D-Link[®]



User Manual

Full HD PoE Day/Night Network Camera

DCS-2210L

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. Please refer to the www.mydlink.com website for the most current information.

Manual Revisions

Revision	Date	Description
1.0	October 21, 2014	Version A1 with firmware version 1.00

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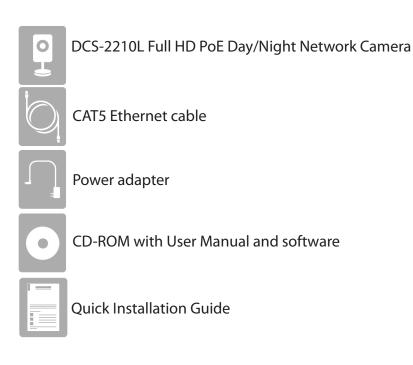
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Product Overview Package Contents



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

Hardware Requirements	 A microSD memory card (optional) is required for recording to onboard storage. SDHC Class 6 or above is recommended. 	
Network Requirements	 An Ethernet-based cable or DSL modem IEEE 802.11n/g wireless clients 10/100 Ethernet Broadband Internet connection 	
Web-based Configuration Utility Requirements	 Computer with the following: Windows[°] XP/Vista/7/8, Linux-based, or Mac with OS X 10.6 or higher An installed Ethernet adapter Browser Requirements: Internet Explorer 7.0 or higher Firefox 12 or higher Safari 6.0 or higher (with Java installed and enabled) Chrome 20 or higher Windows[°] Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version. 	

Introduction

Congratulations on your purchase of the DCS-2210L Full HD PoE Day/Night Network Camera. The DCS-2210L is a versatile surveillance solution for your small office or home. The full HD 1920 x 1080 resolution 2 megapixel progressive scan CMOS sensor lets you capture details like never before – especially important for face recognition. A built-in IR-cut filter and IR LED makes sure you don't miss an event no matter how bright or dark your surroundings are. To make things convenient, support for Power over Ethernet (PoE) means you won't have to worry about available power outlets when setting up your camera on location.

Unlike a standard webcam, the DCS-2210L is a complete system with a built-in CPU and web server that transmits high quality video images for security and surveillance. The DCS-2210L can be accessed remotely, and controlled from any PC over your local network or through the Internet via a web browser. It also comes with the D-Link D-ViewCam[™] software bundle that allows you to manage multiple network cameras using remote monitoring, scheduling, recording, motion detection, and notifications for a complete and cost-effective home security solution.

Features

Full HD Resolution

The DCS-2210L Full HD PoE Day/Night Network Camera is equipped with a 2 megapixel progressive scan CMOS sensor that provides full HD 1920x1080 resolution, the video stream captures a larger scene and provides more details than an analog CCTV camera – so you can identify criminals more easily in critical surveillance applications.

Power over Ethernet for Convenience

The DCS-2210L supports 802.3af Power over Ethernet (PoE), which lets you power your camera with any Ethernet cable. This feature lets you set up your camera easily without worrying about available power outlets at your location.

IR LED for Day and Night Functionality

The built-in IR-cut filter and IR LED enable night time viewing or recording in dark environments at ranges up to 16 feet (5 meters).

DI/DO for Connecting External Devices

Rounding out the flexibility of the DCS-2210L, you can connect an alarm or trigger to its DI/DO port for integration into a surveillance solution.

Remote Monitoring Utility

The D-ViewCam[™] application adds enhanced features and functionality for the DCS-2210L and allows administrators to configure and access the DCS-2210L 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.

Built-in Mic and Speaker

Covering all the visual components, the DCS-2210L also has a built-in microphone and speaker, so you can transmit two-way audio easily.

mydlink Support

Embrace the power of the cloud by adding your DCS-2210L to the list of devices manageable via the free mydlink web portal.

Web Configuration

Using a standard web browser, administrators can configure and manage the DCS-2210L directly from its own web page via Intranet or Internet. This means you can access your DCS-2210L anytime, anywhere in the world.

Broad Range of Applications

With today's high-speed Internet services, the DCS-2210L can provide the ideal solution for delivering live video images over the Intranet and Internet for remote monitoring. The DCS-2210L allows remote access using a web browser for live image viewing, and allows the administrator to manage and control the DCS-2210L anytime, anywhere in the world.

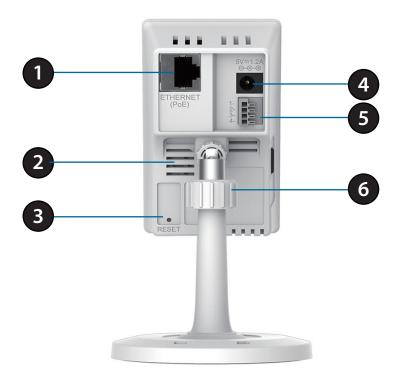
Hardware Overview

Front View



1	Status LED	Indicates the camera's current status		
2	Infrared LED	Used to illuminate the camera's field of view at night		
3	PIR Sensor	Passive Infrared sensor for motion detection		
4	Camera Lens	Records video of the surrounding area		
5	Light Sensor The light sensor helps switch the camera between day and night modes. Night mode activates the IR LED and toggles the IR-Cut-Removable filter.			
6	Microphone	Records audio from the surrounding area		

Rear View



1	Ethernet Port	RJ45 connector for Ethernet		
2	Speaker	Audio output		
3	Reset Button	Press and hold this button for 10 seconds to reset the camera		
4	Power Connector	Connects to the DC 5 V power adapter		
5	DI/DO Connector	I/O connectors for external devices		
6	Adjustment Ring	Tighten or loosen the adjustment ring to adjust the camera's position		

Side View



1	microSD Card Slot	Insert a microSD card for Local storage for storing recorded image and video
---	-------------------	--

Zero Configuration Setup

If you have a D-Link Cloud Router, you can take advantage of Zero Configuration Setup. 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-2210L 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-2210L.

Connect the Ethernet Cable

If using a Power over Ethernet (PoE) connection: Connect the included Ethernet cable to the Ethernet port located on the back of the DCS-2210L and connect it to your router.

Attach the External Power Supply (optional)

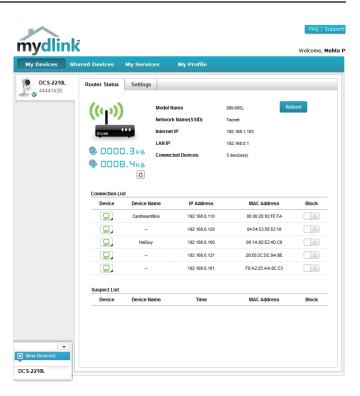
Attach the external power supply to the DC Power receptor located on the rear panel of the DCS-2210L and connect it to your wall outlet or power strip.





