



User Manual

Wireless AC Day/Night Camera with Color Night Vision

Manual Overview

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Manual Revisions

Revision Date		Description	
1.0	August 15, 2013	DCS-2136L Revision A1 with firmware version 1.00	

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Product Overview Package Contents



DCS-2136L Wireless AC Day/Night Camera with Color Night Vision



CAT5 Ethernet cable



Power adapter



CD-ROM with User Manual and software



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.

System Requirements

Network Requirements	• 10/100 Ethernet network or an 802.11ac/n/g/b wireless network	
CD Setup Wizard Requirements	Computer with the following: • A PC with a wired connection to your router • Windows® 8 (32/64bit), Windows® 7 (32/64bit), XP (32/64bit), Vista® (32/64bit), Mac OS®X 10.5 or above • An Internet connection • A router connected to your broadband modem	
Web-based Configuration Utility Requirements	Browser Requirements: • Internet Explorer 7 or higher • Firefox 12 or higher • Safari 4 or higher • Chrome 20 or higher Note: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.	
mydlink Website Requirements	Broadband Internet connection Computer with: Internet Explorer 7 or higher (ActiveX) Firefox 12 or higher Safari 4 or higher Chrome 20 or higher	

Introduction

Congratulations on your purchase of the DCS-2136L Wireless AC Day/Night Camera with Color Night Vision. The DCS-2136L is a versatile and unique solution for your small office or home. Unlike a standard webcam, the DCS-2136L is a complete system with a built-in CPU and web server that transmits high quality video images for security and surveillance. The DCS-2136L can be accessed remotely, and controlled from any PC/Notebook over your local network or through the Internet via a web browser. The simple installation and intuitive web-based interface offer easy integration with your Ethernet/Fast Ethernet or 802.11ac/n/g wireless network. The DCS-2136L also comes with remote monitoring and motion detection features for a complete and cost-effective home security solution.

Features

Simple to Use

The DCS-2136L is a stand-alone system with a built-in CPU, requiring no special hardware or software. The DCS-2136L supports both ActiveX mode for Internet Explorer and Java mode for other browsers such as Chrome®, Firefox®, and Safari®.

Supports a Variety of Platforms

Supports TCP/IP networking, HTTP, and other Internet related protocols. The DCS-2136L can also be integrated easily into other Internet/Intranet applications because of its standards-based features.

Web Configuration

Using a standard Web browser, administrators can configure and manage the DCS-2136L directly from its own Web page via Intranet or Internet. This means you can access your DCS-2136L anytime, anywhere in the world.

All-Day Surveillance with low light color image capability

A built-in white light LED lets you monitor an area 24 hours a day with full color images, even in areas with low light or complete darkness. Combined with the passive IR sensor which can be used to trigger the white light LED, the DCS-2136L is a versatile surveillance and security monitoring device.

Broad Range of Applications

With today's high-speed Internet services, the DCS-2136L can provide the ideal solution for delivering live video images over the Intranet and Internet for remote monitoring. The DCS-2136L allows remote access using a Web browser for live image viewing, and allows the administrator to manage and control the DCS-2136L anytime, anywhere in the world. Many applications exist, including industrial and public monitoring of homes, offices, banks, hospitals, child-care centers, and amusement parks.

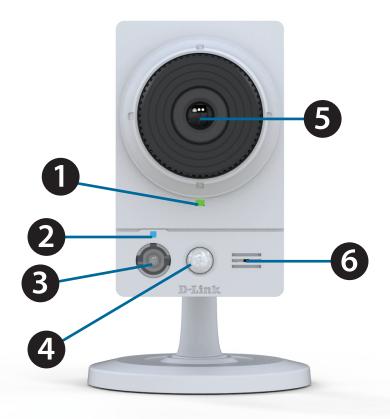
802.11ac Wireless or Ethernet/Fast Ethernet Support

The DCS-2136L offers wireless 802.11ac and Ethernet/Fast Ethernet connectivity, making the DCS-2136L easy to integrate into your existing network environment. The DCS-2136L works with 10/100/1000Mbps Ethernet based networks for traditional wired environments, and works with 802.11ac routers or access points for added flexibility. The Site Survey feature also allows you to view and connect to any available wireless networks.

Remote Monitoring Utility

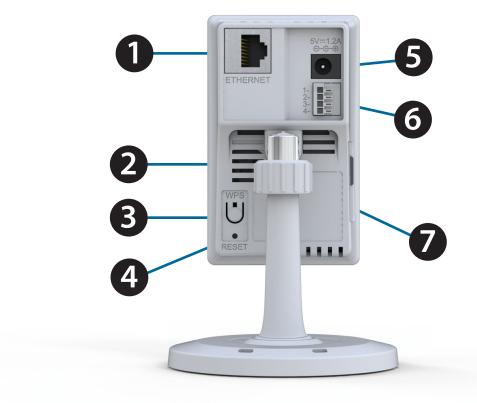
The D-ViewCam application adds enhanced features and functionality for the DCS-2136L and allows administrators to configure and access the DCS-2136L from a remote site via Intranet or Internet. Other features include image monitoring, recording images to a hard drive, viewing up to 32 cameras on one screen, and taking snapshots.

Hardware Overview Front



1	Power/Link LED	Indicates the camera's current status
2	WPS Status LED	Indicates the WPS connection status of the camera
3	White Light LED	Used to illuminate the camera's field of view at night
4	PIR Sensor	Passive Infrared sensor for motion detection
5	Camera Lens	Records video of the surrounding area
6	Microphone	Records audio from the surrounding area

Rear



1	Ethernet Port	RJ45 connector for Ethernet
2	Speaker	Audio output
3 WPS Button		Press this button, then press the WPS button for 5 seconds on your router to set up a wireless connection automatically
4 Reset Button Press and hold this button for 10 seconds to reset the camera		Press and hold this button for 10 seconds to reset the camera
5	Power Connector	Connects to the included DC 5 V power adapter
6	DI/DO Connector	I/O connectors for external devices
7	Adjustment Ring	Tighten or loosen the adjustment ring to adjust the camera's position

Sides



1 Micro SD Card Slot Insert a MicroSD card for Local storage for storing recorded image and video

Software Installation

There are three ways to set up your camera:

Zero Configuration Setup: If you have a mydlink-enabled router, this is the easiest way to set up your camera. Refer to page 12.

Camera Setup Wizard: If you do not have a mydlink-enabled router, use the Camera Installation Wizard to guide you through setup and initial configuration of your camera. Refer to page 16.

Manual Hardware Installation: This section shows you how to manually set up your camera, though in order to use the mydlink features of your camera, you will still need to run the Camera Installation Wizard. Refer to page 18.

Zero Configuration Setup

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

Connect your camera to your mydlink enabled cloud router and Zero Configuration will automatically configure your DCS-2136L and automatically add the camera to your mydlink account. You can now remotely access your camera from the mydlink.com website to manage and monitor your DCS-2136L.

Connect the Ethernet Cable

If using an Ethernet connection: Connect the included Ethernet cable to the Ethernet port located on the back of the DCS-2136L and connect it to your router.



Attach the External Power Supply

Attach the external power supply to the DC Power receptor located on the rear panel of the DCS-2136L and connect it to your wall outlet or power strip.



Optional: WPS Wireless Connection

Alternatively, if your router supports WPS, you can use the WPS button on the camera to easily create a secure wireless connection to your network.

