



User Manual

Wireless AC Day/Night HD Mini Bullet Cloud Camera

DCS-7000L

Manual Overview

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

Manual Revisions

Revision	Date	Description
1.0	May 5, 2014	DCS-7000L Revision A1 with firmware version 1.00

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Product Overview

Package Contents



DCS-7000L Wireless AC Day/Night HD Mini Bullet Cloud Camera



Wall mount kit



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	<ul style="list-style-type: none">• 10/100 Ethernet network or an 802.11ac/n/g/b/a wireless network
CD Setup Wizard Requirements	<p>Computer with the following:</p> <ul style="list-style-type: none">• 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	<p>Browser Requirements:</p> <ul style="list-style-type: none">• Internet Explorer 7 or higher• Firefox 12 or higher• Safari 6 or higher• Chrome 20 or higher <p>Note: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.</p>
mydlink Website Requirements	<ul style="list-style-type: none">• Broadband Internet connection• Computer with:<ul style="list-style-type: none">• Internet Explorer 7 or higher (ActiveX)• Firefox 12 or higher• Safari 6 or higher• Chrome 20 or higher

Introduction

Congratulations on your purchase of the DCS-7000L Wireless AC Day/Night HD Mini Bullet Cloud Camera, a versatile surveillance and security solution for your home or small office. Designed for indoor day or night operation, the camera supports distances of up to five meters in darkness.

With Wireless AC support which eliminates the need for network cabling, the DCS-7000L can be accessed remotely, and controlled from any PC or notebook over your local network or through the Internet using a web browser. The simple installation and intuitive web-based interface offer easy integration with your existing network.

The included D-Link D-ViewCam™ is a sophisticated piece of software which allows users to manage up to 32 network cameras, set email alert notifications, create recording schedules, and use motion detection to record directly to a hard drive. D-ViewCam™ also allows users to upload a floor plan to create a realistic layout of the premises where cameras are located, further simplifying the management process.

Features

Simple to Use

The DCS-7000L is a stand-alone system with a built-in CPU, requiring no special hardware or software. The DCS-7000L 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-7000L 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-7000L directly from its own Web page via Intranet or Internet. This means you can access your DCS-7000L anytime, anywhere in the world.

All-Day Surveillance with low light color image capability

With built-in infrared LEDs let you monitor an area 24 hours a day, even in areas with low light or complete darkness, the DCS-7000L is a versatile surveillance and security monitoring device.

Broad Range of Applications

With today's high-speed Internet services, the DCS-7000L can provide the ideal solution for delivering live video images over the Intranet and Internet for remote monitoring. The DCS-7000L allows remote access using a Web browser for live image viewing, and allows the administrator to manage and control the DCS-7000L 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-7000L offers wireless 802.11ac and Ethernet/Fast Ethernet connectivity, making the DCS-7000L easy to integrate into your existing network environment. The DCS-7000L works with 10/100 Mbps 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-7000L and allows administrators to configure and access the DCS-7000L 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.

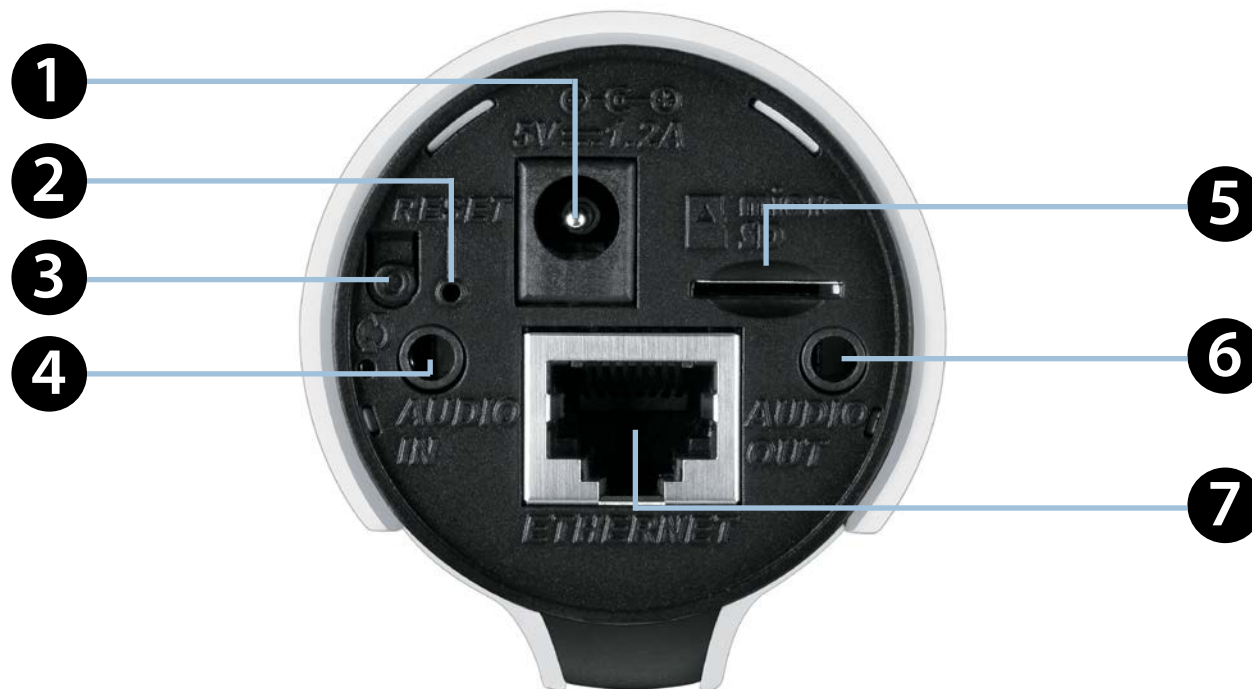
Hardware Overview

Front



1	IR LEDs	Used to illuminate the camera's field of view at night
2	Power/Link LED	Indicates the camera's current status
3	Light Sensor	Measures the lighting conditions and switches between color and infrared accordingly.
4	Camera Lens	Records video of the surrounding area

Rear



1	Power Connector	Connects to the included DC 5 V power adapter
2	Reset Button	Press and hold this button for 10 seconds to reset the camera
3	WPS Button	Press this button for 3 seconds, then within the next 60 seconds press the WPS button on your router to set up a wireless connection automatically
4	Audio In	Connect an audio jack to override the built-in audio input
5	microSD Card Slot	Insert a microSD or microSDHC card to store recordings (max. capacity 32 GB)
6	Audio Out	Connect an audio jack for audio output
7	Ethernet Port	RJ45 connector for Ethernet

Adjusting Camera Focus

Use the included focus adjustment tool to adjust the camera focus by rotating the circular frame around the lens clockwise or anti-clockwise.

Note: For fine tuning the focus, it is recommended to use the included focus adjustment tool rather than attempting to adjust the lens with your fingers or other objects.



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.

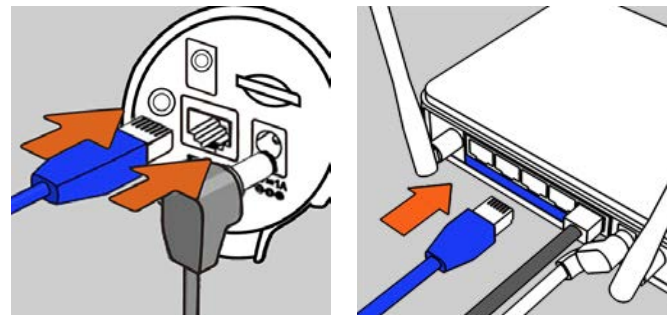
Zero Configuration Setup

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-7000L 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-7000L.

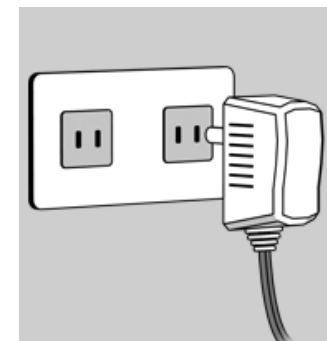
Connect the Ethernet Cable

If using an Ethernet connection: Connect the included Ethernet cable to the Ethernet port located on the back of the DCS-7000L 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-7000L 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

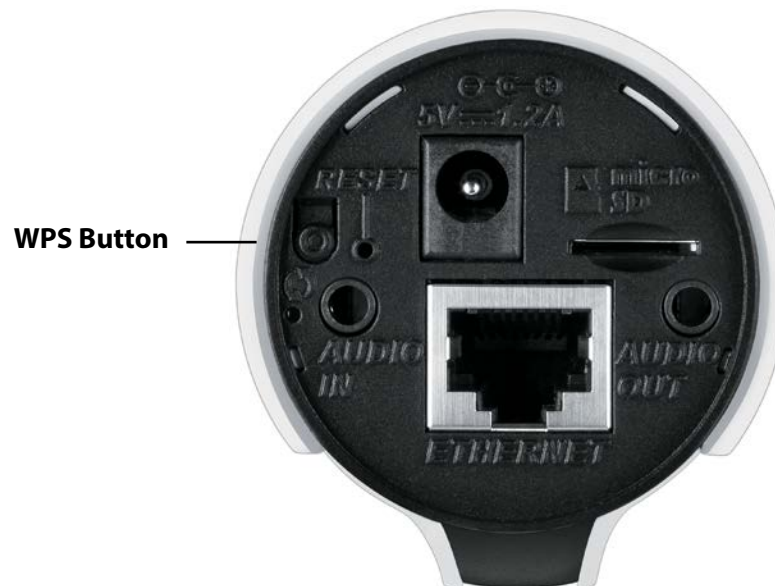
Press and hold the WPS button for approximately 5-6 seconds. The blue WPS status LED above the button will blink.

