Version 1.2 | 04/09/2013

D-Link[®]



User Manual

HD Mini Bullet Outdoor Network Camera

DCS-7010L

Preface

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

Manual Revisions

Revision	Date	Description
1.1	August 23, 2012	DCS-7010L Revision A1 with firmware version 1.00
1.2	April 09, 2013	modify mydlink function section

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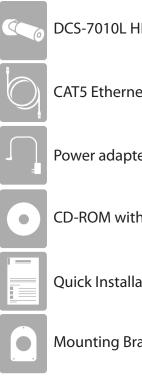
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Product Overview Package Contents



DCS-7010L HD Mini Bullet Outdoor Network Camera

CAT5 Ethernet cable

Power adapter

CD-ROM with User Manual and software

Ouick Installation Guide

Mounting Bracket and Mounting Kit

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

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



Introduction

Congratulations on your purchase of the DCS-7010L HD Mini Bullet Outdoor Network Camera. The DCS-7010L is a versatile and unique solution for your small office or home. Unlike a standard webcam, the DCS-7010L is a complete system with a built-in CPU and web server that transmits high quality video images for security and outdoor surveillance. The DCS-7010L can be accessed remotely, and controlled from any PC/Notebook over your local network or through the Internet via a web browser. The simple installation and intuitive web-based interface offer easy integration with your Ethernet/Fast Ethernet network. The DCS-7010L weatherproof housing and Power over Ethernet make it an ideal solution for a complete and cost-effective surveillance solution with an easy clutter-free installation. The remote monitoring, infrared, motion detection and event notifications features enable you be truly responsive to your surveillance deployment.

System Requirements

- Computer with Microsoft Windows® 7/8/Vista/XP, or Mac with OS X 10.6 or higher
- PC with 1.3GHz or above; at least 128MB RAM
- Internet Explorer 7, Firefox 12, Safari 4, or Chrome 20 or higher version with Java installed and enabled
- Existing 10/100 Ethernet-based network or 802.11n wireless network
- A MicroSD memory card (optional) is required for recording to onboard storage. SDHC Class 6 or above is recommended.
- Broadband Internet connection

Features

Simple to Use

The DCS-7010L is a stand-alone system with a built-in CPU, requiring no special hardware or software. The DCS-7010L supports both ActiveX mode for Internet Explorer and Java mode for other browsers such as Firefox[®] and Safari[®].

Supports a Variety of Platforms

Supporting TCP/IP networking, HTTP, and other Internet related protocols. The DCS-7010L can also be integrated easily into other Internet/Intranet applications because of its standards-based features. The DCS-7010L offers Ethernet/Fast Ethernet connectivity, making the DCS-7010L easy to integrate into your existing network environment. The DCS-7010L works with a 10Mbps Ethernet based network or 100Mbps Fast Ethernet based network for traditional wired environments.

Web Configuration

Using a standard Web browser, administrators can configure and manage the Network Camera directly from its own Web page via Intranet or Internet. This means you can access your DCS-7010L anytime, anywhere in the world.

Broad Range of Applications

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

Remote Monitoring Utility

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

IR LED for Day and Night Functionality

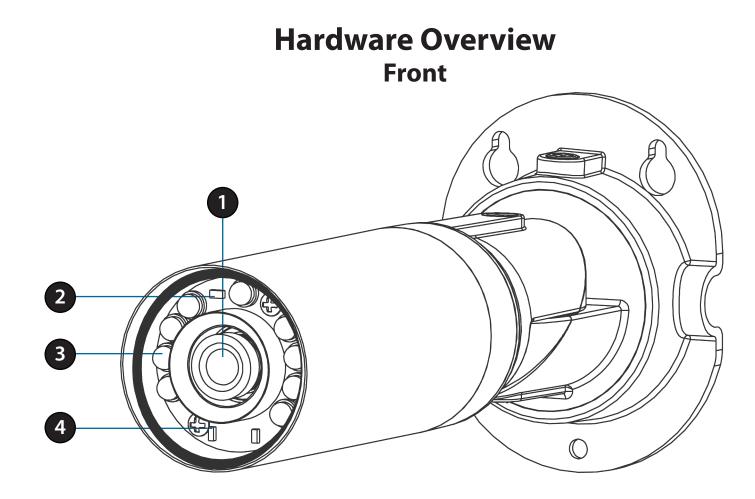
The built-in infrared LEDs enables night time viewing of up to 32 feet (10 meters).

IP66 Weatherproof Housing

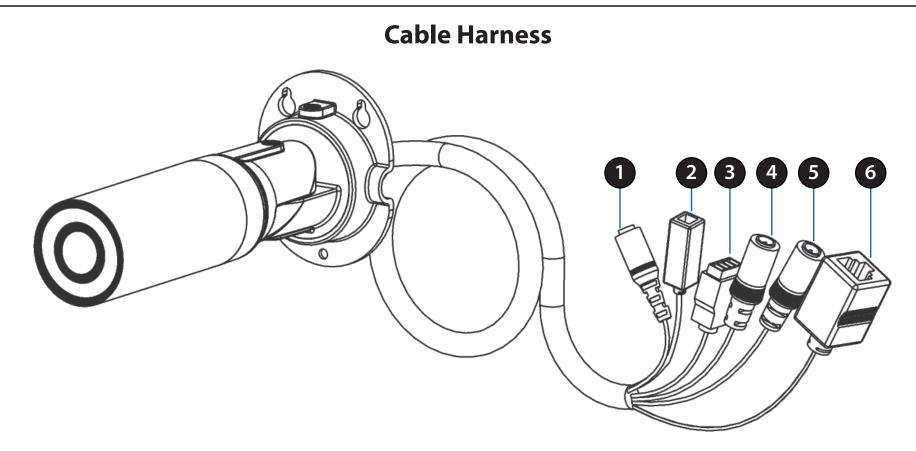
The DCS-7010L uses an IP66 weatherproof housing, allowing you to rest assured that in the toughest of conditions, it will continue to provide round-the-clock surveillance.

PoE (Power over Ethernet) for Flexible Installation

The DCS-7010L can draw all the power it needs from a powered Ethernet port meaning installation is simple and clutter free.

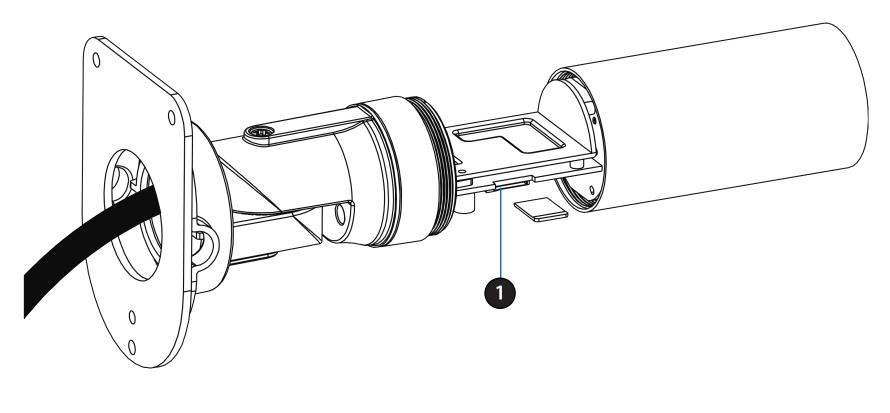


1	Camera Lens	Records video of the surrounding area
2	ICR Sensor	The IR-Cut Removable sensor measures the lighting conditions and switches between color and infrared accordingly
3	IR LEDs	Infrared LEDs illuminate the camera's field of view at night
4	Power/Status LED	Indicates the camera's current status



1	Power Connector	Power receptor for the provided power adapter
2	Reset Button	Press and hold the recessed button for 10 seconds to reset the camera
3	DI/DO Connector	I/O connectors for external devices
4	Audio Out (Green)	Connects to a speaker
5	Audio In (Red)	Connects to a microphone
6	Ethernet Port	Connects to an RJ45 Ethernet cable or PoE cable to connect to your network

