D-Link[®]



User Manual

HD Wireless Outdoor Cloud Camera

DCS-2332L

Preface

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

Manual Revisions

Revision	Date	Description
1.0	October 23, 2012	DCS-2332L Revision A1 with firmware version 1.00

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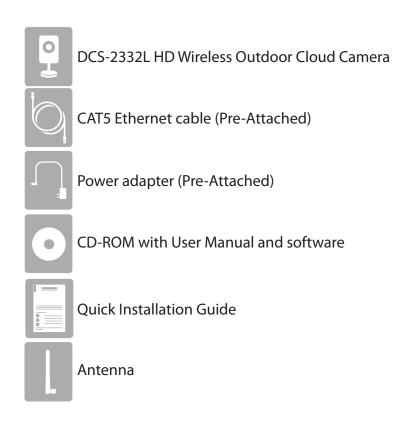
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Product Overview Package Contents



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

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



Introduction

Congratulations on your purchase of the DCS-2332L HD Wireless Outdoor Cloud Camera. The DCS-2332L is a versatile and unique solution for your small office or home. Unlike a standard webcam, the DCS-2332L 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-2332L can be accessed remotely, and controlled from any PC/Notebook over your local network or through the Internet via a web browser. The simple installation and intuitive web-based interface offer easy integration with your Ethernet/Fast Ethernet or 802.11n/g wireless network. The DCS-2332L also comes with remote monitoring and motion detection features for a complete and cost-effective home security solution.

System Requirements

- Computer with Microsoft Windows [®] 8/7/Vista/XP, or Mac with OS X 10.6 or higher
- PC with 1.3GHz or above and 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 802.11g/n wireless network

Features

Simple to Use

The DCS-2332L is a stand-alone system with a built-in CPU, requiring no special hardware or software. The DCS-2332L 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-2332L 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 Network Camera directly from its own Web page via Intranet or Internet. This means you can access your DCS-2332L 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 16 feet (5 meters).

IP65 Weatherproof Housing

The DCS-2332L uses an IP65 weatherproof housing, allowing you to rest assured that in the toughest of conditions, it will continue to provide round-the-clock surveillance.

802.11n Wireless or Ethernet/Fast Ethernet Support

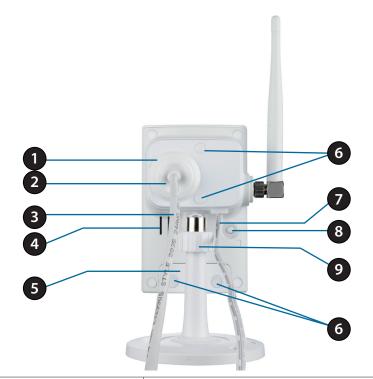
The DCS-2332L offers wireless 802.11n and Ethernet/Fast Ethernet connectivity, making the DCS-2332L easy to integrate into your existing network environment. The DCS-2332L works with a 10Mbps Ethernet based network or 100Mbps Fast Ethernet based network for traditional wired environments, and works with 802.11n routers or access points for added flexibility. The Site Survey feature also allows you to view and connect to any available wireless networks.

Hardware Overview Front



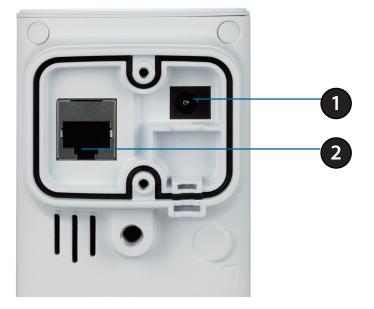
1	Camera Lens	Records video of the surrounding area
2	ICR Sensor	The IR-Cut Removable sensor measures the lighting conditions and switches between color and infrared accordingly
3	3 Microphone Records audio from the surrounding area	
4	4 PIR Passive Infrared sensor for motion detection	
5	5 IR LED Infrared LED illuminates the camera's field of view at night	
6	WPS Status LED	Indicates the WPS connection status of the camera
7	Power/Status LED	Indicates the camera's current status
8	Antenna	Outdoor wireless antenna

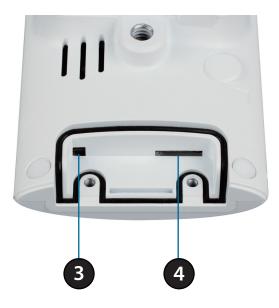
Rear: External



1	Weatherproof Cover Weatherproof protective panel	
2	Protective Cable Cover	Weatherproof cable connection cover
3	Ethernet Cable	RJ45 Ethernet cable to connect to your network
4	4 Speaker Audio output	
5	5 Weatherproof Cover Weatherproof cover for the MicroSD Card slot and reset	
6	6 Weatherproof Screw Covering Weatherproof protective covering for enclosure screws	
7	7 Power Cable Connected to the included DC 5 V power adapter	
8	WPS Button	Press this button, then press the WPS button for 5 seconds on your router to set up a wireless connection automatically
9	Adjustment Ring Tighten or loosen the adjustment ring to adjust the camera's posit	

Rear: Internal

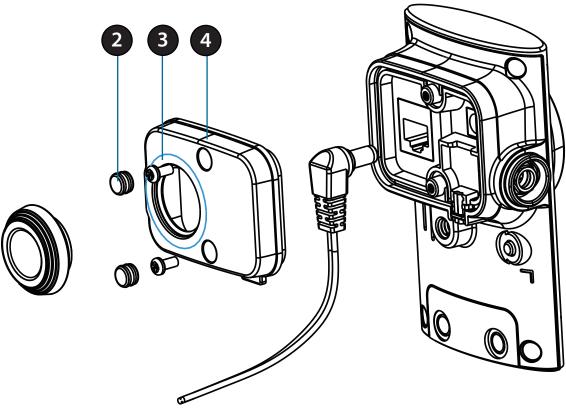




1	DC Power Connector	Connected to the included DC 5 V power adapter	
2	RJ45 Ethernet Port	RJ45 connector for Ethernet	
3	Reset Button	Use a paperclip or similar tool to press and hold the recessed button for 10 seconds to reset the camera	
4	SD Memory Card Slot	Insert a MicroSD card for for storing recorded images and video	

D-Link DCS-2332L User Manual

Removing the Top Panel



Step 1: Place the camera face down on a non-slip flat surface.