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-7000L 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.

mydlink
Welcome, Mehta IP

My Devices Shared Devices My Services My Profile

DIR-605L
20019862

Router Status Settings

Model Name DIR-605L **Reboot**

Network Name(SSID) Taonet

Internet IP 192.168.1.103

LAN IP 192.168.0.1

Connected Devices 5 device(s)

0000.3kB
0008.4kB

Connection List

Device	Device Name	IP Address	MAC Address	Block
	CardboardBox	192.168.0.110	00:20:20:02:FE:FA	<input type="checkbox"/>
	--	192.168.0.120	04:54:53:50:53:18	<input type="checkbox"/>
	HeDay	192.168.0.100	00:1A:92:E2:4D:C9	<input type="checkbox"/>
	--	192.168.0.121	28:E0:2C:DC:0A:BE	<input type="checkbox"/>
	--	192.168.0.101	FD:A2:25:AA:8C:C3	<input type="checkbox"/>

Suspect List

Device	Device Name	Time	MAC Address	Block
--------	-------------	------	-------------	-------

New Devices
DCS-7000L

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

Confirming New Device

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

Device Name: DCS-7000L
mydlink Number: 44441252
Network name (SSID): dddddd
Admin Password: oic953XZ

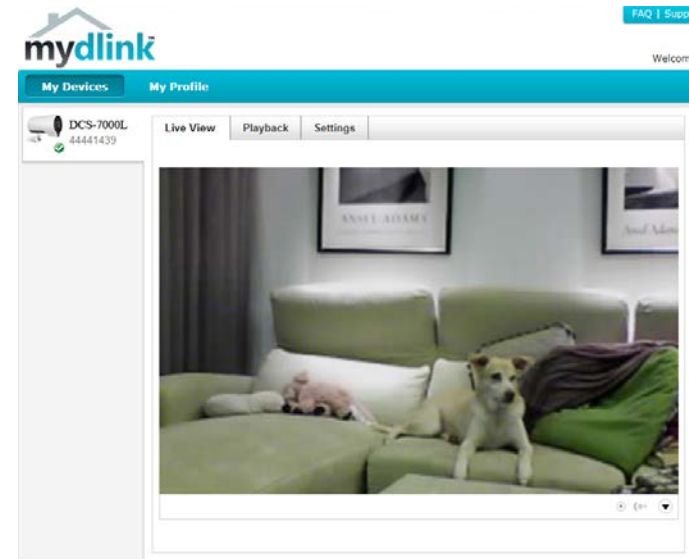
You can change these default settings by going to **Advanced Settings** after add it to your device list.

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.

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.



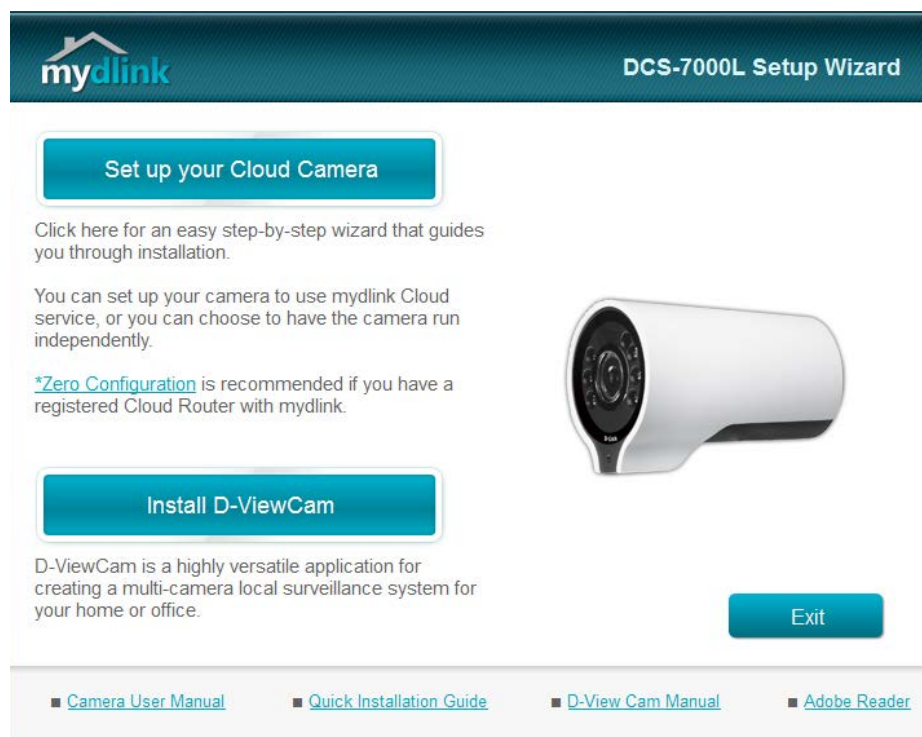
The screenshot displays the 'DCS-7000L Setup Wizard' interface. At the top left is the 'mydlink' logo, and at the top right is the title 'DCS-7000L Setup Wizard'. The main content area features a large teal button labeled 'Set up your Cloud Camera'. Below this button, there is explanatory text: 'Click here for an easy step-by-step wizard that guides you through installation.' and 'You can set up your camera to use mydlink Cloud service, or you can choose to have the camera run independently.' A note states '*Zero Configuration is recommended if you have a registered Cloud Router with mydlink.' To the right of the text is an image of the DCS-7000L camera. Below the 'Set up your Cloud Camera' button is another teal button labeled 'Install D-ViewCam', followed by text describing it as a multi-camera local surveillance system. At the bottom right of the main area is a teal button labeled 'Exit'. At the very bottom of the interface is a navigation bar with four links: 'Camera User Manual', 'Quick Installation Guide', 'D-View Cam Manual', and 'Adobe Reader'.

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.



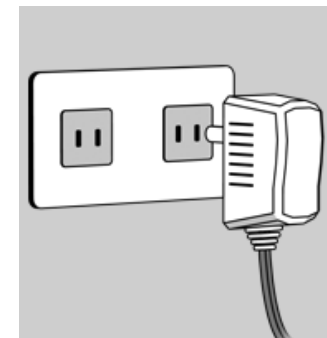
Manual Hardware Installation

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.

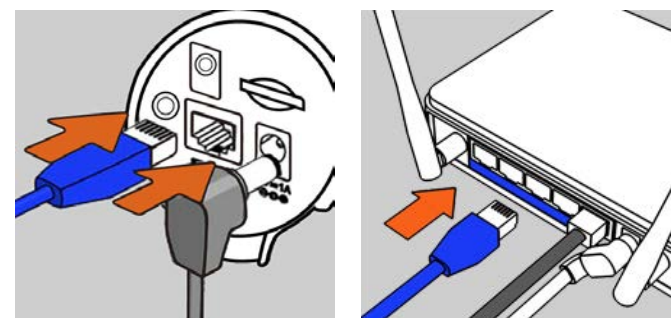
Attach the External Power Supply

Attach the external power supply to the DC Power receptor located on the rear panel of the DCS-7000L 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-7000L and attach it to the network.



Installation

Wireless 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-7000L) - 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 2.4 GHz cordless phones or other radio frequency sources (such as microwave ovens), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

WPS - Push Button Setup

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:

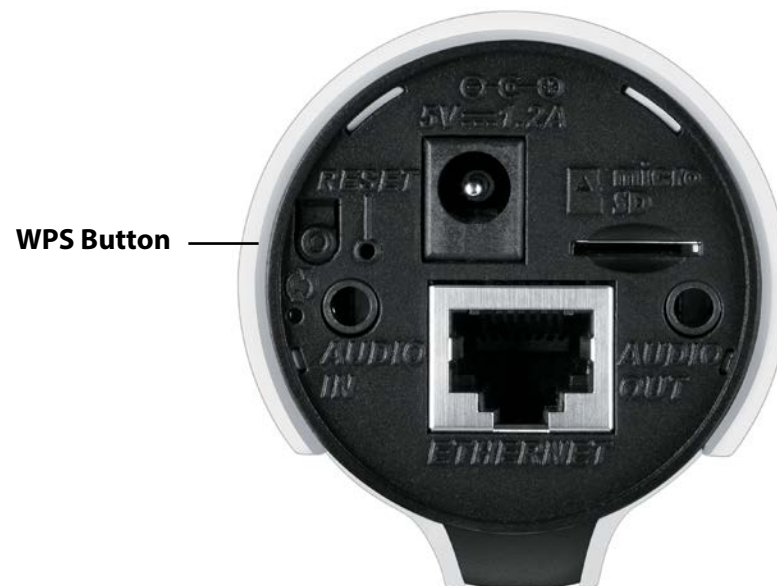
Step 1

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

Step 2

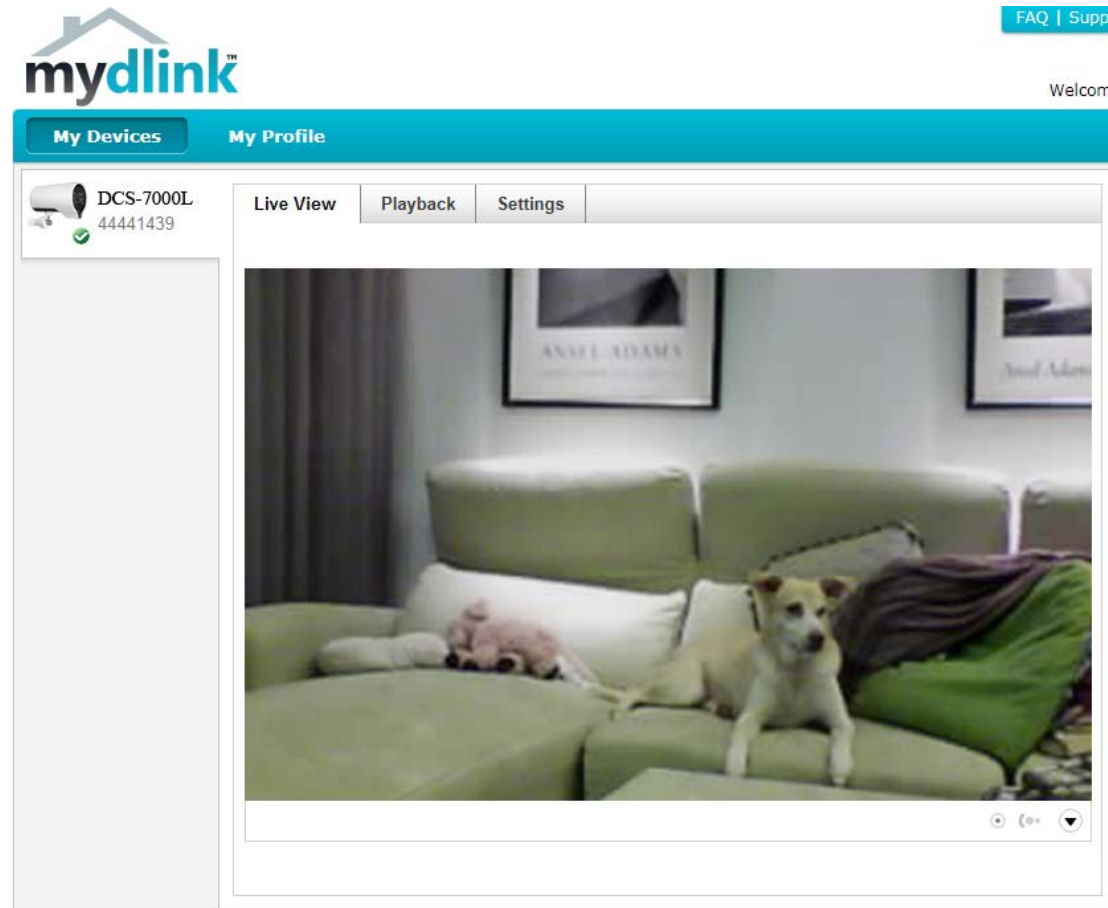
Within 60 seconds press the WPS button on your router. On some routers, you may need to log in to the web interface and click on an on-screen button to activate the WPS feature.

The DCS-7000L 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-7000L 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

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-7000L. 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 during the setup process. 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**.

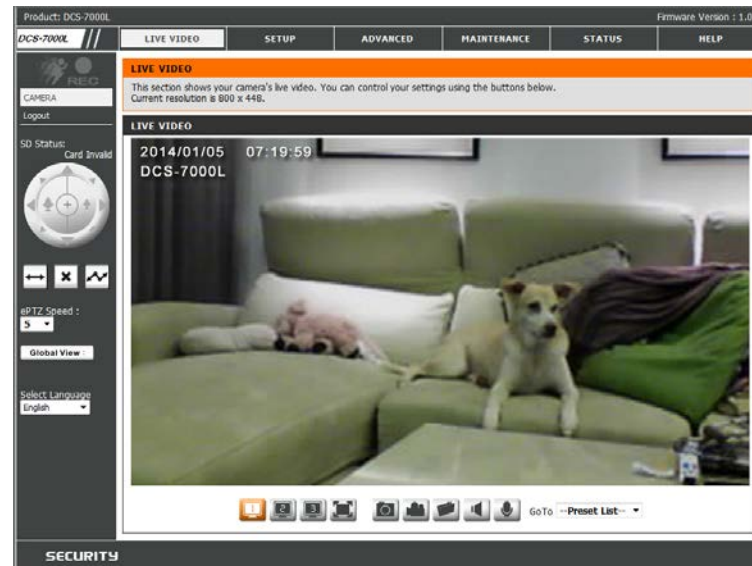








Live Video

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."



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

Section 4: Configuration

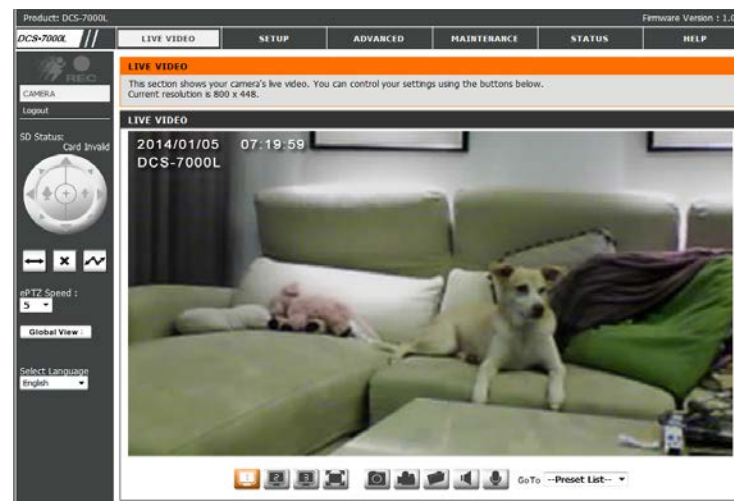
ePTZ Speed: You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.

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)



Setup Setup Wizard

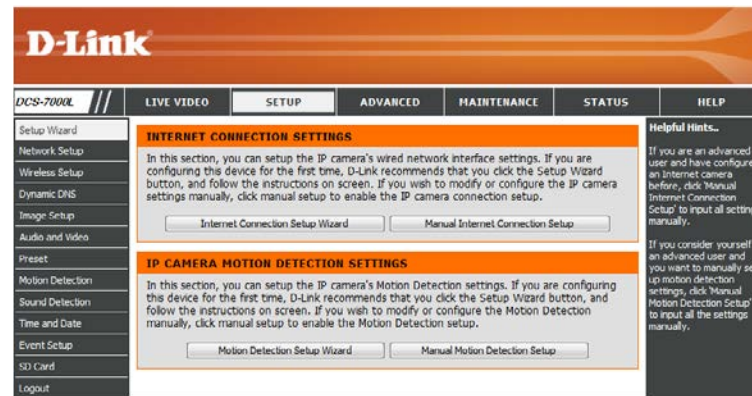
This section allows you to begin setup wizards which will guide you through the process of getting your camera's various functions configured. If you comfortable with adjusting the settings manually, you may skip the wizards and adjust the necessary as needed.

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

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

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

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

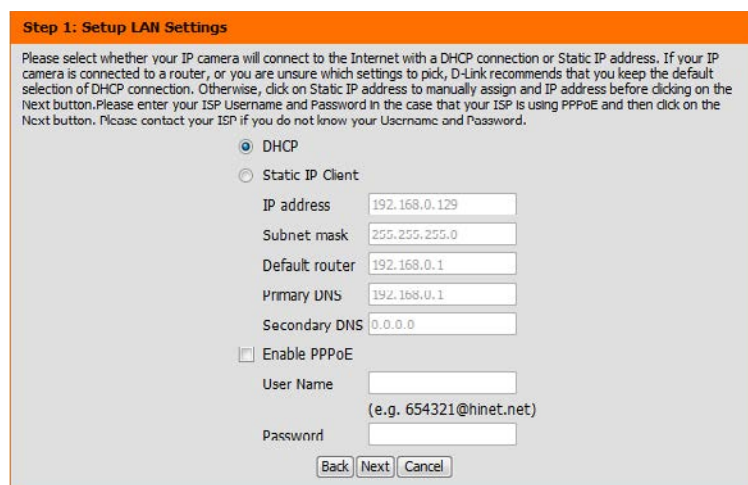
Default Gateway: Enter the default gateway address. This is usually the IP address of your router.

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.



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. The Dynamic Domain Name Server (DDNS) 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.

Verify Password: Re-enter your password for verification.

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 <<

Host Name

User Name

Password

Verify Password

Timeout (hours)

Section 4: Configuration

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.

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.

Step 3: IP camera Name Settings

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

IP camera Name DCS 7000L

Back Next 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 (UTC-08:00) Pacific Time (US & Canada)

Enable Daylight Saving

Back Next Cancel

Step 5: Setup complete

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

IP Address	DHCP
IP camera Name	DCS-7000L
Time Zone	(UTC-08:00) Pacific Time (US & Canada)
DDNS	Disable
PPPoE	Disable

Back Apply 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

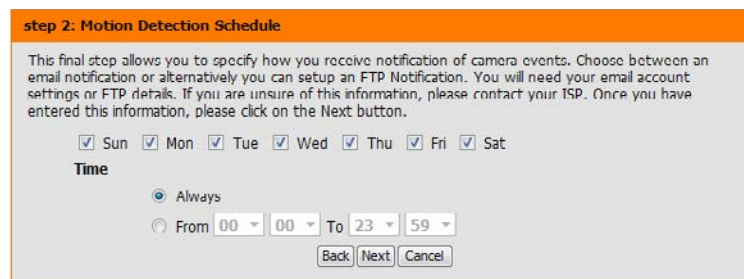
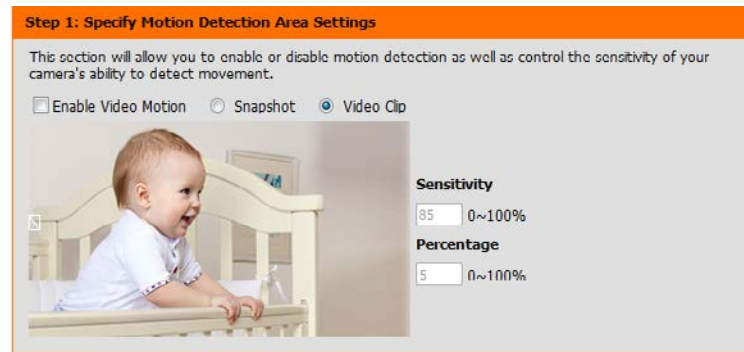
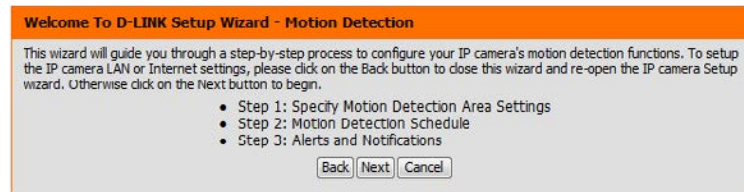
This step will allow you to enable or disable motion detection, specify the detection sensitivity, and adjust the camera's ability to detect movement.

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

Please see "Motion Detection" on page 42 for information about how to configure motion detection.