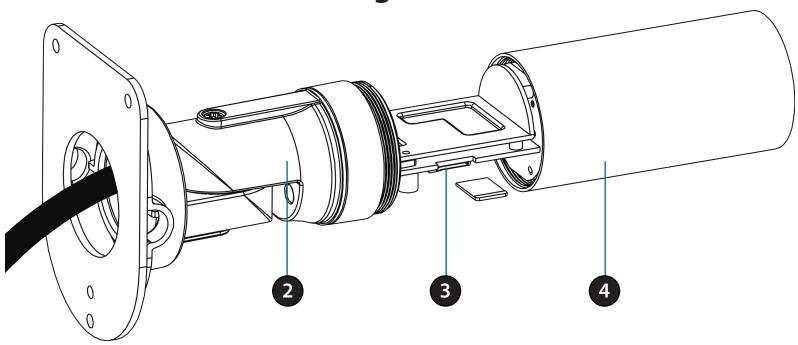
Internal



1	Micro SD Card Slot	Insert a MicroSD card for Local storage for storing recorded image and video
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Note: For step-by-step instruction on how to insert an SD card please skip to "Installing an SD Card" on page 11.

Installing an SD Card



Step 1:

Place the camera face down on a non-slip flat surface.

Step 2:

Unscrew the weatherproof sheath by holding the base of the camera firmly and rotating the barrel counter-clockwise. Exercise caution when removing the weatherproof sheath to avoid damaging the internal components.

Step 3:

Insert your MicroSD card into the slot with the notch oriented to the rear of the camera.

Step 4:

Replace the weatherproof sheath ensuring a tight fit.

Note: To ensure that the camera stays weatherproof, users are advised to ensure that the weatherproof sheath is secured firmly in place.

Installation Zero Configuration Setup

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

Connect your camera to your mydlink-enabled Cloud Router and Zero Configuration will automatically configure your DCS-7010L and automatically add the camera to your mydlink account. After the short time it takes to do this you can remotely access your camera from the www.mydlink.com website to manage and monitor your DCS-7010L.

Connect the Ethernet Cable

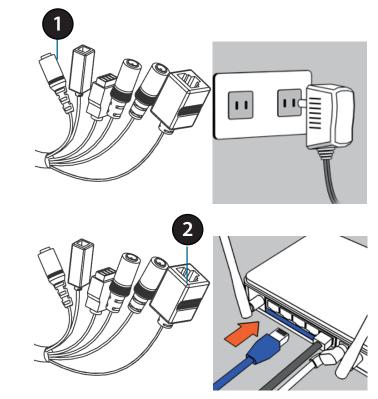
Connect the provided Ethernet cable to the cable harness Ethernet coupler .

Connect the other end of the provided Ethernet cable to your network.

Attach the External Power Supply

Attach the external power supply to the cable harness power coupler. Connect the adapter to a wall outlet or power strip.

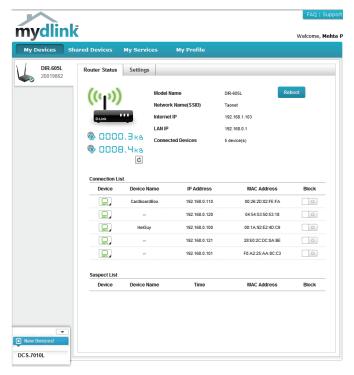
1	Power Cable	Pre attached power cable
2	Ethernet Cable	Pre attached Ethernet cable



Check Your mydlink Account

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

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



Confirming New Device

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

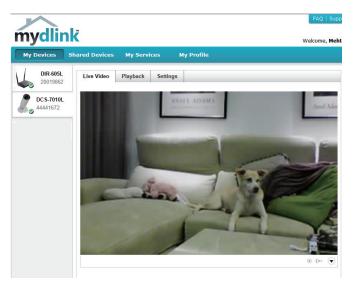
Device Name: DCS-7010L mydlink Number: 44441252 Network name (SSID): ddddddd Admin Password: oic953XZ

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



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

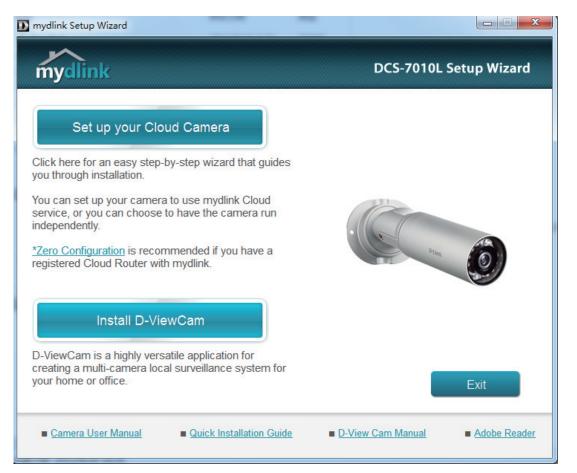
Your camera is now set up, and you can skip to "mydlink" on page 21 to learn more about the mydlink features of this camera, or to "Configuration" on page 37 for advanced configuration of your camera.



Camera Installation Wizard Windows Users

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

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



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

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Mac Users

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



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



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

Manual Hardware Installation

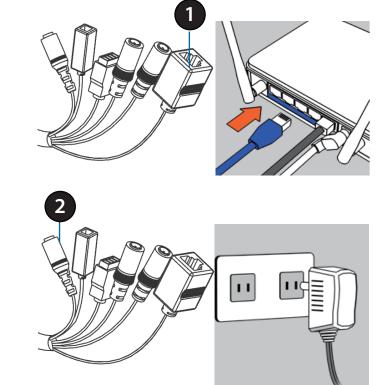
If you wish to set up your camera without using the Camera Setup Wizard, please follow these steps.

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

Connect the Ethernet Cable

Connect the provided Ethernet cable to the cable harness Ethernet coupler .

Connect the other end of the provided Ethernet cable to your network.



Attach the External Power Supply

Attach the external power supply to the cable harness power coupler. Connect the adapter to a wall outlet or power strip.

1	Ethernet Cable	Pre attached Ethernet cable
2	Power Cable	Pre attached power cable

Mounting the Camera

The DCS-7010L is suitable for mounting to a wall using the bracket provided.

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

Step 1

Position the mounting bracket in the desired location.

Step 2

Mark the surface behind the mounting bracket with a pencil

Step 3

Use a 6mm drill bit to make required holes approximately 25mm deep.

Step 4

Insert wall anchors and affix the bracket using the screws provided.

Step 5

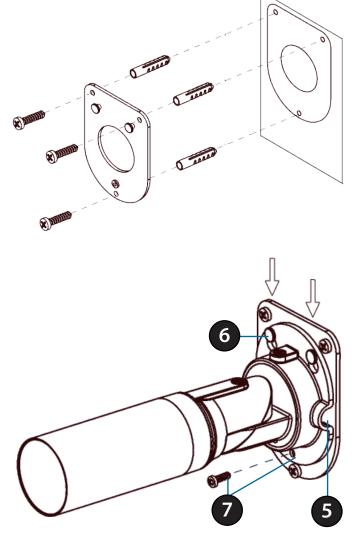
Ensure the cable is seated in the cable channel.

Step 6

Suspend the camera from the two protruding studs near the top of the mounting bracket.

Step 7

Insert and tighten the remaining screw into the hole on the camera base.



Positioning the Camera

The DCS-7010L can be adjusted to ensure optimal viewing when mounted by following the steps outlined..

Step 1

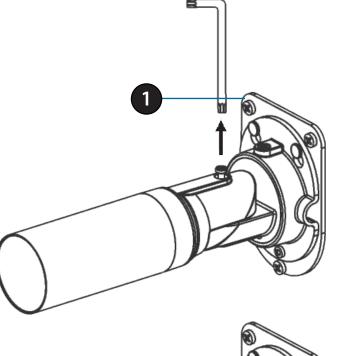
Using a Torx Security screwdriver, loosen the screw on the top of the camera housing.