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.

Confirming New Device

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

裝置名稱: DCS-2210L mydlink Number: 30034971 Network name (SSID): dlink-07725 Admin Password: 7D5XLBUX

You can change these default settings by going to 進階 設定 after add it to your device list.



Section 2: Installation

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.

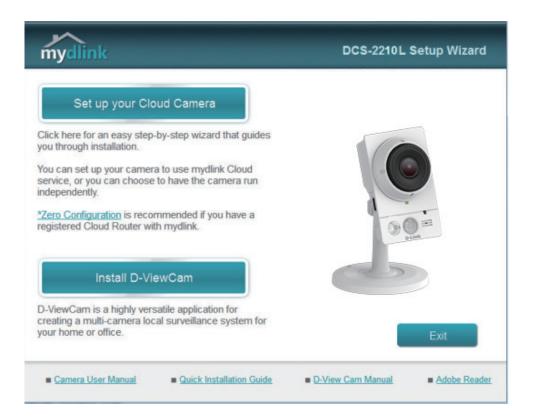
Your camera is now set up, and you can skip to **mydlink on page 19** to learn more about the mydlink features of this camera, or to **Configuration on page 20** for advanced configuration of your camera.



Camera Setup Wizard Windows Users

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

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



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

Mac Users

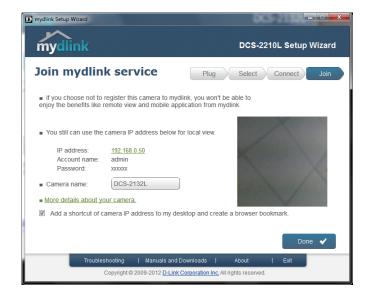
Insert the Installation CD-ROM into your computer's CD drive. On the desktop, open your CD drive and double-click on the **SetupWizard** file.



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.

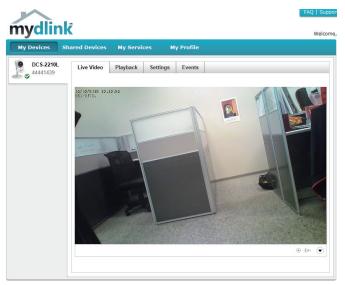
mydlink	DCS-2210L Setup Wizard
Welcome You will be able to set up your Cloud Camera to use mydlink Cloud service, or you can choose to have the camera run independently.	
Select your language: English Start	
Troubleshooting Downloads Copyright © 2012 D-Link Corporation	About Exit

Confirm your camera login details and IP address details and click **Done**.



Your DCS-2210L camera is now set up. Log on to your mydlink account and explore the exciting benefits available to you.

Your camera is now set up, and you can skip to **mydlink on page 19** to learn more about the mydlink features of this camera, or go to **Configuration on page 20** for advanced configuration of your camera.



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.

Connect the Ethernet Cable

If using a Power over Ethernet (PoE) connection: Connect the included Ethernet cable to the Ethernet port located on the back of the DCS-2210L and connect it to your router.

Attach the External Power Supply (optional)

Attach the external power supply to the DC Power receptor located on the rear panel of the DCS-2210L and connect it to your wall outlet or power strip.





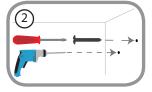
Mount the Camera

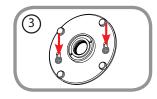
Please refer to the steps below to assist you with mounting the camera.

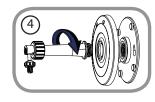
We suggest that you configure the camera before mounting.

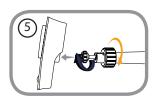
- 1. Place the mounting base where you want to position the camera and use a pencil to mark the holes.
- 2. Depending on the material of the wall or ceiling, use proper tools to drill two holes or screws where you marked. If the wall is made out of concrete, drill the holes first, insert the plastic anchors and then the screws.
 - The space between the camera and the screwheads should be 3mm.
- 3. Place the mounting base over the screw that is mounted on the wall. Make sure to fit the screw-heads over the big holes and slide it downward to lock firmly. Lightly pull the base forward to make sure that it is locked.
- 4. Place the base cover on the base and screw the camera stem clockwise into the mounting base.
- 5. Adjust the angle of the camera as desired, then tighten the collar on the camera stem to lock it in place.





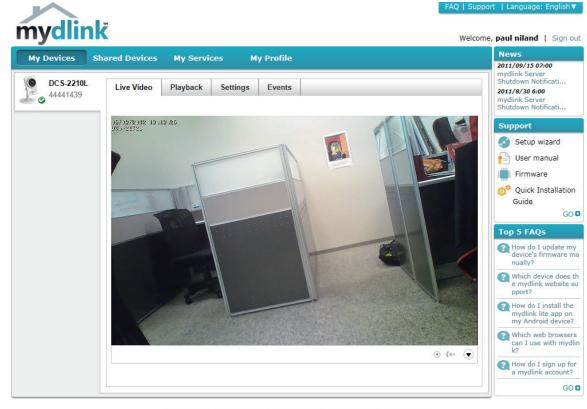






mydlink

After registering your DCS-2210L camera with a mydlink account in the Camera Installation 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:



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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-2210L. 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 username **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**.

Windows Security	X			
The server 192.	The server 192.168.0.50 at DCS-2210L requires a username and password.			
	server is requesting that your username and password be cure manner (basic authentication without a secure			
	User name Password Remember my credentials			
	OK Cancel			

Live Video

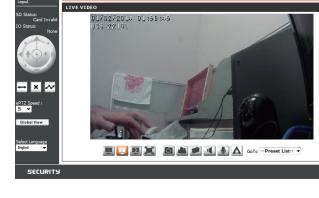
This section shows your camera's live video. You may select any of the available icons listed below to operate the camera. You may also select your language using the drop-down menu on the left side of the screen.

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.

	Digital Input Indicator	This indicator will change color when a digital input signal is detected.			
199	Motion Trigger Indicator	This indicator will change color when a trigger event occurs.			
		Note: The video motion feature for your camera must be enabled.			
REC	Recording Indicator	When a recording is in progress, this indicator will change color.			
	Control Pad This control pad can be used to electronically pan, ti zoom (ePTZ) within the camera's predefined view are has been defined.				
↔	Auto Pan	Starts the automatic panning function. The ROI will pan from back and forth within the FOV.			
×	Stop	Stops automatic panning.			
\sim	Preset Path	Starts the camera's motion along the predefined path.			



D-Link

This section shows your camera's live video. Current resolution is 640 x 360.

DC5-2210L

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.