Step 2:

Carefully pry out the two protective rubber screw coverings using a thin flat blade.

Step 3:

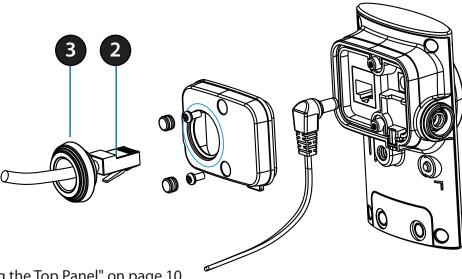
Undo the two screws using a Philips #00 Screwdriver.

Step 4:

Lift off the protective panel.

Note: To ensure that the camera stays weatherproof, users are advised to ensure that all the rubber seals are secured firmly in place.

Replacing the Ethernet Cable



Step 1:

Follow the steps outlined in "Removing the Top Panel" on page 10.

Step 2:

Unplug the Ethernet cable from the RJ45 connector.

Step 3:

Carefully remove the weatherproof cable connection cover.

Step 4:

Attach the weatherproof cable connection cover to the new Ethernet cable.

Step 5:

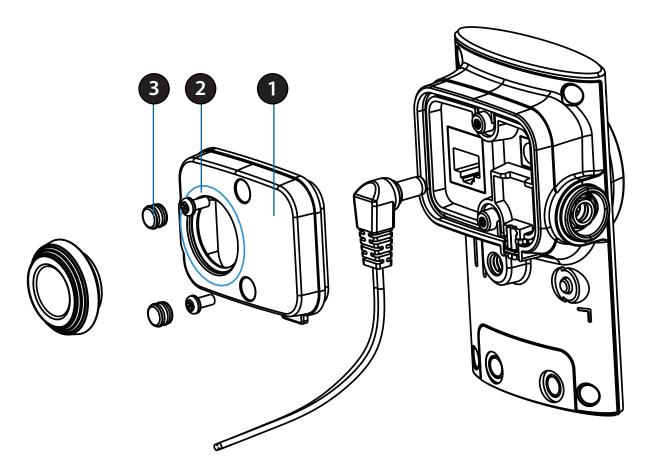
Plug the new Ethernet cable into the RJ45 connector.

Step 6:

Follow the steps outlined in "Reattaching the Top Panel" on page 12.

Note: To avoid damage to the weatherproof aspects of the camera, users are advised not to remove the rear cable connection covering. To use a longer Ethernet cable install a coupling adaptor.

Reattaching the Top Panel



Step 1:

Seat the protective panel, ensuring a tight fit with the inlaid rubber seal.

Step 2:

Replace the two screws. Ensure that the screws are tightened firmly.

Step 3:

Firmly replace the protective rubber screw coverings.

Note: To ensure that the camera stays weatherproof, users are advised to ensure that all the rubber seals are secured firmly in place.

Removing the Bottom Panel

Step 1:

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

Step 2:

Carefully pry out the two protective rubber screw coverings using a thin flat blade.

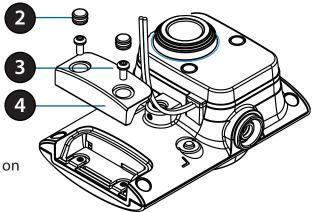
Step 3:

Undo the two screws using a Philips #00 Screwdriver.

Step 4:

Lift off the protective panel.

If you need to install an SD Memory Card please skip to "Installing an SD Memory Card" on page 14.



Using the Reset Button

If you need to use the Reset Button follow these steps.

Step 1:

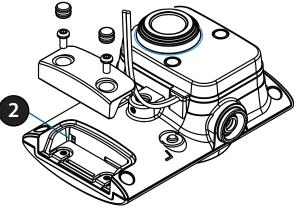
Follow the steps outlined in "Removing the Bottom Panel" on page 13.

Step 2:

Using a paperclip or similar tool, press and hold the Reset Button for 10 seconds. This will reset the device to it's factory settings.

Step 3:

Follow the steps outlined in "Reattaching the Bottom Panel" on page 14.



Installing an SD Memory Card

Step 1:

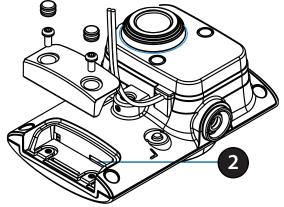
Follow the steps outlined in "Removing the Bottom Panel" on page 13.

Step 2:

Insert a MicroSD Memory card into the slot, with the notch facing right.

Step 3:

Follow the steps outlined in "Reattaching the Bottom Panel" on page 14.



Reattaching the Bottom Panel

Step 1:

Seat the protective panel, ensuring a tight fit with the inlaid rubber seal.

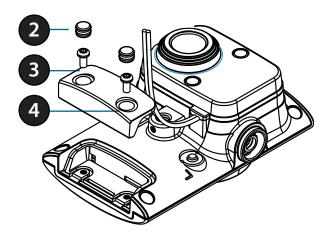
Step 2:

Replace the two screws. Ensure that the screws are tightened firmly.

Step 3:

Firmly replace the protective rubber screw coverings.

Note: To ensure that the camera stays weatherproof, users are advised to ensure that all the rubber seals are secured firmly in place.



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

Attach the Antenna

Locate the antenna included with your DCS-2332L, and attach it to the antenna connector located on the side of the DCS-2332L.

Step 2

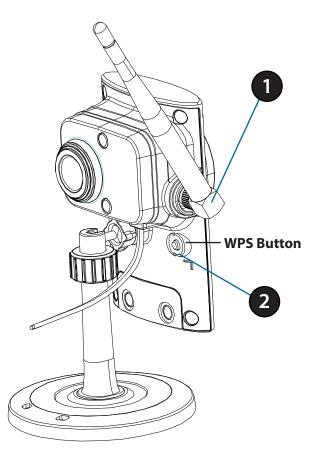
Press and hold the WPS button for approximately 5-6 seconds. The blue WPS status LED on the front panel will blink.

Step 3

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-2332L 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.



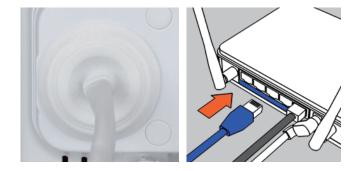
Installation Zero Configuration Setup

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-2332L 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-2332L.

