D-Link®

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User Manual

Vigilance 360° Full HD PoE Network Camera

DCS-4622

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.

Manual Revisions

Revision	Date	Description
1.00	09/13/2016	DCS-4622 Revision A1 with firmware version 1.00
1.01	02/24/2017	Minor updates

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Product Overview

Package Contents

DCS-4622 Vigilance 360° Full HD PoE Network Camera

Mounting Kit

CD-ROM with User Manual and software

Quick Installation Guide

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

Safety Notice: Installation and servicing should be done by certified technicians so as to conform to all local codes and prevent voiding your warranty.

Introduction

Congratulations on your purchase of the DCS-4622 Vigilance 360° Full HD PoE Network Camera. The DCS-4622 is a professional surveillance and security solution for small, medium, and large enterprises alike. The DCS-4622 uses a Full HD progressive scan CMOS sensor; the professional sensor results in low noise and high sensitivity capabilities ideal for surveillance applications.

The DCS-4622 is a complete system with a built-in CPU and incorporates a web server, allowing it to transmit excellent real-time Full HD resolution video for security and outdoor surveillance.

The DCS-4622 can be accessed remotely, controlled and configured 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 configuration across the full range of its advanced feature set, including granular control over multiple video streams with different configurations and multicast video streams which helps you manage your network load.

The built-in removable IR-cut filter and IR LEDs give the DCS-4622 the capability to view up to 8M at night. The DCS-4622 also incorporates Power over Ethernet (PoE), allowing it to be easily installed in a variety of locations without the need for supplemental power cabling. The combination of an IR-Cut Filter, IR LEDs, and PoE make the DCS-4622 an ideal solution for a dependable and cost-effective 24 hour surveillance solution with easy clutter-free installation.

System Requirements

- Computer with Microsoft Windows® 10, 8, 7, or Vista® (for CD-ROM Setup Wizard), Mac OS X, or Linux
- Internet Explorer 7, Firefox 20, or Safari 6 or higher
- Existing 10/100 Ethernet-based network with an available 802.3af Power over Ethernet (PoE) port

Features

360 Degree Surveillance
The built-in fisheye lens gives you a full 360 degrees of coverage, allowing it to monitor an entire room with ease. It can also be placed on a wall for 180 degree coverage of a hallway. Distortion correction gives you a panoramic view or a normal corrected image that you can pan across easily.

Supports a Variety of Platforms
With support for TCP/IP networking, HTTP, and other Internet related protocols, the DCS-4622 can also be integrated easily into other Internet/Intranet applications because of its standards-based features. The DCS-4622 works with any 10/100 Ethernet network, making the DCS-4622 easy to integrate into your existing network environment.

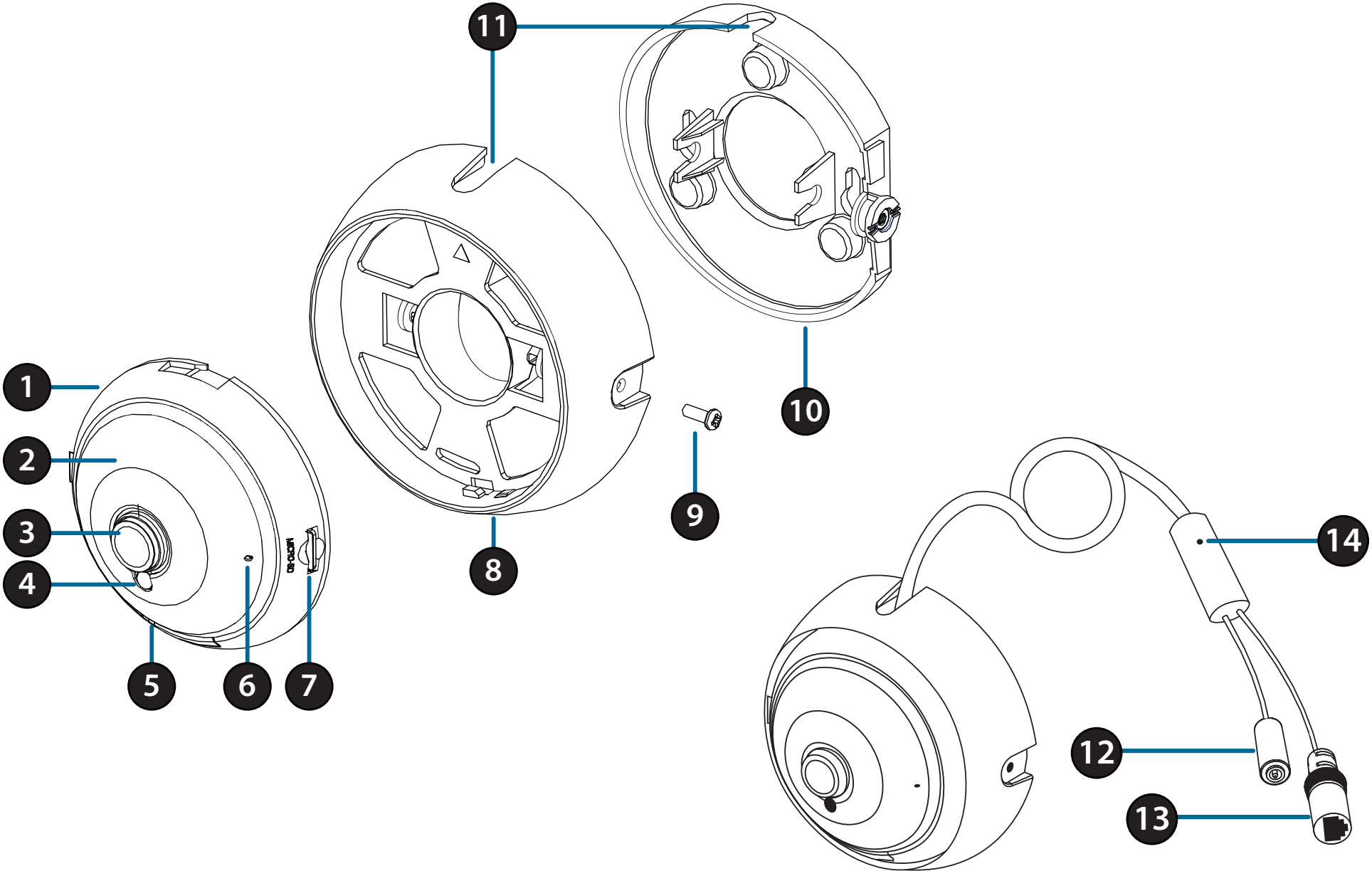
Advanced Event Management
The DCS-4622 can be set up to send e-mail notifications with snapshots when an event occurs, such as when motion is detected. Events can be triggered from several sources, such as motion detection and time based events.

IR LEDs for Day and Night Functionality
The built-in infrared LEDs enable night time viewing of up to 20 meters.

PoE (Power over Ethernet) for Flexible Installation
The DCS-4622 can draw all the power it needs from a PoE switch or PoE injector for a simple and clutter-free installation.

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.

Hardware Overview



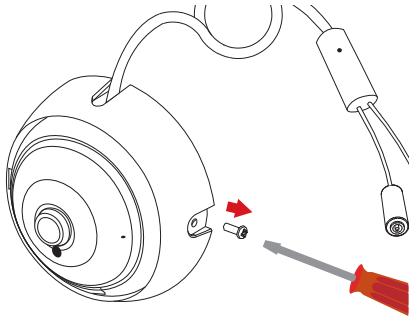
1	**Speaker (on back)**	Onboard speaker for 2-way communication.
2	**IR LEDs (behind cover)**	Provide illumination for low-light environments.
3	**Camera Lens**	Fixed lens to record video of the surrounding area.
4	**Light Sensor**	The light sensor measures the lighting conditions and switches between color and infrared accordingly.
5	**Power/Status LED**	Red: Camera is on, but not connected to the network Green: Camera is on and is connected to the network Flashing Green: Camera is currently streaming video
6	**Microphone**	Records audio from the surrounding area.
7	**microSD Card Slot**	You can insert a microSD card to save snapshots and video to it.
8	**Camera Mount**	Remove the camera from the camera mount by turning the camera counter-clockwise. Lock the camera in the camera mount by turning the camera clockwise.
9	**Tilt Adjustment Screw**	Can be loosened to adjust camera angle, or removed when separating the camera cover from the mounting plate.
10	**Mounting Plate**	Use the holes on the mounting plate to mount the camera to a ceiling or wall.
11	**Cable Channels**	The camera cable can be passed through the cable channels or the center of the camera mount when mounting it.
12	**Power Connector**	Connects to an optional 12 V / 1.5 A power adapter (not included).
13	**Ethernet Jack**	RJ-45 connector for Ethernet to connect the camera to your network.
14	**Reset Button**	Press and hold for 10 seconds to reset camera back to the factory default settings.

Installation

Mounting the Camera

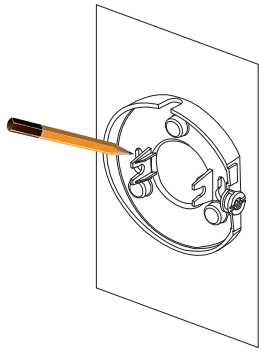
It is highly recommended that you configure and test your camera before mounting it.

Use a screwdriver to unscrew the tilt adjustment screw. Pull the mounting plate away from the camera mount.



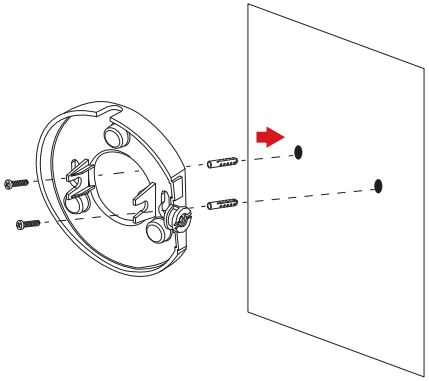
Place the mounting plate where you want to position the camera and use a pencil to mark the two mounting holes.

If you wish to run the camera cables through the wall or ceiling, mark the center hole as well.

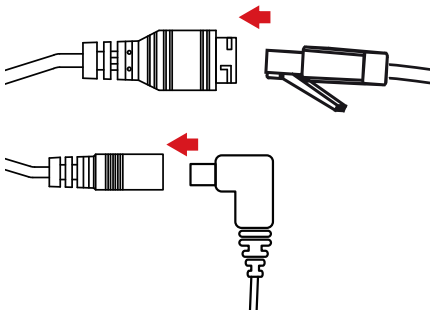


Use a 6 mm drill bit to make the required holes approximately 25 mm deep, then insert the wall anchors into the holes. Use the screws provided to attach the mounting bracket to the wall.

If you wish to run the camera cables through the wall or ceiling, drill the center hole for the camera cables to pass through.