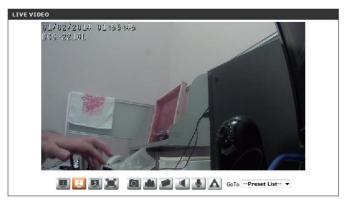


Record a Video Clip

- Video Profile 2
- Video Profile 3 3
- Full screen mode

0 Taking a Snapshot

- Set a Storage Folder
- Listen/Stop Audio In (from microphone) 1
- Start/Stop Audio Out (to speaker)
- Start/Stop Digital Output



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

Setup Setup Wizard

To configure your DCS-2210L, click **Internet Connection Setup Wizard**. Alternatively, you may click **Manual Internet Connection Setup** to manually configure your DCS-2210L and skip to **Network Setup** on page 29.

To quickly configure your DCS-2210L'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 39.

INTERNET CONNECTION SETTINGS

In this section, you can setup the IP camera's wired network interface settings. If you are configuring this device for the first time, D-Link recommends that you click the Setup Wzard button, and follow the instructions on screen. If you wish to modify or configure the IP camera settings manually, click manual setup to enable the IP camera connection setup.

|--|

IP CAMERA MOTION DETECTION SETTINGS

In this section, you can setup the IP camera's Motion Detection settings. If you are configuring this device for the first time, D-Link recommends that you click the Setup Wizard button, and follow the instructions on screen. If you wish to modify or configure the Motion Detection manually, click manual setup to enable the Motion Detection setup.

Motion Detection Setup Wizard Manual Motion Detection Setup

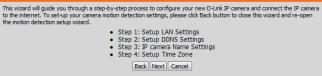
Internet Connection Setup Wizard

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.

Note: Select DHCP if you are unsure of which settings to choose.

Click Next to continue.

welcome to d-link setup wizard - internet connection setup



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, dick 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 contract your ISP list on on throw your Username and Password.

۲	DHCP		
	Static IP Client		
	IP address	192.168.0.53	
	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 PPPoE		
	User Name		
		(e.g. 654321@hinet.n	et)
	Password		
	Back	lext Cancel	

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, otherwise click **Next** to continue.

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 manualy asign and IP address before clicking on the Next button.Please enter your ISP Usename 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 Usename and Password.

	DHCP		
۲	Static IP Client		
	IP address	192.168.0.53	
	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 PPPoE		
	User Name		
		(e.g. 654321@hinet.r	et)
	Password		
	Back	lext Cancel	

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

itep 3: IP camera Name Settings			
O-Link recommends that you rename your IP camera for P camera via this name. Please assign a name of your d	easy accessibility. You can then identify and connect to your hoice before dicking on the Next button.		
IP camera Name	DC5-2210L		
[Back] (Next) Cancel			

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

Section 4: Configuration

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

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 sattings. 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 sattings in order to access your IP camera on the network or via your web browser.			
IP Address	DHCP		
IP camera Name	IP camera Name DCS-2210L		
Time Zone	(UTC+08:00) Taipei		
DDNS	Enable		
PPPoE	Disable		
(Back) (Apply) (Cancel)			

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	(GMT+08:00) Taipei	•		
Enable Daylight Saving 🔲				
	Back Next Cancel			

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 39 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.

Welcome To D-LINK Setup Wizard - Motion Detection

This wizard will guide you through a step-by-step process to configure your IP camera's motion detection functions. To setup the IP camera LAN or Internet settings, please click on the Back button to close this wizard and re-open the IP camera Setup wizard. Otherwise click on the Next button to begin. • Step 1: Specify Motion Detection Area Settings

Step 2: Motion Detection Schedule

Step 3: Alerts and Notifications

Back Next Cancel

Step 1: Specify Motion Detection Area Settings



Back Next Cancel

step 2: Motion Detection Schedule

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.

Sun	Mon 🗹 Tue	Wed Wed	🗹 Thu	🗹 Fri	<u>v</u>
ne					
	Always				
	From 00 -	T ~ 00	o 23 🔻	59 -	
		Bi	ack Next	Cancel	

Section 4: 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 4 You have completed the Motion Detection Wizard.

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

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



admin

25

This server requires a secure connection (StartTLS)

.....

User name

Password

Server address Port User name Password Remote folder name

Port

⊙ FTP

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		

Back Apply Cancel

Back Next Cancel



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

NETWORK SETUP			
You can configure your LAN and Internet settings here.			
Sar	ve Settings Don't Save Settings		
LAN SETTINGS			
OHCP			
Static IP Client			
IP address	192.168.0.53		
Subnet mask	255.255.255.0		
Default router	192.168.0.1		
Primary DNS	192.168.0.1		
Secondary DNS	0.0.0		
Enable UPnP presentation			
Enable UPnP port forwardin	g		
Forwarding Port	1024 Test		
Forwarding Status	UPnP forwarding is inactive		
PPPOE SETTINGS			
Enable Oisable			
User Name			
Password			
Confirm password			
PPPoE Status	PPPoE is inactive.		
НТТР			
HTTP port	80		
Access name for stream1	video 1.mjpg		
Access name for stream2	video2.mjpg		
Access name for stream3	video3.mjpg		
HTTPS			
HTTPS port 443			

Section 4: Configuration

- **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.
 - **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.v/video1.sdp where the x.x.x.x represents the IP address of your camera.

LAN SETTINGS				
OHCP				
Static IP Client				
IP address	192.168.0.53			
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 O Disable				
User Name				
Password				
Confirm password PPPoE Status	PPPoE is inactive.			
НТТР				
HTTP port	80			
Access name for stream1	video 1. mjpg			
Access name for stream2	video2.mjpg			
Access name for stream3	video3.mjpg			
HTTPS				
HTTPS port 443				
RTSP				
Authentication	Disable 🔻			
RTSP port	554			
Access name for stream1	live 1.sdp			
Access name for stream2	live2.sdp			
Access name for stream3	live3.sdp			

- **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-2210L 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 Multicast for stream: The DCS-2210L 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 Bonjour to broadcast to network devices (such as iPhones) using this protocol. You can enter a custom Bonjour Name for the router in the text box for identification.

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 •
IPV6	
 Enable IPv6 IPv6 Information Manually setup the IP ad Optional IP address / Pre Optional default router Optional primary DNS 	
MULTICAST	
Enable multicast for stream 1	
Multicast group address	239.1.1.1
Multicast video port	6550
Multicast RTCP video port	6551
Multicast audio port	6552
Multicast RTCP audio port	6553
Multicast TTL [1~255]	64
BONJOUR SETTINGS	
Enable Bonjour	
Bonjour Name	DCS-2210L_CACA0B 32 characters maximum
	(Characters you may use in a Bonjour Name: "upper or lower case letters", "numbers" and "hyphens".)