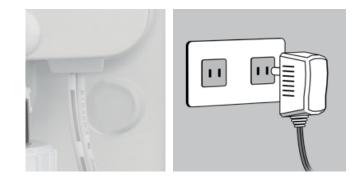
Connect the Ethernet Cable

Using the pre-attached Ethernet cable connect the free end to your network.



Attach the External Power Supply

Attach the external power supply to your wall outlet or power strip.



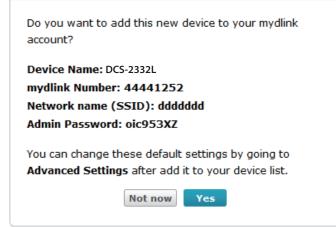
Check Your mydlink Account

Open a web browser and login to your mydlink account. The mydlink page will check for new devices and display a **New device Found!** pop-up notification in the bottom-left corner. Click the notification to continue.

mydlink Velcome, Mehta My Devices ared Devices My Services My Profile DIR-605L Router Status Settings 20019862 DIR-605L LAN IP 192,168.0.1 Connected Device 5 device(s 🖲 0008.Чка ¢ onnection Lis Device Device Name IP Address MAC Address Block 0 192.168.0.110 00:26:2D:02:FE:FA CardboardBo: 192.168.0.120 04:54:53:50:53:18 192 168 0 100 00:1A:92:E2:4D:C9 HeiGur 192.168.0.121 28:E0:2C:DC:0A:BE 192,168.0,101 F0:A2:25:AA:8C:C3 Suspect List Device Name Time MAC Address Block Device DCS-2332L

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.

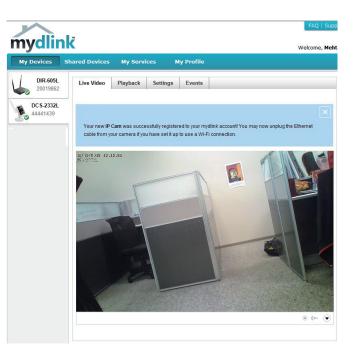
Confirming New Device



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

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 23 to learn more about the mydlink features of this camera, or to "Configuration" on page 24 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 setup.exe file.

Mac Users

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



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

mydlink	DCS-2332L Setup Wizard
Welcome You will be able to set up your Cloud Camera to use mydlink Cloud service, or you can choose to have the camera run independently.	
Select your language: English Start	
Troubleshooting Downloads	About Exit
Copyright © 2012 D-Link Corpora	ation. All rights reserved.

Note: mydlink portal requires JavaTM to function correctly. For more guidelines, please refer to mydlink FAQ pages at https://eu.mydlink.com/faq/mydlink

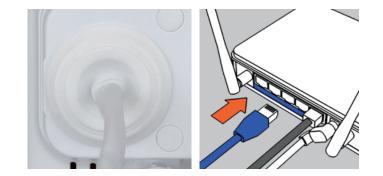
Manual Hardware Installation

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.

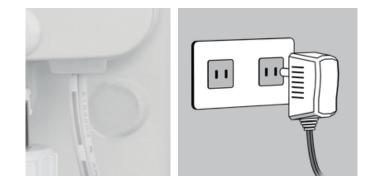
Connect the Ethernet Cable

Using the pre-attached Ethernet cable connect the free end to your network.



Attach the External Power Supply

Attach the external power supply to your wall outlet or power strip.



SD Memory Card Installation

The SD memory card slot is housed behind the lower protective panel on the rear of the device.

Step 1:

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

Step 2:

Carefully pry out the two lower protective rubber grommets using a thin flat blade.

Step 3:

Undo the two screws using a Philips #00 Screwdriver.

Step 4: Lift off the protective panel.

Step 5: Insert a MicroSD Memory Card.

Step 6: Replace the protective panel.

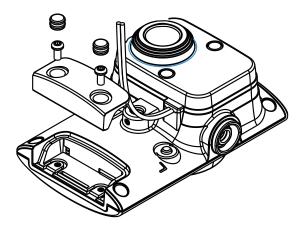
Step 7:

Replace the two screws. Ensure that the screws are tightened firmly.

Step 8:

Firmly replace the protective rubber grommets.

Note: To ensure that the camera stays weatherproof, users are advised to ensure that all the rubber seals are secured firmly in place.



mydlink

After registering your DCS-2332L 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:



For more details on using your camera with mydlink, go to the **Support** section of the mydlink website and check the **User Manual** section for your product to find the latest instruction guide for your camera's mydlink features.

Configuration Using the Configuration Interface

After completing the Camera Installation Wizard, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your DCS-2332L. 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	68.0.102 at DCS-2332L 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

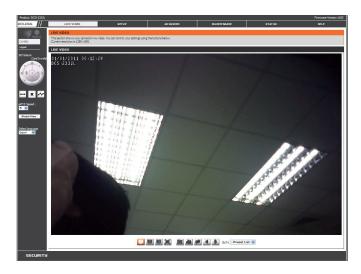
This section shows your camera's live video. You may select any of the available icons listed below to operate the camera. You may also select your language using the drop-down menu on the left side of the screen.

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.

194	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

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."

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.



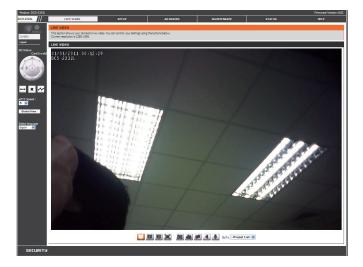
- Video Profile 3
- Full screen mode

Taking a Snapshot

0

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

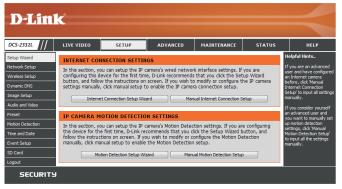
Go To: If any presets have been defined, selecting a preset from this list will (Preset List) display it.



Setup Setup Wizard

To configure your 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 33.

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 44.



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.

welcome to d-link setup wizard - internet connection setup

This wizard will guide you through a step-by-step process to configure your new D-Link IP camera and connect the IP camera to the internet. To set-up your camera motion detection settings, please dick Back button to close this wizard and re-open the motion detection setup wizard.