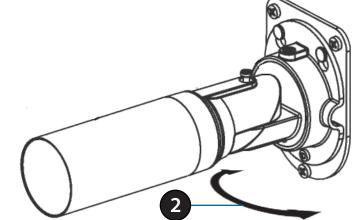
Step 2

Swivel the camera along it's horizontal axis until you achieve the desired angle.

Step 3

Using a Torx Security screwdriver, tighten the screw on the top of the camera housing firmly.



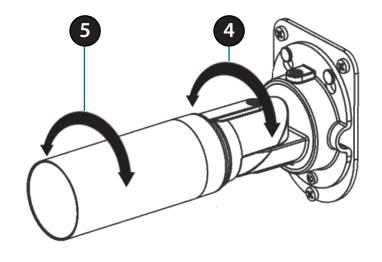


Step 4

Rotate the camera around its vertical axis by adjusting the base.

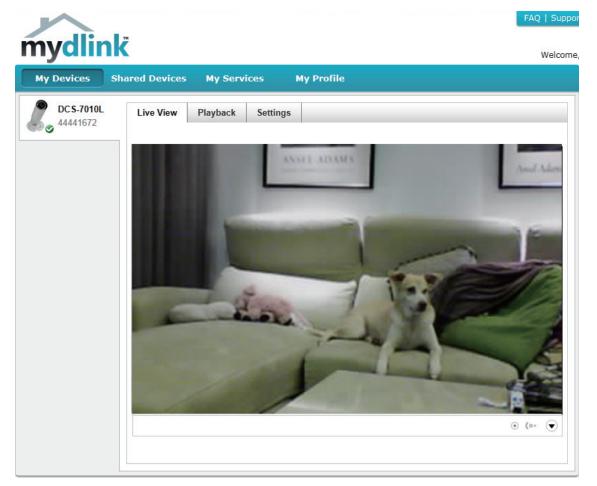
Step 5

Rotate the camera to adjust for positioning by rotating the barrel.



mydlink

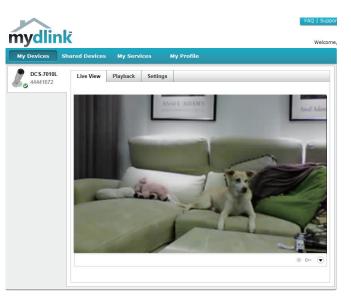
After registering your DCS-7010L camera with a mydlink account in the Camera Installation Wizard. You will be able to remotely access your camera from the www.mydlink.com website. After signing in to your mydlink account, you will see a screen similar to the following:



Note: The above screenshot is representative only. The mydlink website is constantly improving and so may appear different.

Live Video

In the main part of the screen, the Live Video tab will be selected by default. If the camera is available, a Live Video feed will be displayed. Video will be shown at VGA resolution (640x480) if viewing your camera from a PC on the same local network, or at QVGA resolution (320x240) if viewing your camera from a PC on a remote network.



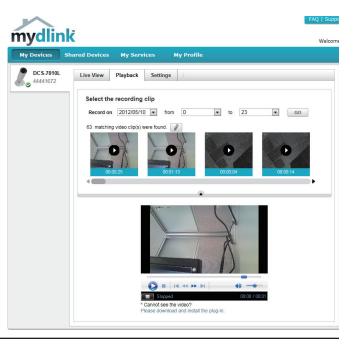
\overline{ullet}	Options Toggle	Click on this icon to to reveal the various Live View options.
(0-	Motion Detection	This icon indicates whether motion detection is in process.
۲	Recording	This icon indicates whether recording is in process.
	Snapshot	Click on this button to take a snapshot from the video stream.
	Day/Night Mode	Click on this button to engage the infrared
	Audio	Click on this button to toggle the audio stream on or off.
€≎	Brightness	Adjust the slider control to account for brightness.
ୠୠ	Zoom	Adjust the slider control to zoom in or out.

Playback

The Playback tab allows you to review pre-recorded footage captured to an inserted microSD card.



Select the date of the footage you wish to preview from the drop down menu, then choose from the recordings available for playback.



Settings

The Settings tab contains several options for you to control how your DCS-7010L operates.

Camera Name: Click on the **Edit** button to change how the camera name appears.

mydlink No: This is the unique mydlink number for your device.

Model name: This shows the model name of the camera.

MAC: The shows the Media Access Control (MAC) address of the camera.

Camera Activated on: The date the camera was registered to the mydlink service.

Event Notification E-mail notification of events can be switched on or off. **Settings:**

Recording Settings: Each of the recording settings will open a further menu.

You can always check your event notifications by visiting the Events tab on the menu bar above. However, by enabling this checkox, alert notification e-mails will be sent to your registered e-mail address when important a events happen, such as motion detection for network cameras or failed wireless connection for routers. Event Trigger Settings with Recording Do not record any video clips. Record video clips by motion detection. Record video clips by schedule. Advanced Settings	General Information Camera Name: DCS-7010L mydlink No: 44441672 Model Name: DCS-7010L MAC: F07D6809A80B Camera activated on: 2012-06-06 14:33:53 Event Notification E-mail You can always check your event notifications by visiting the Events tab on the me events happen, such as motion detection for network cameras or failed wireless compared in the program of the section of the network cameras or failed wireless compared in the program of t	
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Advanced Settings		
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Username: admin Camera Password: TTTTT P Show password	Camera Password: ******	tings. After clicking the butti
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Rec	ording Settings
۲	Do not record any video clips.
۲	Record video clips when motion is detected.
0	Record video clips by schedule.

Recording Settings

Record video clips Select this option to enable the automatic recording when motion when motion is is detected.

	Add Detection Area: Click on this icon to draw areas that will trigger automatic recording when motion is detected.
_ .	Remove Detection Area: Click on this icon to erase areas from regions that trigger automatic recording when motion is detected.
A	Clear Detection Area: This will remove all detection areas
¢	Refresh Snapshot: This will refresh the current snapshot of the monitored area.
*	Increase/Decrease Sensitivity Increase the motion detection sensitivity

Email Notification: Toggles notification by email on or off.

Video Clips Recording In the event that the microSD card can not store further recordings, Mode: the user can choose to record over previous recordings or to be notified and cease recording.

- Do not record any video clips.
- Record video clips by motion detection.
 - 1 Motion detection



2 Video clips recording mode

Save Cancel

```
The inserted MicroSD card can store about 0 days of video maximum.

When the MicroSD card is full:

© Continue recording & overwrite the oldest video.

© Stop recording & notify me.
```

Record Video Clips by This option enables either continuous or recurring scheduled **Schedule:** recording.

Email Notification: Toggles notification by email on or off.

Video Clips Recording In the event that the microSD card can not store further recordings, Mode: the user can choose to record over previous recordings or to be notified and cease recording.

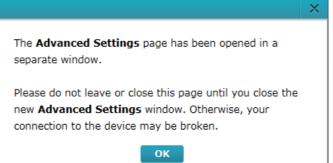
1	
R	ecord video clips by schedule.
1	Schedule setup
	Record video:
	Continuously.
	Only on: ♥ Sun ♥ Mon ♥ Tue ♥ Wed ♥ Thu ♥ Fri ♥ Sat From 0:00 to 23:59
	FION 0:00 10 23:59
2	E-mail notification
	Enable e-mail notification
	I want to send e-mail from: Other
	Sender E-mail Address:
	SMTP Mail Server:
	Port: (range 1 to 65535)
	User Name:
	Password:
	Use SSL-TLS: None The notification will be sent to the e-mail address registered in mydlink.
	The nouncation will be sent to the email address registered in mydnink.
	I want the e-mail notification to include:
	Single snapshot, with notifications sent every seconds
3	Video clips recording mode
	The inserted MicroSD card can store about 0 days of video maximum.
	When the MicroSD card is full:
	Continue recording & overwrite the oldest video.
	Stop recording & notify me.
	Save Cancel

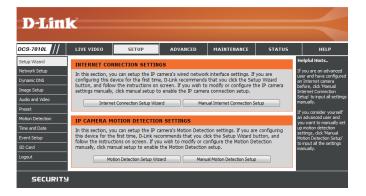
Advanced Settings

Show password: Checking this box will show the password.