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.

DYNA	MIC	DNS

The Dynamic DNS feature allows you to use a domain name that you have purchased (www.yourdomain.com) to access your IP camera with a dynamically assigned IP address. Most broadband Internet service providers assign dynamic (changing) IP addresses. By using a DDNS service, you can enter your domain name to connect to your IP camera no matter what your IP address is.					
	Save Settings Don't Save				
DYNAMIC DNS SETTIN	DYNAMIC DNS SETTING				
Enable DDNS					
Server Address	www.dlinkddns.com	<< www.dlinkddns.com			
Host Name		Select Dynamic DNS Server www.dlinkddns.com			
User Name		www.DynDNS.org			
Password					
Verify Password					
Timeout	24	(hours)			
Status	Active				

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: The Privacy Mask setting allows you to specify up 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:

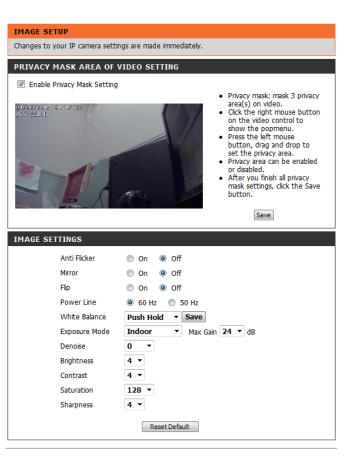
Disable All: Disables all mask areas **Enable All:** Enables all mask areas **Reset All:** Clears all mask areas.

Click **Save** for the mask to take effect.

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.



- **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.
 - **Reset Default:** Click this button to reset the image to factory default settings.

IMAGE SETTINGS	
Anti Flicker	◎ On
Mirror	◎ On ⑧ Off
Flip	◎ On <a>● Off
Power Line	60 Hz
White Balance	Auto 👻
Exposure Mode	Auto • Max Gain 24 • dB
Denoise	0 -
Brightness	4 -
Contrast	4 -
Saturation	128 -
Sharpness	4 -
	Reset Default

Audio and Video

You may configure up to 2 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 as widescree	pect ratio of the video to 4:3 standard or 16:9 n.	AUDIO AND VIDEO This section allows you to confi different settings depending or PDA.	
Mode		deo codec to be used to MJPEG or H.264. JPEG ected for image mode.	VIDEO SETTINGS	ave Settings Dor
Frame size / View window area: Frame size determines the total capture resolution, and View window area determines the Live Video viewing		Aspect ratio	16:9 V the s motion	
window size. If the Frame size is larger than the Live Video size, you can use the ePTZ controls to look around.	Mode Frame size View window area	H.264 1280x720 1280x720		
	16:9	1920x1080, 1280x720, 800x450, 640x360, 480x270, 320x176	Maximum frame rate Video quality Constant bit rate Fixed quality	25 ▼ ◎ 1M ▼ ◎ Excellent
	4:3	1920x1080, 1280x720, 800x450, 640x360, 480x270, 320x176	VIDEO PROFILE 2 Mode Frame size	JPEG ▼ 800x450 ▼
	Note: If yo	ur View window area is the same as your Frame	View window area Maximum frame rate	640x360 ▼ 25 ▼

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.

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 Se	ttings Don't Save Settings			
VIDEO SETTINGS				
Aspect ratio	Warning: Change the aspect ratio will clear 16:9 the settings of privacy mask and preset and motion detection. Save Default			
VIDEO PROFILE 1				
Mode	H.264 🔻			
Frame size	1280x720 -			
View window area	1280x720 •			
Maximum frame rate	25 🔹			
Video quality				
Constant bit rate	◎ 1M ▼			
Fixed quality	Excellent			
VIDEO PROFILE 2				
Mode	JPEG 🔻			
Frame size	800x450 •			
View window area	640x360 •			
Maximum frame rate	25 -			
Video quality	Excellent 🔻			
VIDEO PROFILE 3				
Mode	MPEG4 V			
Frame size	640x360 -			
View window area	640x360 -			
Maximum frame rate	25 🔻			
Video quality				
Constant bit rate				
Fixed quality	Excellent			
AUDIO SETTINGS				
Audio in off				
Audio in gain level	20dB 🔻			
Audio out off				
Audio out volume level	10 -			

- 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	1280x720 -
View window area	1280x720 -
Maximum frame rate	25 -
Video quality	
Constant bit rate	◎ 1M ▼
Fixed quality	
VIDEO PROFILE 2	
Mode	JPEG 🔻
Frame size	800x450 -
View window area	640x360 -
Maximum frame rate	25 -
Video quality	Excellent 💌
VIDEO PROFILE 3	
Mode	MPEG4 ·
Frame size	640x360 ×
View window area	640x360 ×
Maximum frame rate	25 💌
Video quality	
Constant bit rate	◎ 1M ▼
Fixed quality	Excellent
AUDIO SETTINGS	
Audio in off	
Audio in gain level	20dB 🔻
Audio out off	
Audio out volume level	10 -

Save Settings Don't Save Settings

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.

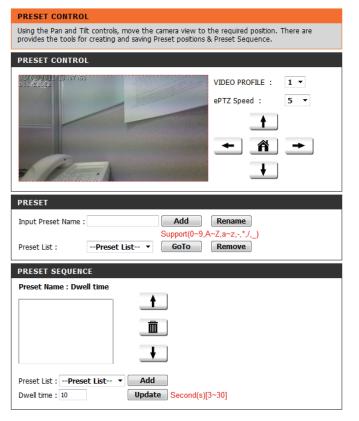
Video Profile: This selects which video profile to use.

ePTZ Speed: You may select a value between 1 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 dropdown 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.

PRESET SEQUENCE	
Preset Name : Dwell time	
Pan_Sequence:10 Privacy_Sequence:10	↑
Irregular_Sequence:10 Work_Area:10 Main_door_area:10	â
	¥
Preset List : Preset List	Add
Dwell time : 10	Update Second(s)[3~30]

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

Enable PIR: Select this box to enable Passive Infrared detection.

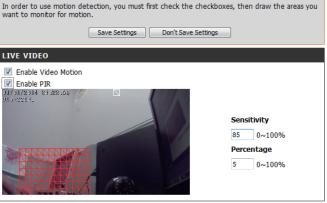
- Sensitivity: Specifies the measurable difference between two sequential images that would indicate motion. Please enter a value between 0 and 100.
- **Percentage:** Specifies the amount of motion in the window being monitored that is required to initiate an alert. If this is set to 100%, motion is detected within the whole window will trigger a snapshot.
- **Draw Motion Area:** Draw the motion detection area by dragging your mouse in the window (indicated by the red square).
- **Erase Motion Area:** To erase a motion detection area, simply click on the red square that you wish to remove.