- Step 1: Setup LAN Settings
 Step 2: Setup DDNS Settings
 Step 3: IP camera Name Settings
- Step 4: Setup Time Zone Back Next Cancel

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

Click Next to continue.

Step 1: Setup LAN Settings

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

۲	DHCP	
	Static IP Client	
	IP address	192.168.0.101
	Subnet mask	255.255.255.0
	Default router	192.168.0.1
	Primary DNS	192.168.0.1
	Secondary DNS	0.0.0
	Enable PPPoE	
	User Name	
		(e.g. 654321@hinet.net)
	Password	
	Back	lext Cancel

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

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

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.

Step 1: Setup LAN Settings

Please select whether your IP camera will connect to the Internet with a DHCP connection or Static IP address. If your IP camera is connected to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of IPLP connection. Otherwise, click on Static IP address to manually assign and IP address before clicking on the Next button.Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next button.Please contact your ISP floation to know your Username and Password.

۲	DHCP			
	Static IP Client			
	IP address	192.168.0.101		
	Subnet mask	255.255.255.0		
	Default router	192.168.0.1		
	Primary DNS	192.168.0.1		
	Secondary DNS	0.0.0.0		
	Enable PPPoE			
	User Name			
		(e.g. 654321@hinet.ne	.t)	
	Password			
	Back	Cancel		

Step 2: Setup DDNS Settings

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

Enable DDNS			
Server Address	www.dlinkddns.com	<< www.dlinkddns.com	-
Host Name			
User Name			
Password			
Verify Password			
Timeout	24	(hours)	
	Back	Cancel	

Step 3: IP camera Name Settings



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

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

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

Click **Apply** to save your settings.

Step 5: Setup complete

	Back button to review or modify settings or click on the Apply down these settings in order to access your IP camera on the
IP Address	DHCP
IP camera Name	DCS-2332L
Time Zone	(GMT+08:00) Taipei
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

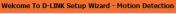
This step will allow you to enable or disable motion detection, specify the detection sensitivity, and adjust the camera's ability to detect movement.

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

Please see **"Motion Detection" on page 44** 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 motion.



Step 1: Specify Motion Detection Area Settings





Back Next Cancel

step 2: Motion Detection Schedule

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.

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.

O not notify me

Email		
	Sender email address	
	Recipient email address	
	Server address	
	User name	
	Password	
	Port	25
◎ FTP		
	Server address	
	Port	21
	User name	
	Password	
	Remote folder name	
		Back Next Cancel

Step 4: 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 :	From0:0To23:59	
Alerts and Notification :	Email	
Back	Apply Cancel	

Step 4: Setup (Jompiete
	I your IP camera setup. Please click the Back button if you want to review or modify your settings or clic to save and apply your settings.
Changes saved.IP	camera's network is restarting, please wait for 6 seconds
	Back Apply Cancel

Network Setup

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

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

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

Static IP Address: You may obtain a static or fixed IP address and other network information from your network administrator for your camera. A static IP address may simplify access to your camera in the future.

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

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



D-Link DCS-2332L User Manual

Section 3: Configuration

Enable UPnP Presentation:	Enabling this setting allows your camera to be configured as a UPnP device on your network.	 Enable UPnP presentation Enable UPnP port forwarding Forwarding Port Forwarding Status 	1024 Test UPnP forwarding is inactive
Enable UPnP Port Forwarding:	Enabling this setting allows the camera to add port forwarding entries into the router automatically on a UPnP capable network.	PPPOE SETTINGS C Enable Disable User Name Password	
Enable PPPoE:	Enable this setting if your network uses PPPoE.	Confirm password PPPoE Status	PPPoE is inactive.
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 HTTP port Access name for stream1 Access name for stream2 Access name for stream3	80 video1.mjpg video2.mjpg video3.mjpg
HTTP Port:	The default port number is 80.	HTTPS HTTPS port 443	
Access Name for Stream 1~3:	The default name is video#.mjpg, where # is the number of the stream.	RTSP Authentication RTSP port Access name for stream1	Disable
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.	Access name for stream2 Access name for stream3	live2.sdp live3.sdp
Authentication:	Depending on your network security requirements, the Network	etwork Camera p	provides three types

- Authentication: Depending on your network security requirements, the Network Camera provides three types of security settings for streaming via RTSP protocol: disable and digest. If digest authentication is selected, user credentials are encrypted using MD5 algorithm, thus providing better protection against unauthorized access.
 - **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./video1.sdp where the x.x.x.x represents the ip address of your camera.
- Access name for stream 1 ~ 3: This Network Camera supports multiple streams simultaneously. The access name is used to differentiate the streaming source (video profile).

- **COS SETTING:** Enabling the Class of Service setting implements a best-effort policy without making any bandwidth reservations.
- QOS SETTING: 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.
 - **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.
 - MULTICAST The DCS-2332L 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	L [0~4095]
Live video	0 -
Live audio	0 🕶
Event/Alarm	0 -
Management	0 -
QOS SETTINGS	
Enable QoS	
	0 -
	0 •
Management	0 -
IPV6	
Enable IPv6	
IPv6 Information	
Manually setup the IP addre	255
Optional IP address / Prefix	clength / 64
Optional default router	
Optional primary DNS	
MULTICAST	
MULTICAST	
Enable multicast for stream 1	239.1.1.1
Enable multicast for stream 1 Multicast group address	239.1.1.1
Enable multicast for stream 1 Multicast group address Multicast video port	6550
Enable multicast for stream 1 Multicast group address Multicast video port Multicast RTCP video port	
Enable multicast for stream 1 Multicast group address Multicast video port	6550
Enable multicast for stream 1 Multicast group address Multicast video port Multicast RTCP video port Multicast addio port	6550 6551 6552
Enable multicast for stream 1 Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port	6550 6551 6552 6553
Enable multicast for stream 1 Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255]	6550 6551 6552 6553
 Enable multicast for stream 1 Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 	6550 6551 6552 64
 Enable multicast for stream 1 Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address 	6550 6551 6552 6553 64 239.1.1.2
 Enable multicast for stream 1 Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port 	6550 6551 6552 64 239.1.1.2 6554
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 Enable multicast for stream 1 Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP udio 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 RTCP video port Multicast RTCP audio port Multicast TTL [1~255] 	6550 6551 6552 6553 64 239,1.1.2 6554 6555 6556 6557
 Enable multicast for stream 1 Multicast group address Multicast group address Multicast adde port Multicast RTCP video port Multicast RTCP 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 RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 3 	6550 6551 6552 6553 64 239,1.1.2 6554 6555 6556 6557 64
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 Enable multicast for stream 1 Multicast group address Multicast group address Multicast adde port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast RTCP video port Multicast RTCP audio 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 video port Multicast RTCP video port Multicast RTCP video port 	6550 6551 6552 6553 64 239.1.1.2 6554 6555 6556 6557 64 239.1.1.3 6558 6559