Step 2

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



Section 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 3: Alerts and Notification

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

Do not notify me

Email

Sender email address

Recipient email address

Server address

User name

Password

Port:

FTP

Server address

Port:

User name

Password

Remote folder name

Step 4

You have completed the Motion Detection Wizard.

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

Step 4: Setup Complete

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

Motion Detection :	Disable
EVENT :	Video Clip
Schedule Day :	Sun ,Mon , Tue ,Wed , Thu ,Fri ,Sat ,
Schedule Time :	Always
Alerts and Notification :	Do not notify me

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.

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 Address: You may obtain a static or fixed IP address and other 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 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 specify a port to forward for remote UPnP connections.

Forwarding Port: Enter the UPnP port you wish to forward, and click **Test** to check whether it is available.

Forwarding Status: Displays the current UPnP port forwarding status.

D-Link

DCS-7000L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

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

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

LAN SETTINGS

DHCP
 Static IP Client

IP address: 192.168.0.129
Subnet mask: 255.255.255.0
Default router: 192.168.0.1
Primary DNS: 192.168.0.1
Secondary DNS: 0.0.0.0

Enable UPnP presentation
 Enable UPnP port forwarding

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

PPPOE SETTINGS

Enable Disable

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

HTTP

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

HTTPS

HTTPS port: 443

RTSP

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

COS SETTINGS

Enable CoS

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

QOS SETTINGS

Enable QoS

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

Helpful Hints...

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

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

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

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

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

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

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

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

Enable IPv6: Select this option and click Save to enable IPv6 setting. Please note that this only works if your network environment and hardware equipment support IPv6. The browser should be Microsoft® Internet Explorer 6.0, Mozilla Firefox 3.0 or above. When IPv6 is enabled, by default, the Network Camera will listen to router advertisement and be assigned a link-local IPv6 address accordingly.

IPv6 Information: Click this button to obtain the IPv6 information. If your IPv6 setting are successful, the IPv6 address list will be listed in the bottom window.

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.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-7000L 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.

The screenshot displays the configuration web interface for the D-Link DCS-7000L camera. The interface is organized into several sections:

- HTTP:** Includes fields for HTTP port (80), and access names for three streams (video1.mjpg, video2.mjpg, video3.mjpg).
- RTSP:** Includes fields for RTSP port (554), and access names for three streams (live1.sdp, live2.sdp, live3.sdp).
- COS SETTINGS:** Features a checkbox for 'Enable CoS' and dropdown menus for VLAN ID (1), Live video (0), Live audio (0), Event/Alarm (0), and Management (0).
- QoS SETTINGS:** Features a checkbox for 'Enable QoS' and dropdown menus for Live video (0), Live audio (0), Event/Alarm (0), and Management (0).
- IPV6:** Includes a checkbox for 'Enable IPv6', an 'IPv6 Information' button, and fields for manually setting the IP address, optional default router, and optional primary DNS.
- MULTICAST:** Contains three sections for 'Enable multicast for stream 1', 'stream 2', and 'stream 3'. Each section includes fields for multicast group address, video port, RTP video port, audio port, RTP audio port, and TTL [1~255].

On the right side of the interface, there are several informational text boxes:

- HTTP:** Explains that the port is for connecting to an IP camera and lists supported devices like mobile phones and PDAs.
- CoS (Class of Service):** States that CoS provides traffic control based on the I2 protocol and that Class of Service technologies do not guarantee a level of service in terms of bandwidth and delivery time.
- QoS (Quality of Service):** Explains that QoS provides traffic control through a resource reservation control mechanism and that quality of service is not guaranteed if network capacity is insufficient.
- Enable IPv6:** Instructs the user to select this option and click 'Save' to enable IPv6, noting that it requires network environment and hardware support.
- IPv6 Information:** Provides a step-by-step guide for obtaining IPv6 information and configuring the camera's IPv6 address.
- Manually setup the IP address:** Advises the user to select this option to manually configure IPv6 settings if their network environment does not have DHCPv6.
- Multicast:** Explains that clicking the items displays detailed configuration information and that the 'Always multicast' option should be selected to enable multicast for each stream.
- Multicast RTP video, audio port:** Notes that these ports can be changed to values between 1024 and 65534, and that the multicast RTP port must be an even number and the multicast RTP port number must be an even number.

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

Enable Multicast for stream The DCS-7000L 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.

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

MULTICAST

Enable multicast for stream 1

Multicast group address: 239.1.1.1

Multicast video port: 6550

Multicast RTP video port: 6551

Multicast audio port: 6552

Multicast RTP audio port: 6553

Multicast TTL [1~255]: 64

Enable multicast for stream 2

Multicast group address: 239.1.1.2

Multicast video port: 6554

Multicast RTP video port: 6555

Multicast audio port: 6556

Multicast RTP audio port: 6557

Multicast TTL [1~255]: 64

Enable multicast for stream 3

Multicast group address: 239.1.1.3

Multicast video port: 6558

Multicast RTP video port: 6559

Multicast audio port: 6560

Multicast RTP audio port: 6561

Multicast TTL [1~255]: 64

Manually setup the IP address: Select this option to manually configure IPv6 setting if your network environment does not have DHCP6 server and advertisements-enabled routers.

Multicast: Click the items to display the detailed configuration information. Select the Always multicast option to enable multicast for stream 1 ~ 3.

Unicast video transmission delivers a stream through point-to-point transmission; multicast, on the other hand, sends a stream to the multicast group address and allows multiple clients to acquire the stream at the same time by requesting a copy from the multicast group address. Therefore, enabling multicast can effectively save network bandwidth.

Multicast RTP video, audio port / multicast RTP video, audio port: The ports can be changed to values between 1024 and 65534. The multicast RTP port must be an even number and the multicast RTP port number of the multicast RTP port number plus one, and

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.

The screenshot shows the D-Link DCS-7000L web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various setup options, with 'Wireless Setup' selected. The main content area is titled 'WIRELESS SETUP' and contains the following configuration options:

- Enable Wireless:**
- Site Survey:**
- SSID:** default
- Wireless Mode:** Infrastructure
- Channel:** Auto
- Authentication:** Open
- Encryption:** Disable
- Default Key:** 1
- Key 1:** *****
- Key 2:** *****
- Key 3:** *****
- Key 4:** *****

Below the key fields, there is a note: "(5 or 13 ASCII, 10 or 26 HEX characters)". At the bottom of the configuration section, there are two buttons: 'Save Settings' and 'Don't Save Settings'. On the right side of the page, there is a 'Helpful Hints...' section with additional information about wireless networks and authentication options.

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.

The screenshot shows the D-Link web interface for the DCS-7000L. The main content area is titled "DYNAMIC DNS" and contains the following text:

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.

Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com.

Below this text are two buttons: "Save Settings" and "Don't Save Settings".

The "DYNAMIC DNS SETTING" section contains the following fields:

- Enable DDNS:
- Server Address: < < | -
- Host Name:
- User Name:
- Password:
- Verify Password:
- Timeout: (hours)
- Status: Inactive

At the bottom of the settings section are two buttons: "Save Settings" and "Don't Save Settings".

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.

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**.

Helpful Hints...

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

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

Mirror: This function horizontally reverses your images 180 degrees.

Flip: This function vertically reverses your images 180 degrees.

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

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

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

Max Gain: It can always

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.

The screenshot shows the D-Link DCS-7000L web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various setup options, with 'Image Setup' selected. The main content area is titled 'IMAGE SETUP' and contains a 'LIVE VIDEO' section with a 'Privacy Mask Setting' checkbox and a live video feed showing a dog on a couch. Below this is the 'IMAGE SETTINGS' section, which includes the following controls:

- Anti Flicker: On Off
- Mirror: On Off
- Flip: On Off
- Power Line: 60 Hz 50 Hz
- White Balance: Auto (dropdown)
- Exposure Mode: Auto (dropdown) Max Gain: 24 (dropdown) dB
- Denoise: 0 (dropdown)
- Brightness: 4 (dropdown)
- Contrast: 4 (dropdown)
- Saturation: 128 (dropdown)
- Sharpness: 4 (dropdown)

A 'Reset Default' button is located at the bottom of the settings section. The 'Helpful Hints' sidebar on the right provides detailed explanations for several features, including Privacy Mask, Anti Flicker, Mirror, Flip, Power Line, White Balance, Exposure Mode, and Max Gain.

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 active profiles: You can use the drop-down box to set up to 2 active 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, or H.264.

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

16:9 1280 x 720, 800 x 448, 640 x 360, 480 x 272, 320 x 176

4:3 960 x 720, 800 x 592, 640 x 480, 480 x 352, 320 x 240

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

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

D-Link

DCS-7000L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

AUDIO AND VIDEO
This section allows you to configure the sound and video of your camera. You can configure different settings depending on whether you are viewing content from a PC or a Mobile Phone / PDA.
Save Settings Don't Save Settings

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

VIDEO PROFILE 1
Mode: H.264
Frame size: 1280x720
View window area: 1280x720
Maximum frame rate: 30
Video quality: 1M
Constant bit rate: Excellent

VIDEO PROFILE 2
Mode: JPEG
Frame size: 640x360
View window area: 640x360
Maximum frame rate: 30
Video quality: Excellent

VIDEO PROFILE 3
Mode: H.264
Frame size: 640x360
View window area: 640x360
Maximum frame rate: 30
Video quality: 512K
Constant bit rate: Excellent

AUDIO SETTINGS
Audio in off
Audio in gain level: 20dB
Audio out off
Audio out volume level: 7
Save Settings Don't Save Settings

Helpful Hints...
Higher frame size, frame rate and bit rate gives better video quality. At the same time, it requires more network bandwidth.
For best viewing results on a mobile phone, we suggest setting the Frame Rate to 5fps and the Bit Rate to 64 kbps.
Aspect Ratio: An aspect ratio is the ratio between the width and height of an image.
Modes: It can be H.264, JPEG, or MPEG4. In JPEG mode, the video frames are independent; MPEG4 consumes much less network bandwidth than JPEG, and H.264 can use less bandwidth but better image quality.
Frame Size: 5 options exist for the sizes of the video display. It is recommended using 320x176 for mobile viewing and 1280x720 for computer viewing.
View window area: The viewing region of the current video stream.
Max frame rate: The maximum number of frames that is displayed in 1 second. 30fps is the highest video quality for this camera. In general, any frame rate above 15 fps is imperceptible to the human eye.
Video Quality: This limits the maximal refresh frame rate, which can be combined with the "Fixed quality" to optimize the bandwidth utilization and video quality. If the User wants to fix the bandwidth utilization regardless of the video quality, choose "Constant bit rate" and select the desired bandwidth.
Audio Settings: You can use the option to switch the external microphone on/off or adjust the volume.