To create a WPS connection:

Step 1

Press and hold the WPS button for approximately 5-6 seconds. The blue WPS status LED above the button will blink.

Step 2

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

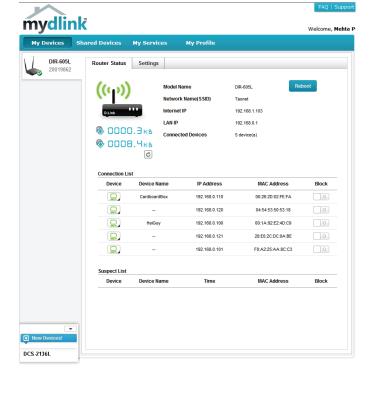
The DCS-2136L will automatically create a wireless connection to your router. While connecting, the status LED will flash. When the connection process is complete, the status LED will turn solid.

Note: If your router does not support WPS, you can still use the wired connection method on the previous page. After Zero Configuration setup is complete, your router's wireless settings will be automatically transferred to the camera.

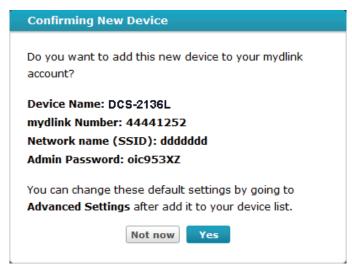


Check Your mydlink Account

From any computer, open a web browser, go to http://www.mydlink. com and log into your account. Once mydlink detects your camera, a **New Device Found!** notice will appear in the bottom-left corner. Click on the device name to continue.



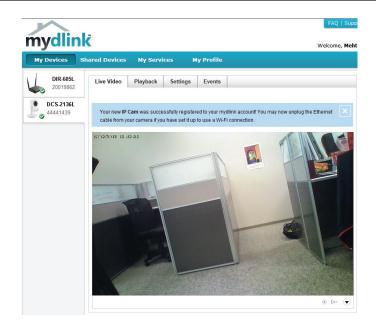
A summary and confirmation notification will appear with the automatically configured details. Make a note of the details and click **OK** to add the camera to your account.



Zero Configuration is now complete and your camera has been added to your mydlink account. You can now view your camera on the mydlink Live View tab.

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

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



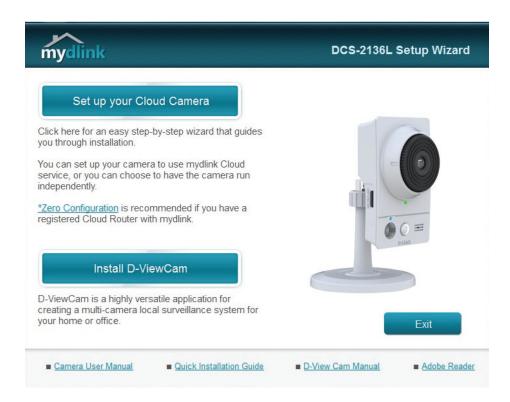
Camera Setup Wizard

If you do not have a mydlink-enabled Cloud Router, you can use the Camera Setup Wizard to guide you through the process of adding your camera to the mydlink service.

Windows Users

Insert the Installation CD-ROM into your computer's optical drive to start the autorun program. If the autorun program does not open, go to My Computer, browse to your CD drive, and double-click on the autorun.exe file. Once the wizard has started 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.



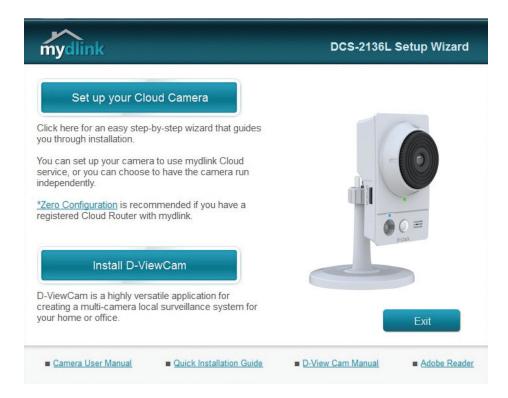


Mac Users

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



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



Manual Hardware Installation

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

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

Attach the External Power Supply

Attach the external power supply to the DC Power receptor located on the rear panel of the DCS-2136L and connect it to your wall outlet or power strip.



Connect the Ethernet Cable

Connect the included Ethernet cable to the network cable connector located on the panel at the rear of the DCS-2136L and attach it to the network.



InstallationWireless Installation Considerations

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

- 1. Minimize the number of walls and ceilings between your adapter and other network devices (such as your DCS-2136L) each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters).
- 2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle, it looks over 42 feet (14 meters) thick. Position your devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
- 3. Building Materials make a difference. A solid metal door or aluminum studs may weaken the wireless signal. Try to position your access points, wireless routers, and other networking devices where the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
- 4. Keep your product at least 3-6 feet or 1-2 meters away from electrical devices or appliances that generate RF noise.
- 5. If you are using 2.4GHz cordless phones or other radio frequency sources (such as microwave ovens), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone in not in use.

WPS - Push Button Setup

If your router supports WPS, you can use the WPS button on the camera to easily create a secure wireless connection to your network.

To create a WPS connection:

Step 1

Press and hold the WPS button for approximately 5-6 seconds. The blue WPS status LED above the button will blink.

Step 2

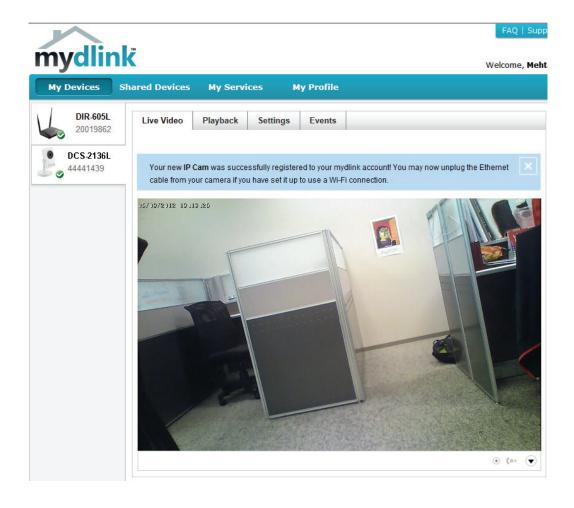
Within 60 seconds press the WPS button on your router. On some routers, you may need to log in to the web interface and click on an on-screen button to activate the WPS feature. If you are not sure where the WPS button is on your router, please refer to your router's User Manual.

The DCS-2136L will automatically create a wireless connection to your router. While connecting, the status LED will flash. When the connection process is complete, the status LED will turn solid.



mydlink

After registering your DCS-2136L camera with a **mydlink** account in the Camera Setup Wizard. You will be able to remotely access your camera from the 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 Configuration Utility

After completing the Camera Installation Wizard, you are ready to use your camera. The camera's built-in Web configuration interface is designed to allow you to easily access and configure your DCS-2136L. At the end of the wizard, enter the IP address of your camera into a web browser, such as Internet Explorer®. To log in, use the User name **admin** and the password you created in the Installation Wizard. If you did not create a password, the default password is blank. After entering your password, click **OK**.

