconds to record before the main event video clip starts. You can record up to 4 seconds of pre-event video.

**Maximum duration:** Set the maximum length of video to record for your video clips.

**Maximum file size:** Set the maximum file size to record for your video clips.

**File Name Prefix:** This is the prefix that will be added to the filename of saved video clips.

**System log:** Select this option to set the media type to system logs. This will save the event to the camera system log, but will not record any snapshots or video.

**MEDIA TYPE**

Media name:

Snapshot

Source: Profile1

Send  pre-event image(s) [0~3]

Send  post-event image(s) [0~7]

File Name Prefix:

Add date and time suffix to file name

Video Clip

Source: Profile1

Pre-event recording:  Second(s) [0~3]

Maximum duration:  Second(s) [1~100]

Maximum file size:  Kbytes [100~50000]

File Name Prefix:

System log

Save Settings    Don't Save Settings

## Add Event

Create and schedule up to three events with their own settings here. After making any changes, click the **Save Settings** button to save your changes.

**Event name:** Enter a name for the event.

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

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

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

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

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

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

**System Boot:** Triggers an event when the system boots up.

**Network Lost:** Triggers an event when the network connection is lost.

**Sound Detection:** Triggers an event when sound is detected.

**Time:** Select **Always** or enter the time interval to monitor for the specified kind of event.

**Action:** If you have created Server and Media entries, they will appear here. Select which Server you want to send to and which Media you want the camera to send.

## Add Recording

Here you can configure and schedule the recording settings. After making any changes, click the **Save Settings** button to save your changes.

**Recording entry name:** Enter a name for the recording.

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

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

**Source:** Select the video profile to use as the recording source.

**Recording schedule:** Use the check boxes to set which days to record video on. Select **Always** to record for the entire day, or select **From** and select what period of time you want to record using the drop-down boxes.

**Destination:** Select the folder where the recording file will be stored.

**Total cycling recording size:** Please input a HDD volume between 1MB and 2TB for recording space. The recording data will replace the oldest record when the total recording size exceeds this value. For example, if each recording file is 6MB, and the total cyclical recording size is 600MB, then the camera will record 100 files in the specified location (folder) and then will delete the oldest file and create new file for cyclical recording.

Please note that if the free HDD space is not enough, the recording will stop. Before you set up this option please make sure your HDD has enough space, and it is better to not save other files in the same folder as recording files.

The screenshot shows the D-Link web interface for the DCS-6212L camera. The main navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is active, and the 'RECORDING' sub-tab is selected. The interface is divided into a left sidebar with navigation options (Setup Wizard, Network Setup, Dynamic DNS, Image Setup, Audio and Video, Preset, Motion Detection, Sound Detection, Time and Date, Event Setup, SD Card, Logout) and a main content area. The main content area is titled 'RECORDING' and contains the following sections:

- RECORDING:** A message states, "You can setup schedule recording to network storage with your specify week day and time period." Below this are 'Save Settings' and 'Don't Save Settings' buttons.
- RECORDING:** A form with 'Recording entry name' set to 'Office Hours Recording'. It includes a checked 'Enable this recording' box, 'Priority' set to 'normal', and 'Source' set to 'Profile 1'.
- RECORDING SCHEDULE:** A section with checkboxes for each day of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat), all of which are checked. Below this is a 'Time' section with 'Always' selected, and 'From' and 'To' time pickers set to '00:00' and '23:59' respectively.
- RECORDING SETTINGS:** A section with 'Destination' set to 'SD', 'Total cycling recording size' set to '1000 Mbytes (200~2000000)', 'Size of each file for recording' set to '10 Mbytes', and 'Time of each file for recording' set to '1.0 seconds'. The 'File Name Prefix' is 'OfficeHours'. 'Save Settings' and 'Don't Save Settings' buttons are at the bottom.

A 'Helpful Hints...' sidebar on the right provides additional information:
 

- Recording:** Enable this option if you want to upload the recording to a shared folder on the network.
- Recording schedule:** Select the day(s) according to when you want the IP camera to make a video clip.
- Always:** This enables the IP camera to make video clips continuously.
- From:** The time range specified for the video clip.
- Total cycling recording size:** Please enter the maximum amount of storage that can be used for recording on the media. Files will be written to storage cyclically; i.e., oldest files will be overwritten if necessary so that the total recording size does not exceed this value.
- Note:** Please Format SD card before use. The entire data in the SD card will be erased after formatting.

**Size of each file for recording:** If this is selected, files will be separated based on the file size you specify.

**Time of each file for recording:** If this is selected, files will be separated based on the maximum length you specify.

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

The screenshot displays a configuration interface for recording, divided into three main sections:

- RECORDING:** This section includes a text field for "Recording entry name" (set to "Office Hours Recording"), a checked checkbox for "Enable this recording", a "Priority" dropdown menu (set to "normal"), and a "Source" dropdown menu (set to "Profile 1").
- RECORDING SCHEDULE:** This section features a row of checkboxes for days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat), all of which are checked. Below this, there is a "Time" section with a radio button selected for "Always" and another radio button for "From" followed by two time selection dropdowns (set to 00 and 00) and "To" followed by two more time selection dropdowns (set to 23 and 59).
- RECORDING SETTINGS:** This section includes a "Destination" dropdown menu (set to "SD"), a "Total cycling recording size" field (set to 1000 Mbytes), and two radio buttons for recording criteria: "Size of each file for recording" (set to 10 Mbytes) and "Time of each file for recording" (set to 10 seconds). A "File Name Prefix" text field is also present, containing the text "OfficeHours".