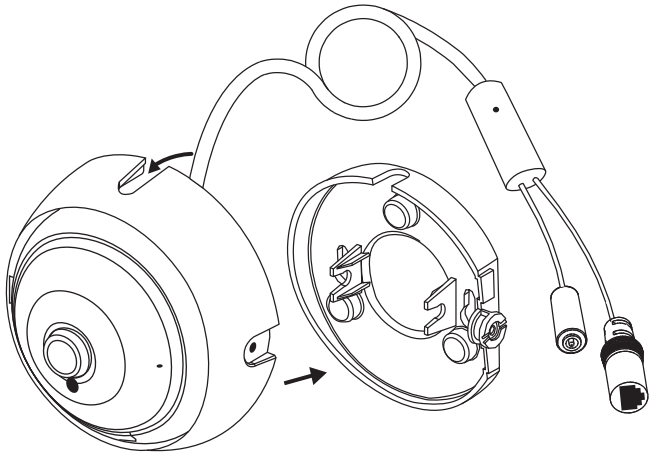


Use an Ethernet cable to connect the camera's Ethernet jack to your PoE switch or injector. If you are not using PoE to power the camera, you may connect a 12 V 1.5 A power adapter to the power connector.

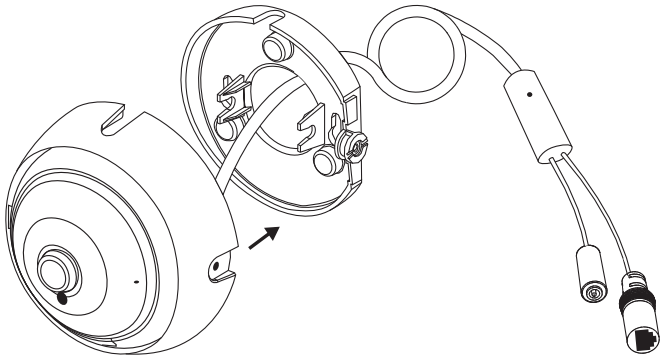


Attach the camera mount to the mounting plate.

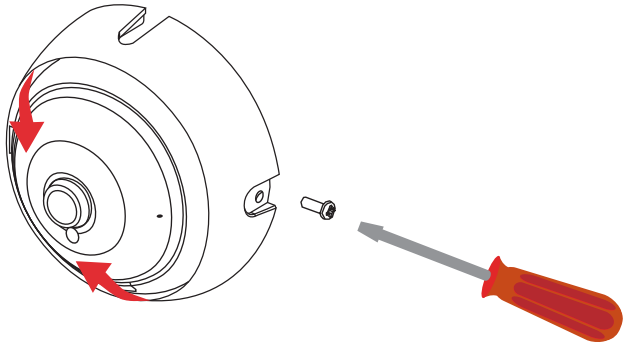
If you are running the camera cables out the side of the camera, guide the camera cables through the cable channel on the camera mount.



If you wish to run the camera cables through the wall or ceiling, pull the cables through the hole.



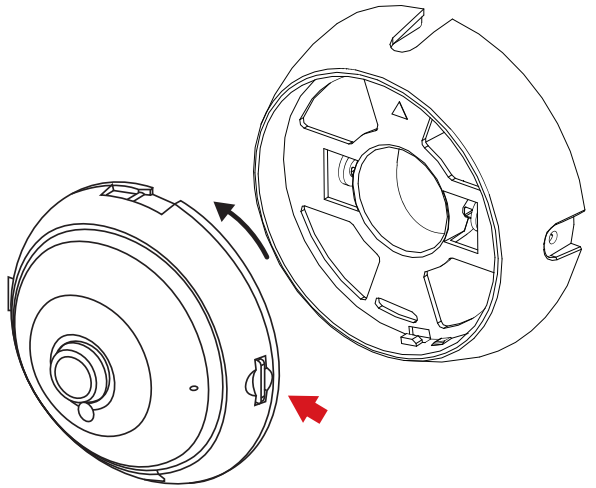
Adjust the angle of the camera, then screw in the tilt adjustment screw until it is snug.



If you wish to insert a microSD card, remove the camera from the camera mount by turning the camera counter-clockwise and lifting it away from the camera mount.

Insert the microSD card with the contacts facing you.

Reattach the camera to the camera mount and turn it clockwise to lock it in place.

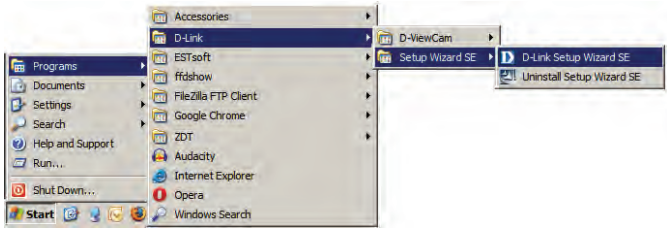


Software Installation

Step 1
Insert the DCS-4622 CD into your computer's CD-ROM drive to begin the installation.

If the Autorun function on your computer is disabled, or if the D-Link Launcher fails to start automatically, click the Start button and type **D:\autorun.exe** (where D: represents the drive letter of your CD-ROM drive) and press Enter.

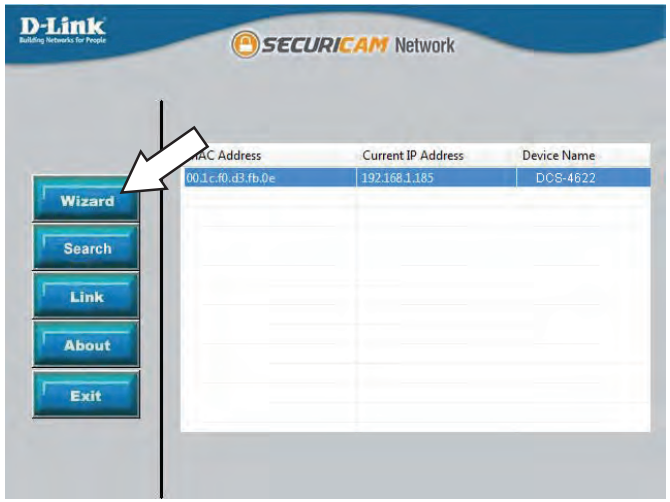
Step 2
Click on the **D-Link Setup Wizard SE** icon that was created in your Windows Start menu (**Start > D-Link > Setup Wizard SE**).



Step 3

The Setup Wizard will appear and display the MAC address and IP address of your camera(s). If you have a DHCP server on your network, a valid IP Address will be displayed. If your network does not use a DHCP server, the network camera's default static IP **192.168.0.20** will be displayed.

Select your camera, then click the **Wizard** button to continue.

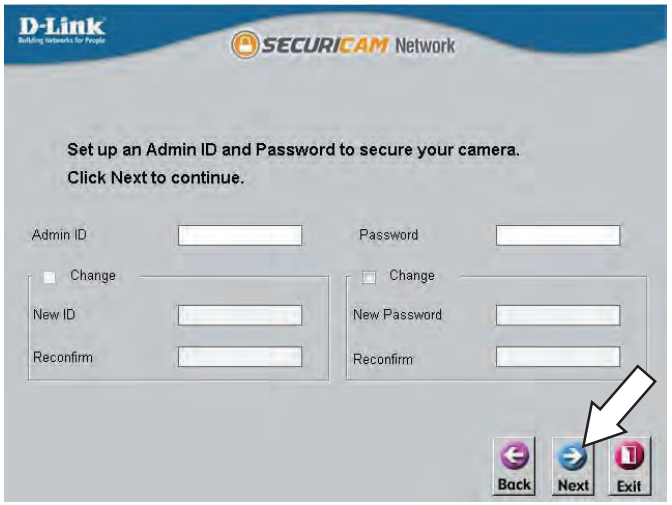


Step 4

Enter the Admin ID and password. When logging in for the first time, the default Admin ID is **admin** with the password left blank.

Click the checkboxes if you wish to change the admin ID and password for the camera, and enter the new ID and password you wish to use.

Click **Next** to continue.



Step 5
Select **DHCP** if your camera obtains an IP address automatically from a DHCP server such as a router. Select **Static IP** if you want to manually enter the IP settings for the camera.

Click **Next** to continue.

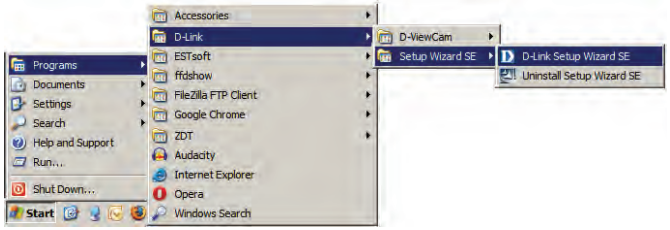
Step 6
Take a moment to confirm your settings and click **Restart**.

Configuration

Using the Configuration Interface

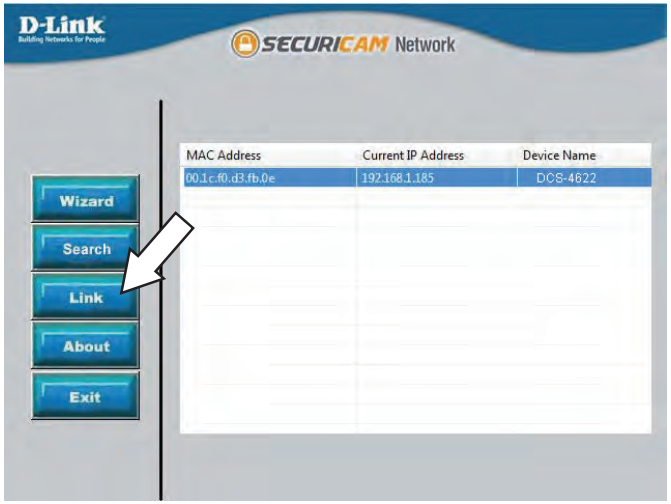
After completing the Camera Installation Wizard, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your DCS-4622. At the end of the wizard, click **Link**, or enter the IP address of your camera into a web browser, such as 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**.

Step 1
Click on the **D-Link Setup Wizard SE** icon that was created in your Windows Start menu (**Start > D-Link > Setup Wizard SE**).

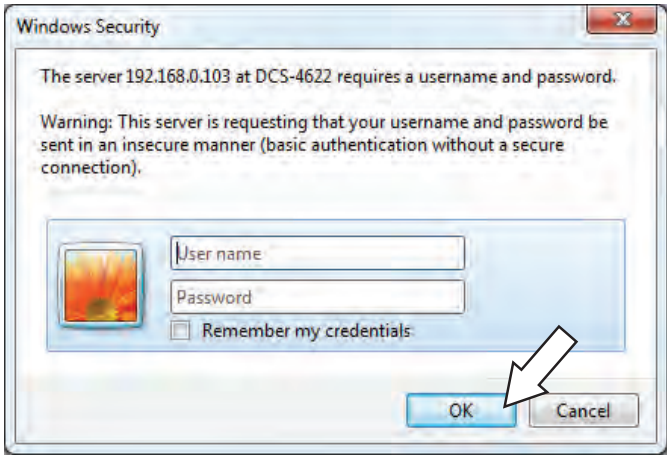


Step 2
Select the camera and click **Link** to access the web configuration.

The Setup Wizard will automatically open your web browser to the IP address of the camera.