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.

The screenshot displays the D-Link DCS-7000L web interface, specifically the 'AUDIO AND VIDEO' configuration page. The interface is organized into several sections:

- Navigation:** Includes tabs for LIVE VIDEO, SETUP (selected), ADVANCED, MAINTENANCE, STATUS, and HELP. A sidebar on the left lists various setup options like Setup Wizard, Network Setup, and Audio and Video.
- AUDIO AND VIDEO:** The main section title, with a warning: "Warning: Change the aspect ratio will clear the settings of privacy mask and preset and motion detection." It includes 'Save Settings' and 'Don't Save Settings' buttons.
- VIDEO SETTINGS:** Shows the current Aspect ratio as 16:9. Below this are three video profiles:
 - VIDEO PROFILE 1:** Mode: H.264, Frame size: 1280x720, View window area: 1280x720, Maximum frame rate: 30, Video quality: Excellent.
 - VIDEO PROFILE 2:** Mode: JPEG, Frame size: 640x360, View window area: 640x360, Maximum frame rate: 30, Video quality: Excellent.
 - VIDEO PROFILE 3:** Mode: H.264, Frame size: 640x360, View window area: 640x360, Maximum frame rate: 30, Video quality: Excellent.
- AUDIO SETTINGS:** Includes checkboxes for 'Audio in off' and 'Audio out off', and dropdown menus for 'Audio in gain level' (set to 20dB) and 'Audio out volume level' (set to 7).
- Helpful Hints...:** A sidebar on the right provides detailed information about frame rates, aspect ratios, video profiles, and audio 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.

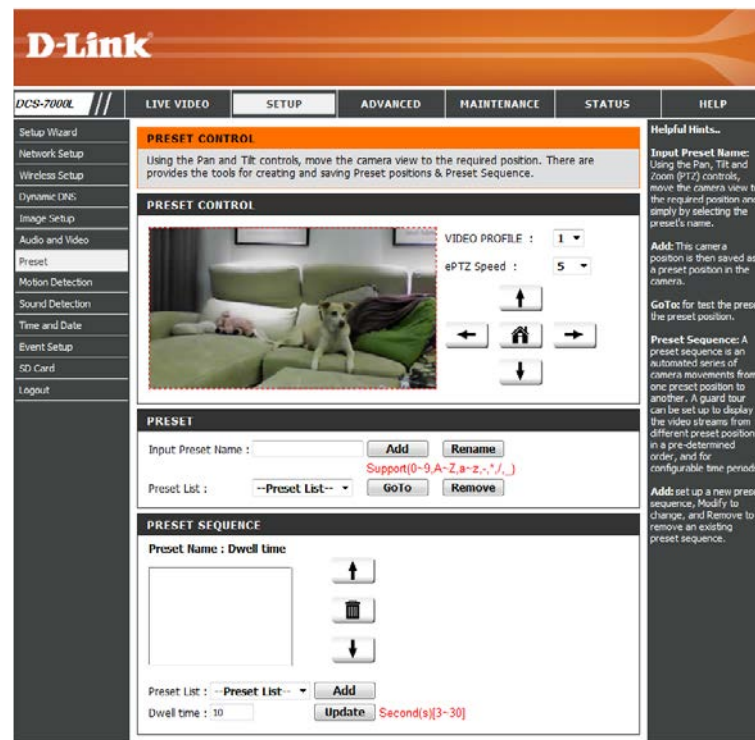
ePTZ Speed: You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.

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

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

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

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



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

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

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.

The screenshot displays the D-Link DCS-7000L web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various setup options, with 'Preset' selected. The main content area is divided into three sections:

- PRESET CONTROL:** This section features a live video feed of a dog on a couch. To the right of the video are controls for 'VIDEO PROFILE' (set to 1) and 'ePTZ Speed' (set to 5). Below these are directional arrow buttons for camera movement.
- PRESET:** This section contains an 'Input Preset Name' field with an 'Add' button and a 'Rename' button. Below it is a 'Preset List' dropdown menu with a 'GoTo' button and a 'Remove' button. A red error message 'Support[0-9 A-Z a-z . * / _]' is visible.
- PRESET SEQUENCE:** This section has a 'Preset Name : Dwell time' label above a list area. To the right of the list are up, trash, and down arrow buttons. At the bottom, there is a 'Preset List' dropdown, an 'Add' button, a 'Dwell time : 10' input field, and an 'Update' button with a red error message 'Second[s][3-30]'.

On the right side of the interface, there is a 'Helpful Hints...' section with instructions on how to use the 'Add', 'GoTo', and 'Preset Sequence' features.

Motion Detection

Enabling Video Motion will allow your camera to use the motion detection feature. You may define a 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.

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).

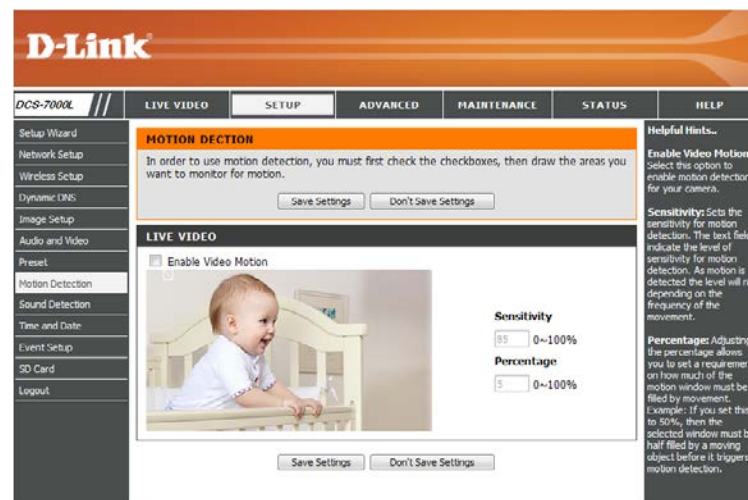
Erase Motion Area: To erase a motion detection area, simply click on the red square that you wish to remove.

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.



Sound Detection

Enabling Sound Detection will allow your camera to use the built-in microphone to trigger events with audio. If this option is selected, the trigger by option under SD recording, Video Clip, or Snapshot should also be selected. After making any changes, click the **Save Settings** button to save your changes.

Enable Sound Detection: Check this box to enable the motion detection feature of your camera.

Detection Level: Specifies the measurable level that would indicate sound. Please enter a value between 50 and 90, the higher the number the more sensitive the camera will be to sound.

The screenshot displays the D-Link DCS-7000L web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The left sidebar lists various setup options, with 'Sound Detection' highlighted. The main content area is titled 'SOUND DETECTION' and contains the following text: 'In order to enable your camera Sound Detection, you must select the checkbox of 'Sound Detection' and configure the Detection Level setting of your camera for your detection environment.' Below this text are two buttons: 'Save Settings' and 'Don't Save Settings'. A checkbox labeled 'Sound Detection' is currently unchecked. The 'Detection Level' is set to '80' in a dropdown menu. A graph shows a horizontal red line at the 80 dB level on a scale from 40 to 100 dB. The x-axis is labeled 'Time'. At the bottom of the graph area are two buttons: 'Save Settings' and 'Don't Save Settings'. On the right side, there is a 'Helpful Hints...' section with text explaining that Sound Detection detects sound events using the microphone and that the Detection Level sets the algorithm to trigger sound events, with lower levels making small sounds easier to detect.

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-7000L with an Internet time server. Choose the one that is closest to your location.

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

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

The screenshot shows the D-Link DCS-7000L web interface. The main content area is titled "TIME AND DATE" and contains the following sections:

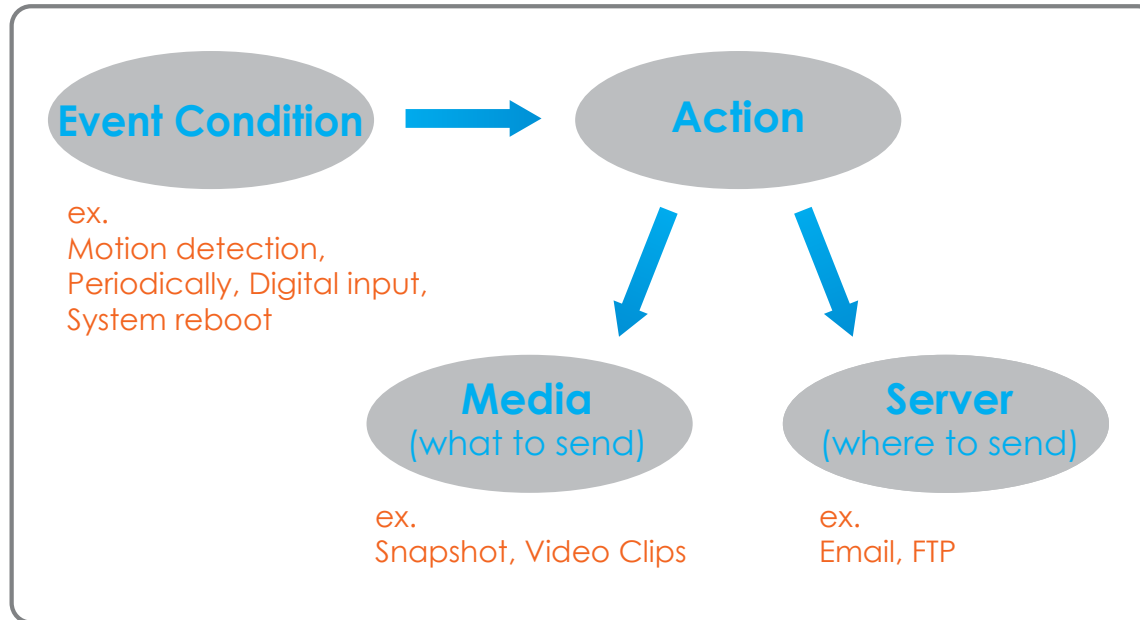
- TIME AND DATE:** A header section with a "Save Settings" and "Don't Save Settings" button.
- TIME CONFIGURATION:**
 - Time Zone: (UTC-08:00) Pacific Time (US & Canada)
 - Enable Daylight Saving
 - Auto Daylight Saving
 - Set date and time manually
 - Offset: +2:00
 - Start time: Month 5, Week 1, Day of week Sunday, Hour 00, Minutes 00
 - End time: Month 10, Week 1, Day of week Sunday, Hour 00, Minutes 00
- AUTOMATIC TIME CONFIGURATION:**
 - Synchronize with NTP Server
 - NTP Server: ntp.dlink.com.tw
- SET DATE AND TIME MANUALLY:**
 - Set date and time manually
 - Year: 2014, Month: 1, Day: 2
 - Hour: 4, Minute: 9, Second: 53
 - Copy Your Computer's Time Settings button