At the bottom of the interface, there are two buttons: "Save Settings" and "Don't Save Settings".

## SD Card

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

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

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

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

**Refresh:** Reloads the file and folder information from the microSD card.

The screenshot shows the D-Link DCS-6212L web interface. The main content area is titled "SD CARD" and contains the following information:

SD Card: / SD Status: Ready

Files per Page: 10 Refresh

<input type="checkbox"/>	Delete	File	Num of files	Size
<input type="checkbox"/>		Video	0	
<input type="checkbox"/>		Picture	0	

Format SD Card Total:31154688KB, Used:96KB, Free:31154592KB

OK

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

**Format SD Card:** Click this icon system will automatically format SD card and create "picture" & "video" folders.

**View recorded picture:** If SD stored recorded picture files, enter picture link and choose which picture file you desire to view. You will view picture via image viewer SW. (ie. Windows Image Viewer)

**Playback recorded videos:** If SD stored recorded video files, enter video link and choose which video file you desire to playback. Windows will guide you to open/download video file (AVI format) so that you can playback file via video decoder SW (ie. Windows Media Player)

# Advanced ICR and IR

Here you can configure the ICR and IR settings. The ICR (Infrared Cut-filter Removable) can be disengaged for increased sensitivity in low light environments.

**Automatic:** The Day/Night mode is set automatically. You can use the Sensitivity drop-down box to set when the camera will switch to Night mode. The text box to the right shows what lighting conditions are currently being detected by the camera for reference. You can refresh this status by clicking the **Refresh** button.

**Day Mode:** Day mode enables the IR Cut Filter.

**Night Mode:** Night mode disables the IR Cut Filter.

**Schedule Mode:** Set up the Day/Night mode using a schedule. The camera will enter Day mode at the starting time and return to Night mode at the ending time.

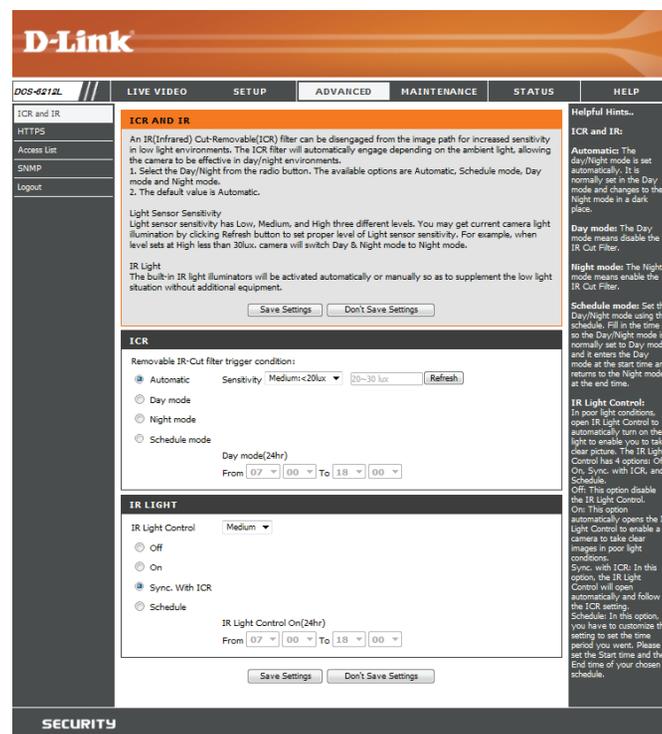
**IR Light Control:** The camera can enable or disable the IR (infrared) light according to your preferences. This setting provides additional controls depending on your specific application.

**Off:** The IR light will always be off.

**On:** The IR light will always be on.

**Sync:** The IR light will turn on when the ICR filter is disabled (night mode).

**Schedule:** The IR light will turn on or off according to the schedule that you specify below.



# HTTPS

This page allows you to install and activate an HTTPS certificate for secure access to your camera. After making any changes, click the **Save Settings** button to save your changes.

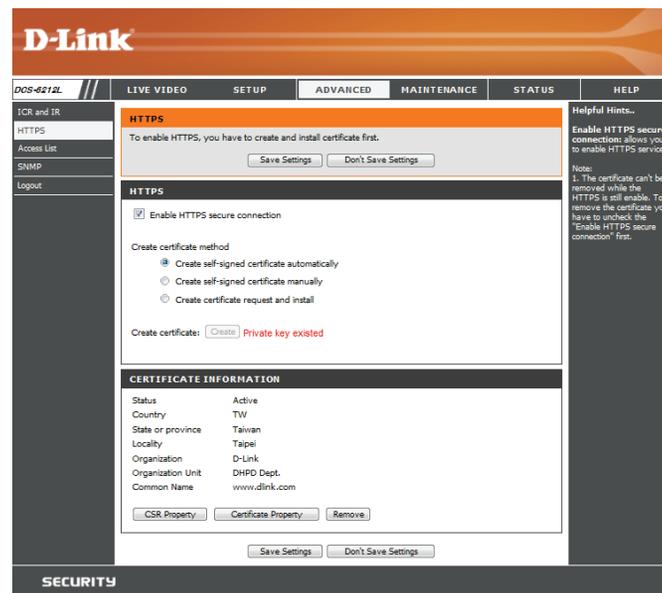
**Enable HTTPS Secure Connection:** Enable the HTTPS service.

**Create Certificate Method:** Choose the way the certificate should be created. Three options are available:

- Create a self-signed certificate automatically
- Create a self-signed certificate manually
- Create a certificate request and install

**Status:** Displays the status of the certificate.

**Note:** The certificate cannot be removed while HTTPS is still enabled. To remove the certificate, you must first uncheck **Enable HTTPS secure connection**.