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



Live Video

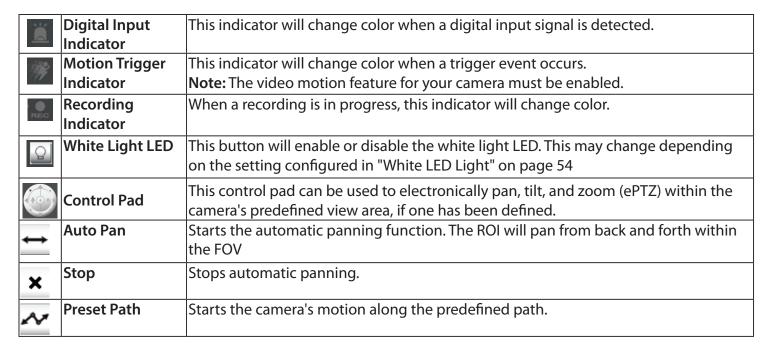
This section shows your camera's live video. You may select any of the available icons listed below to operate the camera. You may also select your language using the drop-down menu on the left side of the screen.

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."

IO Status: This option displays the status of your I/O device if a device has been connected.





ePTZ Speed: You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.

Global View: This window indicates the total field of view (FOV) of the camera. The red box indicates the visible region of interest (ROI).

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

Go To: If any presets have been defined, selecting a preset **(Preset List)** from this list will display it.



- Video Profile 1
- Video Profile 2
- Video Profile 3
- Full screen mode
- Taking a Snapshot

- Record a Video Clip
- Set a Storage Folder
- Listen/Stop Audio In (from microphone)
- Start/Stop Audio Out (to speaker)
- ▲ Start/Stop Digital Output

Setup Setup Wizard

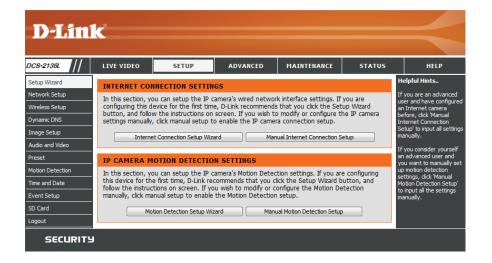
This section allows you to begin setup wizards which will guide you through the process of getting your camera's various functions configured. If you comfortable with adjusting the settings manually, you may skip the wizards and adjust the necessary as needed.

Internet You may choose to configure your network by using Connection the Internet Connection Setup Wizard that includes Setup Wizard: step-by-step instructions. Please refer to page "Internet Connection Setup Wizard" on page 26 for more details.

Manual If you would rather manually setup the camera internet Internet connection, you can refer to page "Network Setup" on Connection page 31 which provides more details on the information Setup: required.

Motion You may choose to configure motion detection by Detection Setup using the Motion Detection Setup Wizard that includes Wizard: step-by-step instructions. Please refer to page "Motion Detection Setup Wizard" on page 29 for more details.

Manual If you would rather manually setup the camera's Motion motion detection features, you can refer to page Detection "Motion Detection" on page 42 which provides more Setup: details on the information required.



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. Note that this wizard will not register your camera with mydlink.com.

Click **Next** to continue.

Select **Automatic IP Address** if you want your DHCP server (usually enabled on your router) to assign the camera its IP settings. If you want to manually assign the IP settings, select **Static IP Address** and enter the following details:

IP Address: Enter an IP address for your camera.

Subnet Mask: Enter the subnet mask of your network.

Default Enter the default gateway address. This is usually the IP

Gateway: address of your router.

Primary DNS: Enter the primary DNS server's IP address. This is usually

the IP address of your router.

Secondary DNS: Enter the secondary DNS server's IP address. This is optional.

If you are required to connect using PPPoE, select **Enabled** and enter the

Username and Password for your PPPoE connection. Only select this option if your camera is directly connected to your broadband modem. If it is on a network with a router or gateway, do not select this option.

Click **Next** to continue.

welcome to d-link setup wizard - internet connection setup This wizard will guide you through a step-by-step process to configure your new D-Link IP camera and connect the IP camera to the internet. To set-up your camera motion detection settings, please click Back button to close this wizard and re-open the motion detection setup wizard. . Step 1: Setup LAN Settings Step 2: Setup DDNS Settings

. Step 4: Setup Time Zone

 Step 3: IP camera Name Settings Back Next Cancel

Step 1: Setup LAN Settings			
Please select whether your IP camera will connect to the Internet with a DHCP connection or Static IP address. If your IP camera is connected to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of DHCP connection. Otherwise, click on Static IP address to manually assign and IP address before clicking on the Next button. Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next button. Please contact your ISP if you do not know your Username and Password.			
•	DHCP		
©	Static IP Client		
	IP address	192.168.1.100	
	Subnet mask	255.255.255.0	

Default router 192.168.1.1 Primary DNS 192.168.1.1 Secondary DNS 0.0.0.0 Enable PPPoE User Name (e.g. 654321@hinet.net) Password

Back Next Cancel

Section 4: Configuration

A Dynamic DNS account allows you to access your camera over the Internet when you have an IP address that changes each time you connect to the Internet. If you have a Dynamic DNS account, click **Enable** and enter the following details:

Enable: Click to enable the DDNS function.

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

Server Address: Select your Dynamic DNS Server from the drop down

menu.

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

User Name: Enter your username or e-mail address used to connect

to the DDNS.

Password: Enter your password used to connect to the DDNS

server.

Timeout: You can setup how often the camera notifies the DDNS

server of its current global IP address by entering a

whole number in hours.

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 www.dlinkddns.com << www.dlinkddns.com ▼			
Host Name			
User Name			
Password			
Verify Password			
Timeout 24 (hours)			
Back Next Cancel			

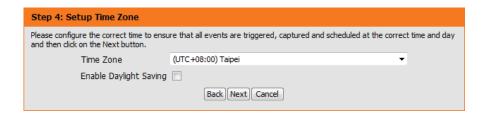
Create a unique name for your camera. Click **Next** to continue.

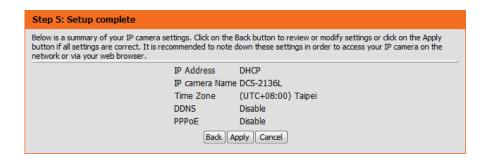


Select the time zone that the camera is geographically located in so that scheduled events occur at the correct time. If your time zone observes daylight saving, check the **Enable Daylight Saving** box and select **Auto Daylight Saving** to have DST set automatically or select **Set date and time manually** to enable the drop-down menu so that you can set the start and end time of daylight saving yourself.

Click **Next** to continue.

A summary of the options you selected is displayed for confirmation. If you are happy with the selected configuration, click **Apply** otherwise click **Back** to make the required changes.

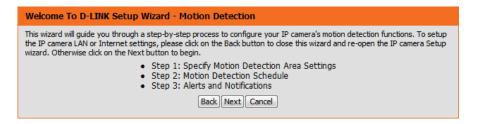




Motion Detection Setup Wizard

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

Click **Next** to continue.

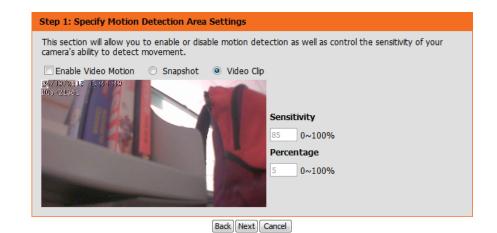


Step 1

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

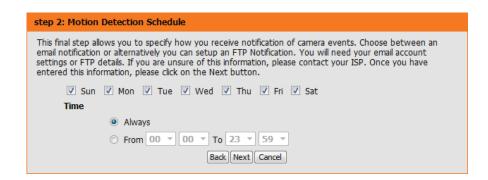
You may specify whether the camera should capture a snapshot or a video clip when motion is detected.