On the right side, there are several help sections:

- Helpful Hints:** Good timekeeping is important for accurate logs and scheduled firewall rules.
- Time Zones:** Select your time zone from the drop-down menu.
- Enable Daylight Saving:** Select this to enable the daylight saving time.
- Auto Daylight Saving:** When you select it, the clock is automatically adjusted according to the daylight saving time of the selected time zone.
- Offset:** Select the time offset, if your location observes daylight saving time.
- Synchronize with NTP Server:** With the option selected, the camera will synchronize the time settings with the NTP server over the Internet whenever the camera starts up. If the timeserver cannot be reached, no time settings will be applied.
- NTP Servers:** Network Time Protocol (NTP) synchronizes the IP camera with an Internet time server. Choose the one that is closest to your location.
- Copy Your Computer's Time Settings:** This will synchronize the time information from your PC.

Event Setup

In a typical application, when motion is detected, the DCS-7000L 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-7000L 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-7000L will know what action shall be performed when a trigger is activated.

Section 4: Configuration

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.

D-Link

DCS-7000L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

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
<input type="button" value="Add"/>	<input type="button" value="Delete"/>	

MEDIA

Name	Type	Source
<input type="button" value="Add"/>	<input type="button" value="Delete"/>	

EVENT

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Trigger
<input type="button" value="Add"/>	<input type="button" value="Delete"/>									

RECORDING

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Source	Destination
<input type="button" value="Add"/>	<input type="button" value="Delete"/>										

Helpful Hints...

Suggest setting server and media first before setting event. The servers and media which selected in event list are not be able to modify or delete. Please remove them first from the event if you want to delete or modify them. Recommend using different media in different event to make use all media be produced and received correctly. If using the same media in different events and the events trigger almost simultaneously, the servers in the second triggered event will not receive any media; there would be only notifications.

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

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

D-Link

DCS-7000L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

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 address

Server address

User name

Password

Port

This server requires a secure connection (StartTLS)

FTP

Server address

Port

User name

Password

Remote folder name

Passive mode

Network storage

Network storage location

(for example: \\my_nas\dsk1\folder)

Workgroup

User name

Password

Primary WINS server

SD Card

Test Save Settings Don't Save Settings

Helpful Hints...

"Server name" The unique name for server. There are four kinds of servers supported. They are email server, FTP server, HTTP server and network storage.

Email server: "Sender email address" The email address of the sender. "Recipient email address" The email address of the recipient.

FTP server: "Remote folder name" Granted folder on the external FTP server. The string must conform to that of the external FTP server. Some FTP servers cannot accept preceding slash symbol before the path without its last path. Refer to the instructions for the external FTP server for details. The folder privilege must be open for upload.

"Passive Mode" Check it to enable passive mode in transmission.

Network storage: Only one network storage is supported.

"Network storage location" The path to upload the media.

"Workgroup" The workgroup for network storage.

SD card: Use the SD card for recording media.

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 image(s) [0~3]: 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 name: Check it to add timing information as file name suffix.

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

Source: Set the video profile to use as the media source. Refer to "Audio and Video" on page 51 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 3 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.

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DCS-7000L // LIVE VIDEO **SETUP** ADVANCED MAINTENANCE STATUS HELP

MEDIA

You can set at most 5 different media here for different event.

Save Settings Don't Save Settings

MEDIA TYPE

Media name:

Snapshot

Source: Profile 1

Send 1 pre-event image(s) [0~3]

Send 1 post-event image(s) [0~7]

File Name Prefix:

Add date and time suffix to file name

Video Clip

Source: Profile 1

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

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

Maximum file size: Kbytes [100~5000]

File Name Prefix:

System log

Save Settings Don't Save Settings

Helpful Hints...

"Media name" The unique name for media. There are three kinds of media. They are snapshot, video clip and system log.

Snapshot:

"Source" The source of profile, profile1 or profile2.

"Send Pre-event images" The number of pre-event images.

"Send Post-event images" The number of post-event images.

"File name prefix" The prefix name will be added on the file name of the snapshot images.

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

Video clip:

"Source" The source of profile, profile1 or profile2.

"Pre-event recording" The interval of pre-event recording in seconds. There are two limitations for video clip file.

"Maximum duration" The maximal recording file duration in seconds.

"Maximum file size" The maximal file size would be generated.

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 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 both events of motion detection and digital input trigger.

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

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

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

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

Sound Detection: Triggers an event when sound is detected.

Schedule: This option allows you to schedule the event manually.

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: Scheduling the recording entry.

Recording settings: Configuring the setting for the recording.

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

Total cycling recording size: Input a value between 200 MB and 2000000 MB (2 TB) for the space allocated to recording. New recordings will replace the oldest recording when the total recording size exceeds this value.

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).

D-Link

DCS-7000L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

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

Time

Always

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 Mbytes

Time of each file for recording: 10 seconds

File Name Prefix:

Save Settings Don't Save Settings

Helpful Hints...

Recording: Enable this option if you want to upload the recording to a shared folder on the network.

Recording schedule: Select the day(s) according to when you want the IP camera to make a video clip.

Always: This enables the IP camera to make video clips continuously.

From: The time range specified for the video clip.

Total cycling recording size: Please input the network path of your network storage, it will like: \\[DNS IP]CamRecord*. If the network storage need authentication, please enter your user name and password here.

Note: Please Format SD card before use. The entire data in the SD card will be erased after formatting.

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.

The screenshot shows the D-Link DCS-7000L web interface. The main content area is titled "SD CARD" and contains the following information:

SD Card: / SD Status: Ready
Files per Page: 10 Refresh 1 of 1

Delete	File	Num of files	Size
<input type="checkbox"/>	Picture	8	
<input type="checkbox"/>	Video	1	

Format SD Card Total: 119247KB, Used: 23848KB, Free: 87399KB
OK

Helpful Hints...
Format SD Card: Click this icon, system will automatically format SD card and create "picture" & "video" folders.
View recorded picture: If SD stored recorded picture files, enter picture link and choose which picture file you desire to view. You will view picture via image viewer SW. (e. Windows Image Viewer)
Playback recorded video: If SD stored recorded video files, enter video link and choose which video file you desire to playback. Windows will guide you to open/download video file (.AVI format) so that you can playback file via video decoder SW (e. Windows Media Player)

Advanced

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.

Day Mode: Day mode enables the IR Cut Filter.

Night Mode: Night mode disables the IR Cut Filter.

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

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

Off: The IR light will always be off.

On: The IR light will always be on.

Sync: The IR light will turn on when the ICR sensor is on.

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

D-Link

DCS-7000L // LIVE VIDEO SETUP **ADVANCED** MAINTENANCE STATUS HELP

ICR AND IR

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.

IR Light
The built-in IR light illuminators will be activated automatically or manually so as to supplement the low light situation without additional equipment.

Save Settings Don't Save Settings

ICR

Removable IR-Cut filter trigger condition:

Automatic Sensitivity: Medium: <20lux over 30 lux Refresh

Day mode

Night mode

Schedule mode

Day mode(24hr)
From 07:00 To 18:00

IR LIGHT

IR Light Control: Medium

Off

On

Sync. With ICR

Schedule

IR Light Control On(24hr)
From 07:00 To 18:00

Save Settings Don't Save Settings

Helpful Hints...

ICR and IR:

Automatic: The Day/Night mode is set automatically. It is normally set in the Day mode and changes to the Night mode in a dark place.

Day mode: The Day mode means enable the IR Cut Filter.

Night mode: The Night mode means enable the IR Cut Filter.

Schedule mode: Set the Day/Night mode using the schedule. Fill in the time so the Day/Night mode is normally set to Day mode and it enters the Day mode at the start time and returns to the Night mode at the end time.

IR Light Control
In poor light conditions, open IR Light Control to automatically turn on the light to enable you to take clear picture. The IR Light Control has 4 options: Off, On, Sync. with ICR, and Schedule. Off: This option disable the IR Light Control. On: This option automatically opens the IR Light Control to enable a camera to take clear images in poor light conditions. Sync. with ICR: In this option, the IR Light Control will open automatically and follow the ICR settings. Schedule: In this option, you have to customize the setting to set the time period you want. Please set the Start time and the End time of your chosen schedule.