## Access List

Here you can set access permissions for users to view your DCS-6212L.

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

**Note:** When adding entries to the Allow list, make sure the first entry includes the IP address of the computer or device you are using to access the camera. Otherwise, you may be blocked from accessing the camera after adding the entry to the Allow list.

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

**End IP address:** The ending IP address of the IP address range for the devices (such as a computer) that have permission to access the video of the camera. Click **Add** to save your changes.

**Note:** A total of seven lists can be configured for both columns.

**Delete allow list:** Select an entry to remove from the Allow List, then click **Delete**.

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

**Delete deny list:** Select an entry to remove from the Deny List, then click **Delete**.

**Note:** All addresses in the Deny List will be denied access, even if they are also in the Allow List.



# SNMP

Here you can set the SNMP settings for the camera, which allow for SNMP management of the camera.

**Enable SMNPv1, SNMPv2c:** Enable this option to allow for SNMPv1 and SNMPv2c management of the camera.

**Read/Write Community:** Enter a name for the read/write community of your SNMP server.

**Read Only Community:** Enter a name for the read-only community of your SNMP server.

**Enable SNMPv3:** Enable this option to allow SNMPv3 management of the camera.

**Read/Write Security Name:** Enter a name for the read/write community of your read/write SNMP server.

**Authentication Type:** Enter the type of authentication used by your read/write SNMP server.

**Authentication Password:** Enter the authentication password used for your read/write SNMP server.

**Encryption Password:** Enter the encryption password used for your read/write SNMP server.

**Read Only Security Name** Enter a name for the read-only community of your read-only SNMP server.

The screenshot shows the D-Link web interface for the DCS-6212L camera. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'ADVANCED' tab is selected, and the 'SNMP' sub-tab is active. The page title is 'SNMP'. Below the title, there is a brief description of SNMP and two buttons: 'Save Settings' and 'Don't Save Settings'. The main configuration area is titled 'SNMP CONFIGURATION' and contains the following settings:

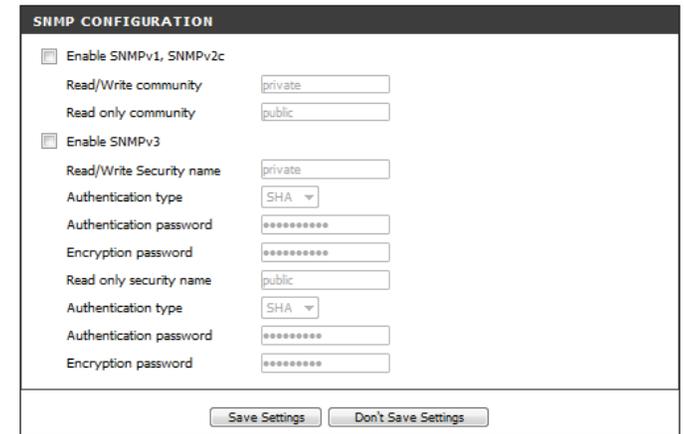
- Enable SNMPv1, SNMPv2c
  - Read/Write community: private
  - Read only community: public
- Enable SNMPv3
  - Read/Write Security name: private
  - Authentication type: SHA
  - Authentication password: \*\*\*\*\*
  - Encryption password: \*\*\*\*\*
  - Read only security name: public
  - Authentication type: SHA
  - Authentication password: \*\*\*\*\*
  - Encryption password: \*\*\*\*\*

At the bottom of the configuration area, there are 'Save Settings' and 'Don't Save Settings' buttons. On the right side of the page, there is a 'Helpful Hints' section with text explaining the security options and community names.

**Authentication Type:** Enter the type of authentication used by your read-only SNMP server.

**Authentication Password:** Enter the authentication password used for your read-only SNMP server.

**Encryption Password:** Enter the encryption password used for your read-only SNMP server.



The image shows a web-based configuration interface for SNMP. The title bar reads "SNMP CONFIGURATION". There are two main sections, each with a checkbox to enable the protocol. The first section is for SNMPv1 and SNMPv2c, with fields for "Read/Write community" (set to "private") and "Read only community" (set to "public"). The second section is for SNMPv3, with fields for "Read/Write Security name" (set to "private"), "Authentication type" (set to "SHA"), "Authentication password" (masked with asterisks), "Encryption password" (masked with asterisks), "Read only security name" (set to "public"), "Authentication type" (set to "SHA"), "Authentication password" (masked with asterisks), and "Encryption password" (masked with asterisks). At the bottom of the form are two buttons: "Save Settings" and "Don't Save Settings".

# Maintenance

## Device Management

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

**Admin Password Setting:** Set a new password for the administrator's account.

**Add User Account:** Add a new user account.

**User Name:** Enter the user name for the new account.

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

**User List:** All the existing user accounts will be displayed here. You may delete accounts included in the list, but you may want to reserve at least one as a guest account.

**IP Camera Name:** Create a unique name for your camera that will be added to the file name prefix when creating a snapshot or a video clip.

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

**Label:** Enter a label for the camera, which will be shown on the OSD when it is enabled.

**Show Time:** Select this option to enable the time-stamp display on the video screen.

**LED:** You may specify whether or not to illuminate the status LED on the camera.

**D-Link**

DCS-6212L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

**ADMIN**

Here you can change the administrator's password for your IP camera as well as add and/or delete user account(s). You can configure the information, such as IP camera's name and time via this page. You can also enable the OSD (On-Screen Display) feature in order to display the IP camera name and time stamp for your video recordings.