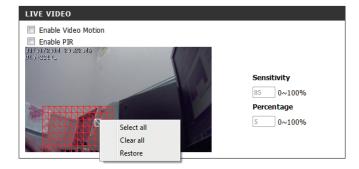
Right clicking on the camera image brings up the following menu options:

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 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-2210L with an Internet time server. Choose the one that is closest to your location.

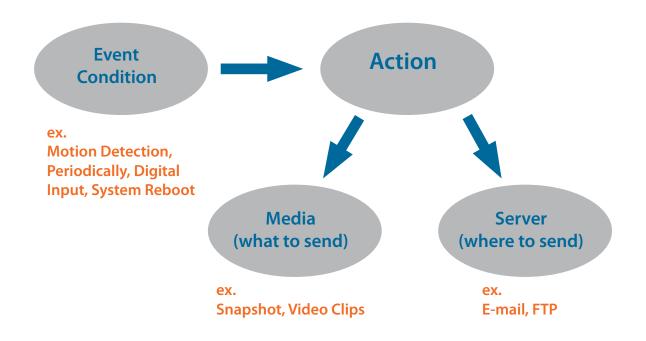
Set the Date and Time Manually: This option allows you to set the time and date manually.

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

TIME AND DATE	
You can set the current time for the IP camera.	
Save Settings Don't Save Settings	
TIME CONFIGURATION	
Time Zone (GMT+08:00) Taipei 🔹	
Enable Daylight Saving	
Auto Daylight Saving Auto Daylight	
Set date and time manually	
Offset +2:00 v	
Month Week Day of week Hour Minutes	
Start time 5 • 1 • Sunday • 00 00	
End time 10 - 1 - Sunday - 00 00	
AUTOMATIC TIME CONFIGURATION	
Synchronize with NTP Server	
NTP Server Intp.dlink.com.tw << Select NTP Saver	
SET DATE AND TIME MANUALLY	
Set date and time manually	
Year 2011 - Month 1 - Day 1 -	
Hour 18 V Minute 30 V Second 55 V	
Copy Your Computer's Time Settings	
Copy rour Computer's nime settings	
Save Settings Don't Save Settings	

Event Setup

In a typical application, when motion is detected, the DCS-2210L 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-2210L 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-2210L 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 "event, server or media," 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.

EVENT SETUP

There are four sections in Event Setup page. They are event, server, media and recording. Click Add to pop a window to add a new item of event, server, media or recording. Click Delete to delete the selected item from event, server, media or recording. Click on the item name to pop a window to edit it. There can be at most 2 events and 1 recording. There can be at most 5 server and 5 media configurations.

SERVER
Name Type Address/Location Server1 Email mail.gandi.net Add Server1 Delete
MEDIA
Media freespace: 6700KB Name Type Source Media1 Video clip Profile 1 Add Media1 Delete
EVENT
Name Status Sun Mon Tue Wed Thu Fri Sat Time Trigger Event1 OFF V V V V V 00:00~23:59 Motion Add Event1 Delete

RECORDING

Name Status Sun Mon Tue Wed Thu Fri Sat Time Source Destination

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. You can click Test to test your configurations.

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 the camera's onboard SD card storage.

SERVER			
You can set at most 5 different servers here for different event.			
Test	Save Settings Don't Save Settings		
SERVER TYPE			
Server Name:			
Email			
Sender email address			
Recipient email addre	255		
Server address			
User name			
Password			
Port	25		
This server requi	ires a secure connection (StartTLS)		
© FTP			
Server address			
Port	21		
User name			
Password			
Remote folder name			
Passive mode			
Network storage			
Network storage loca	ation		
(for example:\\my_na	as\disk\folder)		
Workgroup			
User name			
Password			
Primary WINS server			
SD Card			

Test Save Settings Don't Save Settings

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 35 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.

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

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

MEDIA You can set	at most 5 different media here for different event.
Tou can sec	
	Save Settings Don't Save Settings
MEDIA TY	PE
Mardia	
Media nam	le:
Snapsh	ot
Source	ce: Profile 1 💌
Send	1 pre-event image(s) [0~4]
Send	1 post-event image(s) [0~7]
File N	ame Prefix:
E A	Add date and time suffix to file name
Video C	Clip
Sourc	re: Profile 1 💌
Pre-e	vent recording: Second(s) [0~4]
Maxin	num duration: Second(s) [1~100]
Maxin	num file size: Kbytes [100~5000]
File N	ame Prefix:
System	loa

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 35 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	
You can set at most 5 d	ifferent media here for different event.
	Save Settings Don't Save Settings
MEDIA TYPE	
Media name:	
Snapshot	
Source: Profile 1	•
Send 1 pr	e-event image(s) [0~4]
Send 1 po	st-event image(s) [0~7]
File Name Prefix:	
Add date and	d time suffix to file name
Video Clip	
Source: Profile 1	▼
Pre-event recordi	ng: Second(s) [0~4]
Maximum duration	n: Second(s) [1~100]
Maximum file size:	Kbytes [100~5000]
File Name Prefix:	
System log	

Add Event

Create and schedule up to 3 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. The event with higher priority will be executed first.
 - **Delay:** Select the delay time before checking the next event. It is being used for events of motion detection, digital input, and PIR triggers.

Video Motion Detection: Motion is detected during live video monitoring. Select the window that needs 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 Sensor: Triggers an event when the PIR sensor is activated by moving infrared objects even in dark environment. Select Always or enter the time interval.

Time: Select the days and times when events will be detected.

	I can set at most 2 events like motion detection or digital input trigger here and arrange the ection schedule at the same time.
	Save Settings Don't Save Settings
EVE	ENT
Eve	ent name:
	Enable this event
Prio	ority: normal 💌
	ay for 10 seconds before detecting next event [For motion detection and digital input d Passive Infrared sensor]
TRI	IGGER
۲	Video motion detection
0	Periodic
	Trigger every 1 minutes
۲	Digital input
٢	System boot
۲	Network lost
0	Passive Infrared sensor
EVE	ENT SCHEDULE
⊽ Tim	Sun 🖉 Mon 🖉 Tue 🗭 Wed 🗭 Thu 🗭 Fri 🖉 Sat ne
	Always
	◎ From 00 * 00 * To 23 * 59 *
AC	TION
	Trigger D/O for 1 seconds
\bigcirc	Server1
	Attached media: Media1 🔻

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

Server: Specify the location where the event information should be saved to.

r	EVENT			
	Event name:			
	Enable this event			
-1	Priority: normal 💌			
b	Delay for 10 seconds before detecting next event [For motion detection and digital input			
	and Passive Infrared sensor]			
	TRIGGER			
	Video motion detection			
	Periodic			
	Trigger every 1 minutes			
	Digital input			
	System boot			
	Network lost			
	Passive Infrared sensor			
	EVENT SCHEDULE			
	🖉 Sun 🖉 Mon 🖉 Tue 🖉 Wed 🕼 Thu 🖉 Fri 🕼 Sat			
	Time			
	Always			
	◎ From 00 * 00 * To 23 * 59 *			
	ACTION			
	Trigger D/O for 1 seconds			
	Server1			
	Attached media: Media1 🔹			
	Save Settings Don't Save Settings			

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: The unique name of the entry.