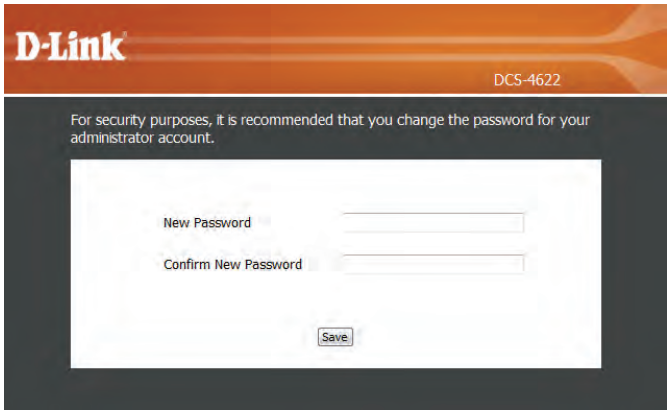


Step 3
Enter **admin** as the default username and leave the password blank. Click **OK** to continue.



Step 4
Enter a password to use for your camera, then click the **Save** button.

You will be directed to the Live View page, and you can now start using and configuring your camera.



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.

	**Motion Trigger Indicator**	This indicator will change color when a trigger event occurs. **Note:** The video motion feature for your camera must be enabled.
	**Recording Indicator**	When a recording is in progress, this indicator will change color.
	**Control Pad**	This control pad can be used to electronically pan, tilt, and zoom (ePTZ) within the camera's predefined view area, if one has been defined. Click on the arrows to move the view in that direction. Click on the inside buttons to zoom in and out of the image. Click the center to return to the home position.
	**Auto Pan**	Click this to start automatically panning the currently selected view.
	**Stop**	Click this to stop any auto pan or preset sequence actions.
	**Patrol**	After creating a list of preset ePTZ camera positions, click this to automatically cycle through the preset sequence. Presets only apply to the square viewing windows in Multi-View with Fisheye, Multi-View, and Mixed View display modes.

Display Modes

Please note that presets only apply to the square viewing panels and are not used with Fisheye View or Panoramic View.

	Fisheye View	This shows the full camera view.
	Normal View	This shows a corrected view that you can move by using the directional controls. This is the only view that will be available if the camera's **Mount Type** is set to **Wall** in **Setup** > **Image Setup**. For more details, refer to **Image Setup** on page 29.
	Multi-View with Panorama	This shows a multi-panel view, with a full panorama in the bottom panel. The top video panels are distortion corrected and their positions can be adjusted by clicking the panels and using the directional controls.
	Panoramic View	This shows a full 360° horizontal view across 2 video panels. You can pan the views left and right by using the directional controls.
	Mixed View	This shows 3 normal corrected views with a full fisheye view in the top-right panel. Each normal view is distortion corrected and their positions can be adjusted by clicking the panel and using the directional controls.
	Multi-View	This shows a multi-panel view. Each panel is distortion corrected and their positions can be adjusted by clicking the panel and using the directional controls.

Fisheye View

Normal View

Multi-View with Panorama

Panoramic View

Mixed View

Multi-View

Pan/Tilt/ Zoom/ Auto Pan/ Sequence Speed You can set how fast the camera will pan/tilt/zoom/auto pan or move through your preset sequence.

Home Definition: Click the **Set as Home** button to set the current position as the camera's home position.

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

	Video Profile 1/2	Select a video profile to use. For more on setting up your video profiles, refer to **Audio and Video on page 31**.
	Full Screen Mode	This will switch to a full-screen view of your camera's video. Double-click or press the Esc key to exit full-screen mode.
	Take a Snapshot	This will save a snapshot to your PC using the storage folder you have selected.
	Record a Video Clip	This will start recording a video clip to your PC using the storage folder you have selected. Click it again to stop recording. If you close the browser window, the recording will stop.
	Set a Storage Folder	Select a storage folder to save snapshots and video clips to.
	Listen/Stop Audio In	Toggles incoming audio from the camera's microphone on and off.
	Talk/Stop Audio Out	Toggles outgoing audio from your PC's microphone to the camera's speaker on and off.

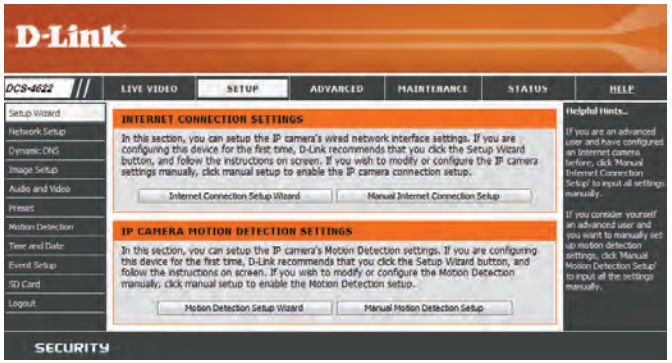
Go To: You can move the currently selected view to one of your preset positions by selecting it from the drop-down menu.

Setup

Setup Wizard

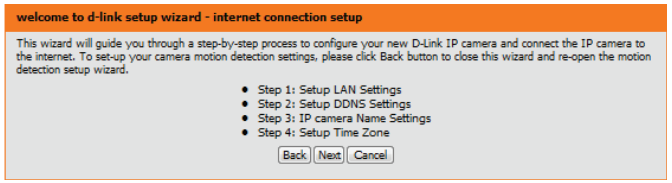
To configure your Network Camera, click **Internet Connection Setup Wizard**. Alternatively, you may click **Manual Internet Connection Setup** to manually configure your Network Camera and skip to **Network Setup** on page 25.

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 33.



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.



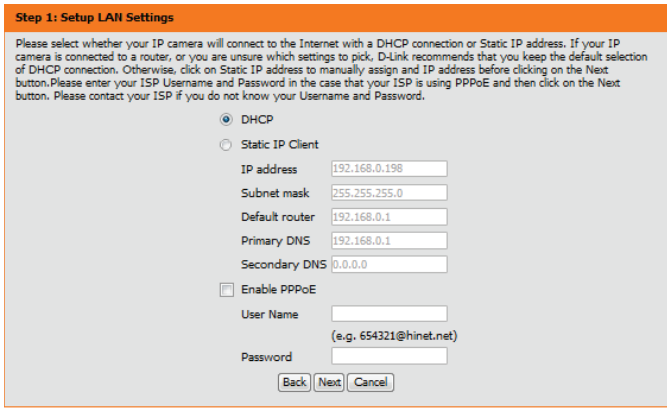
Select how the camera will connect to the Internet.

If your camera is connected to a router, or you are unsure how your camera will connect to the Internet, select **DHCP Connection**.

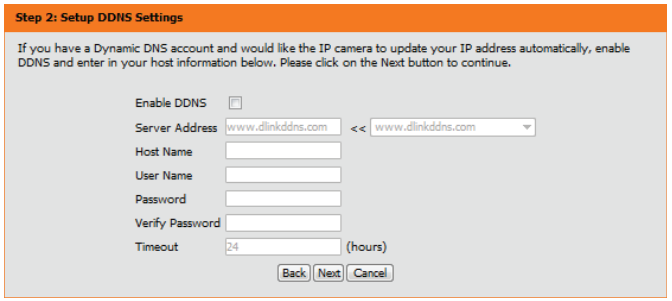
Select **Static IP** if your Internet Service Provider has provided you with connection settings, or if you wish to set a static address within your home network. Enter the correct configuration information and click **Next** to continue.

If you are using PPPoE, select **Enable PPPoE** and enter your user name and password.

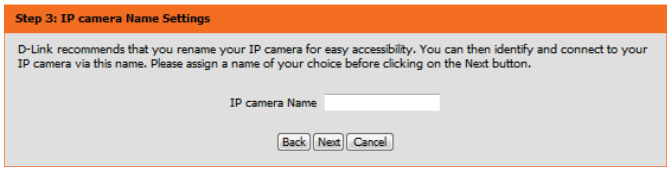
Click **Next** to continue.



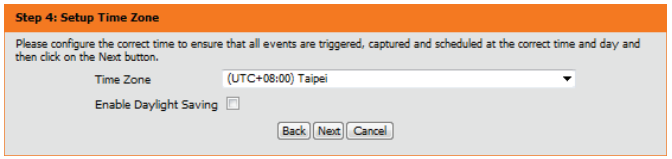
If you have a Dynamic DNS account and would like the camera to update your IP address automatically, Select **Enable DDNS** and enter your host information. Click **Next** to continue.



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

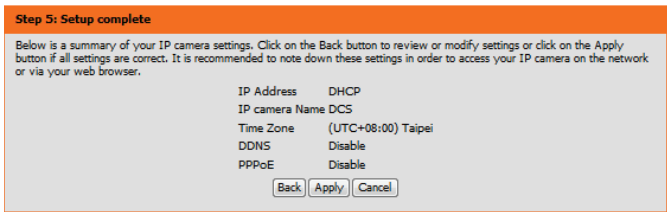


Configure the correct time to ensure that all events will be triggered as scheduled. Click **Next** to continue.



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

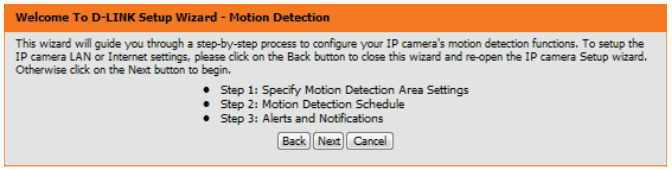
Click **Apply** to save your settings.



Motion Detection Setup Wizard

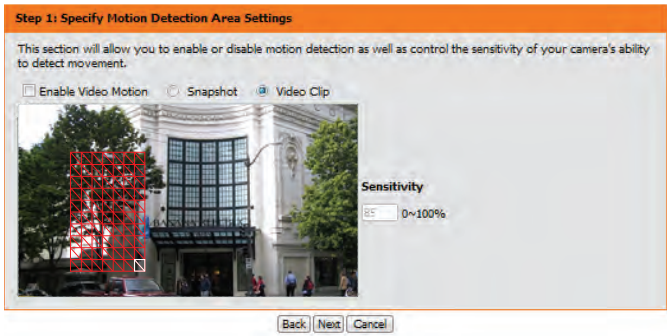
This wizard will guide you through a step-by-step process to configure your camera's motion detection functions.

Click **Next** to continue.



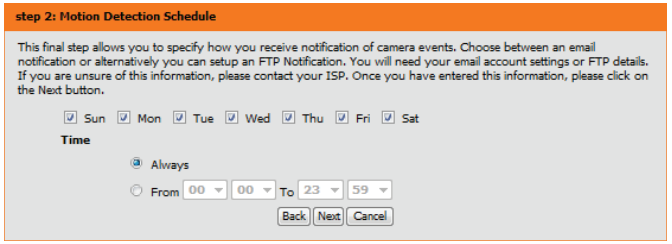
Step 1
This step will allow you to enable or disable motion detection, specify the detection sensitivity, and adjust the camera's ability to detect movement.

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



Refer to **Motion Detection** on page 33 for information about how to configure motion detection.