**ADMIN PASSWORD SETTING**

New Password  32 characters maximum  
Retype Password

**ADD USER ACCOUNT**

User Name  20 users maximum  
New Password  32 characters maximum  
Retype Password

**USER LIST**

User Name  -- User list --

**DEVICE SETTING**

IP Camera Name DCS-6212L 63 characters maximum  
 Enable OSD  
Label DCS-6212L 30 characters maximum  
Show Time

**LED**

LED  On  Off

**Helpful Hints...**

Enabling OSD, the IP camera name and time will be displayed on the video screen for the user.

For security purposes, it is recommended that you change the password for your administrator account. Be sure to write down the new password to avoid having to reset the IP camera in the event that it is forgotten.

LED: In the near panel of your camera there is a LED beside the network adapter. ON: The LED will flash in light to indicate if the network is working or not. OFF: No light will show. Forth option is turn off.

**SECURITY**

## System

In this section, you may backup, restore and reset the camera configuration, or reboot the camera.

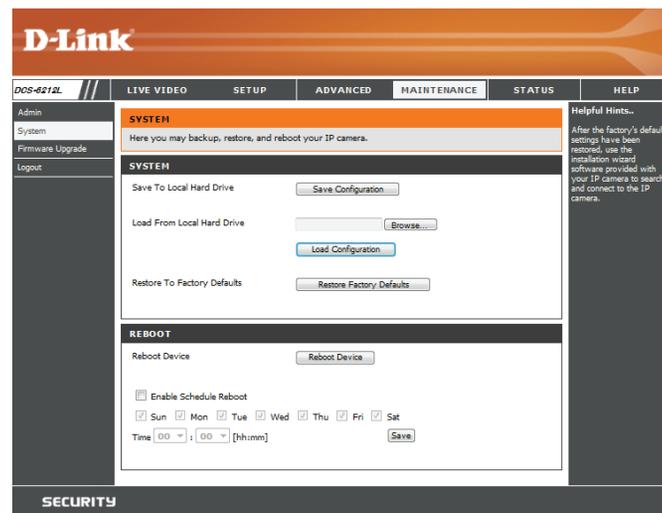
**Save To Local Hard Drive:** You may save your current camera configuration as a file on your computer.

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

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

**Reboot Device:** This will restart your camera.

**Enable Schedule Reboot:** If you want your camera to reboot on a regular schedule, check the **Enable Schedule Reboot** checkbox, then select the days and time you want the camera to reboot on.



## Firmware Upgrade

The camera's current firmware version will be displayed on this screen. You may visit the D-Link Support Website to check for the latest available firmware version.

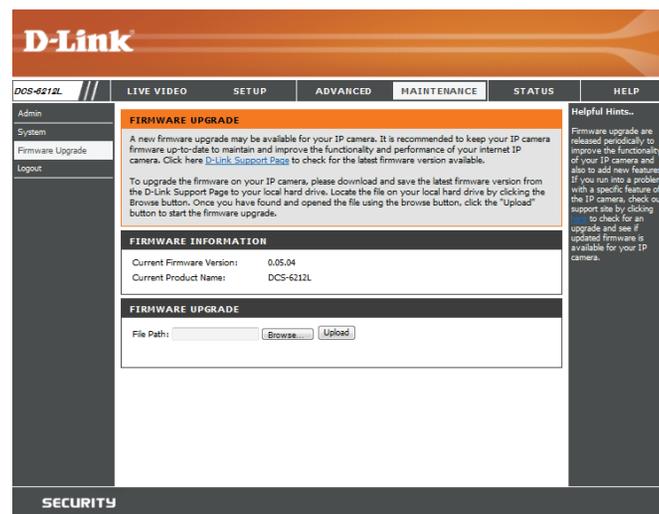
To upgrade the firmware on your DCS-6212L, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the **Browse** button. Select the file and click the **Upload** button to start upgrading the firmware.

**Current Firmware Version:** Displays the detected firmware version.

**Current Product Name:** Displays the camera model name.

**File Path:** Click **Browse** and locate the firmware file that you downloaded from the D-Link support site on your computer.

**Upload:** Uploads the new firmware to your camera.



# Status

## Device Info

This page displays detailed information about your device and network connection.

The screenshot shows the D-Link web interface for a DCS-6212L device. The top navigation bar includes links for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS (selected), and HELP. The left sidebar contains links for Device Info (selected), Log, and Logout. The main content area is titled 'DEVICE INFO' and contains a message: 'All of your network connection details are displayed on this page. The firmware version is also displayed here.' Below this is an 'INFORMATION' table with the following details:

INFORMATION	
IP Camera Name	DCS-6212L
Time & Date	Mon Apr 13 14:49:23 2015
Firmware Version	0.05.04
Hardware Version	A
MAC Address	B0:C5:54:05:3D:D2
IP Address	192.168.0.126
IP Subnet Mask	255.255.255.0
Default Gateway	192.168.0.1
Primary DNS	192.168.0.1
Secondary DNS	0.0.0.0
PPPoE	Disable
DDNS	Disable
Agent Version	2.0.18-b63

On the right side, there is a 'Helpful Hints..' section with the text: 'This page displays all the information about the IP camera and network settings.'

## Logs

This page displays the log information of your camera.