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

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 schedule: Schedule the recording entry via days and times.

Recording settings: Configuring the setting for the recording.

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

Total cycling recording size: Please input a HDD volume between 200 MB and 2 TB 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 a 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.

RECORDING
You can setup schedule recording to network storage with your specify week day and time period.
Save Settings Don't Save Settings
RECORDING
Recording entry name:
Enable this recording
Priority: normal 💌
Source: Profile 1 💌
RECORDING SCHEDULE
☑ Sun ☑ Mon ☑ Tue ☑ Wed ☑ Thu ☑ Fri ☑ Sat
Always Alway Always Always Always Always Alway Alway
◎ From 00 ▼ 00 ▼ To 23 ▼ 59 ▼
RECORDING SETTINGS
Destination None
Total cycling recording size: 1000 Mbytes [200~2000000]
Size of each file for recording: 10
◎ Time of each file for recording: 10
File Name Prefix:

Save Settings	Don't Save Settings
---------------	---------------------

Section 4: Configuration

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).

RECOR	DING
Record	ing entry name:
🔲 Ena	ble this recording
Priority:	normal 👻
Source:	Profile 1 💌
RECOR	DING SCHEDULE
🔽 Sun	🛛 🗹 Mon 📝 Tue 📝 Wed 📝 Thu 🖤 Fri 📝 Sat
Time	
	Always
	◎ From 00 ▼ 00 ▼ To 23 ▼ 59 ▼
RECOR	DING SETTINGS
Destina	None 🔻
Total cy	cling recording size: 1000 Mbytes [200~2000000]
Size	of each file for recording: 10 - Mbytes
🔘 Time	e of each file for recording: 10 👻 seconds
File Nam	ne Prefix:

Save Settings Don't Save Settings

SD Card

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

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

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

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

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

SD CARD				
Here you could browse and manage the record files which stored in SD card.				
SD CARD				
SD Card: / SD Status : Ready				
Files per Page: 10 V Refresh 1 V of 1				
Delete	File	Num of files	Size	
	<u>Picture</u>	8		
	<u>Video</u>	1		
Format SD Card	Format SD Card Total:119247KB, Used:31848KB, Free:87399KB			
	Oł	C		

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 D/O Mode: The camera will send a signal when an event is triggered, 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."

DI AND DO		
The I/O connector provides the physical interface for digital output (DO) and digital input (DI) that is used for connecting a diversity 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.		
Save Settings Don't Save Settings		
DI AND DO		
Digital Input 1: The active state is N.O. ; the current state detected is Normal Open Digital Output: The active state is N.O.		

ICR and IR

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

Automatic: The Day/Night mode is set automatically. Generally, the camera uses Day mode and switches to Night mode when needed. Select the desired sensitivity level from the drop-down menu.

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 lets you adjust IR strength 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 sensor is on.
- Schedule: The IR light will turn on or off according to the schedule that you specify below.

TOP	AND	Т
JUK	AND	

Schedule

An IR(Infrared) Cut-Removable(ICR) filter can be disengaged from the image path for increased sensitivity in low light environments. The ICR filter will automatically engage depending on the ambient light, allowing the camera to be effective in day/night environments. 1. Select the Day/Night from the radio button. The available options are Automatic, Schedule mode, Day mode and Night mode. 2. The default value is Automatic.		
Light Sensor Sensitivity Light sensor sensitivity has Low, Medium, and High three different levels. You may get current camera light illumination by clicking Refresh button to set proper level of Light sensor sensitivity. For example, when level sets at High less than 30lux. camera will switch Day & Night mode to Night mode.		
	uminators will be activated automatically or manually so as to supplement the thout additional equipment.	
	Save Settings Don't Save Settings	
ICR		
Removable IR-Cut fill Automatic Day mode Night mode	ter trigger condition: Sensitivity Medium:<20lux Vor 30 lux Refresh	
Schedule mode	Day mode(24hr) From 07 * 00 * To 18 * 00 *	
IR LIGHT		
IR Light Control	Medium 💌	
Off		
On On		
Sync. With ICR		

IR Light Control On(24hr)

From 07 v 00 v To 18 v 00 v

HTTPS

This page allows you to install and activate an SSL certificate for secure HTTPS 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

Certificate Information: Displays the status and details of the certificate. Click on **CSR Property** and **Certificate Property** to view details of the certificates.

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

HTTPS		
To enable HTTPS, you have to create and install certificate first.		
	Save Settings Don't Save Settings	
HTTPS		
Enable HTTPS sec	ure connection	
Create certificate meth	nod	
Create self-s	igned certificate automatically	
Create self-s	igned certificate manually	
Create certi	ficate request and install	
Create certificate: Create Private key existed		
CERTIFICATE INFO	RMATION	
Status	Active	
Country	TW	
State or province	Taiwan	
Locality	Taipei	
Organization	D-Link Taiwan	
Organization Unit	R&D Dept.	
Common Name	www.dlink.com.tw	
CSR Property	Certificate Property Remove	

Access List

Here you can set access permissions for users to view your DCS-2210L.

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

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

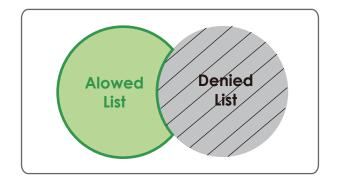
- **End IP address:** The ending IP Address of the devices (such as a computer) that have permission to access the video of the camera. Click **Add** to save the changes made.
- Delete allow list: Remove the customized setting from the Allow List.
 - **Deny list:** The list of IP addresses that have 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-2210L.

ACCESS LIST		
Here you can set acces	s permissions for users to view your IP camer	a.
ALLOW LIST		
Start IP address		
End IP address		Add
Delete allow list	•	Delete
DENY LIST		
Start IP address		
End IP address		Add
Delete deny list	•	Delete



SNMP

The Simple Network Management Protocol is an application layer protocol that facilitates the exchange of management information between network devices. It helps network administrators to remotely manage network devices and find, solve network problems with ease.