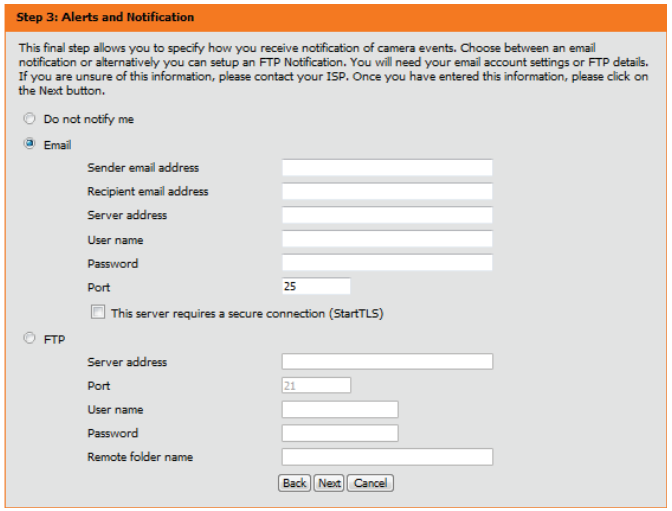
Step 2
This step allows you to enable motion detection based on a customized schedule. Specify the day and hours. You may also choose to always record whenever motion is detected.



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.

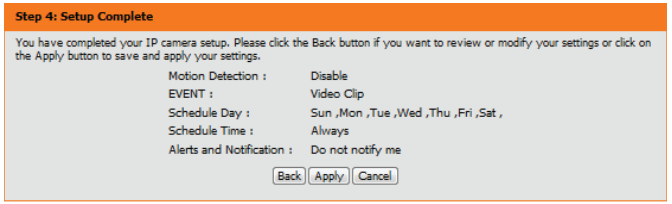
Please enter the relevant information for your e-mail or FTP account.

Click **Next** to continue.

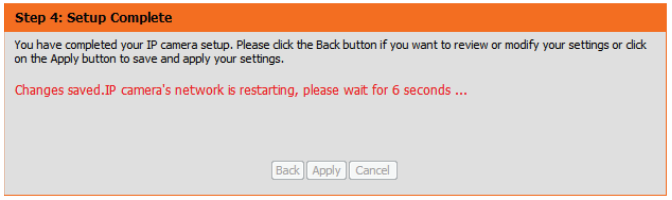


Step 4
You have completed the Motion Detection Wizard.

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



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



Network Setup

Use this section to configure the network settings for your camera. 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.

IP Address: Enter the IP address that the camera will use on your network. You may need to get this information from your ISP or network administrator.

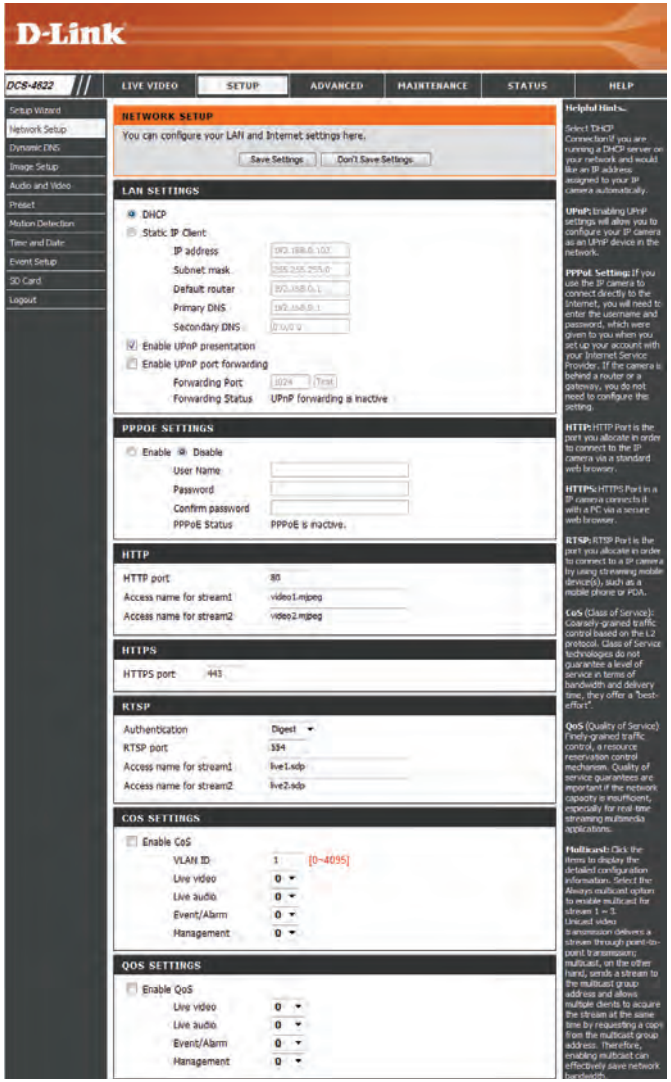
Subnet Mask: This is used to determine if the destination is part of the same subnet. The default value is 255.255.255.0.

Default Router: Enter the IP address of the router used to forward frames to destinations in a different subnet. Invalid router settings may cause the failure of transmissions to a different subnet.

Primary DNS: Enter the IP address of the primary domain name server that translates names to IP addresses.

Secondary DNS: Enter the IP address of the secondary domain name server to serve as a backup for 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 to the router automatically on a UPnP capable network. If you enable this setting, enter the **Forwarding Port** to use.

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 1/2: 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.

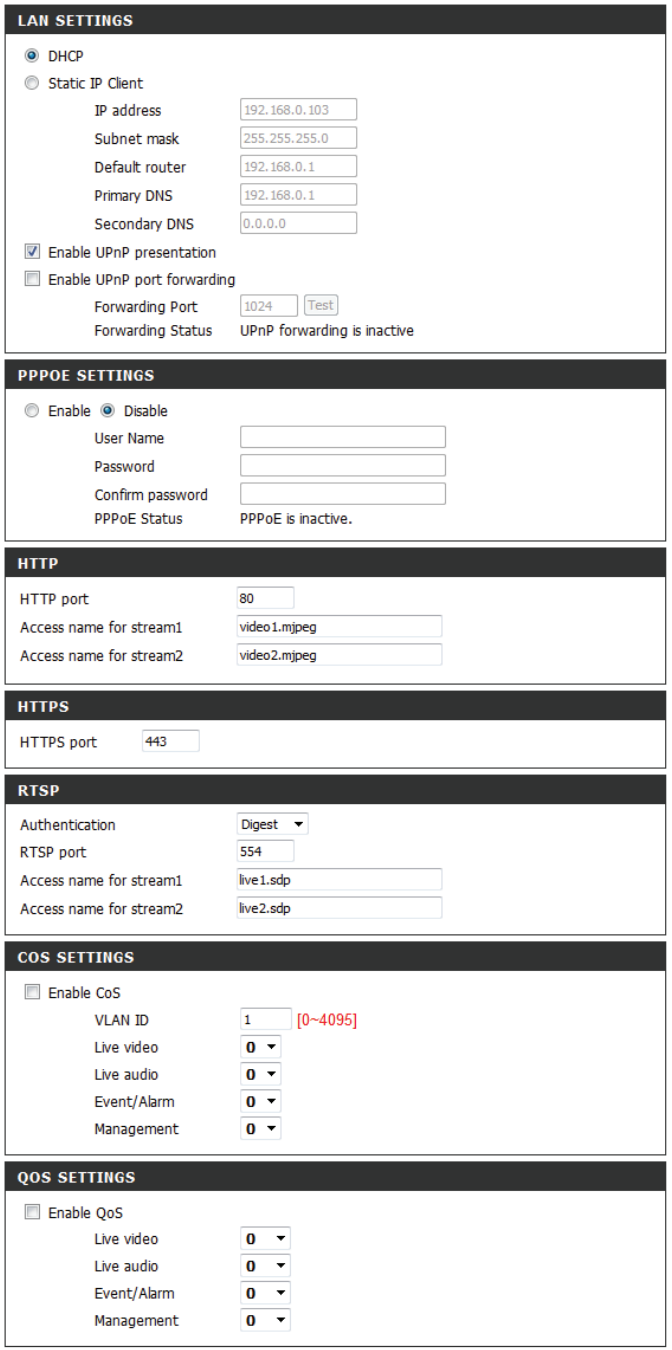
Authentication: Choose to enable or disable RTSP digest encryption. Digest encryption uses MD5 hashes.

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.

Access Name for Stream 1/2: You may specify the address of a particular stream. For instance, live1.sdp can be accessed at rtsp://x.x.x.x/video1.sdp where the x.x.x.x represents the IP address of your camera.

Enable CoS: Enabling the Class of Service setting implements a best-effort policy to prioritize traffic without making any bandwidth reservations.

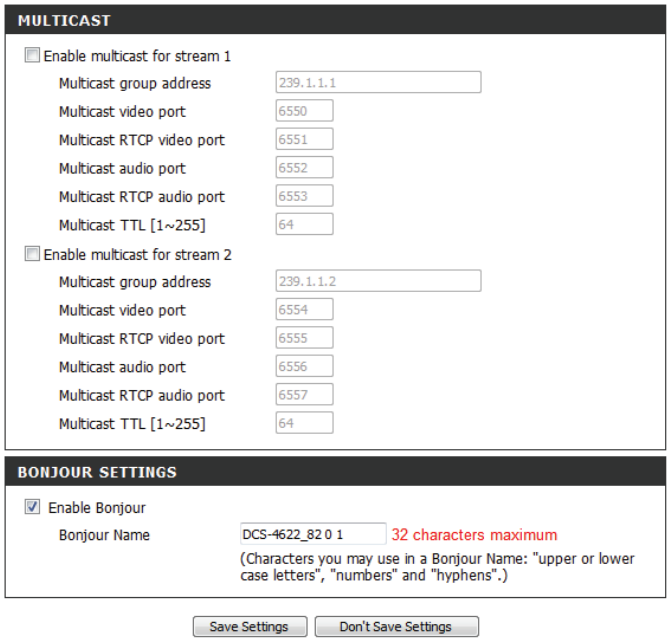
Enable QoS: Enabling QoS allows you to specify a traffic priority policy to ensure a consistent Quality of Service during busy periods. If the Network Camera is connected to a router that itself implements QoS, the router's settings will override the QoS settings of the camera.



Enable Multicast for stream: The DCS-4622 allows you to multicast each of the available streams via a group address and specify the TTL value for each stream. Enter the port and TTL settings you wish to use if you do not want to use the defaults.

Enable Bonjour: Checking the **Bonjour** box will allow the camera to be discoverable on the network and visible to Apple devices.

Bonjour Name: Enter the name to identify this camera on Bonjour.



Dynamic DNS

DDNS allows you to access your camera using a domain name instead of an IP address. To do this, you will need to have an account with one of the DDNS services listed in the drop-down box on this page. After making any changes, click the **Save Settings** button to save your changes.

Enable DDNS: Check this box to enable the DDNS function.

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

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

User Name: Enter the username or e-mail address used to connect to the DDNS server.

Password: Enter the password used to connect to the DDNS server.

Timeout: You can set up how often the camera notifies the DDNS server of its current global IP address by entering a whole number in hours.

Status: This shows the current status of your DDNS updates.