HTTPS

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

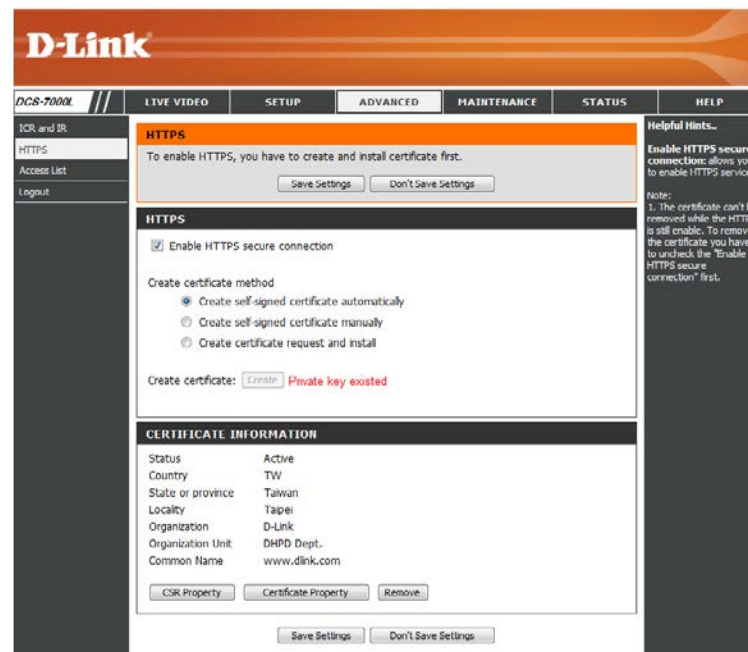
Enable HTTPS Secure Connection: Enable the HTTPS service.

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

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

Status: Displays the status of the certificate.

Note: The certificate cannot be removed while 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-7000L.

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.

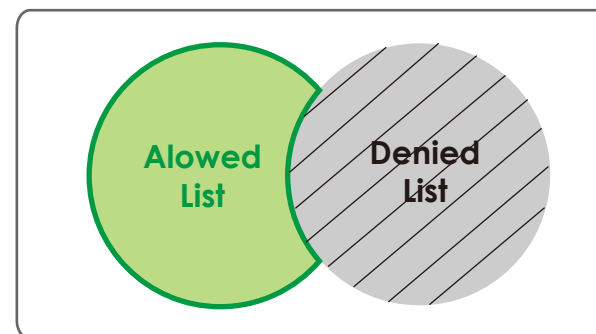
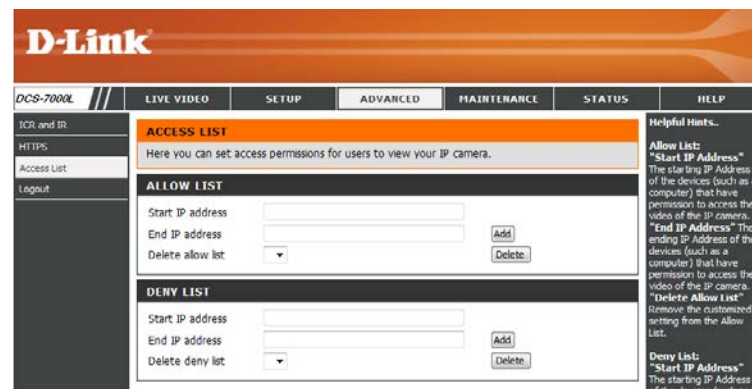
Delete allow list: Remove the customized setting from the Allow List.

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-7000L.



Maintenance

Device Management

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

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

Add User Account: Add 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.

D-Link

DCS-7000L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Admin System Firmware Upgrade Logout

ADMIN

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

ADMIN PASSWORD SETTING

New Password 32 characters maximum
Retype Password Save

ADD USER ACCOUNT

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

USER LIST

User Name -- User list -- Delete

DEVICE SETTING

IP Camera Name DCS-7000L 63 characters maximum
 Enable OSD
Label DCS-7000L 30 characters maximum
Show Time
Save

LED

LED On Off Save

Helpful Hints...

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

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

LED: In the rear panel of your camera there is a LED beside the network adapter. On: The LED will flash a light to indicate if the network is working or not. OFF: No light will show, forth option is turn off.

Privacy Control: Allow you to configure if camera could enter Privacy mode or not.

Privacy Off: Camera is in a normal operating mode.

Privacy On: Camera is in a Privacy mode. Live Video, Video Clip, Snapshot and SD Recording will be turned off.

System

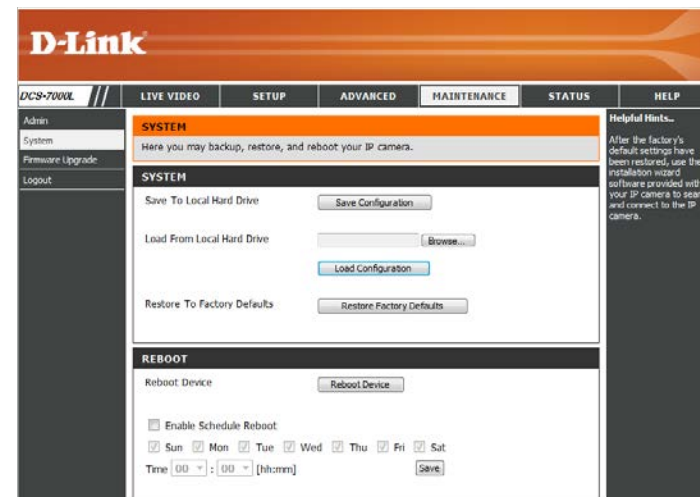
In this section, you may backup, restore and reset the camera configuration, or reboot the camera.

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.



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.

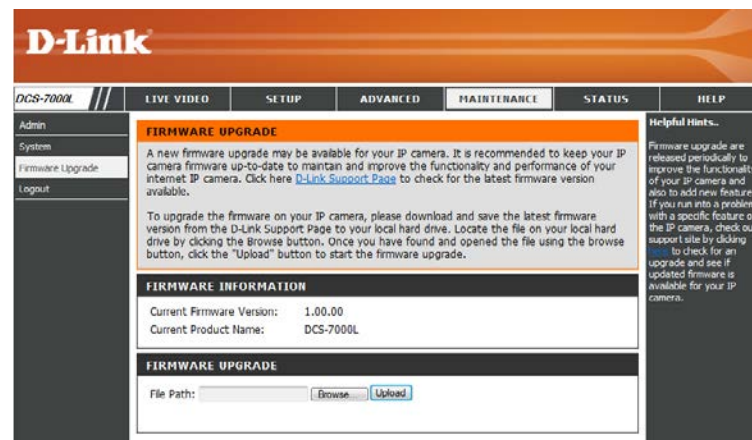
To upgrade the firmware on your DCS-7000L, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the **Browse** button. Select the file and click the **Upload** button to start upgrading the firmware.

Current Firmware Version: Displays the detected firmware version.

Current Product Name: Displays the camera model name.

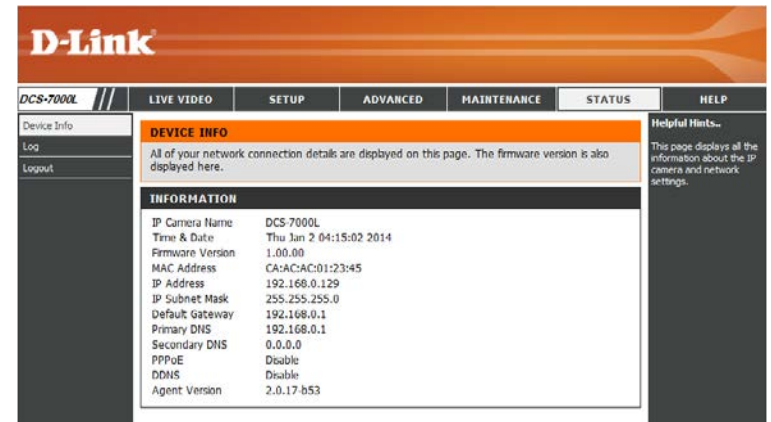
File Path: Locate the file (upgraded firmware) on your hard drive by clicking **Browse**.

Upload: Uploads the new firmware to your camera.



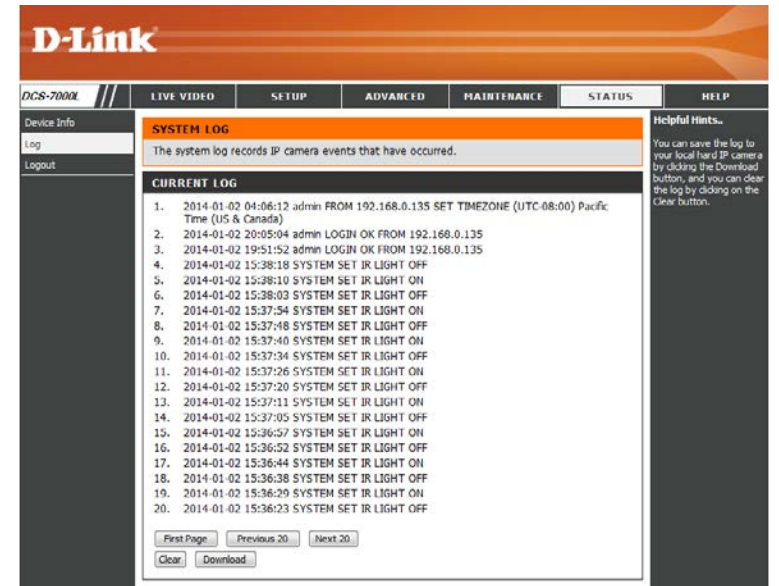
Status Device Info

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.