Enable SNMPv1, SNMPv2c: Select this to enable SNMPv1 and 2.

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

Read Only Community: Enter a name for the write community of your SNMP server.

Enable SNMPv3: Select this to enable SNMPv3. You will need to ask your network administrator for the SNMP authentication information and input them into the fields below.

Read/Write and Read Only Enter custom names for your read/write and read only Security Names: SNMP accounts in the text boxes.

Authentication Type: Select the authentication protocol used for SNMP exchanges between this user and the local SNMP engine. SHA and MD5 protocols are supported.

Authentication/Encryption Enter the authentication and encryption passwords for Password: your read/write and read only SNMP accounts in these boxes.

SNMP		
The Simple Network Management Protocol is an application layer protocol that facilitates the exchange of management information between network devices. It helps network administrators to remotely manage network devices and find, solve network problems with ease. Save Settings Don't Save Settings		
SNMP CONFIGURATION		
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	•••••	

Maintenance

Admin

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

Admin Password Setting: Set a new password for the administrator's account. ADMIN Here you can change the administrator's password for your IP camera as well as add and/or delete Retype it and click **Save** for it to take effect. 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. Add User Account: Add new user account. Click Add to save the account. ADMIN PASSWORD SETTING New Password 32 characters maximu User Name: The user name for the new account. Save Retype Password Password: The password for the new account. ADD USER ACCOUNT User Name 20 users maximum User List: All the existing user accounts will be displayed here. You New Password 32 characters maximum may delete accounts included in the list, but you may Retype Password Add want to reserve at least one as a guest account. USER LIST IP Camera Name: Create a unique name for your camera that will be added User Name -- Here list --Delete to the file name prefix when creating a snapshot or a video clip. DEVICE SETTING IP camera Name DCS-2210 63 characters maximum Enable OSD: Select this option to enable the On-Screen Display Enable OSD feature for your camera. Label DCS-2210L 30 characters maximum Show Time 🔽 Save Label: Enter a label for the camera, which will be shown on the OSD when it is enabled. LED LED Save On
 Off Show Time: Select this option to enable the time-stamp display on the video screen. Click Save when you are done.

LED: You may specify whether or not to illuminate the status LED on the camera. Click **Save** when you are done.

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: Check to enable this feature and select the days and times your DCS-2210L will automatically reboot. Click Save for it to take effect.

SYSTEM	
Here you may backup, restore, and reboot you	r IP camera.
SYSTEM	
Save To Local Hard Drive	e Configuration
Load From Local Hard Drive	Browse
Los	d Configuration
Restore To Factory Defaults	estore Factory Defaults
REBOOT	
Reboot Device Rebo	ot Device
Enable Schedule Reboot	
🖉 Sun 🖉 Mon 🖉 Tue 🖉 Wed 🖉 T	hu 🕖 Fri 🗹 Sat
Time 00 🔻 : 00 👻 [hh:mm]	Save

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-2210L, 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: Locate the file (upgraded firmware) on your hard drive by clicking **Browse**.

Upload: Uploads the new firmware to your camera.

FIRMWARE UPGRADE

A new firmware upgrade may be available for your IP camera. It is recommended to keep your IP camera firmware up-to-date to maintain and improve the functionality and performance of your internet IP camera. Click here <u>D-Link Support Page</u> to check for the latest firmware version available.				
To upgrade the firmware on your IP camera, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the Browse button. Once you have found and opened the file using the browse button, click the "Upload" button to start the firmware upgrade.				
FIRMWARE INFORMATION				
Current Firmware Version: 0.03.00				
Current Product Name: DCS-2210L				

FIRMWARE UPGRADE

File Path: Browse.... Upload

Status

Device Info

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

DEVICE INFO All of your network connection details are displayed on this page. The firmware version is also displayed here.		
INFORMATION		
IP camera Name	DCS-2210L	
Time & Date	Wed Jan 1 20:32:56 2014	
Firmware Version	0.03.00	
MAC Address	0A:CA:CA:22:10:14	
IP Address	192.168.0.101	
IP Subnet Mask	255.255.255.0	
Default Gateway	192.168.0.2	
Primary DNS	192.168.0.2	
Secondary DNS	0.0.0.0	
PPPoE	Disable	
DDNS	Enable	
Agent Version	2.0.17-b76	

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.

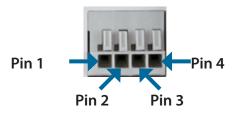
SYS	SYSTEM LOG				
The	The system log records IP camera events that have occurred.				
CUR	RRENT LOG				
1.	2011-01-01 19:01:11 Someone Create Certificate				
2.	2011-01-01 19:01:11 Someone Cleace Certificate 2011-01-01 18:47:55 admin LOGIN OK FROM 192.168.0.51				
3.	2011-01-01 17:56:08 admin FROM 192.168.0.51 SET EVENT MEDIA 1 ; Name : Media1, Type : Video Clip				
4.	2011-01-01 17:56:08 admin FROM 192.168.0.51 SET EVENT TYPE 1 ; Trigger : Motion Detection				
5.	2011-01-01 17:55:47 admin FROM 192.168.0.51 SET EVENT SERVER 1 ; Name : Server1, Type : Email				
6.	2011-01-01 17:55:47 admin FROM 192.168.0.51 SET EVENT TYPE 1 ; Trigger : Motion Detection				
7.	2011-01-01 17:55:47 admin FROM 192.168.0.51 SET EVENT MEDIA 1 ; Name : Media1, Type : Video Clip				
8.	2011-01-01 17:33:37 admin LOGIN OK FROM 192.168.0.51				
9.	2011-01-01 17:32:45 SYSTEM SET IR LIGHT OFF				
10.	2011-01-01 17:32:21 IP CAMERA ACQUIRE DHCP IP 192.168.0.53				
11.	2011-01-01 17:32:17 NETWORK RECONNECT				
	2011-01-01 17:30:18 SYSTEM SET IR LIGHT ON				
	2011-01-01 17:28:51 NETWORK LOSS				
	2011-01-01 17:28:50 SYSTEM SET IR LIGHT OFF				
15.					
16.					
17.					
18.	2011-01-01 07:36:18 admin LOGIN OK FROM 172.17.5.125 2011-01-01 07:25:36 SYSTEM SET IR LIGHT OFF				
20.	2011-01-01 07:25:33 IP CAMERA ACQUIRE DHCP IP 172.17.5.143				
Fir Clea	rst Page Previous 20 Next 20 ar Download				

Help

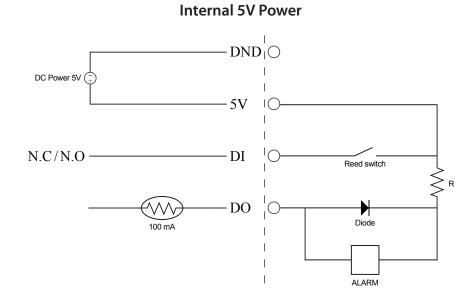
This page provides helpful information regarding camera operation.