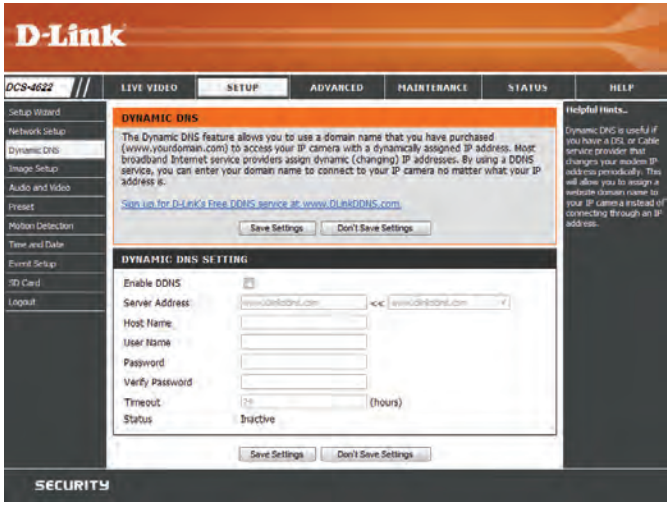
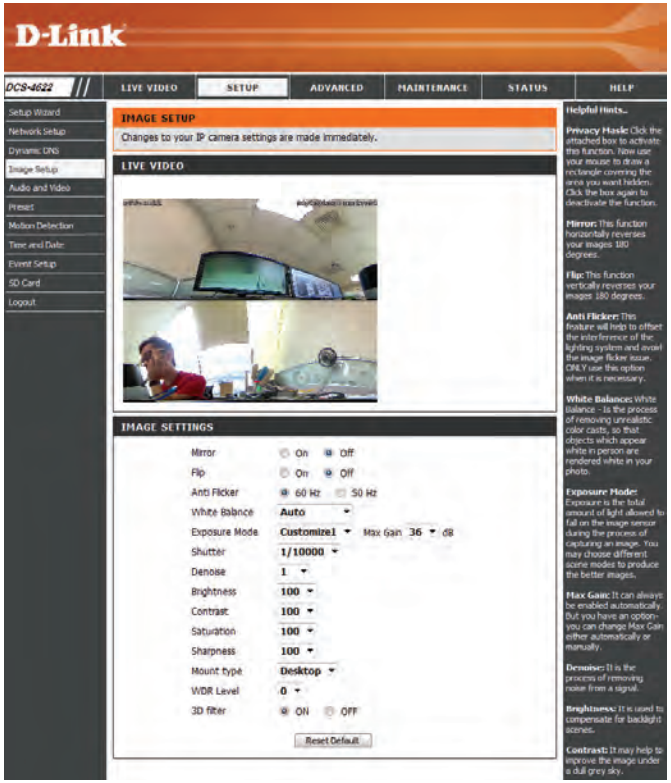


Image Setup

In this section, you may configure the video image settings for your camera. A preview of the image will be shown in Live Video.



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.

Anti Flicker: Select the frequency used by your power lines to avoid camera flicker or moving bars in your video. Generally, if your power outlets are 220 to 240 V, you should select **50 Hz**. If your power outlets are 100 to 120 V, you should select **60 Hz**.

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, and Fluorescent.

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.

Shutter: This setting will appear if a custom Exposure Mode is selected. Set the minimum and maximum shutter speed (in seconds) the camera will use. Shorter shutter speeds will provide a sharper picture, but require more available light. Longer shutter speeds will provide a brighter picture in low-light environments, but may blur objects that are in motion.

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.

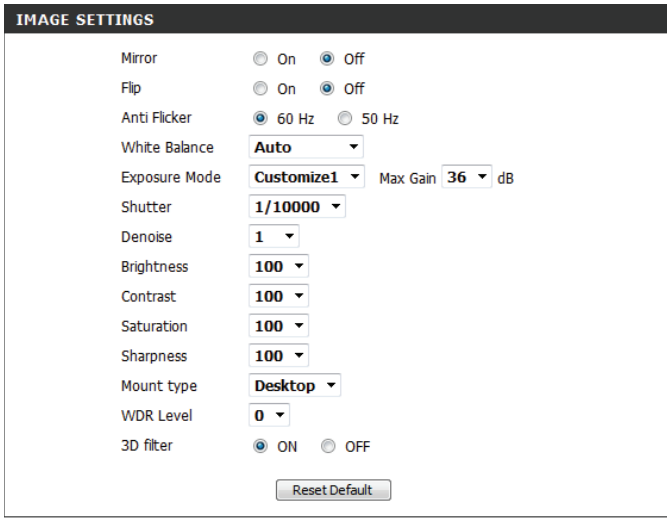
Sharpness: Specify a value from 0 to 8 to specify how much sharpening to apply to the image.

Mount Type: Set whether your camera is mounted on a **Desktop**, **Wall**, or **Ceiling**. This will allow the camera to adjust and orient the video accordingly and allow the ePTZ controls to work properly. Please note that when **Wall** is selected, you will only be able to use the 180° display mode on the Live Video page.

WDR Level: WDR makes it easier to see objects that may appear dark due to strong backlighting conditions during the daytime. Higher WDR levels will make it easier to see objects in shadows.

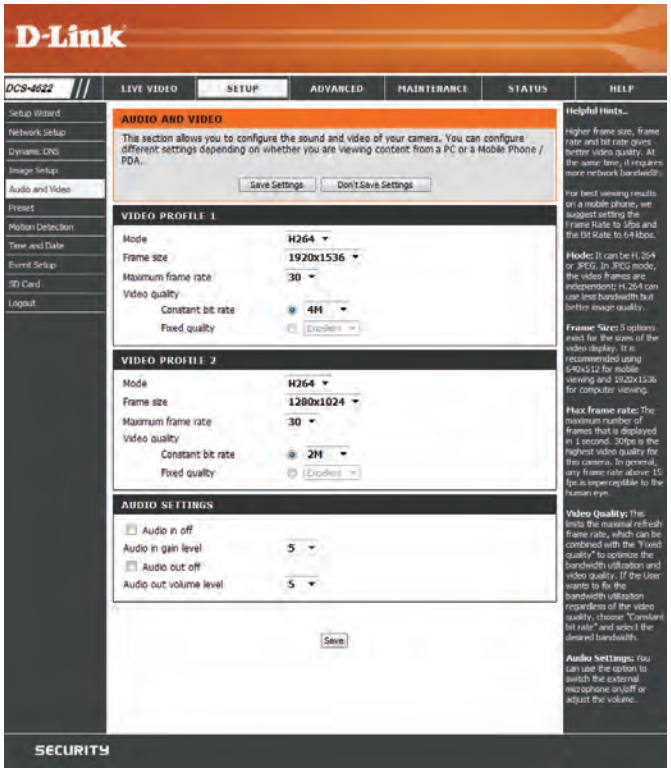
3D Filter: 3D filtering reduces the amount of image noise when viewing a low-light environment. Higher levels of 3D filtering will apply stronger levels of noise reduction.

Reset Default: Click this button to reset the image settings to the factory defaults.



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. After making any changes, click the **Save** button to save your changes.



Mode: Set the video codec to be used to H.264 or JPEG.

Frame size: Select what frame size to use. Frame size determines the total capture resolution. Larger frame sizes provide more detail, but will require more bandwidth.

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 require less bandwidth.

Video Quality: You can adjust the quality and bandwidth usage of the camera by selecting a **Constant bit rate** (if H264 is selected) or **Fixed quality** level (if JPEG is selected).

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 and use more bandwidth.

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

Audio in off: Selecting this checkbox will mute incoming audio coming from the camera's microphone.

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 to the camera from your PC's microphone.

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

Preset

This page 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.

Presets only apply to the square viewing windows in Multi-View with Fisheye, Multi-View, and Mixed View display modes.For more details, refer to **Live Video** on page 17.

Video Profile: This selects which video profile to use.

Control Pad: Use these buttons to move to a specific part of the viewing area, which you can then set as a preset. Click on the inside buttons to zoom in and out of the image. Click the center to return to the home position.

Pan/Tilt/Zoom/ Auto Pan Speed You can set how fast the camera will pan/tilt/zoom and auto pan.

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. To add a preset to the sequence, select it from the drop-down box, then click the **Add** button. You can move the selected preset earlier or later in the sequence by clicking the arrow buttons, and you can remove a preset by selecting it and clicking the trashcan button. You can also set how fast the camera will cycle through the preset sequence by setting the **Sequence Speed**.

Motion Detection

Motion detection enables the camera to monitor the video feed for movement. Here, you can adjust the sensitivity settings that determine whether motion is detected by the camera or not. 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 how sensitive motion detection will be from 0% to 100%. A low sensitivity setting means that there must be large changes between two images in order to detect motion, and a high sensitivity setting means that even small changes will cause motion to be detected.

Draw Motion Area: Use your mouse to click and drag on the areas that you would like to monitor for motion.

Right click on the camera image to bring 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

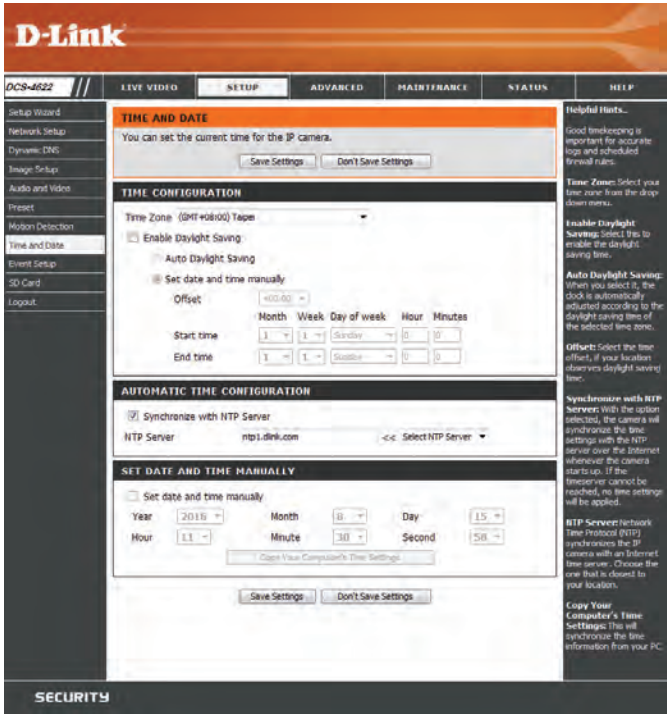
This section allows you to automatically or manually configure, update, and maintain the internal system clock for your camera. After making any changes, click the **Save Settings** button to save your changes.

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

Enable Daylight Saving: If your region uses Daylight Saving time, you can enable it here. Select **Set date and time manually** if you want to manually set the offset and the period of time that the Daylight Saving correction should be used.

Synchronize with NTP Server: Network Time Protocol (NTP) will synchronize your camera with an Internet time server. Select an NTP server to use from the drop-down box, then click the << button.

Set the Date and Time Manually: If **Synchronize NTP Server** is disabled, you can set the date and time manually. You can also click the **Copy Your Computer's Time Settings** button to automatically copy the date and time of the PC you are using.