Wireless Setup

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

- Site Survey: Click the Rescan button to scan for available wireless networks. After scanning, you can use the drop-down box to select an available wireless network. The related information (SSID, Wireless Mode, Channel, Authentication, Encryption) will be automatically filled in for you.
 - **SSID:** Enter the SSID of the wireless access point you wish to use.
- Wireless Mode: Use the drop-down box to select the mode of the wireless network you wish to connect to. Infrastructure is normally used to connect to an access point or router. Ad-Hoc is usually used to connect directly to another computer.
 - **Channel:** If you are using Ad Hoc mode, select the channel of the wireless network you wish to connect to, or select Auto.
- Authentication: Select the authentication you use on your wireless network Open, Shared, WPA-PSK, or WPA2-PSK.
 - **Encryption:** If you use WPA-PSK or WPA2-PSK authentication, you will need to specify whether your wireless network uses TKIP or AES encryption. If you use Open or Shared authentication, WEP encryption should be the setting.
 - Key: If you use WEP, WPA-PSK, or WPA2-PSK authentication, enter the Key (also known as password) used for your wireless network.



Dynamic DNS

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

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

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

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

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

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

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

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DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Setup Wizard Network Setup Werkess Setup Dynamic DNS Image Setup Audio and Video Preset Motion Detection Time and Date Event Setup	(www.yourdoma broadband Interr service, you can address is.	5 feature allows you t in.com) to access you let service providers a enter your domain na cls Free DDNS service Save Setti	IF IP camera with a dissign dynamic (chang me to connect to yo at www.DLinkDDNS.		ddress. Most sing a DDNS	Helpful Hints Dynamic DNS is useful if you have a DSL or Cable service provider that I address periodeally. This will allow you to assign a website domain name b your promes a notesd of address.
SD Card	Server Address Host Name User Name Password Verify Password Timeout Status	www.dlinkdd		<< www.dlinkddns.com (hours)	v	
SECURITY	l.					

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.

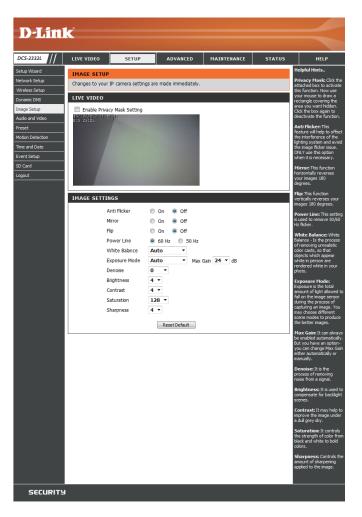
You may click and drag the mouse cursor over the camera image to draw a mask area. Right clicking on the camera image brings up the following menu options:

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.

Anti Flicker	◎ On
Mirror	🔘 On 🔘 Off
Flip	On Off
Power Line	60 Hz 9 50 Hz
White Balance	Auto 🔻
Exposure Mode	Auto • Max Gain 24 • dB
Denoise	0 •
Brightness	4 -
Contrast	4 -
Saturation	128 -
Sharpness	4 •

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.

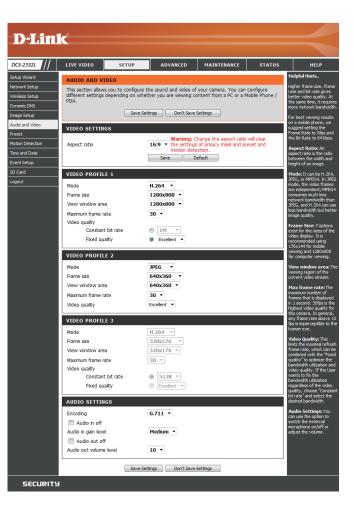
Mode: Set the video codec to be used to JPEG, MPEG-4, or H.264.

Frame size / 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 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.
 - 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.

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CS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
up Wizard	AUDIO AND VI	IDEO				Helpful Hints
eless Setup namic DNS		depending on who	the sound and video of ether you are viewing co ettings Don't Save	intent from a PC or a N		Higher frame size, frame rate and bit rate gives better video quality. At the same time, it requires more network bandwidth.
age Setup dio and Video set	VIDEO SETTIN	GS				For best viewing results on a mobile phone, we suggest setting the Frame Rate to 5fps and
tion Detection e and Date ent Setup	Aspect ratio		16:9 Warning: C the settings motion determined by the settings of the setting		will clear eset and	the Bit Rate to 64 kbps. Aspect Ratio: An aspect ratio is the ratio between the width and height of an image.
Card	VIDEO PROFIL	E 1				Mode: It can be H. 264,
jout	Mode Frame size View window are Maximum frame ra		H.264 ¥ 1280x800 ¥ 1280x800 ¥ 30 ¥			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.
	Video quality Constant Fixed qu VIDEO PROFIL	ality	© 1M ▼ ● Excellent ▼			Frame Size: 7 options exist for the sizes of the video display. It is recommended using 176x144 for mobile viewing and 1280x800 for computer viewing.
	Mode		JPEG -			View window area: The
	Frame size		640x360 ×			viewing region of the current video stream.
	View window are	a	640x360 -			Max frame rate: The
	Maximum frame r Video quality	ate	30 • Excellent •			maximum number of frames that is displayed in 1 second. 30fps is the highest video quality for
	VIDEO PROFIL	E 3				this camera. In general, any frame rate above 15 fps is imperceptible to the
	Mode		H.264 v			human eye. Video Quality: This
	Frame size View window are Maximum frame r Video quality Constant Fixed qu	ate : bit rate	320x176 * 320x176 * 30 * (a) 512K * (b) Excellent *			limits the maximal refresh frame rate, which can be combined with the Tixed quality" to optimize the bandwidth utilization and wide 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 SETTIN	GS				desired bandwidth. Audio Settings: You
	Encoding Audio in off Audio in gain leve	d	6.711 • Medium •			Audio Sectings: rou can use the option to switch the external microphone on/off or adjust the volume.
	Audio out off Audio out volume		10 -			
		Save S	ettings Don't Save	Settings		
SECURITY						

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.