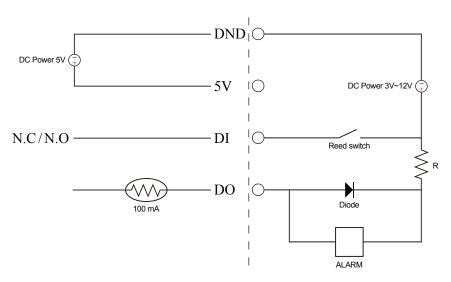
HELP			
LIVE VIDEO SETUP MAINTENANCE ADVANCED STATUS			
LIVE VIDEO			
<u>Camera</u>			
SETUP			
 Setup Wizard Network Setup Dynamic DNS Image Setup Audio and Video Preset Motion Detection Time and Date Event Setup SD Card 			
ADVANCED			
DI and DO ICR and IR HTTPS Access List SNMP			
MAINTENANCE			
• <u>Admin</u> • <u>System</u> • <u>Firmware Upgrade</u>			
STATUS			
Device Info Log			

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	





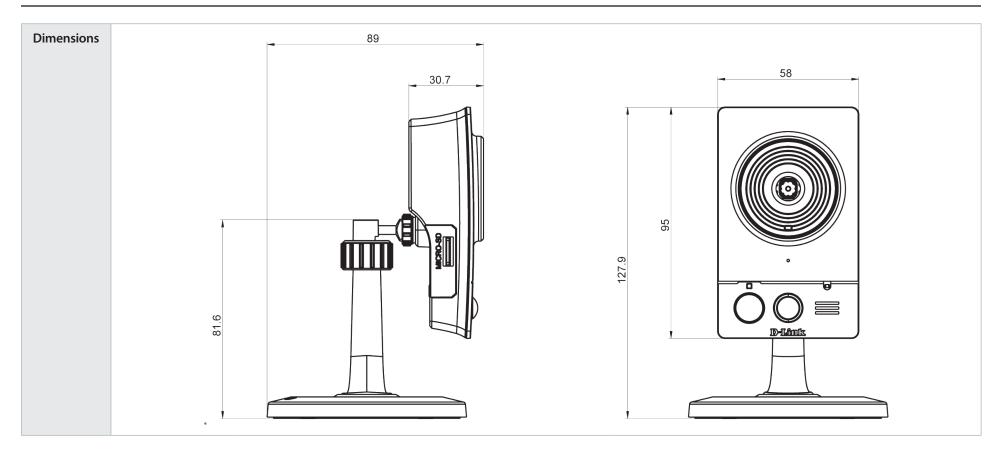
External 3~12V Power

Technical Specifications

Camera	Camera Hardware Profile	1/2.7" 2 Megapixel CMOS sensor	Focal length: 2.8 mm
		5 meter IR illumination distance	Aperture: F1.8
		Minimum illumination: 0 lux with IR LED on	Angle of view:
		Built-in Infrared-Cut Removable (ICR) Filter module	■ (H) 103°
		 Built-in PIR sensor (5 meter) 	■ (V) 55°
		Built-in microphone and speaker10x digital zoom	■ (D) 118°
	Image Features	 Configurable image size, quality, frame rate, and bit rate 	 Configurable privacy mask zones
		Time stamp and text overlaysConfigurable motion detection windows	 Configurable shutter speed, brightness, saturation, contrast, and sharpness
	Video Compression	Simultaneous H.264/MJPEG format compressionH.264 multicast streaming	 JPEG for still images
	Video Resolution	16:9 - Up to 30 fps at 1920 x 1080, 1280 x 720, 800 x 450, 640 x 360, 480 x 270	4:3 - Up to 30 fps at 1440 x 1080, 1280 x 960, 1024 x 768, 800 x 600, 600 x 480, 320 x 240
	Audio Support	G.711, AAC	
	External Device Interface	10/100 BASE-T Fast Ethernet port	 DI/DO port
		802.3af PoE (DCS-2210L only)	microSD/SDHC card slot
		IEEE 802.11n/b/g wireless with WPS (DCS-2230L only)	
Network	Network Protocols	IPv6 / IPv4	HTTP / HTTPS
		TCP/IP	Samba client
		UDP	PPPoE
		ICMP	UPnP port forwarding
		DHCP client	RTP / RTSP/ RTCP
		NTP client (D-Link)	IP filtering
		DNS client	QoS
		DDNS client (D-Link)	CoS
		SMTP client	Multicast
		FTP client	IGMP
		Bonjour	ONVIF compliant
	Security	Administrator and user group protectionPassword authentication	 HTTP and RTSP digest encryption

System Management	System Requirements for Web Interface	 Operating System: Microsoft Windows 8/7 (32/64-bit)/Vista (32/64-bit)/XP, Mac OS X 10.5 or above 	 Browser: Internet Explorer 7, Firefox 12, Safari 7 or above
	Event Management	 Motion detection, Periodic, Digital Input, System Boot, Network Lost, PIR Event notification and saving/uploading of snapshots/video 	 Supports multiple SMTP and FTP servers Multiple event notifications Multiple recording methods for easy backup
		clips via e-mail, FTP, network storage, or SD card	- Multiple 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	mydlink mobile app for iOS and Android mobile devices	
	D-ViewCam [™] System Requirements	 Operating System: Microsoft Windows 8/7 (32/64-bit)/Vista (32/64-bit)/XP 	 Protocol: Standard TCP/IP
	D-ViewCam™ Software Functions	Remote management/control of up to 32 cameras	 Supports all management functions provided in web interface
		Viewing of up to 32 cameras on one screen	 Scheduled motion triggered, or manual recording options
General	Weight	DCS-2210L: 80 g	
		DCS-2230L: 75 g	
	External Power Adaptor	Input: 100 to 240 V AC, 50/60 Hz	Output: 5 V DC, 1.2 A, 50/60 Hz
	Power Consumption	DCS-2210L: Max. 3.5 W	
		DCS-2230L: Max. 4 W	
	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	FCC
		CE LVD	C-Tick

Appendix B: Technical Specifications



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

Industry Canada Notice:

office.

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.