Event Setup

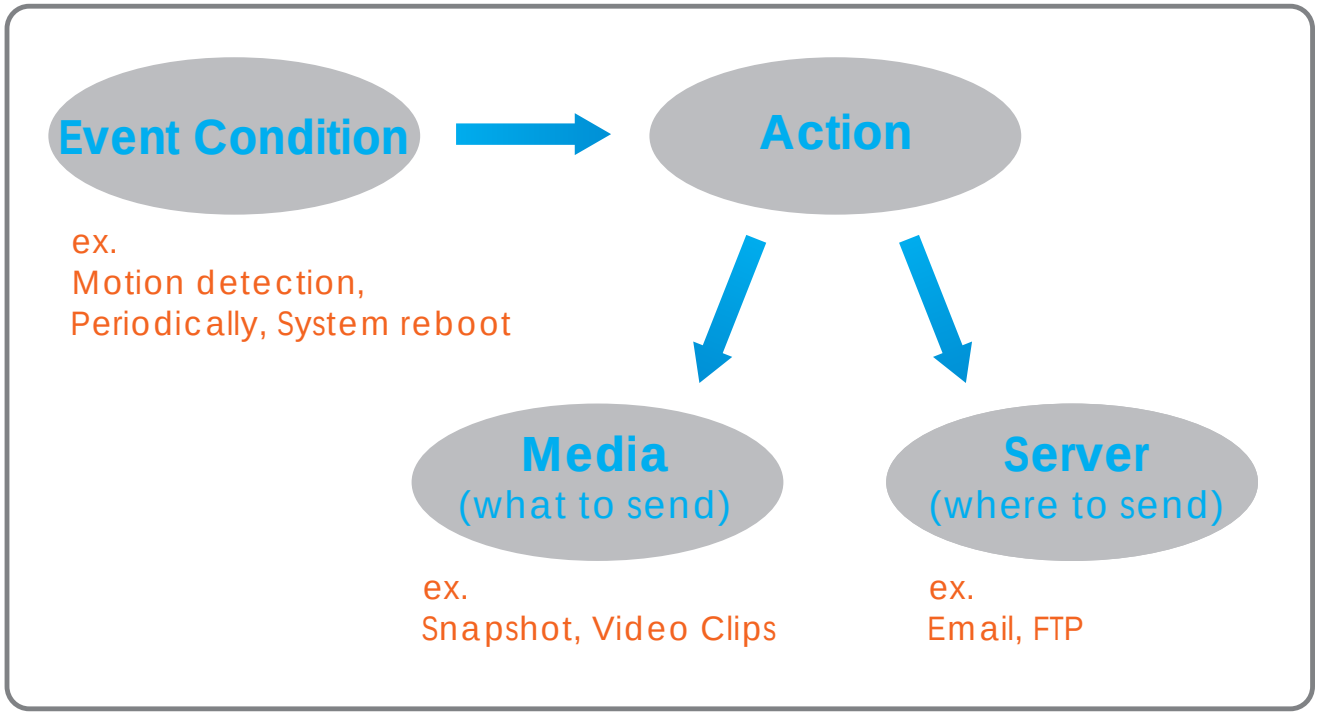
The DCS-4622 has a versatile Event system that lets you configure the camera to perform certain actions when an event occurs. For example, when motion is detected, you can have snapshots sent to an FTP server or e-mail address. You can also configure the camera to take regular video recordings according to a schedule you define.

Before setting up an event, you will need to specify the following:

- **Server**: This is a destination for media to be sent to, such as an e-mail address or FTP server.
- **Media**: This is the media that will be sent, such as snapshots, video clips, or a system log.

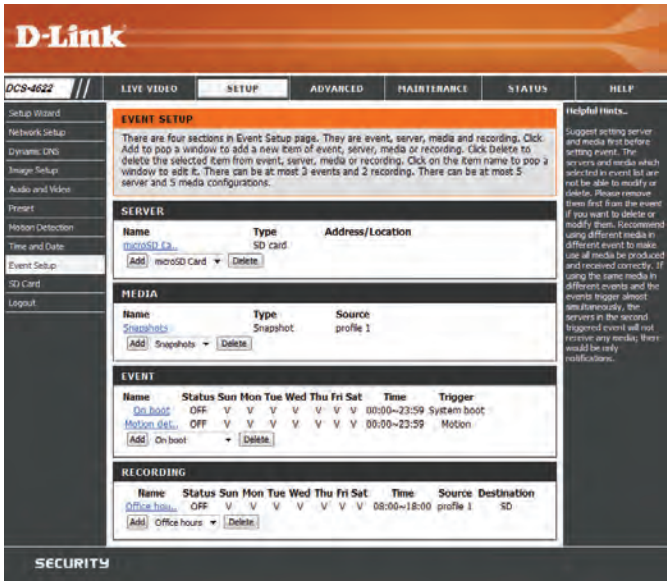
You can then set up Events and Recordings:

- **Event**: This is the actual trigger event that the camera is monitoring for, and the action that it will take. Event triggers include motion detection, loss of network connection, system reboot, and other events.
- **Recording**: This lets you set up a schedule for regular video recording.



The Event Setup page includes 4 different sections.

- Server
- Media
- Event
- Recording



1. To add a new server, media, event, or recording item, click **Add**. A screen will appear and allow you to update the fields accordingly.

2. To delete the selected item from the server, media, event, or recording drop-down menus, click the **Delete** button next to it.

3. Click on an item to edit it.

Add Server

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

Server Name: Enter the name for the server.

E-mail: If you want to use an e-mail address for your server, select this and enter the settings for your target e-mail account.

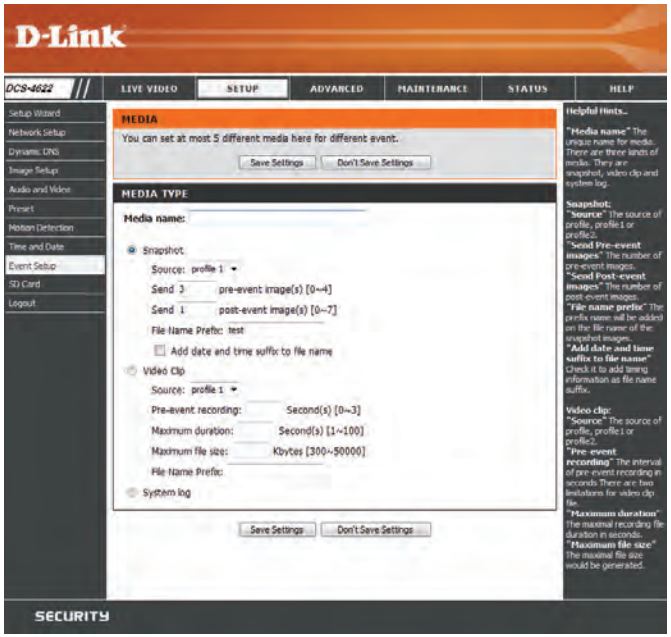
FTP: If you want to use an FTP server for your server, select this and enter the settings for your target FTP server.

Network Storage: If you want to use a network storage device for your server, select this and enter its settings here. You can only specify a network storage device for one of your server entries.

SD Card: If you want to use an inserted microSD card for your server, select this.

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.

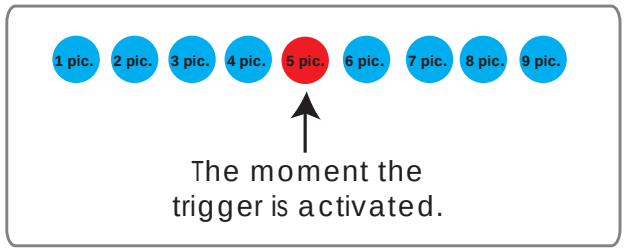
Snapshot: Select this option to set the media type to snapshots.

Source: Set the video profile to use as the media source. Refer to **Audio and Video on page 31** for more information on video profiles.

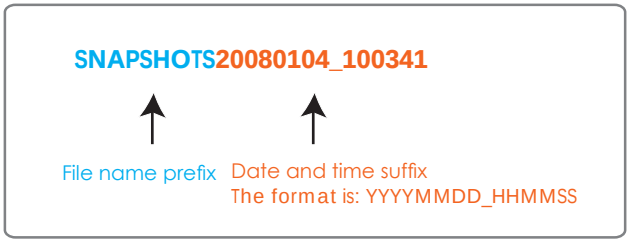
Send pre-event image(s) [0~3]: Set the number of pre-event images to take. Pre-event images are images taken before the main event snapshot is taken.

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

For example:
If both the Send pre-event images and Send post-event images are set to four, a total of 9 images are generated after a trigger is activated.



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



Add date and time suffix to file name: Check this to add the date and time the snapshot was recorded as a file name suffix.

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

Source: Set the video profile to use as the media source. Refer to **Audio and Video on page 31** for more information on video profiles.

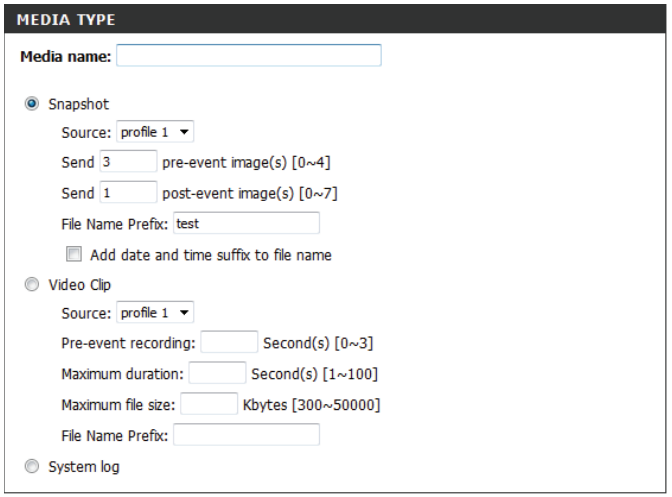
Pre-event recording: This sets how many seconds to record before the main event video clip starts. You can record up to 4 seconds of pre-event video.

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 three 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: Specify the delay time before allowing this event to be triggered again. This is used for both motion detection events and digital input triggers.

Trigger: Specify the input type that triggers the event.

Video Motion Detection: Selecting this will trigger the event when motion is detected during live video monitoring. Make sure you have enabled motion detection and specified what part of the image to monitor for motion. For more details, refer to **Motion Detection** on page 33.

Periodic: Selecting this will trigger the event in specified intervals. The trigger interval unit is in minutes.

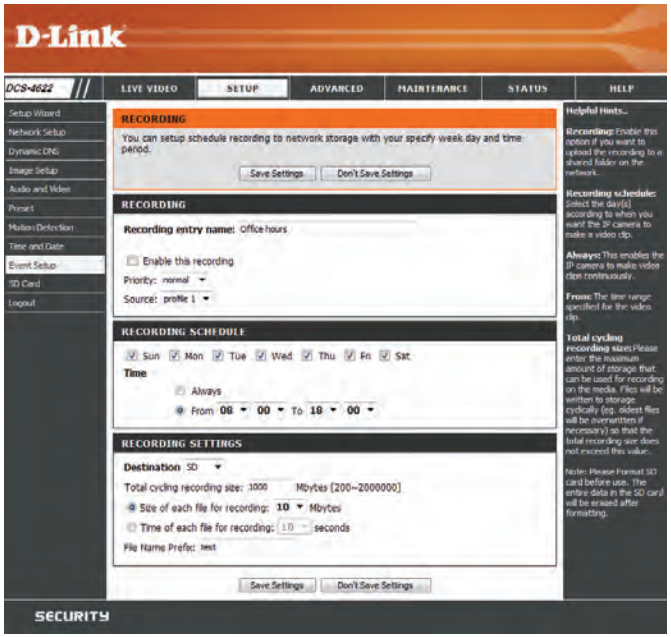
System Boot: Selecting this will trigger an event when the system boots up.