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 Entrance:10 Cubicle:10 Back_Door:10
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.

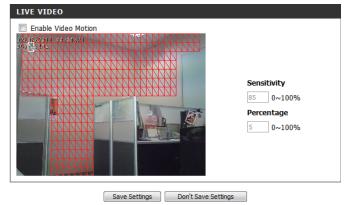
Right clicking on the camera image brings up the following menu options:

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.

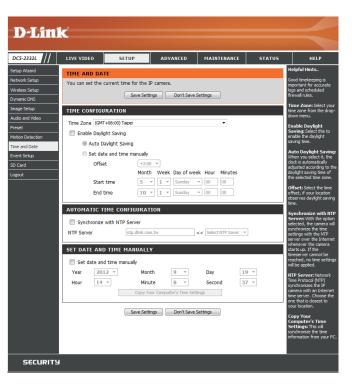
Offset: Sets the amount of time to be added or removed when Daylight Saving is enabled.

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

NTP Server: Network Time Protocol (NTP) synchronizes the DCS-2332L with an Internet time server. Choose the one that is closest to your location.

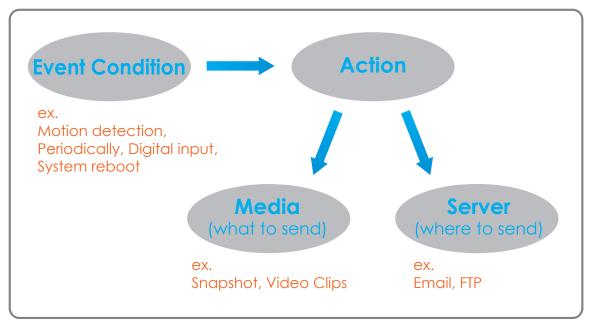
Set the Date and Time Manually: This option allows you to set the time and date manually.

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



Event Setup

In a typical application, when motion is detected, the DCS-2332L 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 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.

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DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Setup Wizard Verbuck Setup Dynamic DNS Image Setup Dynamic DNS Audio and Video Preset Motion Detection Time and Date Event Setup SD Card	Add to pop a win delete the select	dow to add a new ric di tem from event, s . There can be at mo: la configurations. Address/Loca te e: 6700KB pe Source	em of event, server, r erver, media or recor st 2 events and 1 rec	t, server, media and r nedia or recording. The tem family lock on the tem ording. There can be	ecording, Cikk k Delete to name to pop a at most 5	Helpful Hints. Suggest setting server and media first before setting event. The servers and media which additional the vent list are deliver. The server and an event deliver, the server and an event with a server and the server modify them. Recommend them first media na use all media be produced use all media be produced and record correctly. If using the same media in and record correctly, with and record correctly. If using the same media in and record correctly. If using the same interaction of the event barrow of the produced users and the receiver any media the same interac- tion of the server of the same interac- tion of the server of the server of the trade of the server of the server of the server of the trade of the server of the server of the server of the trade of the server of the server of the server of the trade of the server of the server of the server of the trade of the server of the server of the server of the trade of the server of the server of the server of the trade of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the server of the serv
	EVENT Name Statu Add - Dea RECORDING Name Status Add - Dea	sun Mon Tue	e Wed Thu Fri s Wed Thu Fri Sat			would be only notifications.
SECURITY						

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.

S-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
p Wizard	SERVER					Helpful Hints
vork Setup		ost 5 different server	s here for different e	vent.		"Server name" The unique name for server.
eless Setup		Test Save S	ettings Don't Sa	ve Settings		There are four kinds of servers supported. They
amic DNS		Test Jave 3	etangs Don't se	ive seconds		are email server, FTP server, HTTP server and
ge Setup	SERVER TYPE					network storage.
io and Video	Server Name:					Email server: "Sender email
set	Email					address" The email address of the sender.
ion Detection	Send	ler email address				address of the sender. "Recipient email address" The email
e and Date	Recip	pient email address				address of the recipient.
nt Setup Card	Serv	er address				FTP server: "Remote folder
out	User	name				name" Granted folder on the external FTP
	Pass	word				server. The string must
	Port		25			conform to that of the external FTP server.
		This server requires a	secure connection (S	tartTLS)		Some FTP servers cannol accept preceding slash
	© FTP					symbol before the path without virtual path
	Serv	er address				mapping. Refer to the instructions for the
	Port		21			external FTP server for details. The folder
	User	name				privilege must be open for upload.
	Pass	word				"Passive Mode" Check it to enable passive mode
	Rem	ote folder name				in transmission.
		Passive mode				Network storage: Only one network storage is
	Network sto	rage				supported. "Network storage
	Netv	vork storage location				location" The path to upload the media.
	(for	example:\\my_nas\dis	k\folder)			"Workgroup" The workgroup for network
	Wor	kgroup				storage.
	User	name				SD card: Use the SD card for
	Pass	word				recording media.
	Prima	ary 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 page 40 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.

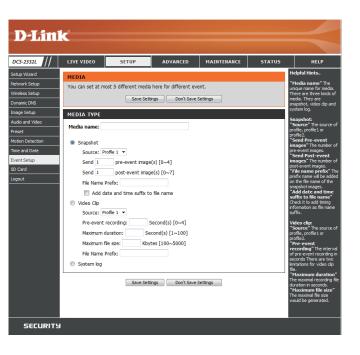
File name prefix: The prefix name will be added on the file name.