Advanced Settings
Select your camera mounting mode: On ceiling
You can click the Advanced Settings button to access your camera's advanced settings. After clicking the button, use the username and password below to log in.
Username: admin Camera Password: ****** Show password
Advanced Setting
You can remove your camera by clicking Delete Camera button. Delete Camera

Advanced Setting: Clicking on the Advanced Setting button will open a secondary window allowing full configuration of the DCS-7010L





Configuration Using the Configuration Interface

After completing the Camera Installation Wizard, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your DCS-7010L. At the end of the wizard, enter the IP address of your camera into a web browser, such as Mozilla Firefox. To log in, use the User name **admin** and the password you created in the Installation Wizard. If you did not create a password, the default password is blank. After entering your password, click **OK**.

Windows Security	×
The server 192.1	168.0.103 at DCS-7010L requires a username and password.
	erver is requesting that your username and password be ure manner (basic authentication without a secure
	User name Password Remember my credentials
	OK Cancel

Live Video

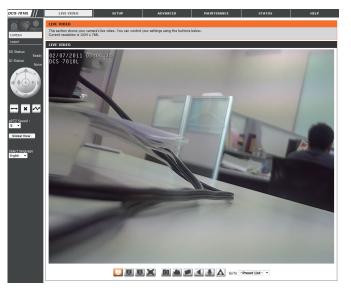
This section shows your camera's live video. You may select any of the available icons listed below to operate the camera. You may also select your language using the drop-down menu on the left side of the screen.

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

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

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

Ä	Digital Input Indicator	This indicator will change color when a digital input signal is detected.
in the	Motion Trigger Indicator	This indicator will change color when a trigger event occurs.
		Note: The video motion feature for your camera must be enabled.
REC	Recording Indicator	When a recording is in progress, this indicator will change color.
	Control Pad	This control pad can be used to electronically pan, 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 the camera ePTZ motion
\sim	Preset Path	Starts the camera's motion along the predefined path



ePTZ Speed: You may select a value between 0 and 64.0 is the slowest and 64 is the fastest.

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

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



Record a Video Clip

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

Taking a Snapshot

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

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

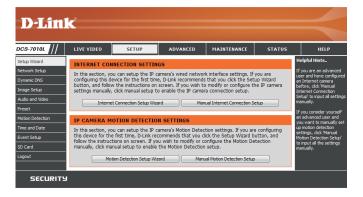


🛄 🕘 🗒 💼 🏚 💶 🞍 🖍 GOTO --Preset List- 🔻

Setup Setup Wizard

To configure your Network Camera, click **Internet Connection Setup Wizard**. Alternatively, you may click **Manual Internet Connection Setup** to manually configure your Network Camera and skip to "Network Setup" on page 37.

To quickly configure your Network Camera's motion detection settings, click **Motion Detection Setup Wizard**. If you want to enter your settings without running the wizard, click **Manual Motion Detection Setup** and skip to"Motion Detection" on page 47.



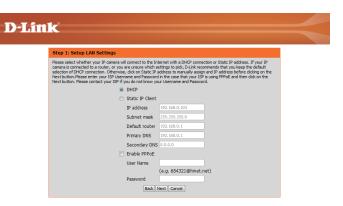
Internet Connection Setup Wizard

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



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

Click Next to continue.



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

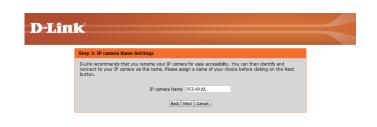
If you are using PPPoE, select **Enable PPPoE** and enter your user name and password, otherwise click **Next** to continue.

If you have a Dynamic DNS account and would like the camera to update your IP address automatically, Select **Enable DDNS** and enter your host information. Click **Next** to continue.

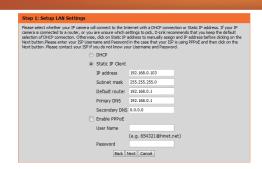
Enter a name for your camera and click **Next** to continue.

ress D-Link

	NS Settings
enable DDNS and	mic DNS account and would like the IP camera to update your IP address automatically, enter in your host information below. Please click on the Next button to continue.
	Enable DDNS
	Server Address www.dinkddns.com
	Host Name
	Jser Name
	Password
	Verify Password
	Timeout 24 (hours)



D-Link



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

Confirm the settings are correct and click **Apply** to save them..

The settings will be saved to the DCS-7010L and the camera will restart.

Step 5: Setup complete	
Below is a summary of your IP camera settings. Click on t button if all settings are correct. It is recommended to no network or via your web browser.	he Back button to review or modify settings or click on the Apply te down these settings in order to access your IP camera on the
IP Address IP camera Na Time Zone DDNS PPPoE Back	DHCP me undefined (GMT+08:00) Taipei Deable Deable Apply_Cancel



D-Link

D-Link

Step 4: Setup Time Zone			
Please configure the correct time to ens and then click on the Next button.	ure that all events are triggered, captu	red and scheduled at the correct	time and day
Time Zone	(GMT+08:00) Taipei	•	
Enable Daylight Saving			
	Back Next Cancel		

Motion Detection Setup Wizard

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

Click Next to continue.

Step 1

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

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

Please see the **Motion Detection** section on "Motion Detection" on page 47for information about how to configure motion detection.

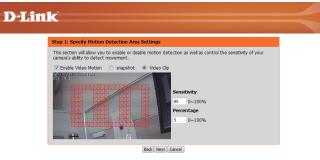
Step 2

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



step 2: Motion Detection Schedule
This final step allows you to specify how you receive notification of camera events. Choose between an emain notification or alternatively you can setup an FTP Notification. You will need your email account settings or FTP details. If you are unsure of this information, please contact your ISP. Once you have entered this information, please click on the Next button.
🗸 Sun 🗸 Mon 🗸 Tue 🗸 Wed 🗸 Thu 📝 Fri 🖉 Sat
Time
Always
○ From 00 ▼ 00 ▼ To 23 ▼ 59 ▼





Step 3

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

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

Click Next to continue.

Step 4 You have completed the Motion Detection Wizard.

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

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



Back Apply Cancel

Alerts and Notification : Email



D-Link

itep 3: Alerts and Notification	
email notification or alternatively you ca	w you receive notification of camera events. Choose between an in setup an FTP Notification. You will need your email account re of this information, please contact your ISP. Once you have in the Next button.
O not notify me	
Email	
Sender email address	
Recipient email address	
Server address	
User name	
Password	
Port	25
○ FTP	
Server address	
Port	
User name	
Password	
Remote folder name	

Network Setup

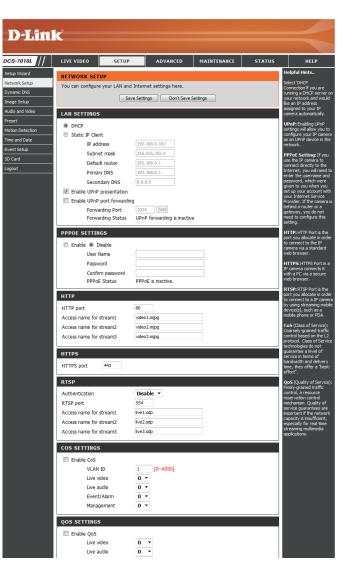
Use this section to configure the network connections for your camera. All relevant information must be entered accurately. After making any changes, click the **Save Settings** button to save your changes.

- LAN Settings: This section lets you configure settings for your local area network.
 - **DHCP:** Select this connection if you have a DHCP server running on your network and would like your camera to obtain an IP address automatically.