Please see the **Motion Detection** section on "Motion Detection" on page 42for 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.



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: A	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 no	O Do not notify me				
Email					
	Sender email address				
	Recipient email address				
	Server address				
	User name				
	Password				
	Port	25			
⊚ FTP					
	Server address				
	Port	21			
	User name				
	Password				
	Remote folder name				
		Back Next Cancel			

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 dick the Back button if you want to review or modify your settings or dick on the Apply button to save and apply your settings.

Motion Detection : Disable
EVENT : Video Clip

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

Schedule Time : Always
Alerts and Notification : Do not notify me

Back Apply Cancel

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

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.

Static IP You may obtain a static or fixed IP address and other **Address:** network information from your network administrator for your camera.

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 data to.

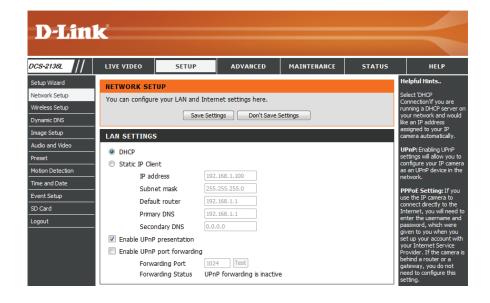
Primary DNS: The primary domain name server translates names to

IP addresses.

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

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

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



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

User Name / Enter the username and password for your PPPoE **Password:** 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.

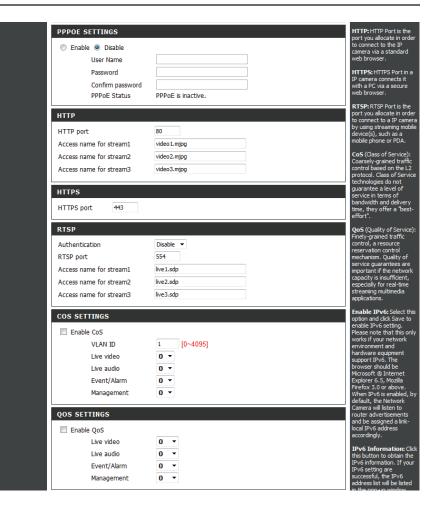
Access Name for The default name is video#.mjpg, where # is the Stream 1~3: number of the stream.

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.

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.

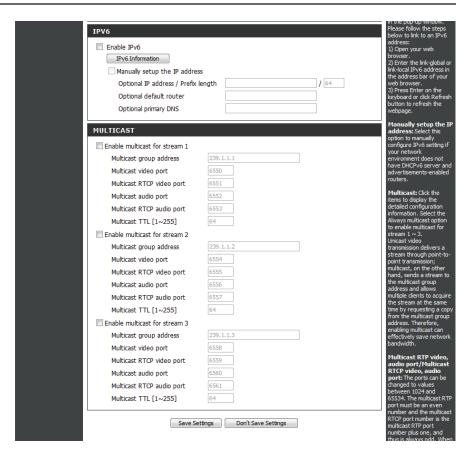
Enable QoS: Enabling QoS allows you to specify a traffic priority policy to ensure a consistent Quality of Service during busy periods. If the DCS-2136L is connected to a router that itself implements QoS, the router's settings will override the QoS settings of the camera.



Enable IPV6: Enable the IPV6 setting to use the IPV6 protocol. Enabling the option allows you to manually set up the address, specify an optional IP address, specify an optional router and an optional primary DNS.

Enable The DCS-2136L allows you to multicast each of the Multicast for available streams via group address and specify the TTL stream value for each stream. Enter the port and TTL settings you wish to use if you do not want to use the defaults.

Please verify your settings and click **Save Settings** to commit them.



Wireless Setup

This section allows you to set up and configure the wireless settings on your camera. After making any changes, click the **Save Settings** button to save your changes.

Site Survey: Click the **Rescan** button to scan for available wireless networks. After scanning, you can use the drop-down box to select an available wireless network. The related information (SSID, Wireless Mode, Channel, Authentication, Encryption) will be automatically filled in for you.

SSID: Enter the SSID of the wireless access point you wish to use.

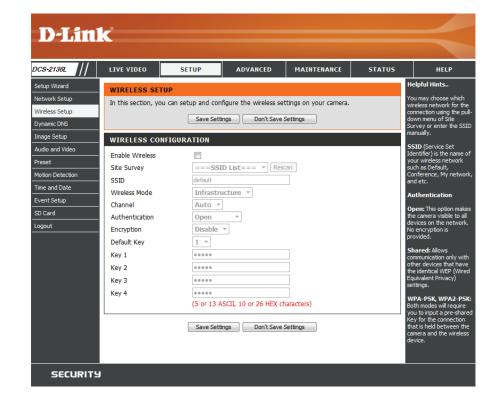
Wireless Mode: Use the drop-down box to select the mode of the wireless network you wish to connect to. Infrastructure is normally used to connect to an access point or router. Ad-Hoc is usually used to connect directly to another computer.

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

Authentication: Select the authentication you use on your wireless network - Open, Shared, WPA-PSK, or WPA2-PSK.

Encryption: If you use WPA-PSK or WPA2-PSK authentication, you will need to specify whether your wireless network uses TKIP or AES encryption. If you use Open or Shared authentication, WEP encryption should be the setting.

Key: If you use WEP, WPA-PSK, or WPA2-PSK authentication, enter the Key (also known as password) used for your wireless network.



Dynamic DNS

DDNS (Dynamic Domain Name Server) will hold a DNS host name and synchronize the public IP address of the modem when it has been modified. A user name and password are required when using the DDNS service. After making any changes, click the **Save Settings** button to save your changes.

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

Server Address: Select your Dynamic DNS provider from the pull down

menu or enter the server address manually.

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

User Name: Enter 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.



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 The Privacy Mask setting allows you to specify up Mask: to 3 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 clicking on the camera image brings up the following menu options:

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

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.

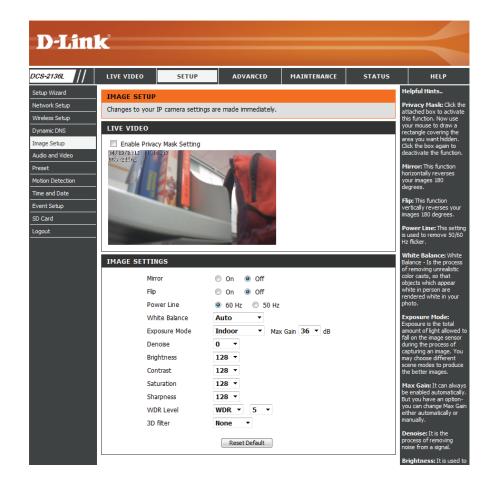
Power Line: Select the frequency used by your power lines to avoid

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.



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 3 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: The WDR function is especially effective in environment

with extreme contrast such as lobby entrances, parking lots, ATMs, and loading areas. A higher WDR setting will

help in reducing areas with high contrast.

3D filter: Setting this option to **Low**, **Medium**, or **High** will help to

reduce image artifacts, and result in images with less blur when viewing the camera during the night or in areas

where there are low levels of light.

Reset Default: Click this button to reset the image to factory default

settings.



Audio and Video

You may configure up to 3 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.