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

D-Linl	k					\prec
DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
ebup Wizard etwork Setup manic DNS mage Setup uda and Video eset bition Detection me and Date evel Setup D Cord D Cord	MEDIA TYPE Media name: Snapshot Source: P Send 1 Send 1 File Name 1	Save Setts	(s) [0~4] e(s) [0~7]		- Di Laver VI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Helpful Hints Helpful Hints Helpful mage name for media cesia. They are also the cesia. They are also the cesia. They are also do and ratem tog. a construction of the source of the source of a cost of the source of a cost of the source of a cost of the source of the source of the source of the offic to file name the solid do leng and time offic to file name the solid do leng and time offic to file name the solid do leng and time 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 sour
	Maximum f File Name I O System log	île size: Kbyt	tes [100~5000]	ietängs	P o s fi fi d t T	roffle; profile1 or roffle2. Pre-event coording? The interval fpre-event recording in conds There are two mitations for video dip le. Maximum duration" he maximal recording file uration in seconds. Maximum file size oud be generated.
SECURITY						

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 46 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.

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.

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

D-Lini	- ²					
DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Setup Wizard	EVENT					Helpful Hints
Network Setup Wireless Setup	You can set at m	ost 2 events like mot le at the same time.	tion detection or digit	al input trigger here an	d arrange the	Priority: The event with higher priority will be executed first.
Dynamic DNS		Save Sett	tings Don't Save	Settings		Delay second(s)
Image Setup						before detecting nex event: The delay to
Audio and Video	EVENT					check next event. It is used in motion detection
Preset Motion Detection	Event name:					and digital input trigger type.
Time and Date	Priority: normal					There are five kinds of trigger supported.
Event Setup	Delay for 10 s	econds before detec	ting next event (For	motion detection and o	digital input	Video motion detection: Select the
SD Card Logout	and Passive Infra	red sensor]				windows which need to be monitored.
	TRIGGER Video motion Periodic	n detection				Periodic: The event is triggered in specified intervals. The unit of trigger interval is minute.
	 Periodic Trigger ev System boot 					Digital input: The even is triggered when the DI status changed by external device.
	 Network lost Passive Infra 					System boot: The event is triggered when the system boot up.
	EVENT SCHED		d 🗹 Thu 📝 Fri [🖉 Sat		Network lost: The event is Triggered when the network service is no available or disconnection.
	A (0)	lways rom 00 × 00 ×	To 23 × 59 ×			Passive Infrared sensor: A passive infrared sensor device (PIR) measures infrared light from passing objects in its field of view. It can be worked as a trigger of
	Trigger D/O	for 1 seconds	:			event if this function enabled.
	Server1					Sun ~ Sat: Select the days of the week to perform the event.
	Attached	media: Media1	•			Time: show "Always" or input the time interval.
		Save Sett	ings Don't Save	Settings		The default action are triggering DO and storing media on SD card. If there are servers configured, the user can select them from "Server name", too.
						Trigger DO: Check it to trigger digital output for specific seconds when event is triggered.
						Note: Please Format SD card before use. The entire data in the SD card will be erased after formatting.
SECURITY						

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.



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 ICR and IR

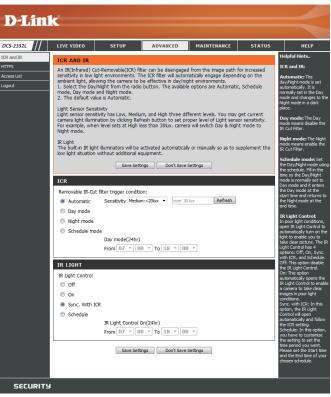
Here you can configure the ICR and IR settings. An IR(Infrared) Cut-Removable(ICR) filter can be disengaged for increased sensitivity in low light environments.

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-2332L.

- 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.

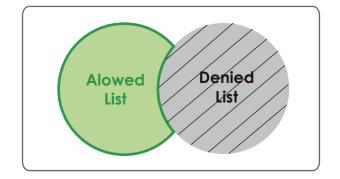
- **End IP address:** The ending IP Address of the devices (such as a computer) that have permission to access the video of the camera.
- **Delete allow list:** Remove the customized setting from the Allow List.
 - **Deny list:** The list of IP addresses that have no access rights to the camera.

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.





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.

Local 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.

D-Lin1						
DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Admin	SYSTEM					Helpful Hints
System Firmware Upgrade	Here you may ba	ckup, restore, and r	eboot your IP camera.			After the factory's default settings have been restored, use the
Logout	SYSTEM					installation wizard software provided with
	Save To Local Ha	ard Drive	Save Configuration			your IP camera to search and connect to the IP camera.
	Load From Local	Hard Drive		Baowse		
			Load Configuration			
	Restore To Facto	ory Defaults	Restore Factory De	efaults		
	Reboot Device		Reboot Device			

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.

DIS						
D -Linl	C					
DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Admin	ADMIN					Helpful Hints
System Firmware Upgrade Logout	Here you can change delete user account(s). You can config also enable the (ure the information, s OSD (On-Screen Displ	IP camera as well as ad such as IP camera's nar ay) feature in order to	me and time	Enabling OSD, the IP camera name and time will be displayed on the video screen for the user.
	ADMIN PASSWOR	D SETTING				For security purposes, it is recommended that you change the password for
	New Password Retype Password		63 Sa	characters maximum ve		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.
	ADD USER ACCOU	INT				
	User Name New Password Retype Password	Add		ers maximum laracters maximum		
	USER LIST					
	User Name	User list 🔹	Delete			
	DEVICE SETTING					
	IP camera Name	DCS-2310L	63 cł	naracters maximum		
	Label Show time	DCS-2310L	63 cł	aracters maximum		
		Save				
SECURITY						

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-2332L, 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.

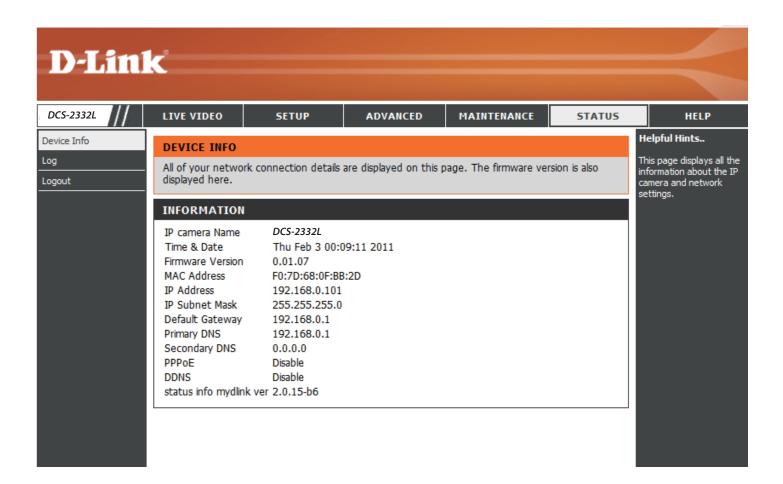
File Path: Locate the file (upgraded firmware) on your hard drive by clicking **Browse**.