Network Lost: Selecting this will trigger an event when the camera's connection to the network is lost.

Event Schedule: Specify when you want to monitor for this event. Select which days to monitor for this event, then select **Always** or enter the time interval to monitor for the specified event.

Action: Select what you want the camera to do when the event happens. Select the Server to use, then choose the Media you want to save to it. Please note that you need to set up your Server and Media entries first.

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: Enter a name for the recording.

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

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

Source: Select the video profile to use as the recording source.

Recording schedule: Use the checkboxes to set which days to record video on. Select **Always** to record for the entire day, or select From and select what period of time you want to record using the dropdown boxes.

Destination: Select where the recording file will be stored. You should set up a Server entry for a network storage drive first.

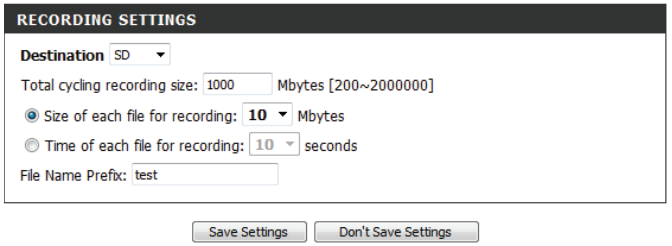
Total cycling recording size: Please input a HDD volume between 1 MB and 2 TB for recording space. The recording data will replace the oldest record when the total recording size exceeds this value. For example, if each recording file is 6 MB, and the total cyclical recording size is 600 MB, then the 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 to the file name of the recording file(s).



SD Card

Here you may browse and manage the recorded files which are stored on the microSD card. Video is stored in the Video folder, and snapshots are stored in the Picture folder. You can playback video and view snapshots by clicking on the appropriate folder, then clicking on the file you want to view.

Files Per Page: Use the drop-down menu to specify how many files to show per page. To change pages, use the drop-down menu on the right.

Refresh: Click this to refresh the file and folder information from the microSD card.

Format SD Card: Click this icon to automatically format the microSD card and create the Video and Picture folders.

Deleting Files and Folders: To delete files and folders, click on the checkbox next to the files or folders you want to delete, then click the OK button.

Advanced
ICR and IR

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

Automatic: The Day/Night mode is set automatically. You can use the **Sensitivity** drop-down box to set when the camera will switch to Night mode. The text box to the right shows what lighting conditions are currently being detected by the camera for reference. You can refresh this status by clicking the **Refresh** button.

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 with ICR: The IR light will turn on when the ICR filter is disabled (night mode).

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.

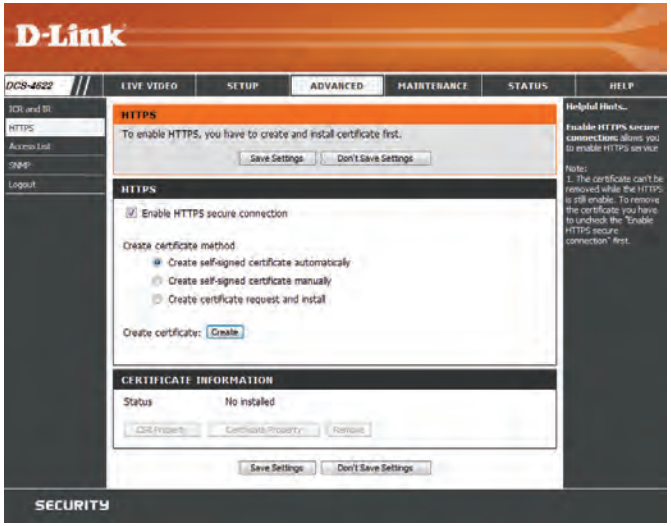
Enable HTTPS Secure Connection: Enable the HTTPS service.

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 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-4622.

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

Note: When adding entries to the Allow list, make sure the first entry includes the IP address of the computer or device you are using to access the camera. Otherwise, you may be blocked from accessing the camera after adding the entry to the Allow list.

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

End IP address: The ending IP address of the IP address range for the devices (such as a computer) that have permission to access the video of the camera. Click **Add** to save your changes.

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

Delete allow list: Select an entry to remove from the Allow List, then click **Delete**.

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

Delete deny list: Select an entry to remove from the Deny List, then click **Delete**.

Note: All addresses in the Deny List will be denied access, even if they are also in the Allow List.

SNMP

Here you can set the SNMP settings for the camera, which allow for SNMP management of the camera.

Enable SMNPv1, SNMPv2c: Enable this option to allow for SNMPv1 and SNMPv2c management of the camera.

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

Read Only Community: Enter a name for the read-only community of your SNMP server.

Enable SNMPv3: Enable this option to allow SNMPv3 management of the camera.

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

Authentication Type: Enter the type of authentication used by your read/write SNMP server.

Authentication Password: Enter the authentication password used for your read/write SNMP server.

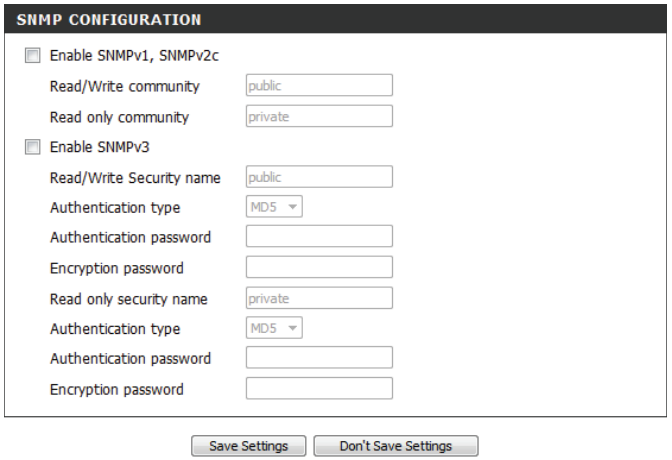
Encryption Password: Enter the encryption password used for your read/write SNMP server.

Read Only Security Name Enter a name for the read-only community of your read-only SNMP server.

Authentication Type: Enter the type of authentication used by your read-only SNMP server.

Authentication Password: Enter the authentication password used for your read-only SNMP server.

Encryption Password: Enter the encryption password used for your read-only SNMP server.



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. After making any changes in a section, click the **Save** button in that section.

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

Add User Account: To add a new user account, fill out the User Name and Password for the new account, then click **Add**.

User Name: Enter the user name for the new account.

Password: Enter the password for the new account.

User List: All the existing user accounts will be displayed here. You select an account and click the **Delete** button to remove it. You may want to reserve at least one as a guest account.

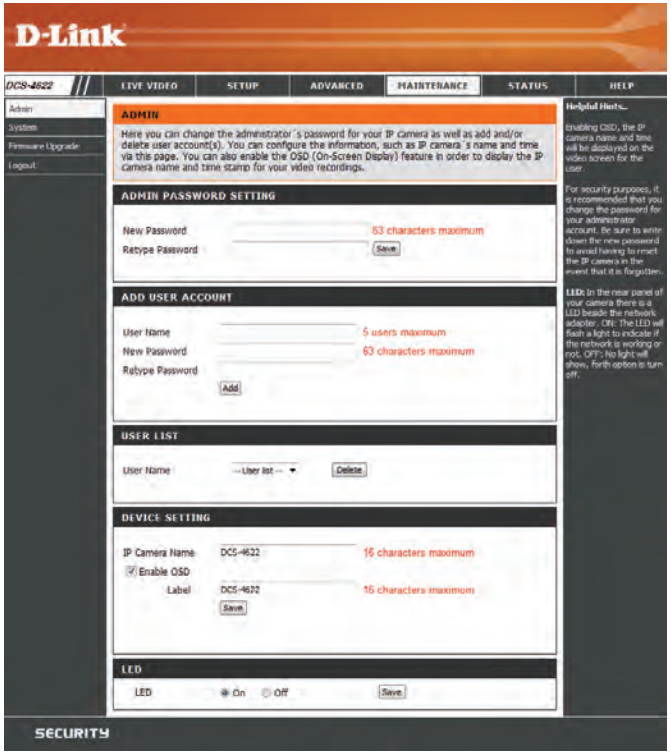
Device Setting: Here you can change the name of the camera, enable the OSD, and add a label to show on the OSD.

IP 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.

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



System

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

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

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

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

Reboot Device: This will restart your camera.

Enable Schedule Reboot: If you want your camera to reboot on a regular schedule, check the **Enable Schedule Reboot** checkbox, then select the days and time you want the camera to reboot on.

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-4622, 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.

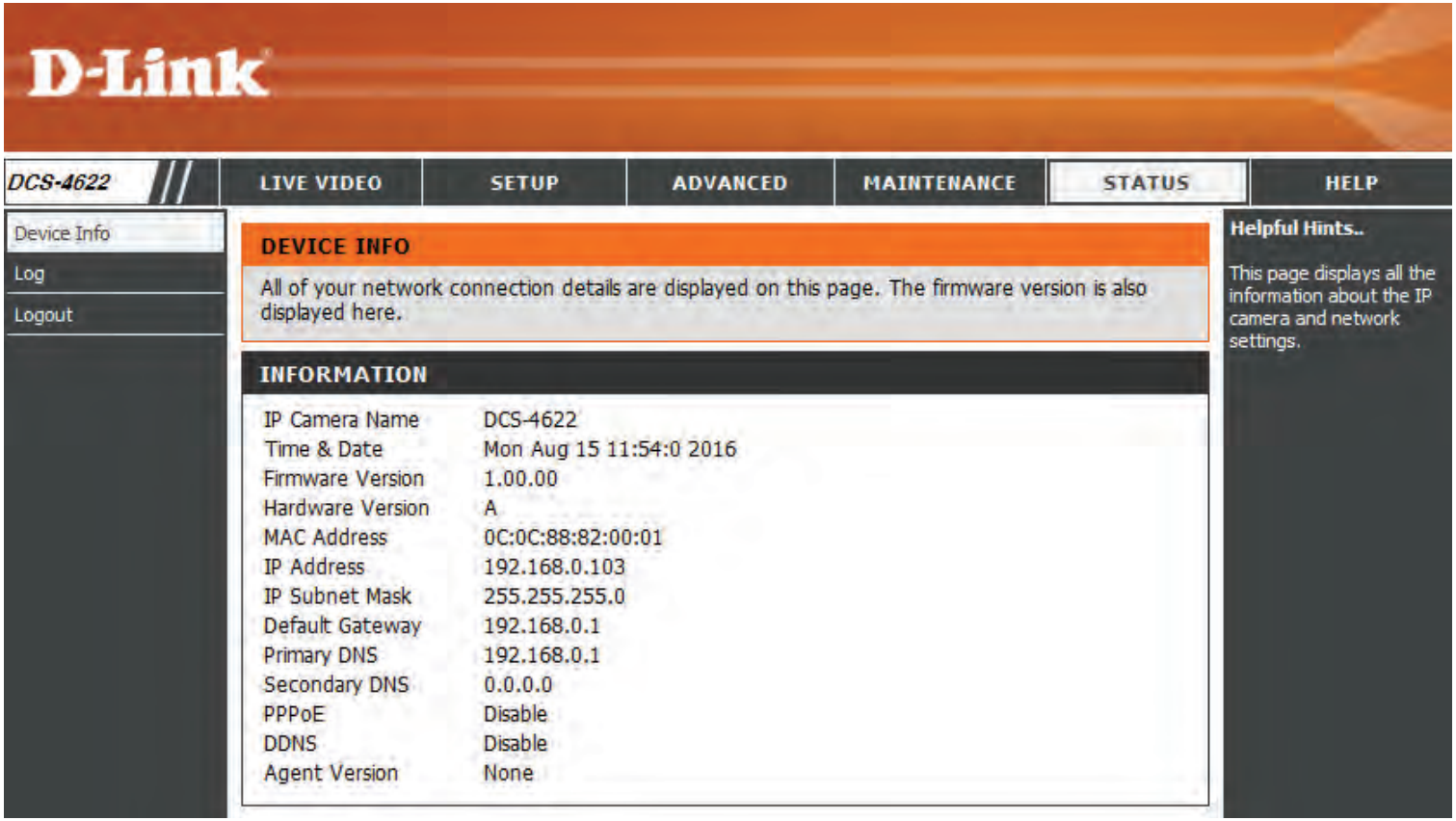
Current Product Name: Displays the camera model name.