Number of You can use the drop-down box to set up to 2 active **active profiles:** profiles.

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

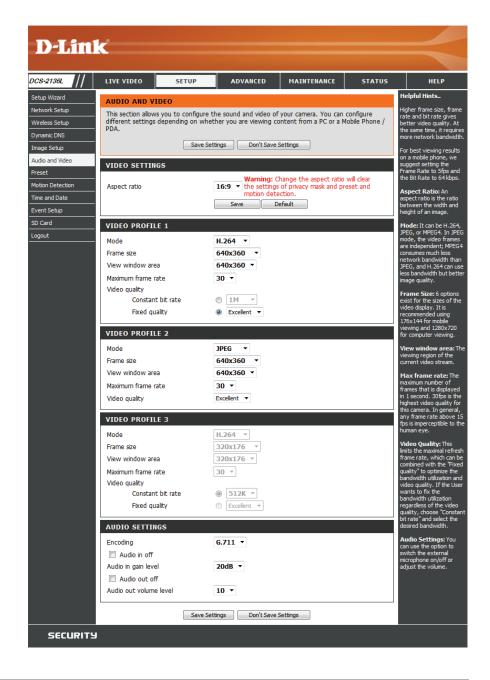
Mode: Set the video codec to be used to JPEG, MPEG-4, or H.264.

Frame size / Frame size determines the total capture resolution, View window and View window area determines the Live Video area: 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 1280 x 720, 800 x 450, 640 x 360, 480 x 270, 320 x 176, 176 x 144

4:3 1024 x 768, 800 x 600, 640 x 480, 480 x 360, 320 x 240, 176 x 144

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

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

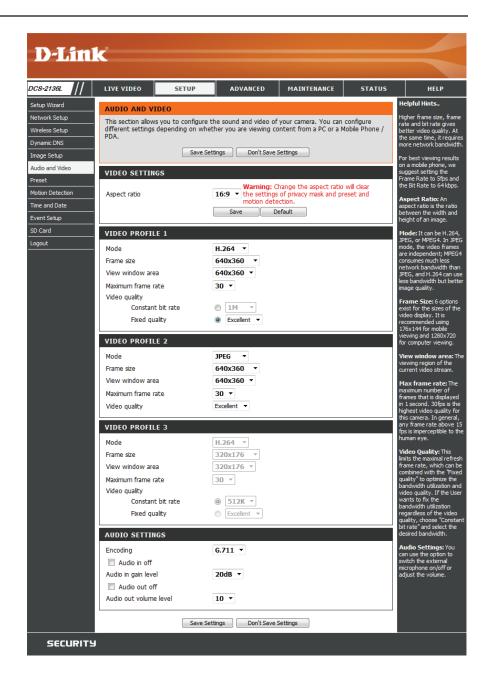
Fixed quality: Select the image quality level for the camera to try to maintain. High quality levels will result in increased bit rates.

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

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

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

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



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.

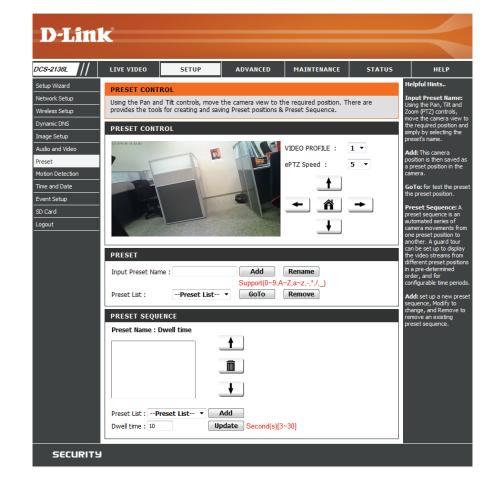
Video Profile: This selects which video profile to use.

ePTZ Speed: You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.

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

Input Preset Enter the name of the preset you want to create,
Name: 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 This section allows you to create a preset sequence, **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.

Clicking the trash can button will remove the currently 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.



Motion Detection

Enabling Video Motion will allow your camera to use the motion detection feature. You may draw a finite motion area that will be used for monitoring. After making any changes, click the **Save Settings** button to save your changes.

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

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

Percentage: Specifies the amount of motion in the window being monitored that is required to initiate an alert. If this is set to 100%, motion is detected within the whole window will trigger a snapshot.

Draw Motion Draw the motion detection area by dragging your **Area:** mouse in the window (indicated by the red square).

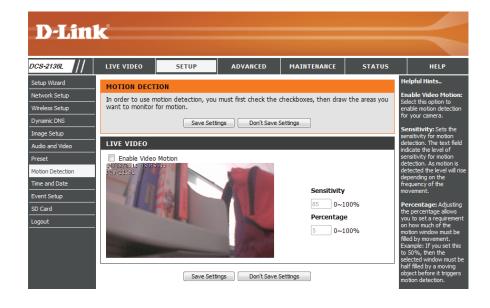
Erase Motion To erase a motion detection area, simply click on the red **Area:** square that you wish to remove.

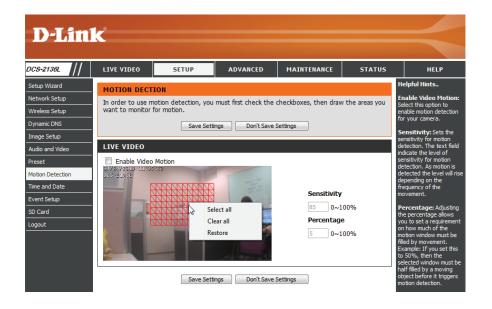
Right clicking on the camera image brings up the following menu options:

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.





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

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

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

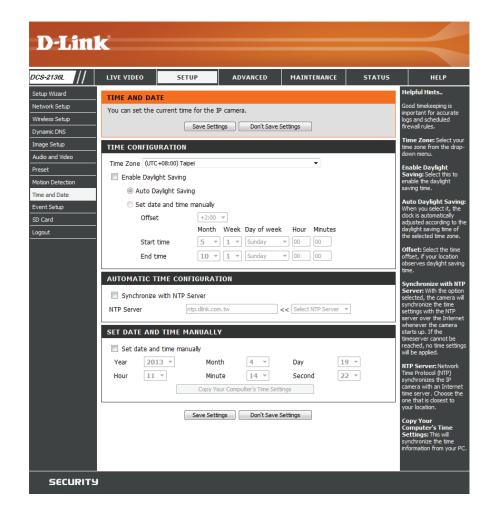
Offset: Sets the amount of time to be added or removed when Daylight Saving is enabled.

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

NTP Server: Network Time Protocol (NTP) synchronizes the DCS-2136L with an Internet time server. Choose the one that is closest to your location.

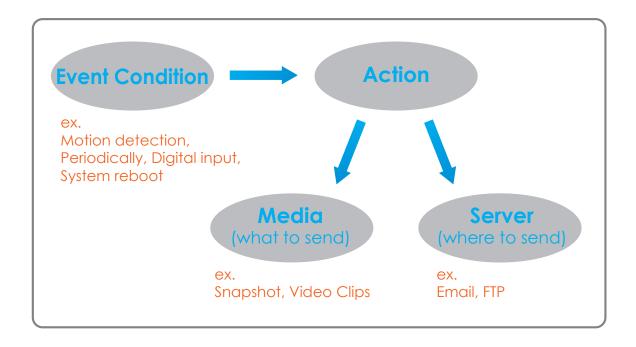
Set the Date and This option allows you to set the time and date **Time Manually:** manually.