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

- Static IP Client: You may obtain a static or fixed IP address and other network information from your network administrator for your camera. A static IP address may simplify access to your camera in the future.
 - IP Address: Enter the fixed IP address in this field.
- Subnet Mask: This number is used to determine if the destination is in the same subnet. The default value is 255.255.255.0.
- **Default Gateway:** The gateway used to forward frames to destinations in a different subnet. Invalid gateway settings may cause the failure of transmissions to a different subnet.
 - **Primary DNS:** The primary domain name server translates names to IP addresses.

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



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

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

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

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

HTTP Port: The default port number is 80.

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

- **HTTPS Port:** You may use a PC with a secure browser to connect to the HTTPS port of the camera. The default port number is 443.
 - **RTSP Port:** The port number that you use for RTSP streaming to mobile devices, such as mobile phones or PDAs. The default port number is 554. You may specify the address of a particular stream. For instance, live1.sdp can be accessed at rtsp://x.x.x.v/video1.sdp where the x.x.x.x represents the ip address of your camera.

LAN SETTINGS	
OHCP	
Static IP Client	
IP address	192.168.0.103
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	g
Forwarding Port	1024 Test
Forwarding Status	UPnP forwarding is inactive
PPPOE SETTINGS	
Enable I Disable	
User Name	
Password	
Confirm password	
PPPoE Status	PPPoE is inactive.
нттр	
HTTP port	80
Access name for stream1	video 1. mjpg
Access name for stream2	video2.mjpg
Access name for stream3	video3.mjpg
Access hand for became	
HTTPS	
HTTPS port 443	
RTSP	
Authentication	Disable 🔻
RTSP port	554
Access name for stream1	live 1.sdp
Access name for stream2	live2.sdp
Access name for stream3	live3.sdp

- **Enable CoS:** Enabling the Class of Service setting implements a best-effort policy without making any bandwidth reservations.
- **Enable QoS:** Enabling QoS allows you to specify a traffic priority policy to ensure a consistent Quality of Service during busy periods. If the Network Camera is connected to a router that itself implements QoS, the router's settings will override the QoS settings of the camera.
- **Enable IPv6:** Enable the IPV6 setting to use the IPV6 protocol. Enabling the option allows you to manually set up the address, specify an optional IP address, specify an optional router and an optional primary DNS.
- Enable Multicast for stream The DCS-7010L 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.

COS SETTINGS	
Enable CoS	
VLAN ID	1 [0~4095]
Live video	0 -
Live audio	0 -
Event/Alarm	0 -
Management	0 -
QOS SETTINGS	
Enable QoS Live video	0 -
Live audio	0 -
Event/Alarm	0 -
Management	0 -
-	
IPV6	
Enable IPv6	
IPv6 Information	
Manually setup the IP add	
Optional IP address / Pre	fix length / 64
Optional default router	
Optional primary DNS	
MULTICAST	
Enable multicast for stream 1	
Multicast group address	239.1.1.1
Multicast video port	6550
Multicast video port Multicast RTCP video port	6550 6551
Multicast RTCP video port	6551
Multicast RTCP video port Multicast audio port	6551 6552
Multicast RTCP video port Multicast audio port Multicast RTCP audio port	6551 6552 6553 64
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255]	6551 6552 6553 64
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2	6551 6552 6553 64
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address	6551 6552 64 239.1.1.2
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port	6551 6552 64 239.1.1.2 6554
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port	6551 6552 64 239.1.1.2 6554 6555
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port Multicast audio port	6551 6552 64 239.1.1.2 6555 6555 6555
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port	6551 6552 6553 64 239.1.1.2 6554 6555 6555 6555 64
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255]	6551 6552 6553 64 239.1.1.2 6554 6555 6555 6555 64
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Enable multicast for stream 2 Multicast group address Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255]	6551 6552 6553 64 239.1.1.2 6554 6555 6555 6555 6555 6557 64
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 3 Multicast group address	6551 6552 6553 64 239.1.1.2 6554 6555 6556 6557 64 239.1.1.3
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 3 Multicast group address Multicast video port	6551 6552 6553 64 239.1.1.2 6554 6555 6556 6557 64 239.1.1.3 6558
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 3 Multicast group address Multicast video port Multicast RTCP video port	6551 6552 6553 64 239.1.1.2 6555 6555 6555 6557 64 239.1.1.3 6558 6559
Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Enable multicast for stream 2 Multicast group address Multicast group address Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 3 Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP video port Multicast audio port	6551 6552 6553 64 239.1.1.2 6554 6555 6556 6557 64 239.1.1.3 6558 6559 6560

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.

D-Lin1	e*					
DCS-7010L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DCS-3010	DYNAMIC DNS The Dynamic DNS (www.yourdoma broadband Intern service, you can o address is.	s feature allows you to incom) to access you let service providers a enter your domain na c's Free DDNS service Save Setti	o use a domain name Ir IP camera with a dy ssign dynamic (chang the to connect to you at www.DLinkDDNS. Ings Don't Save	that you have purchas mamically assigned IP a ing) IP addresses. By u ur IP camera no matter com.	ed ddress. Most sing a DDNS	HELP Helpful Hints. Dynamic Dies suesful if you have 30% or odden warvoge your worden IP address periodally. The word IP camera nitesed of occurrecting through an IP address.
	Timeout Status	24 Inactive		(hours)		
	L	Save Setti	ings 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.



- 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.
 IMAGE SETTINGS
 - **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.

AGE SETTINGS	0.0.0
Anti Flicker	On Off
Mirror	On Off
Flip	On Off
Power Line	© 60 Hz 💿 50 Hz
White Balance	Auto 🔻
Exposure Mode	Auto • Max Gain 24 • dB
Denoise	0 -
Brightness	4 -
Contrast	4 -
Saturation	128 -
Sharpness	4 -
	Reset Default

Audio and Video

You may configure up to 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.

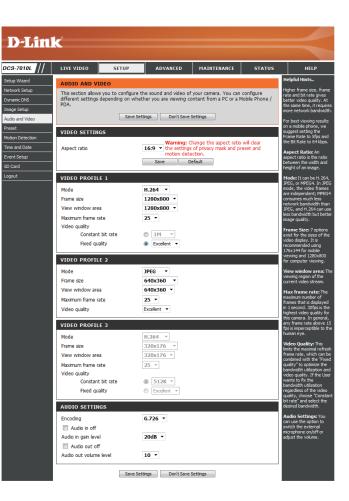
Aspect ratio: Set the aspect ratio of the video to 4:3 standard or 16:9 widescreen.

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

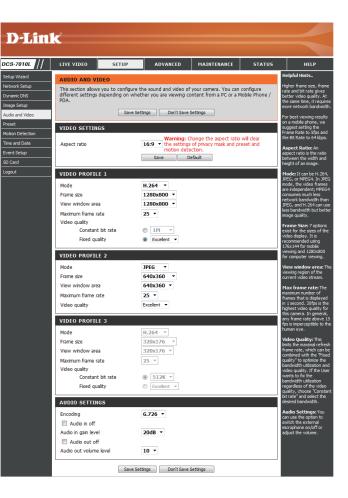
- Frame size: Frame size determines the total capture resolution, and View window area determines the Live Video viewing window size. If the Frame size is larger than the Live Video size, you can use the ePTZ controls to look around.
 - 16:9 1280 x 800, 1280 x 720, 800 x 450, 640 x 360, 480 x 270, 320 x 176, 176 x 144
 - 4:3 1024 x 768, 800 x 600, 640 x 480, 480 x 360, 320 x 240, 176 x 144

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

Maximum frame 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.



- 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.
 - **Encoding** Select the audio encoding codec to fine tune bandwidth usage, storage and recording quality.
 - 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.



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.

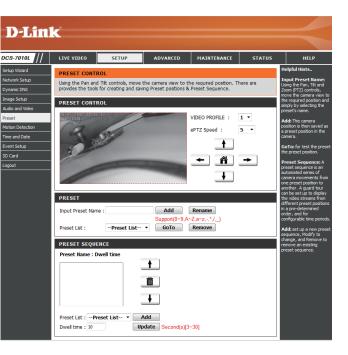
Note: If your View window area is the same as your Frame size, you will not be able to use the ePTZ function.