Upload: Uploads the new firmware to your camera.



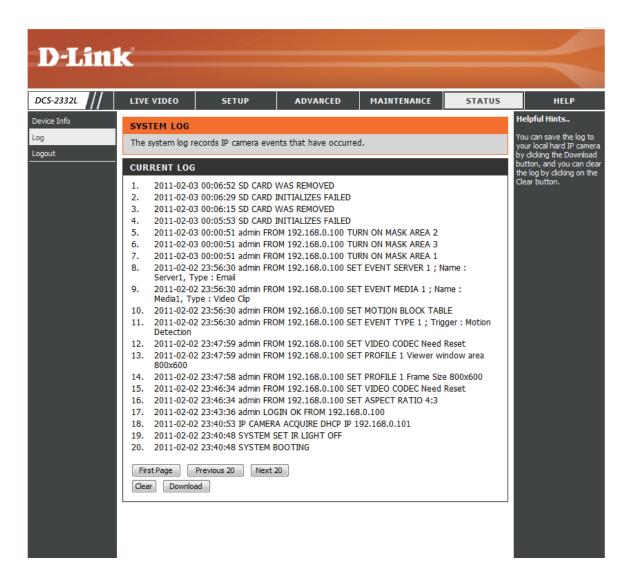
Status Device Info

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.



Help

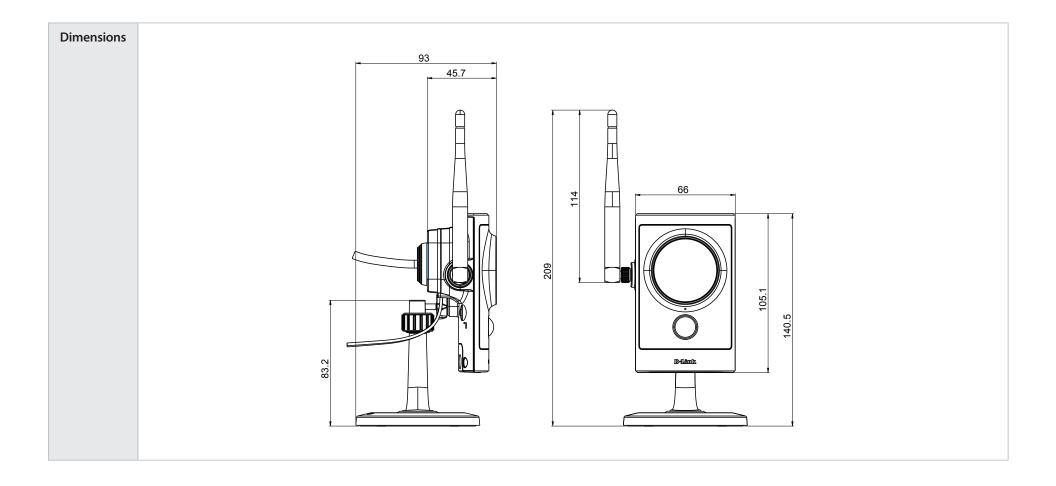
This page provides helpful information regarding camera operation.

D-Lin	k					\prec
DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Help Logout	HELP • LIVE VIDEO • SETUP • MAINTENANCE • ADVANCED • STATUS LIVE VIDEO • Camera SETUP • Setup Wizard • Network Setup • Dynamic DNS • Image Setup • Audio and Video • Preset • Motion Detectio • Time and Date • Event Setup • SD Card	D				
	ADVANCED DI and DO ICR and IR HTTPS Access List MAINTENANCE Admin System Firmware Upgra STATUS Device Info Log	de				
SECURITY						

Technical Specifications

Camera	Camera Hardware	1/4" Megapixel progressive CMOS sensor	10x digital zoom
	Profile	5 meter IR illumination distance	Focal length: 3.45 mm
		Minimum illumination: 0 lux with IR LED on	Aperture: F2.0
		Built-in Infrared-Cut Removable (ICR) Filter module	Angle of view:
		 Built-in PIR sensor (5 meter) 	■ (H) 57.8°
		 Built-in microphone and speaker 	■ (V) 37.8°
			■ (D) 66°
	Image Features	 Configurable image size, quality, frame rate, and bit rate 	 Configurable privacy mask zones
		Time stamp and text overlaysConfigurable motion detection windows	 Configurable shutter speed, brightness, saturation, contrast, and sharpness
	Video Compression	 Simultaneous H.264/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	10/100 BASE-TX Fast Ethernet port	MicroSD/SDHC card slot
	Interface	IEEE 802.11n 2.4GHz single band wireless	
Network	Network Protocols	IEEE 802.11n 2.4GHz single band wireless	HTTP / HTTPS
		IPv6	Samba Client
		IPv4	PPPoE
		TCP/IP	UPnP port forwarding
		UDP	RTP / RTSP/ RTCP
		ICMP	IP filtering
		DHCP client	QoS
		NTP client (D-Link)	CoS
		DNS client	Multicast
		DDNS client (D-Link)	IGMP
		SMTP client	ONVIF compliant
		FTP client	
	Security	 Administrator and user group protection 	 HTTP and RTSP digest encryption
		Password authentication	

System Management	System Requirements for Web Interface	 Operating System: Microsoft Windows 7/Vista/XP/2000 	 Browser: Internet Explorer, Firefox, Chrome, Safari
	Event Management	 Motion detection Event notification and uploading of snapshots/video clips via e-mail or FTP 	 Supports multiple SMTP and FTP servers Multiple event notifications Multiple recording methods for easy backup
	Remote Management	 Take snapshots/video clips and save to local hard drive or NAS via web browser 	 Configuration interface accessible via web browser
	Mobile Support	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	255 g	
	External Power Adaptor	Input: 100 to 240 V AC, 50/60 Hz	Output: 5 V DC, 1.2 A
	Power Consumption	5.5 Watts	
	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 IP65 IC



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