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



Event Setup

In a typical application, when motion is detected, the DCS-2136L 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 or external digital input devices. When an event is triggered, a specified action will be performed. You can configure the DCS-2136L 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 DCS-2136L will know what action shall be performed when a trigger is activated.

The Event Setup page includes 4 different sections.

- Server
- Media
- Event
- Recording
- 1. To add a new item "server, media, or event," click **Add**. A screen will appear and allow you to update the fields accordingly.
- 2. To delete the selected item from the pull-down menu of event, server or media, click **Delete**.
- 3. Click on the item name to pop up a window for modifying.



Add Server

You can configure up to 5 servers to save snapshots and/or video to. After making any changes, click the **Save Settings** button to save your changes.

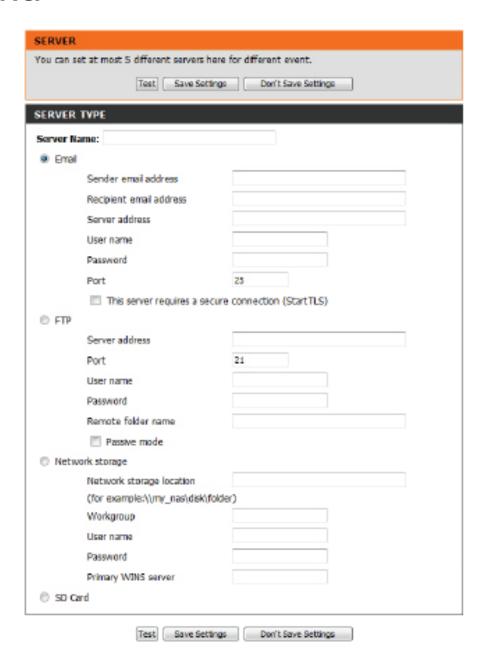
Server Name: Enter the unique name of your server.

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

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

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

SD Card: Use the camera's onboard SD card 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.

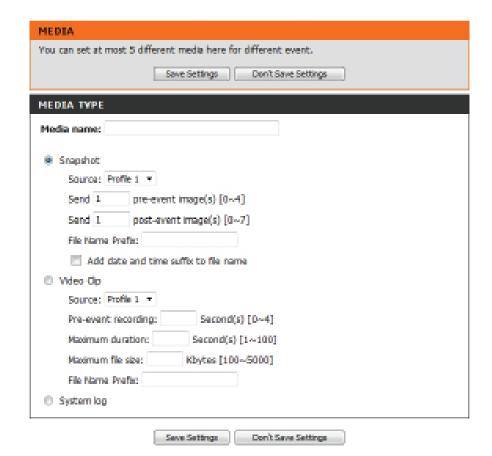
Source: Set the video profile to use as the media source. Refer to **Audio and Video** on "Audio and Video" on page 38 for more information on video profiles.

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

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

File name prefix: The prefix name will be added on the file name.

Add date and Check it to add timing information as file name suffix. time suffix to file name:



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 51 for more information on video profiles.

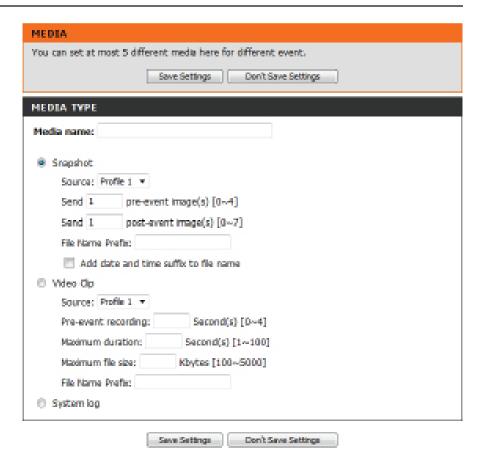
Pre-event This sets how many seconds to record before the main **recording:** event video clip starts. You can record up to 4 seconds of pre-event video.

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

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

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.



Add Event

Create and schedule up to 2 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 Select this box to activate this event. **event:**

Priority: Set the priority for this event. The 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 Motion is detected during live video monitoring. Select

Detection: the windows that need to be monitored.

Periodic: The event is triggered in specified intervals. The trigger

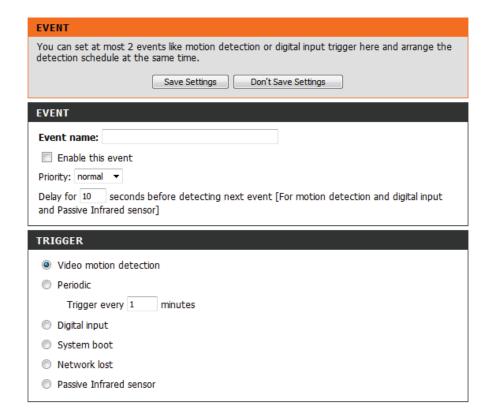
interval unit is in minutes.

Digital input: The external trigger input to the camera.

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

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

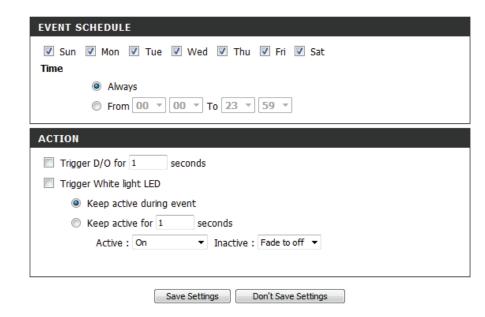
Passive Infrared Triggers an event when the PIR sensor is activated by Sensor: moving infrared objects even in dark environment.



Time: Select **Always** or enter the time interval.

Trigger D/O: Select to trigger the digital output for a specific number of seconds when an event occurs.

Trigger white Select to trigger the white light LED only during an **light LED** event or for a specific duration of time when an event occurs.



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 The unique name of the entry. name:

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

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

Source: The source of the stream.

Recording Scheduling the recording entry. **schedule:**

Recording Configuring the setting for the recording. **settings:**

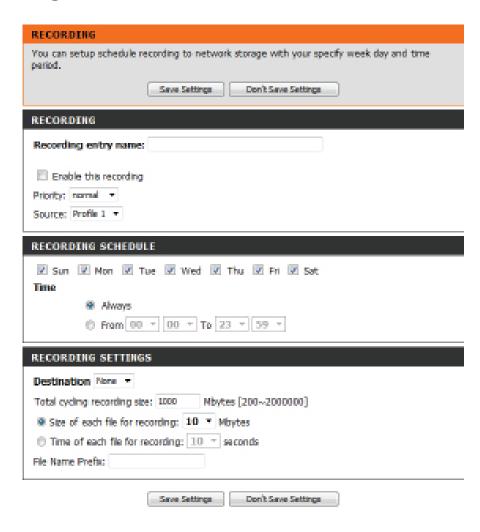
Destination: Select the folder where the recording file will be stored.

Total cycling Input a value between 1MB and 2TB for recording **recording size:** space. New recordings will replace the oldest recording when the total recording size exceeds this value.