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 dropdown box at the bottom of this window, set the Dwell time to determine how long the camera view will stay at that preset, then click the Add button. The preset name will appear in the list, followed by the dwell time to view that preset for.
 PRESET

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

Clicking the trash can button will remove the currently selected preset from the sequence.

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

PRESET
Input Preset Name : Add Rename
Support(0~9,A~Z,a~z,-,*/,_) Preset List :Preset List GoTo Remove
PRESET SEQUENCE
Preset Name : Dwell time
Ŧ
Preset List :Preset List Add Dwell time : 10 Update Second(s)[3~30]

Motion Detection

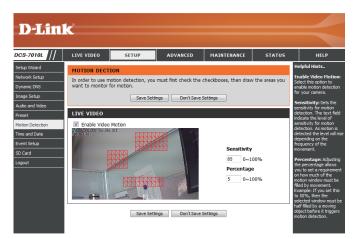
Enabling Video Motion will allow your camera to use the motion detection feature. You may draw a finite motion area that will be used for monitoring. After making any changes, click the **Save Settings** button to save your changes.

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

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

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

Select All: Draws a motion detection area over the entire screen. Clear All: Clears any motion detection areas that have been drawn. Restore: Restores the previously specified motion detection areas.



Time and Date

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

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

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

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

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

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

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

NTP Server: Network Time Protocol (NTP) synchronizes the DCS-7010L with an Internet time server. Choose the one that is closest to your location.

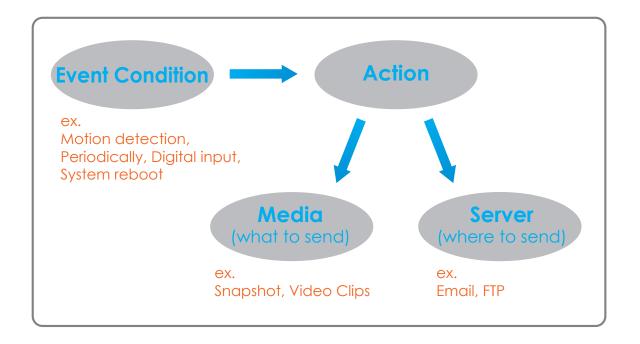
Set the Date and Time Manually: This option allows you to set the time and date manually.

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

D-Lini	e e e e e e e e e e e e e e e e e e e					
S-7010L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
S-7010L /// up Witard work Setup amic DKS ge Setup lio and Video set son Detection e and Date and Date and Date Card Out	TIME AND DA You can set the TIME CONFIGU Time Zone (GM Enable Dayk @ Auto D @ Set dal Offse Start End AUTOMATIC T	IE Current time for the I Save Sette HRATION +08:00) Tapes pht Saving avlght Saving re: and time manually tt +200 Montt time 5	P camera. nga Don't Save S Don't Save S Neek Day of week v 1 v Sunday v 1 v Sunday v 1 v Sunday 10N	ettings v		HELP Helpful Hints Good smekeping is mortant for accurate logs and scheduled freed Tukke. Time Zones: Select your means zone form be the source for the source source the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source
	🔲 Set date an	Mon	th 6 • te 20 • ur Compulter's Time Setti		v 4 v	server over the interest wheneve the camera starts up. If the timesever cannot be reached, no time settings will be applied. MITP Servers Network me Protocol (97) syndromas the IP camera with an internet time shart of coder that and server. Choose the one that of coder that server. Choose the and that of coder that settings. This of syndromize the time enformation from your PC.

Event Setup

In a typical application, when motion is detected, the DCS-7010L sends images to a FTP server or via e-mail as notifications. As shown in the illustration below, an event can be triggered by many sources, such as motion detection. When an event is triggered, a specified action will be performed. You can configure the Network Camera to send snapshots or videos to your e-mail address or FTP site.



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

The Event Setup page includes 4 different sections.

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

CS-7010L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
etup Wizard	EVENT SETUP					Helpful Hints
letwork Setup	There are four sec	tions in Event Setu	p page. They are even	t, server, media and re	cordina, Click	Suggest setting serve
ynamic DNS	Add to pop a wind delete the selecte	low to add a new it d item from event	em of event, server, n server, media or record	nedia or recording. Click	k Delete to	setting event. The servers and media wh
nage Setup		There can be at m	ost 2 events and 1 rec			selected in event list
udio and Video	server and 5 media	a configurations.				not be able to modify delete. Please remove
reset	SERVER					them first from the ev if you want to delete
otion Detection	Name Type	Address/Loc	ation			modify them. Recomm using different media
ime and Date	Add 👻 Delet	e				different event to ma use all media be prode
vent Setup						and received correct
D Card	MEDIA					using the same media different events and
ogout	Media freespace					events trigger almost simultaneously, the
	Name Typ Add - Delet	_				servers in the second triggered event will no
		e				receive any media; th would be only
	EVENT					notifications.
	Name Status	Sun Mon Tu	e Wed Thu Fri S	at Time Trigger		
	Add 👻 Delet					
	RECORDING					
	Name Status	Sun Mon Tue	Wed Thu Fri Sat	Time Source De	stination	
	Add 🔻 Delet	e				

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.

ĸ				
LIVE VIDEO SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
SERVER	1			Helpful Hints
You can set at most 5 different server		vent. ve Settings	L T S	"Server name" The inique name for server. There are four kinds of servers supported. They are email server, FTP server, HTTP server and
SERVER TYPE				network storage.
Server Name:				Email server: "Sender email
Email				address "The email address of the sender.
Sender email address				"Recipient email address" The email
Recipient email address				address of the recipient.
Server address				FTP server: "Remote folder
User name				name" Granted folder
Password			4	erver. The string must
Port	25			external FTP server. Some FTP servers cannot
This server requires a	secure connection (St	tartTLS)		accept preceding slash symbol before the path
© FTP				without virtual path mapping. Refer to the
Server address				nstructions for the external FTP server for
Port	21			details. The folder privilege must be open
User name				for upload. "Passive Mode" Check
Password			1	t to enable passive mode
Remote folder name				n transmission. Network storage: Only
Passive mode				one network storage is supported.
Network storage				Supported. "Network storage location" The path to
Network storage location				upload the media.
(for example:\\my_nas\dis	k\folder)		1	"Workgroup" The workgroup for network
Workgroup				storage.
User name				5D card: Use the SD card for
Password			ſ	recording media.
Primary WINS server				
SD Card				

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 43 for more information on video profiles.

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

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

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

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

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DCS-7010L //	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Setup Witand Network Setup Dynamic DNS Image Setup Audio and Video Preset Noton Detection Time and Date Event Setup SO Card Logout	MEDIA TVPE Media name: Snapshot Source: F Send 1 Send 1 File Name Add c Video Clip Source: F	Save Sett	(s) [0~3] e(s) [0~7] file name Second(s) [0~3] cond(s) [1~100] tes [100~5000]	cettings		Helpful Hinks. "Hedia name" The much name for media, much name for media, much name for media, much name for media name for media for media samplet, tude of and samplet, tude of and samplet

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 43 for more information on video profiles.
- **Pre-event recording:** This sets how many seconds to record before the main event video clip starts. You can record up to 4 seconds of pre-event video.
- Maximum duration: Set the maximum length of video to record for your video clips.
- Maximum file size: Set the maximum file size to record for your video clips.
 - File name prefix: This is the prefix that will be added to the filename of saved video clips.
 - System log: Select this option to set the media type to system logs. This will save the event to the camera system log, but will not record any snapshots or video.



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.

Trigger: Specify the input type that triggers the event.

Digital Input: Initiates recording after receiving a digital input event.

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

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

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

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

Time: Select Always or enter the time interval.