**D-Link**

DCS-6212L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Device Info  
Log  
Logout

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

**CURRENT LOG**

1. 2015-04-13 14:48:29 admin FROM 192.168.0.174 LOGIN OK
2. 2015-04-13 14:15:43 IP CAMERA Received PERIODIC Trigger
3. 2015-04-13 13:15:43 IP CAMERA Received PERIODIC Trigger
4. 2015-04-13 12:16:13 admin FROM 192.168.0.174 TURN ON RECORDING 1 to SD ; Name : Office Hours Recording
5. 2015-04-13 12:16:13 admin FROM 192.168.0.174 SET Size of each file for recording 10 Mbytes
6. 2015-04-13 12:15:42 admin FROM 192.168.0.174 SET EVENT TYPE 1 ; Trigger : Periodic
7. 2015-04-13 12:14:50 admin FROM 192.168.0.174 SET EVENT MEDIA 2 ; Name : Save to Log, Type : System log
8. 2015-04-13 12:14:41 admin FROM 192.168.0.174 SET EVENT MEDIA 1 ; Name : Take Snapshots, Type : Snapshot
9. 2015-04-13 12:12:22 admin FROM 192.168.0.174 SET EVENT SERVER 2 ; Name : E-mail Me, Type : Email
10. 2015-04-13 12:11:46 admin FROM 192.168.0.174 SET EVENT SERVER 1 ; Name : Save to SD Card, Type : SD Card
11. 2015-04-13 12:09:08 admin FROM 192.168.0.174 SET AWB Indoor
12. 2015-04-13 12:00:49 admin FROM 192.168.0.174 LOGIN OK
13. 2015-04-05 20:57:42 DCS-6212L ACQUIRE DHCP IP 192.168.0.126
14. 2015-04-05 20:57:38 NETWORK RECONNECT
15. 2015-04-05 20:46:52 SYSTEM SET HEATER OFF
16. 2015-04-05 20:46:18 SYSTEM SET HEATER HOLD
17. 2015-04-05 20:46:13 NETWORK LOSS
18. 2015-04-05 20:46:13 SYSTEM SET IR LIGHT OFF
19. 2015-04-05 20:46:13 SYSTEM BOOTING
20. 2015-04-02 12:28:08 admin FROM 192.168.0.100 LOGIN OK

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

# Help

This page provides helpful information regarding camera operation.

The screenshot shows the D-Link DCS-6212L web interface. At the top, there is a navigation bar with the D-Link logo and a menu with tabs for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The HELP tab is selected. On the left side, there is a sidebar with 'Help' and 'Logout' links. The main content area is titled 'HELP' and contains a list of links organized into sections: LIVE VIDEO (Camera), SETUP (Setup Wizard, Network Setup, Dynamic DNS, Image Setup, Audio and Video, Preset, Motion Detection, Sound Detection, Time and Date, Event Setup, SD Card), ADVANCED (ICR and IR, HTTPS, Access List, SNMP), MAINTENANCE (Admin, System, Firmware Upgrade), and STATUS (Device Info, Log). At the bottom of the page, there is a 'SECURITY' section.

**D-Link**

DCS-6212L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Help  
Logout

**HELP**

- [LIVE VIDEO](#)
- [SETUP](#)
- [MAINTENANCE](#)
- [ADVANCED](#)
- [STATUS](#)

**LIVE VIDEO**

- [Camera](#)

**SETUP**

- [Setup Wizard](#)
- [Network Setup](#)
- [Dynamic DNS](#)
- [Image Setup](#)
- [Audio and Video](#)
- [Preset](#)
- [Motion Detection](#)
- [Sound Detection](#)
- [Time and Date](#)
- [Event Setup](#)
- [SD Card](#)

**ADVANCED**

- [ICR and IR](#)
- [HTTPS](#)
- [Access List](#)
- [SNMP](#)

**MAINTENANCE**

- [Admin](#)
- [System](#)
- [Firmware Upgrade](#)

**STATUS**

- [Device Info](#)
- [Log](#)