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

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

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



SD Card

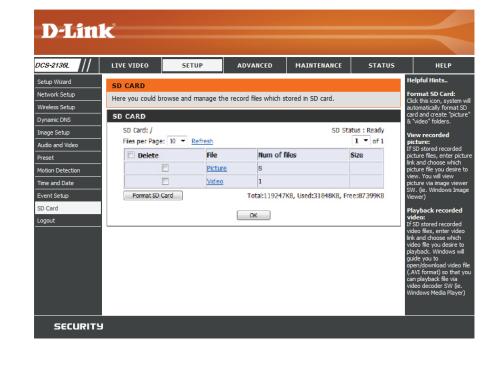
Here you may browse and manage the recorded files which are stored on the SD card.

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

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

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

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



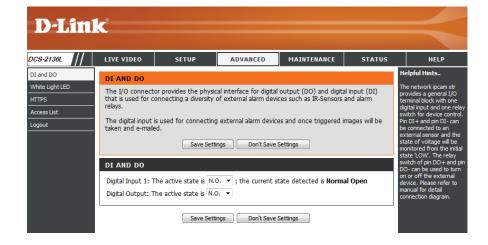
Advanced Digital Input/Output

This screen allows you to control the behavior of digital input and digital output devices. The I/O connector provides the physical interface for digital output (DO) and digital input (DI) that is used for connecting a variety of external alarm devices such as IR-Sensors and alarm relays. The digital input is used for connecting external alarm devices and once triggered images will be taken and e-mailed. After making any changes, click the **Save Settings** button to save your changes.

Select D/I or The camera will send a signal when an event is triggered, D/O Mode: depending upon the type of device connected to the DI circuit.

N.C. stands for **Normally Closed**. This means that the normal state of the circuit is closed. Therefore events are triggered when the device status changes to "Open."

N.O. stands for **Normally Open**. This means that the normal state of the circuit is open. Therefore events are triggered when the device status changes to "Closed."



White LED Light

Here you can configure the white light LED settings. The settings on this page will control how the light button on the live view page will appear. It will also set up how the white light LED functions when used with event triggers.

Light: The camera can enable or disable the white LED light according to your preferences. This setting provides additional controls depending on your selection. The options are **None**, **Pulse**, **Active**, and **Slider**.

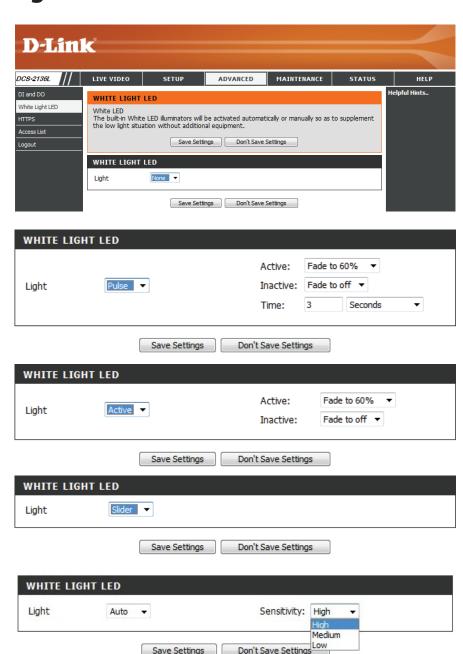
None: If the white light LED option is set to none, the camera PIR sensor or any other external triggers will not activate the white light LED.

Pulse: Select Pulse to activate the built-in light for a defined period of time, for example 20 seconds. You can set how the white light functions by selecting an action for when the white light LED becomes active and goes inactive.

Active: Select Active to have the white light LED activated on a predefined event, or by enabling via button on the live view page. You can set how the white light functions by selecting an action for when the white light LED becomes active and goes inactive.

Slider: Selecting this option will enable a slider on the live view page. The slider will allow you to control the brightness of the built-in light, sliding it left to dim and sliding it right to brighten.

Auto: Selecting this option will enable the white LED to automatically come on when it senses a the surrounding light levels have reached a certain threshold.



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 Enable the HTTPS service.

HTTPS Secure Connection:

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

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 the 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-2136L.

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

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

Click **Add** to save the changes made.

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

End IP address: The ending IP Address of the devices (such as a computer) that have permission to access the video of

the camera.

Delete allow list: Remove the customized setting from the Allow List.

Deny list: The list of IP addresses that have no access rights to

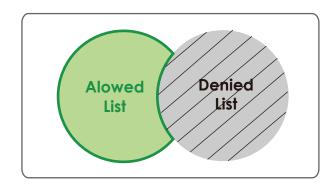
the camera.

Delete deny list: Remove the customized setting from the Delete List.

For example:

When the range of the Allowed List is set from 1.1.1.0 to 192.255.255.255 and the range of the Denied List is set from 1.1.1.0 to 170.255.255.255. Only users with IPs located between 171.0.0.0 and 192.255.255.255 can access the DCS-2136L.





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

Add User Account: Add new user account.

User Name: The user name for the new account.

Password: The password for the new account.

User List: All the existing user accounts will be displayed here.

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.

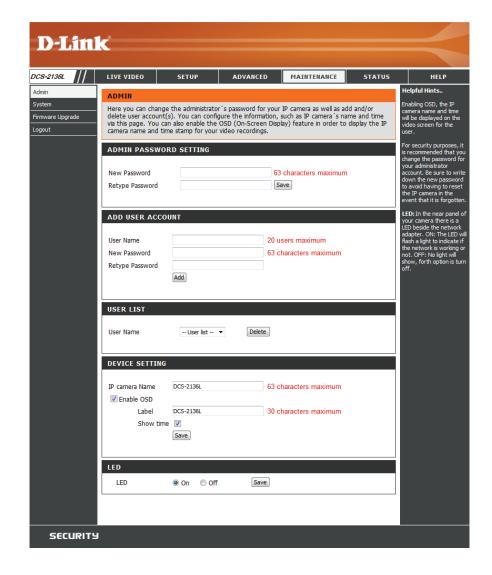
Label: Enter a label for the camera, which will be shown on

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.



System

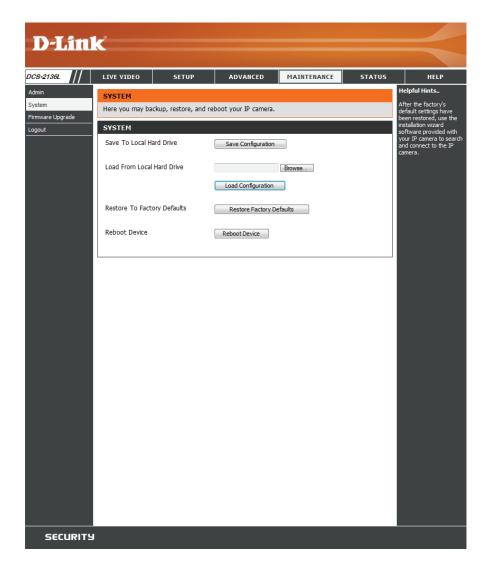
In this section, you may backup, restore and reset the camera configuration, or reboot the camera.

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

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

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

Reboot Device: This will restart your camera.



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-2136L, 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 Displays the detected firmware version.

Firmware Version:

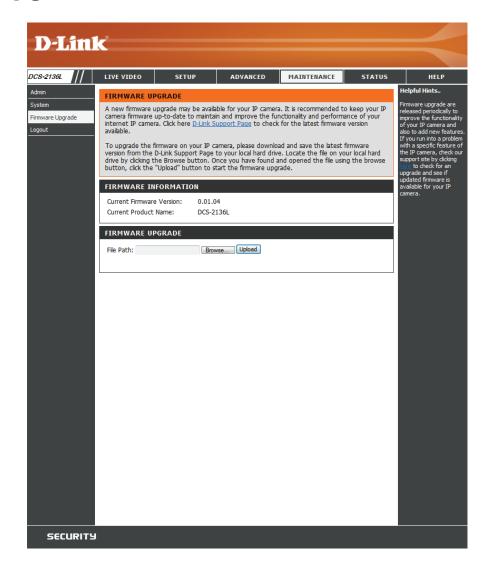
Current Product Displays the camera model name.