File Path: Select a firmware file to use on your hard drive by clicking **Browse...** .

Upload: Uploads the selected firmware to your camera.

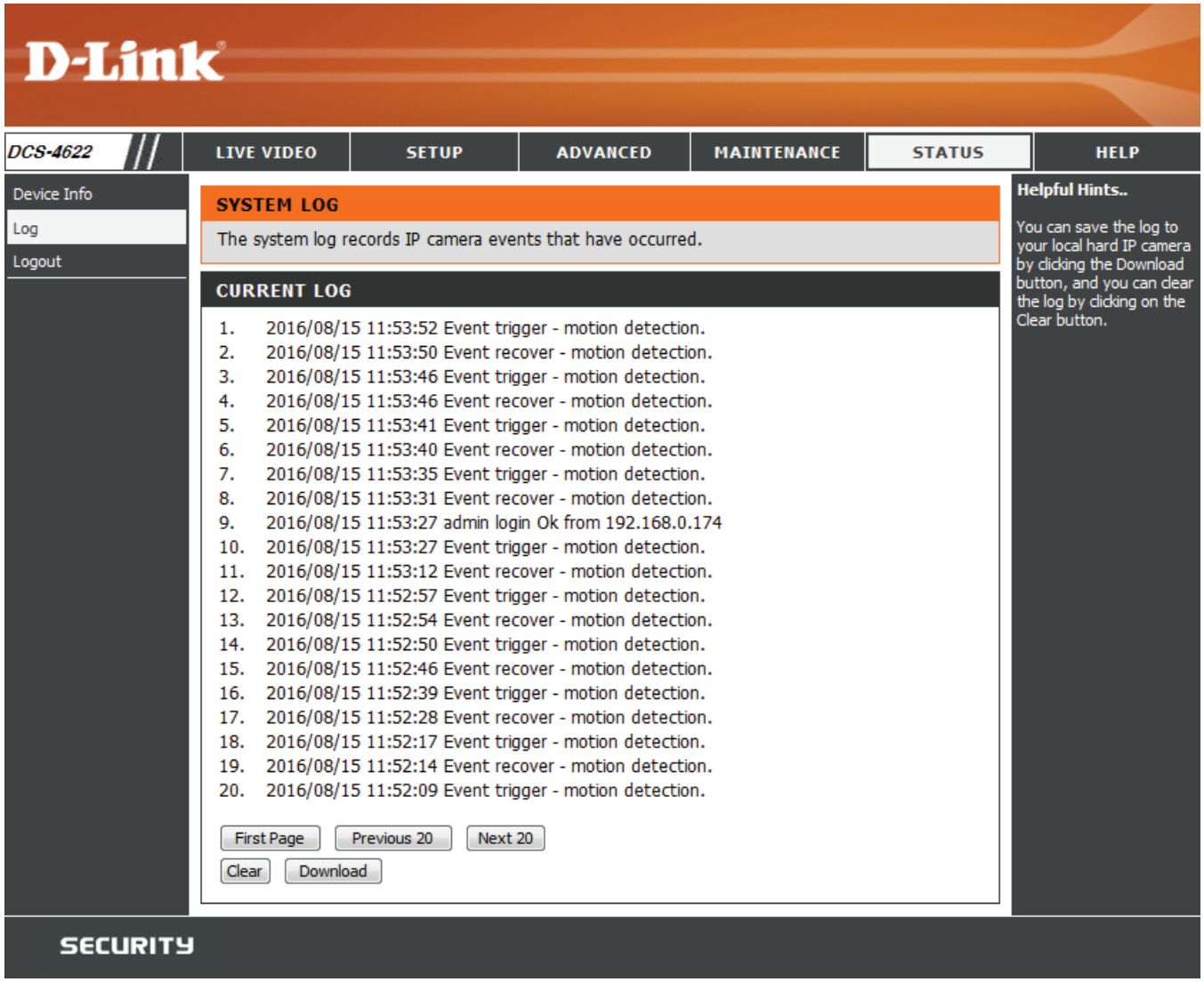
Status
Device Info

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

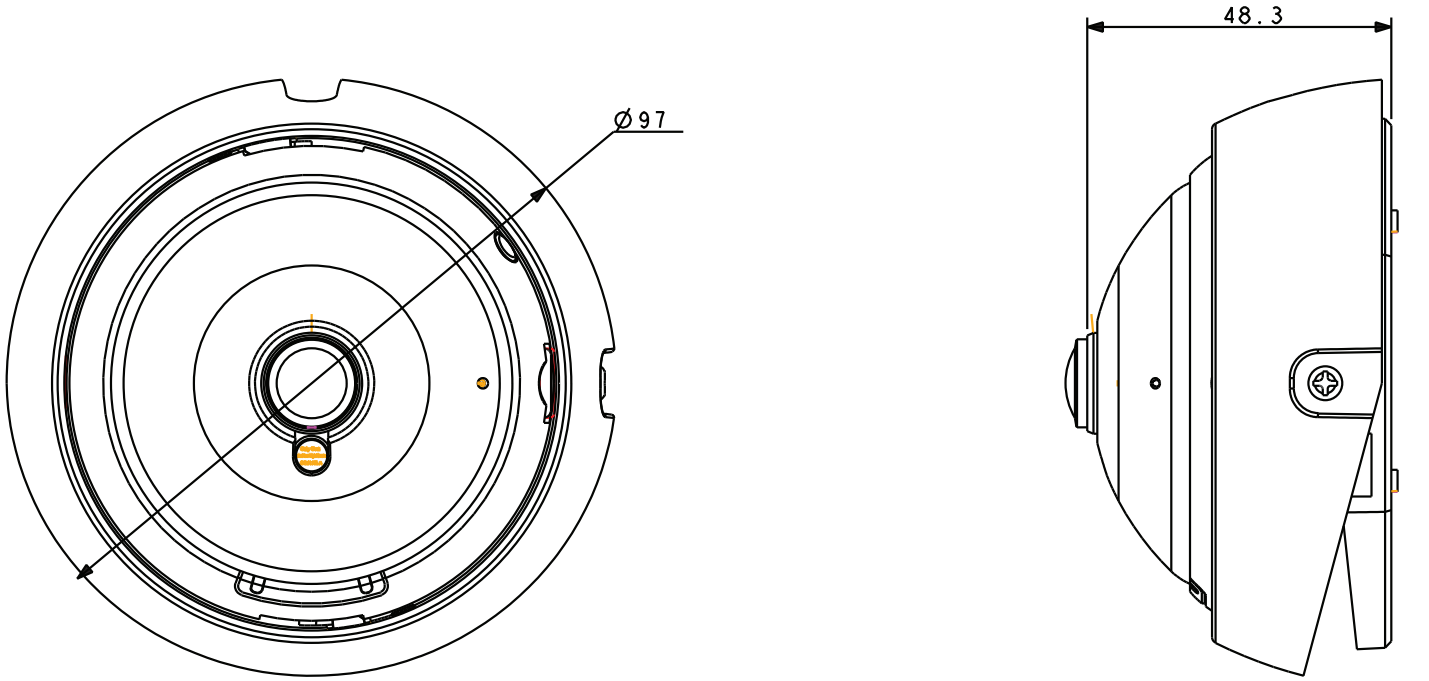
This page provides helpful information regarding camera operation.

Technical Specifications

Camera	Camera Hardware Profile	• 1/3" 3 Megapixel progressive CMOS sensor
		• Built-in Infrared-Cut Removable (ICR) Filter module
		• Minimum illumination:
		  • Color (Day Mode): 0.5 lux
		  • B/W (Night Mode), IR LEDs off: 0.25 lux
		  • B/W (Night Mode), IR LEDs on: 0 lux
		• 8 meter (25 feet) IR illumination distance
		• Focal length: 1.1 mm
		• Minimum object distance 0.3 m
			• Aperture: F2.0
			• 10x digital zoom
			• Angle of view:
			  • (H) 180°
			  • (V) 180°
			• Angle of adjustment:
			  • (V) 15°
			• Built-in microphone
			• Built-in speaker

	Image Features	• Configurable image size, quality, frame rate, and bit rate • Time stamp and text overlays • Configurable motion detection windows • Desktop, wall, and ceiling display modes	• Configurable shutter speed, brightness, saturation, contrast, sharpness, and WDR
	Video Compression	• Simultaneous H.264/MJPEG format compression • H.264/MJPEG multicast streaming	• JPEG for still images
	Video Resolution	• 1920 x 1536, 1440 x 1152, 1280 x 1024, 960 x 768, 640 x 512 up to 25 fps	
	Audio Codec	• G.711	• AAC
	External Device Interfaces	• 10/100 BASE-TX Fast Ethernet port	• Supports 802.3af PoE (Class 2)
Network	Network Protocols	• IPv6 • IPv4 • ARP • 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 • Multicast • CoS • QoS/DSCP • SNMP • ONVIF compliant
	Security	• Administrator and user group protection • Password authentication	• HTTP and RTSP authentication

System Management	System Requirements for Web Interface	• Browser: Internet Explorer, Firefox, 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	• Configuration interface accessible via web browser
	D-ViewCam™ System Requirements	• Operating System: Microsoft Windows 10/8/7/Vista • 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	• 188 g ± 5%	
	External Power Adapter (not included)	• Input: 100 to 240 V AC, 50/60 Hz	• Output: 12 V DC 1.5 A
	Power Consumption	• 4.6 watts ± 5%	
	Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	• Storage: -20 to 70 °C (-4 to 158 °F)
	Humidity	• Operating: 20% to 80% non-condensing	• Storage: 5% to 95% non-condensing
	Certifications	• CE • CE LVD	• FCC • C-Tick

	Dimensions Diagram	
Optional Products	Mounts	• DCS-37-1 Wall type mount bracket • DCS-37-2 Ceiling type mount bracket