D-Link

DCS-7000L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Device Info
Log
Logout

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

CURRENT LOG

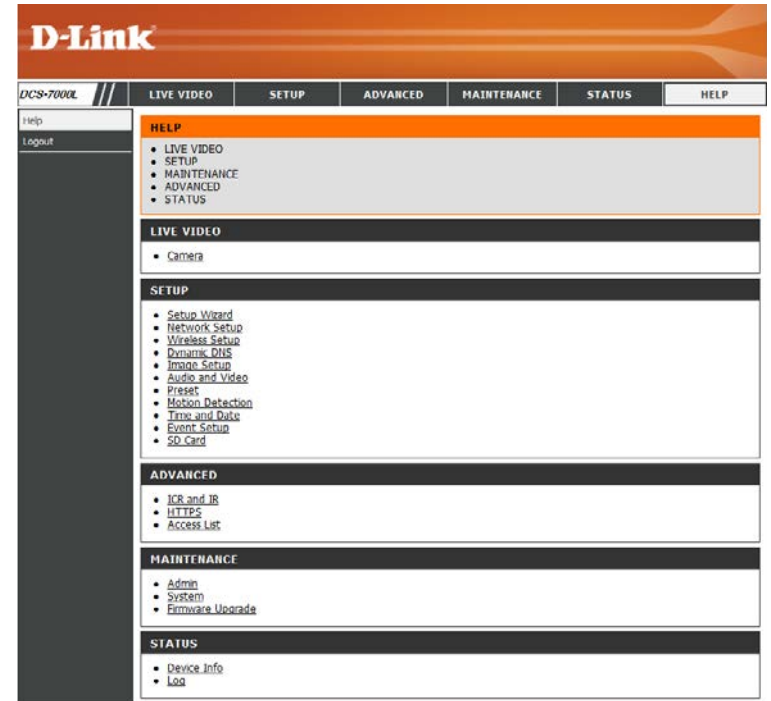
1. 2014-01-02 04:06:12 admin FROM 192.168.0.135 SET TIMEZONE (UTC-08:00) Pacific Time (US & Canada)
2. 2014-01-02 20:05:04 admin LOGIN OK FROM 192.168.0.135
3. 2014-01-02 19:51:52 admin LOGIN OK FROM 192.168.0.135
4. 2014-01-02 15:38:18 SYSTEM SET IR LIGHT OFF
5. 2014-01-02 15:38:10 SYSTEM SET IR LIGHT ON
6. 2014-01-02 15:38:03 SYSTEM SET IR LIGHT OFF
7. 2014-01-02 15:37:54 SYSTEM SET IR LIGHT ON
8. 2014-01-02 15:37:48 SYSTEM SET IR LIGHT OFF
9. 2014-01-02 15:37:40 SYSTEM SET IR LIGHT ON
10. 2014-01-02 15:37:34 SYSTEM SET IR LIGHT OFF
11. 2014-01-02 15:37:26 SYSTEM SET IR LIGHT ON
12. 2014-01-02 15:37:20 SYSTEM SET IR LIGHT OFF
13. 2014-01-02 15:37:11 SYSTEM SET IR LIGHT ON
14. 2014-01-02 15:37:05 SYSTEM SET IR LIGHT OFF
15. 2014-01-02 15:36:57 SYSTEM SET IR LIGHT ON
16. 2014-01-02 15:36:52 SYSTEM SET IR LIGHT OFF
17. 2014-01-02 15:36:44 SYSTEM SET IR LIGHT ON
18. 2014-01-02 15:36:38 SYSTEM SET IR LIGHT OFF
19. 2014-01-02 15:36:29 SYSTEM SET IR LIGHT ON
20. 2014-01-02 15:36:23 SYSTEM SET IR LIGHT OFF

First Page Previous 20 Next 20
Clear Download

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

Help

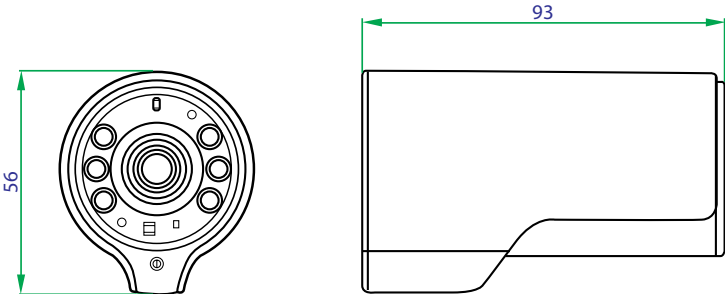
This page provides helpful information about using and configuring your camera.



Technical Specifications

Camera	Camera Hardware Profile	<ul style="list-style-type: none"> ▪ 1/4" Megapixel progressive CMOS sensor ▪ 8 meter IR illumination distance ▪ Minimum illumination 0 Lux with IR LED on ▪ Built-in Infrared-Cut Removable (ICR) filter module ▪ Built-in Audio in / Audio out ▪ Minimum object distance: 200 mm ▪ 10x digital zoom 	<ul style="list-style-type: none"> ▪ Fixed length 2.4 mm ▪ Aperture f/2.0 ▪ Angle of view: <ul style="list-style-type: none"> ▪ (H) 98° ▪ (V) 52° ▪ (D) 115°
	Image Features	<ul style="list-style-type: none"> ▪ Configurable image size, quality, frame rate, and bit rate ▪ Time stamp and text overlays ▪ Configurable motion detection windows 	<ul style="list-style-type: none"> ▪ Configurable privacy mask zones ▪ Configurable shutter speed, brightness, saturation, contrast, sharpness
	Video Compression	<ul style="list-style-type: none"> ▪ Simultaneous H.264 / MJPEG format compression ▪ H.264 multicast streaming 	<ul style="list-style-type: none"> ▪ JPEG for still images
	Video Resolution	<ul style="list-style-type: none"> ▪ 16:9 - 1280x720, 800x448, 640x360, 480x272, 320x176 up to 30 fps recording¹ 	<ul style="list-style-type: none"> ▪ 4:3 -960x720, 800x592, 640x480, 480x352, 320x240 up to 30 fps recording¹
	Audio Compression	<ul style="list-style-type: none"> ▪ AAC 	<ul style="list-style-type: none"> ▪ G.711
	External Device Interface	<ul style="list-style-type: none"> ▪ 10/100 BASE-TX Fast Ethernet port ▪ IEEE 802.11a/b/g/n/ac 2.4 GHz, 5 GHz dual-band wireless 	<ul style="list-style-type: none"> ▪ microSD card slot²
Network	Network Protocols	<ul style="list-style-type: none"> ▪ IPv6 ▪ IPv4 ▪ TCP/IP ▪ UDP ▪ ICMP ▪ DHCP client ▪ NTP client (D-Link) ▪ DNS client ▪ DDNS client (D-Link) ▪ SMTP client ▪ FTP client ▪ HTTP / HTTPS 	<ul style="list-style-type: none"> ▪ Samba client ▪ PPPoE ▪ UPnP port forwarding ▪ RTP / RTSP/ RTCP ▪ IP filtering ▪ QoS ▪ CoS ▪ Multicast ▪ IGMP ▪ SNMP (Phase II) ▪ ONVIF compliant
	Security	<ul style="list-style-type: none"> ▪ Administrator and user group protection ▪ Password authentication 	<ul style="list-style-type: none"> ▪ HTTP and RTSP digest authentication

Appendix B: Technical Specifications

System Management	System Requirements for Web Interface	<ul style="list-style-type: none"> Operating System: Microsoft Windows® 8/7/Vista/XP, or Mac with OS X 10.6 or higher 	<ul style="list-style-type: none"> Browser: Internet Explorer 7, Firefox 12, Safari 6, or Chrome version 20 or higher with Java installed and enabled
	Event Management	<ul style="list-style-type: none"> Motion detection Event notification and uploading of snapshots/video clips via email or FTP 	<ul style="list-style-type: none"> Supports multiple SMTP and FTP servers Multiple event notifications
	Remote Management	<ul style="list-style-type: none"> Take snapshots/video clips and save to local hard drive via web browser 	<ul style="list-style-type: none"> Configuration interface accessible via web browser
	Mobile Support	<ul style="list-style-type: none"> mydlink Lite/mydlink+ mobile app for iPhone, iPad, and Android mobile devices 	
	D-ViewCam™ System Requirements	<ul style="list-style-type: none"> Operating System: Microsoft Windows 8/7/Vista/XP Web Browser: Internet Explorer 7 or higher 	<ul style="list-style-type: none"> Protocol: Standard TCP/IP
	D-ViewCam™ Software Functions	<ul style="list-style-type: none"> Remote management/control of up to 32 cameras Viewing of up to 32 cameras on one screen 	<ul style="list-style-type: none"> Supports all management functions provided in web interface Scheduled motion triggered, or manual recording options
General	Weight	<ul style="list-style-type: none"> 115 grams 	
	External Power Adaptor	<ul style="list-style-type: none"> Input: 100 to 240 V AC, 50/60 Hz 	<ul style="list-style-type: none"> Output: 5 V DC, 1.2 A, 50/60 Hz
	Power Consumption	<ul style="list-style-type: none"> 3.5 watts 	
	Temperature	<ul style="list-style-type: none"> Operating: 0 to 40 °C (32 to 104 °F) 	<ul style="list-style-type: none"> Storage: -20 to 70 °C (-4 to 158 °F)
	Humidity	<ul style="list-style-type: none"> Operating: 20% to 80% non-condensing 	<ul style="list-style-type: none"> Storage: 5% to 95% non-condensing
	Certifications	<ul style="list-style-type: none"> CE CE LVD 	<ul style="list-style-type: none"> FCC C-Tick
Dimensions			

¹ Frame rates when streaming video may vary depending on network conditions and method used.

² An SD / SDHC card of Class 6 or above is recommended. Supports card capacities up to 32 GB.

FCC Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

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

CAUTION:

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

RF exposure warning

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

For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment. This device meets all the other requirements specified in Part 15E, Section 15.407of the FCC Rules.

Canada Notices

Industry Canada regulatory information

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF exposure warning

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

Cet équipement doit être installé et utilisé conformément aux instructions fournies et de l'antenne (s) utilisé pour cet émetteur doit être installé pour fournir une distance de séparation d'au moins 20 cm de toute personne et ne doit pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur. Les utilisateurs finaux et installateurs doivent être fournir des instructions d'installation de l'antenne et des conditions de fonctionnement du transmetteur de la conformité sur l'exposition aux RF

CAUTION:

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Avertissement:

Les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;