Name:

File Path: Locate the file (upgraded firmware) on your hard drive

by clicking **Browse**.

Upload: Uploads the new firmware to your camera.



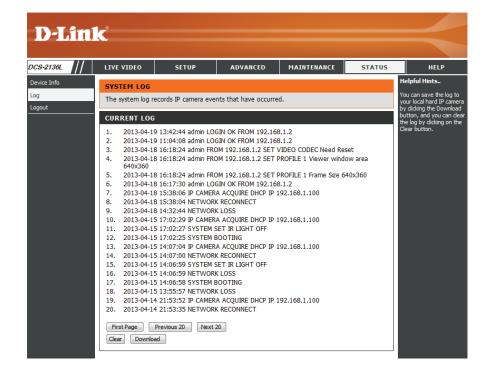
Status Device Info

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



Logs

This page displays the log information of your camera. You may download the information by clicking **Download**. You may also click **Clear** to delete the saved log information.

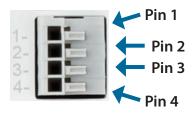


Help

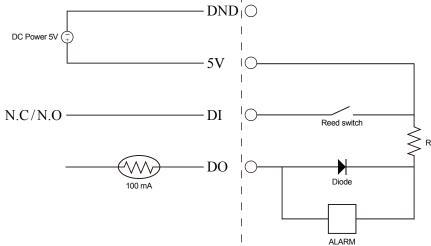
This page provides helpful information regarding camera operation.

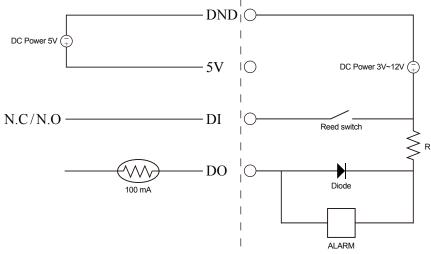


DI/DO Specifications



PIN	FUNCTION	NOTE	
1	Digital Out (DO)	Uses an open-drain NFET transistor with the source connected to GND in camera. If used with an external relay, a diode must be connected in parallel with the load for protection against voltage transients. Max loading is 100 mA.	
2	Digital In (DI)	A switch from DI to DC 5 V, activated by setting NO. or NC.	
3	DC5V OUTPUT	DC 5 V Output / Max. 100 mA	
4	GND	GND	



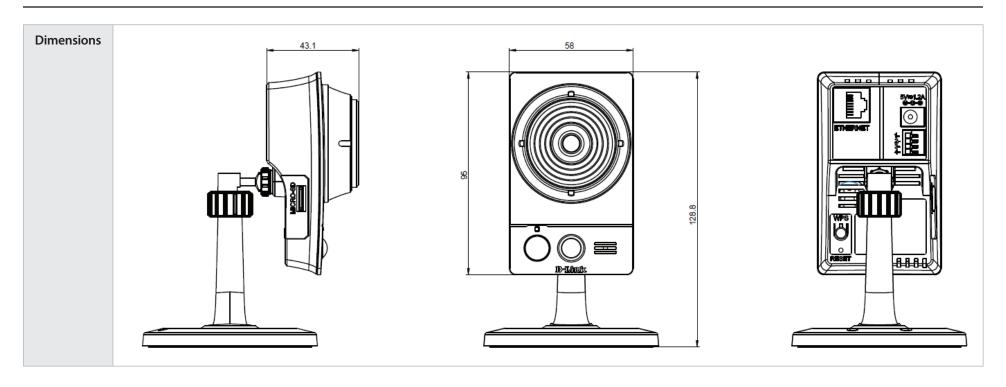


Technical Specifications

Camera	Camera Hardware Profile	 1/3" Megapixel progressive CMOS sensor 5 meter white light illumination distance Minimum illumination: 0 lux with white light LED on Built-in PIR sensor (5 meter) Built-in microphone and speaker 10x digital zoom 	 Focal length: 3.6 mm Aperture: F1.4 Angle of view: (H) 64° (V) 46.5° (D) 92.4°
	Image Features	 Configurable image size, quality, frame rate, and bit rate Time stamp and text overlays Configurable motion detection windows 	 Configurable privacy mask zones Configurable shutter speed, brightness, saturation, contrast, sharpness, and WDR
	Video Compression	 Simultaneous H.264/MPEG-4/MJPEG format compression H.264/MPEG-4 multicast streaming 	■ JPEG for still images
	Video Resolution	16:9 - 1280 x 720, 800 x 450, 640 x 360, 480 x 270, 320 x 176, 176 x 144 up to 30 fps recording	4:3 - 1024 x 768, 800 x 600, 640 x 480, 480 x 360, 320 x 240, 176 x 144 up to 30 fps recording
	Audio Support	■ G.726	■ G.711
	External Device Interface	 10/100 BASE-TX Fast Ethernet port IEEE 802.11ac 2.4GHz, 5GHz Dual-Band Wireless 	DI/DO portMicroSD/SDHC card slot
Network	Network Protocols	 IPv6 IPv4 TCP/IP UDP ICMP DHCP client NTP client (D-Link) DNS client DDNS client (D-Link) SMTP client FTP client HTTP / HTTPS 	 Samba client PPPoE UPnP port forwarding RTP / RTSP/ RTCP IP filtering QoS CoS Multicast IGMP SNMP ONVIF compliant
	Security	Administrator and user group protectionPassword authentication	HTTP and RTSP digest encryption

Appendix B: Technical Specifications

System Management	System Requirements for Web Interface	■ Operating System: Microsoft Windows 7/Vista/XP/2000	■ Browser: Internet Explorer, Firefox, Netscape, Opera
	Event Management	Motion detection	Supports multiple SMTP and FTP servers
		 Event notification and uploading of snapshots/video clips via e-mail or FTP 	Multiple event notificationsMultiple recording methods for easy backup
	Remote Management	 Take snapshots/video clips and save to local hard drive or NAS via web browser 	Configuration interface accessible via web browser
	Mobile Support	Windows 7/Vista/XP system, Pocket PC, or mobile phone	mydlink mobile app for iOS and Android mobile devices
	D-ViewCam™ System Requirements	Operating System: Microsoft Windows 7/Vista/XPWeb Browser: Internet Explorer 7 or higher	■ Protocol: Standard TCP/IP
	D-ViewCam™ Software Functions	 Remote management/control of up to 32 cameras Viewing of up to 32 cameras on one screen 	 Supports all management functions provided in web interface Scheduled motion triggered, or manual recording options
General	Weight	Device: 84.0g (without stand)Stand: 45.0g	
	External Power Adaptor	■ Input: 100 to 240 V AC, 50/60 Hz	Output: 5 V DC, 1.2 A, 50/60 Hz
	Power Consumption	■ 4 watts	
	Temperature	■ Operating: 0 to 40 °C (32 to 104 °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	■ FCC ■ C-Tick



Safety Statements

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 Notice:

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

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

IMPORTANT NOTE:

Radiation Exposure Statement:

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

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