**SECURITY**

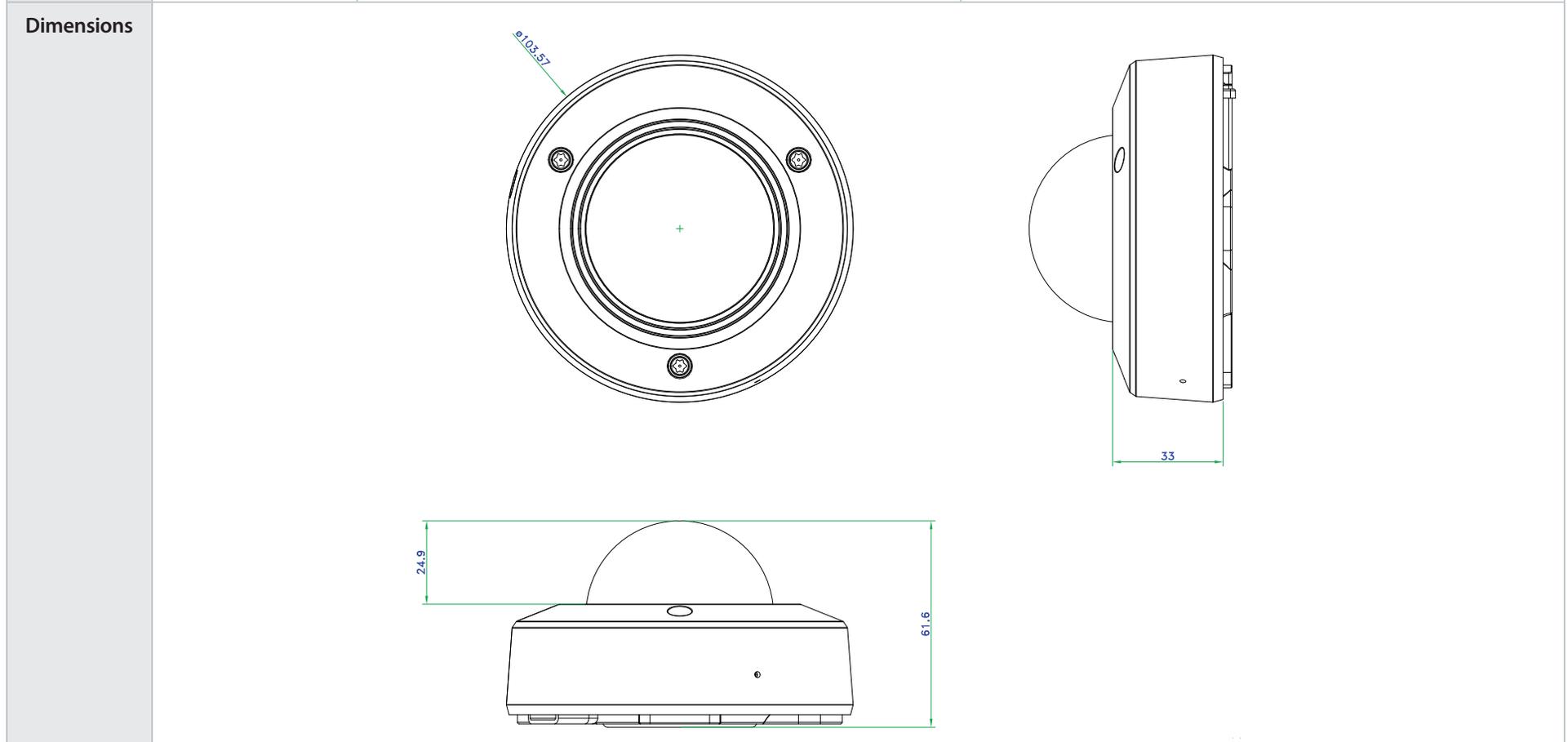
# Technical Specifications

<b>Camera</b>	Camera Hardware Profile	<ul style="list-style-type: none"> <li>▪ 1/3" 2 Megapixel progressive scan CMOS sensor</li> <li>▪ 10 meter IR illumination distance</li> <li>▪ Minimum illumination:               <ul style="list-style-type: none"> <li>▪ 1.0 lux / F2.0 (color)</li> <li>▪ 0.5 lux / F2.0 (B&amp;W)</li> <li>▪ 0 lux (IR LED on)</li> </ul> </li> <li>▪ Built-in Infrared-Cut Removable (ICR) Filter module</li> <li>▪ 10x digital zoom</li> <li>▪ Minimum object distance 300 mm</li> </ul>	<ul style="list-style-type: none"> <li>▪ Exposure time: 1/7.5 to 1/10,000 sec.</li> <li>▪ Focal length: 2.8 mm</li> <li>▪ Aperture: F2.0</li> <li>▪ Angle of view:               <ul style="list-style-type: none"> <li>▪ (H) 84°</li> <li>▪ (V) 46°</li> <li>▪ (D) 97°</li> </ul> </li> <li>▪ Built-in microphone and speaker</li> </ul>
	Camera Housing	<ul style="list-style-type: none"> <li>▪ IP65 compliant weatherproof housing</li> </ul>	<ul style="list-style-type: none"> <li>▪ IK10 vandal proof housing</li> </ul>
	Image Features	<ul style="list-style-type: none"> <li>▪ Configurable image size, quality, frame rate, and bit rate</li> <li>▪ Time stamp and text overlays</li> <li>▪ Configurable motion detection windows</li> </ul>	<ul style="list-style-type: none"> <li>▪ Configurable privacy mask zones</li> <li>▪ Configurable shutter speed, brightness, saturation, contrast, and sharpness</li> </ul>
	Video Compression	<ul style="list-style-type: none"> <li>▪ Simultaneous H.264/MJPEG format compression</li> <li>▪ H.264 multicast streaming</li> </ul>	<ul style="list-style-type: none"> <li>▪ JPEG for still images</li> </ul>
	Video Resolution	<ul style="list-style-type: none"> <li>▪ 16:9 - 1920 x 1080, 1280 x 720, 800 x 448, 640 x 360 up to 30 fps</li> </ul>	<ul style="list-style-type: none"> <li>▪ 4:3 - 1440 x 1080, 1280 x 960, 1024 x 768, 800 x 592, 640 x 480 up to 30 fps</li> </ul>
	Audio Support	<ul style="list-style-type: none"> <li>▪ AAC</li> </ul>	<ul style="list-style-type: none"> <li>▪ G.711</li> </ul>
	External Device Interface	<ul style="list-style-type: none"> <li>▪ 10/100 BASE-TX Fast Ethernet port</li> <li>▪ Supports 802.3af PoE Class 2</li> </ul>	<ul style="list-style-type: none"> <li>▪ SD/SDHC/SDXC (Max.64G) card slot</li> </ul>