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



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

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

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:S-7010L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
tup Wizard twork Setup namic DNS age Setup do and Yideo set tion Detection ae and Date ent Setup gout	Period. RECORDING Recording entr Enable the r Priorty: normal Source: Profile 1 RECORDING S S S un A F RECORDING S R RECORDING S Destination No Total cyclan recc S Sze of each	Save Sets y name: ecording v cheboule n Tue Wee ways ecom to v ecom to ecom to	d ♥ Thu ♥ Fr ₪ To 23 ▼ 59 ▼ Mbytes [200~20000 ▼ Mbytes 0 ▼ seconds	ettings 2 Sat D0]	and time	Helpful Hints. Recording: Evale this donard for unant buildings of failed on the unant of failed on the buildings of the second second second second according schedule: Second second second second second according to when you according to when you according to when you according to when you according schedule: Second second second second according schedule: Second second second second do continued? From: The the range schedule second do continued? From: The the range schedule schedule do continued? From: The the range schedule schedule from a schedule schedule schedule from a schedule schedule schedule from a schedule schedule schedule from a schedule schedule schedule here.

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).



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.



Advanced Digital Input/Output

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

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

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

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

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



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.

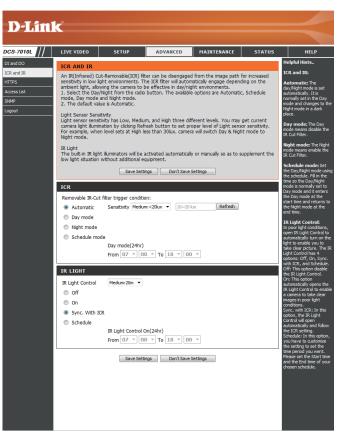
Day Mode: Day mode enables the IR Cut Filter.

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.



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.

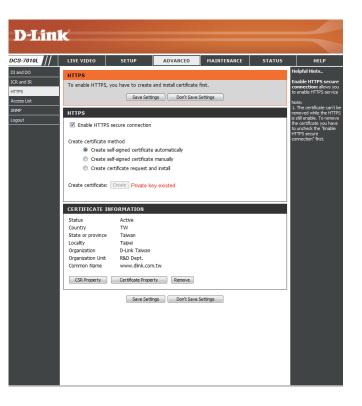
Enable HTTPS Secure Connection: Enable the HTTPS service.

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-7010L.

- 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.

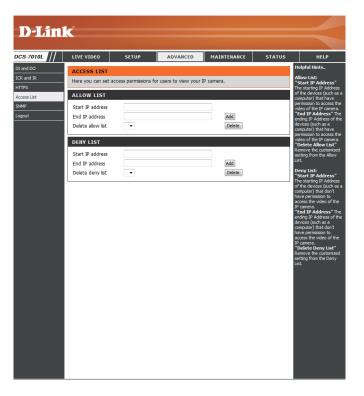
Note: A total of seven lists can be configured for both columns.

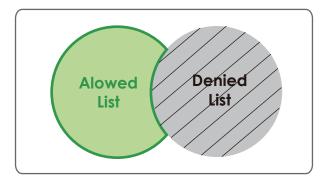
- **End IP address:** The ending IP Address of the devices (such as a computer) that have permission to access the video of the camera.
- Delete allow list: Remove the customized setting from the Allow List.
 - **Deny list:** The list of IP addresses that have no access rights to the camera.

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 Network Camera.





SNMP

Here you can enable and name SNMP settings.

Enable SNMP: Enable this option to allow local SNMP management.

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

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

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DCS-7010L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DI and DO	SNMP					elpful Hints
ICR and IR	The Simple Netw	ork Management Pro	tocol is an application	layer protocol that faci	itates the	hable SNMPv1, NMPv2c: Select this
HTTPS Access List	to remotely mana	age network devices	and find, solve netwo	vices. It helps network ik problems with ease.		otion and enter the ames of Read/Write
SNMP		Save Sett	ings Don't Save	Settings	0	mmunity and Read nly community cording to your NMS
Logout	SNMP CONFIG	UDATION			a Si	tting.
	Enable SNMI Read/Write		iste			
	Read only co					
	include only co	(Participation)				
		Save Sett	ngs Don't Save	Settings		

Maintenance Device Management

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

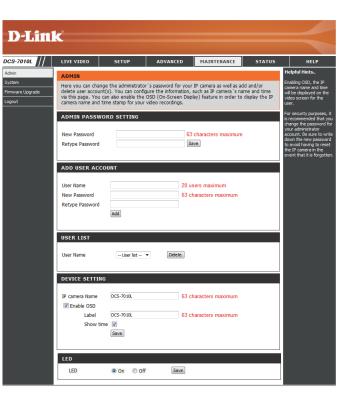
Admin Password Setting: Set a new password for the administrator's account.

Add User Account: Add 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. You may delete accounts included in the list, but you may want to reserve at least one as a guest account.
- **Camera Name:** Create a unique name for your camera that will be added to the file name prefix when creating a snapshot or a video clip.
 - Enable OSD: Select this option to enable the On-Screen Display feature for your camera.
 - Label: Enter a label for the camera, which will be shown on the OSD when it is enabled.
 - **Show Time:** Select this option to enable the time-stamp display on the video screen.
 - LED: You may specify whether or not to illuminate the status LED on the camera.



System

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

Save To Local 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 Default: You may reset your camera and restore the factory settings by clicking **Restore Factory Defaults**.

Reboot Device: This will restart your camera.

mrare Lbgrade Here you may backup, restore, and reboot your b ⁱ camera. default a default a gout SYSTEM statement of the sta	
SYSTEM been ref sput Save To Local Hard Drive estable Save To Local Hard Drive Save Configuration end configuration Load From Local Hard Drive Buose Load Configuration Restore To Factory Defaults Restore Factory Defaults Restore Factory Defaults	Hints e factory's ættings have
Load From Local Hard Drive Biome Load Configuration Restore To Factory Defaults Restore Factory Defaults	stored, use t on wizard provided w camera to se nect to the I
Restore To Factory Defaults Restore Factory Defaults	
Reboot Device Reboot Device	

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-7010L, 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.

		ADVANCED	MAINTENANCE	STATUS	HEL
			TRAINTENANCE		
DEVICE	INFO				Helpful Hints
All of your	network connection	details are displayed on th	is page. The firmware ve		This page display
displayed l			is page. The fillinivale ve		information abou camera and net
					settings.
INFORM	ATION				
ID comoro	IP camera Name DCS-7010L				
Time & Da		n 7 10:24:08 2012			
Firmware					
MAC Addr		8:0F:DD:76			
IP Addres					
IP Subnet	Mask 255.25	5.255.0			
Default Ga	teway 192.168	8.0.1			
Primary DI					
Secondary	Secondary DNS 0.0.0.0				
PPPoE					
DDNS	Disable				
Agent Ve	rsion 2.0.15-	b6			

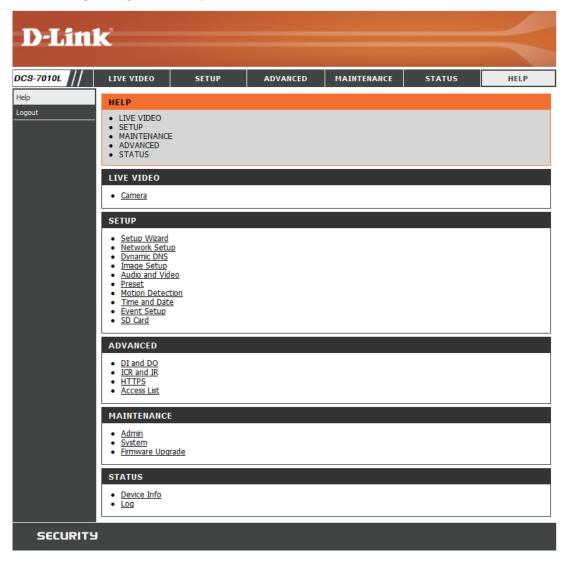
Logs

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.

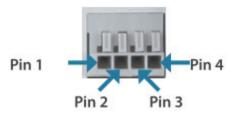
D-Link							
DCS-7010L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP	
Device Info	SYSTEM LOG					Helpful Hints	
Log						You can save the log to vour local hard IP camera	
Logout	The system log records IP camera events that have occurred.						
	CURRENT LOG					button, and you can clear the log by clicking on the	
	1. 2012-06-07	7 10:15:38 admin LOO	GIN OK FROM 192.168	3.0.100		Clear button.	
	2. 2012-06-06	5 19:15:05 SYSTEM S	ET IR LIGHT ON				
	3. 2012-06-06	5 19:14:29 SYSTEM S	SET IR LIGHT OFF				
	4. 2012-06-06						
	5. 2012-06-06 19:13:51 SYSTEM SET IR LIGHT OFF						
	6. 2012-06-06 18:40:59 admin LOGIN OK FROM 192.168.0.100 7. 2012-06-06 18:39:58 IP CAMERA ACOUIRE DHCP IP 192.168.0.104						
	8. 2012-06-06 9. 2012-06-06						
	10. 2012-06-06						
	11. 2012-06-06						
				T PROFILE 1 Viewer wi			
	13. 2012-06-06	5 18:36:49 admin FRO	M 192.168.0.100 SE	T PROFILE 1 Frame Size	e 800x600		
	14. 2012-06-06	5 18:36:31 admin FRO	M 192.168.0.100 SE	T VIDEO CODEC Need	Reset		
	15. 2012-06-06	5 18:36:31 admin FRO	M 192.168.0.100 SE	T ASPECT RATIO 4:3			
	16. 2012-06-06 18:35:22 SYSTEM SET IR LIGHT ON						
	17. 2012-06-06 18:35:02 SYSTEM SET IR LIGHT OFF						
	18. 2012-06-06 18:29:46 admin LOGIN OK FROM 192.168.0.100						
			A ACQUIRE DHCP IP 1	92.168.0.104			
	20. 2012-06-06	5 18:27:31 NETWORK	RECONNECT				
	First Page	Previous 20 Next 2	20				
	Clear Downloa	ad					

Help

This page provides helpful information regarding camera operation.



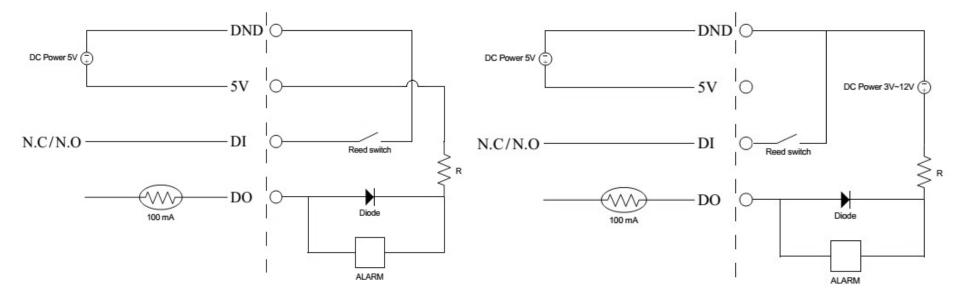
DI/DO Specifications



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

Internal 5V Power

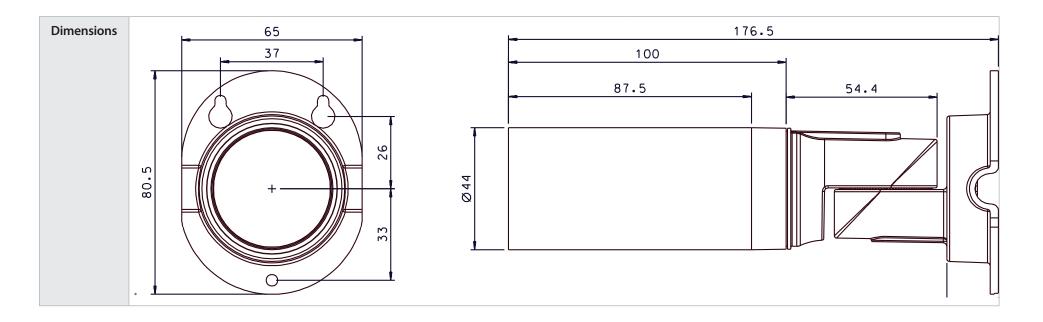
External 3~12V Power



Technical Specifications

Camera	Camera Hardware Profile	 1/4" Megapixel progressive CMOS sensor 10 meter IR illumination distance Minimum illumination: 0 lux with IR LED on Built-in Infrared-Cut Removable (ICR) Filter module 10x digital zoom 	 Focal length: 4.3 mm Aperture: F2.0 Angle of view: (D) 60° (H) 47° (V) 37°
	Camera Housing	IP-66 compliant weatherproof housing	Wire-in bracket
	Image Features	 Configurable image size, quality, frame rate, and bit rate Time stamp and text overlays Configurable motion detection windows 	 Configurable privacy mask zones Configurable shutter speed, brightness, saturation, contrast, and sharpness
	Video Compression	 Simultaneous H.264/MPEG-4/MJPEG format compression H.264/MPEG-4 multicast streaming 	 JPEG for still images
	Video Resolution	16:9 - 1280 x 800, 1280 x 720, 800 x 450, 640 x 360, 480 x 270, 320 x 176, 176 x 144	4:3 - 1024 x 768, 800 x 600, 640 x 480, 480 x 360, 320 x 240, 176 x 144
	Audio Support	G.726	G.711
	External Device Interface	 10/100 BASE-TX Fast Ethernet port Supports 802.3af PoE 	 MicroSD/SDHC card slot
Network	Network Protocols	 IPv6 IPv4 TCP/IP UDP ICMP DHCP client NTP client (D-Link) DNS client DDNS client (D-Link) SMTP client FTP client 	 HTTP / HTTPS Samba client PPPoE UPnP port forwarding RTP / RTSP/ RTCP IP filtering QoS CoS Multicast IGMP ONVIF compliant
	Security	Administrator and user group protection Password authentication	HTTP and RTSP digest encryption

System Management	System Requirements for Web Interface	 Browser: Internet Explorer, Firefox, Chrome, Safari 			
	Event Management	 Motion detection 	 Supports multiple SMTP and FTP servers 		
		 Event notification and uploading of snapshots/video clips via e-mail or FTP 	Multiple event notificationsMultiple recording methods for easy backup		
	Remote Management	 Take snapshots/video clips and save to local hard drive or NAS via web browser 	 Configuration interface accessible via web browser 		
	Mobile Support	Windows 7/Vista/XP system, Pocket PC, or mobile phone	mydlink mobile app for iOS and Android mobile devices		
	D-ViewCam [™] System Requirements	 Operating System: Microsoft Windows 7/Vista/XP Web Browser: Internet Explorer 7 or higher 	 Protocol: Standard TCP/IP 		
	D-ViewCam [™] Software Functions	 Remote management/control of up to 32 cameras Viewing of up to 32 cameras on one screen 	 Supports all management functions provided in web interface Scheduled motion triggered, or manual recording options 		
General	Weight	267 g +-5%			
	External Power Adapter	Input: 100 to 240 V AC, 50/60 Hz	Output: 5 V DC, 1.2 A		
	Power Consumption	5.4 watts +- 5%			
	Temperature	Operating: -25 to 50 °C (-13 to 122 °F)	Storage: -20 to 70 °C (-4 to 158 °F)		
	Humidity	Operating: 20% to 80% non-condensing	Storage: 5% to 95% non-condensing		
	Certifications	CE CE LVD	FCC C-Tick		



Safety Statements

CE Mark Warning:

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

FCC Statement:

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

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

FCC Caution:

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

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

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

IMPORTANT NOTICE: FCC Radiation Exposure Statement:

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

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user. For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

Industry Canada Notice:

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

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

IMPORTANT NOTE:

Radiation Exposure Statement:

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