<b>Network</b>	Network Protocols	<ul style="list-style-type: none"> <li>▪ IPv6</li> <li>▪ IPv4</li> <li>▪ ARP</li> <li>▪ TCP/IP</li> <li>▪ UDP</li> <li>▪ ICMP</li> <li>▪ DHCP client</li> <li>▪ NTP client (D-Link)</li> <li>▪ DNS client</li> <li>▪ DDNS client (D-Link)</li> <li>▪ SMTP client</li> <li>▪ FTP client</li> <li>▪ HTTP / HTTPS</li> <li>▪ Samba client</li> </ul>	<ul style="list-style-type: none"> <li>▪ PPPoE</li> <li>▪ UPnP</li> <li>▪ UPnP port forwarding</li> <li>▪ RTP / RTSP/ RTCP</li> <li>▪ IP filtering</li> <li>▪ QoS</li> <li>▪ CoS</li> <li>▪ DSCP</li> <li>▪ Multicast</li> <li>▪ IGMP</li> <li>▪ ONVIF compliant</li> <li>▪ Bonjour</li> <li>▪ SNMP v1, v2c, v3</li> </ul>
	Security	<ul style="list-style-type: none"> <li>▪ Administrator and user group protection</li> <li>▪ Password authentication</li> </ul>	<ul style="list-style-type: none"> <li>▪ HTTP and RTSP digest encryption</li> </ul>
<b>System Management</b>	System Requirements for Web Interface	<ul style="list-style-type: none"> <li>▪ Operating System: Microsoft Windows 8/7/Vista or Mac with OS X 10.6 or higher</li> </ul>	<ul style="list-style-type: none"> <li>▪ Browser: Internet Explorer, Firefox, or Safari</li> </ul>
	Event Management	<ul style="list-style-type: none"> <li>▪ Motion detection</li> <li>▪ Sound detection</li> <li>▪ Event notification and uploading of snapshots/video clips via e-mail or FTP</li> </ul>	<ul style="list-style-type: none"> <li>▪ Supports multiple SMTP and FTP servers</li> <li>▪ Multiple event notifications</li> <li>▪ Multiple recording methods for easy backup</li> </ul>
	Remote Management	<ul style="list-style-type: none"> <li>▪ Take snapshots/video clips and save to local hard drive</li> </ul>	<ul style="list-style-type: none"> <li>▪ Configuration interface accessible via web browser</li> </ul>
	Mobile Support	<ul style="list-style-type: none"> <li>▪ mydlink Lite and mydlink+ mobile apps for iOS and Android mobile devices</li> </ul>	
	D-ViewCam™ System Requirements	<ul style="list-style-type: none"> <li>▪ Operating System: Microsoft Windows 8/7/Vista</li> <li>▪ Web Browser: Internet Explorer 7 or higher</li> </ul>	<ul style="list-style-type: none"> <li>▪ Protocol: Standard TCP/IP</li> </ul>
	D-ViewCam™ Software Functions	<ul style="list-style-type: none"> <li>▪ Remote management/control of up to 32 cameras</li> <li>▪ Viewing of up to 32 cameras on one screen</li> </ul>	<ul style="list-style-type: none"> <li>▪ Supports all management functions provided in web interface</li> <li>▪ Scheduled motion triggered, or manual recording options</li> </ul>

## Appendix A: Technical Specifications

<b>General</b>	Weight	280 g $\pm$ 5%	
	External Power Adapter	5V DC, 1.2 A through external power adapter or PoE connection•	External Power Adapter Input: 100 to 240 V AC, 50/60 Hz
	Power Consumption	4.6 watts max. $\pm$ 5% (5V DC)	6.1 watts max. $\pm$ 5% (PoE)
	Temperature	Operating: -25 to 45 °C (-13 to 113 °F)	Storage: -20° to 70° C (-4° to 158° F)
	Humidity	Operating: 20% to 80% non-condensing	Storage: 5% to 95% non-condensing
	Certifications	CE CE LVD IP65	FCC C-Tick IK10 Certified



# Regulatory Information

## **Federal Communication Commission Interference Statement:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio 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 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.

## **Non-modification Statement:**

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

## **Caution:**

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.

## **European Union**



### **CE EMI Class B Warning**

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

### **Safety Instructions**

Please adhere to the following safety guidelines to help ensure your own personal safety and protect your system from potential damage. Any acts taken that are inconsistent with ordinary use of the product, including improper testing, etc., and those not expressly approved by D-Link may result in the loss of product warranty.

Unless expressly approved by an authorized representative of D-Link in writing, you may not and may not permit others to:

- Disassemble or reverse engineer the device or attempt to derive source code (underlying ideas, algorithms, or structure) from the device or from any other information provided by D-Link, except to the extent that this restriction is expressly prohibited by local law.
- Modify or alter the device.
- Remove from the device any product identification or other notices, including copyright notices and patent markings, if any.

To reduce the risk of bodily injury, electrical shock, fire, and damage to the device and other equipment, observe the following precautions:

### **Power Sources**

- Observe and follow service markings.
- Do not push any objects into the openings of your device unless consistent with the authorized operation of the device. Doing so can cause a fire or an electrical shock by shorting out interior components.
- The powering of this device must adhere to the power specifications indicated for this product.
- Do not overload wall outlets and/or extension cords as this will increase the risk of fire or electrical shock.
- Do not rest anything on the power cord or on the device (unless the device is made and expressly approved as suitable for stacking).
- Position system cables and power cables carefully; route cables so that they cannot be stepped on or tripped over. Be sure that nothing rests on any cables.
- Operate the device only from the type of external power source indicated on the electrical ratings label.
- To help avoid damaging your device, be sure the voltage selection switch (if provided) on the power supply is set to match the power available at your location.
- Also be sure that attached devices are electrically rated to operate with the power available in your location.
- Use only approved power cable(s). If you have not been provided a power cable for your device or for any AC -powered option intended for your device, purchase a power cable that is approved for use in your country and is suitable for use with your device. The power cable must be rated for the device and for the voltage and current marked on the device's

electrical ratings label. The voltage and current rating of the cable should be greater than the ratings marked on the device.

- To help prevent an electrical shock, plug the device and peripheral power cables into properly grounded electrical outlets. These cables are equipped with three-prong plugs to help ensure proper grounding. Do not use adapter plugs or remove the grounding prong from a cable. If you must use an extension cable, use a 3-wire cable with properly grounded plugs.
- Observe extension cable and power strip ratings. Ensure that the total ampere rating of all products plugged into the extension cable or power strip does not exceed 80 percent of the ampere ratings limit for the extension cable or power strip.
- To help protect your device from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).
- Do not modify power cables or plugs. Consult a licensed electrician or your power company for site modifications. Always follow your local/national wiring rules.
- When connecting or disconnecting power to hot-pluggable power supplies, if offered with your device, observe the following guidelines.
- Install the power supply before connecting the power cable to the power supply.
- Unplug the power cable before removing the power supply.
- If the system has multiple sources of power, disconnect power from the device by unplugging all power cables from the power supplies.

### **Servicing/Disassembling**

- Do not service any product except as expressly set forth in your system documentation.
- Opening or removing covers that are marked with the triangular symbol with a lightning bolt may expose you to an electrical shock. Only a trained service technician should service components inside these compartments.
- To reduce the risk of electrical shock, never disassemble this device. None of its internal parts are user-replaceable; therefore, there is no reason to access the interior.
- Do not spill food or liquids on your system components, and never operate the device in a wet environment. If the device gets wet, see the appropriate section in your troubleshooting guide or contact your trained service provider.
- Use the device only with approved equipment.
- Move products with care; ensure that all casters and/or stabilizers are firmly connected to the system. Avoid sudden stops and uneven surfaces.

### **Environment**

- Do not use this device near water (e.g. near a bathtub, sink, laundry tub, fish tank, in a wet basement or near a swimming pool).
- Do not use this device in areas with high humidity.
- This device must not be subjected to water or condensation.
- Keep your device away from radiators and heat sources. Also, do not block cooling vents.

### **Cleaning**

- Always unplug the power before cleaning this device.
- Do not use liquid or aerosol cleaners of any kind. Use only compressed air that is recommended for electronic devices.
- Use a dry cloth for cleaning.

### **Protecting Against Electrostatic Discharge**

Static electricity can harm delicate components inside your system. To prevent static damage, discharge static electricity from your body before you touch any of the electronic components, such as the microprocessor. You can do so by periodically touching an unpainted metal surface on the chassis.

You can also take the following steps to help prevent damage from electrostatic discharge (ESD):

1. When unpacking a static-sensitive component from its shipping carton, do not remove the component from the antistatic packing material until you are ready to install the component in your system. Just before unwrapping the antistatic packaging, be sure to discharge static electricity from your body.
2. When transporting a sensitive component, first place it in an antistatic container or packaging.
3. Handle all sensitive components in a static-safe area. If possible, use antistatic floor pads, workbench pads, and an antistatic grounding strap.

### **ErP Power Usage**

This device is an Energy Related Product (ErP) that automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. It can also be turned off through a power switch to save energy when it is not needed.



**Disposing of and Recycling Your Product**  
**ENGLISH**

■ This symbol on the product or packaging means that according to local laws and regulations this product should be not be disposed of in the household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

**D-Link and the Environment**

At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimise this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

D-Link recommends that you always switch off or unplug your D-Link products when they are not in use. By doing so you will help to save energy and reduce CO2 emissions.

To learn more about our environmentally responsible products and packaging please visit [www.dlinkgreen.com](http://www.dlinkgreen.com)

# Warranty

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

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

## Limited Warranty:

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

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

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

### **Limited Software Warranty:**

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

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

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

### **Submitting A Claim (USA):**

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

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

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Please refer to shipping and packaging instructions located online at <http://rma.dlink.com/>.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery (“COD”) is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to **D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708**. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer.

D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link’s reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

### **Submitting A Claim (Canada):**

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

- Customers need to provide their receipt (proof of purchase) even if the product is registered. Without a receipt, no warranty service will be done. The registration is not considered a proof of purchase.
- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.
- The customer must obtain a Case ID Number from D-Link Technical Support at 1-800-361-5265, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization (“RMA”) number by completing the RMA form and entering the assigned Case ID Number at <https://rma.dlink.ca/>.
- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the product and will not ship back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery (“COD”) is allowed. Products sent COD will be rejected by D-Link. Products shall be fully insured by the customer and shipped to D-Link Networks, Inc., 2525 Meadowvale Boulevard Mississauga, Ontario, L5N 5S2 Canada. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via Purolator Canada or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in Canada, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link’s reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.
- RMA phone number: 1-800-361-5265 Hours of Operation: Monday-Friday, 9:00AM – 9:00PM EST

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

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

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

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

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

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

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

### **Limitation of Liability:**

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

### **Governing Law:**

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

### **Trademarks:**

D-Link is a registered trademark of D-Link Corporation/D-Link Systems, Inc. Other trademarks or registered trademarks are the property of their respective owners.

### **Copyright Statement:**

No part of this publication or documentation accompanying this product may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without permission from D-Link Corporation/D-Link Systems, Inc., as stipulated by the United States Copyright Act of 1976 and any amendments thereto. Contents are subject to change without prior notice.

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### **CE Mark Warning:**

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

### **FCC Statement:**

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

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

### **FCC Caution:**

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

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

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

### **IMPORTANT NOTICE:**

#### **FCC Radiation Exposure Statement:**

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

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

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

### **Industry Canada Statement:**

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

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

### **IMPORTANT NOTE:**

#### Radiation Exposure Statement:

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

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

# Registration

Register your product online at [registration.dlink.com](http://registration.dlink.com)



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

Version 1.00  
May 28, 2015