



## User Manual

# Vigilance Full HD Outdoor PoE Mini Dome Camera

DCS-4802E

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# 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	08/19/2015	DCS-4802E Revision A1 with firmware version 1.00

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# Product Overview

## Package Contents



DCS-4802E Vigilance Full HD Outdoor PoE Mini Dome Camera



Cable Waterproofing Connector



Rubber Power Connector Plug



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-4802E Vigilance Full HD Outdoor PoE Mini Dome Camera. The DCS-4802E is a professional surveillance and security solution for small, medium, and large enterprises alike. The DCS-4802E 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-4802E 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-4802E 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 DCS-4802E has an IP66 certified weatherproof housing designed for both indoor and outdoor applications. The built-in removable IR-cut filter and IR LEDs give the DCS-4802E the capability to view up to 20M at night. The DCS-4802E 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 IP66 weatherproof housing, IR-Cut Filter, IR LEDs, and PoE make the DCS-4802E an ideal solution for a dependable and cost-effective 24 hour surveillance solution with easy clutter-free installation.

## System Requirements

- Computer with Microsoft Windows® 8, 7, or Vista® (for CD-ROM Setup Wizard), Mac OS, 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

### **Simple to Maintain**

The DCS-4802E is a stand-alone system with a built-in CPU, requiring no special hardware or software. The DCS-4802E can be viewed and managed through most web browsers, including Internet Explorer®, Firefox®, and Safari®.

### **Supports a Variety of Platforms**

With support for TCP/IP networking, HTTP, and other Internet related protocols, the DCS-4802E can also be integrated easily into other Internet/ Intranet applications because of its standards-based features. The DCS-4802E works with any 10/100 Ethernet network, making the DCS-4802E easy to integrate into your existing network environment.

### **Advanced Event Management**

The DCS-4802E 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.

### **IP66 Weatherproof Housing**

The DCS-4802E uses an IP66 weatherproof housing, allowing you to rest assured that in the toughest of conditions, it will continue to provide round-the-clock surveillance.

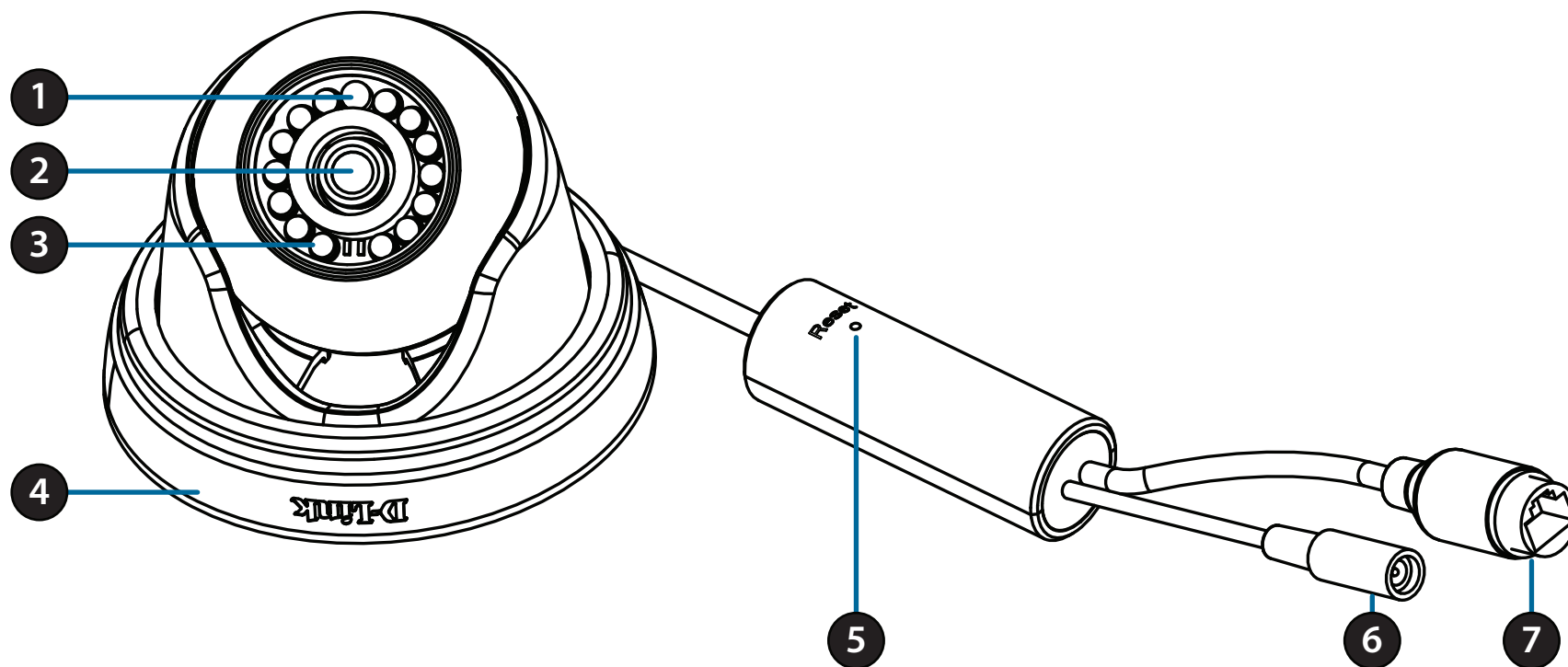
### **PoE (Power over Ethernet) for Flexible Installation**

The DCS-4802E 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	<b>Light Sensor</b>	Detects lighting conditions
2	<b>Camera Lens</b>	Fixed lens to record video of the surrounding area
3	<b>IR LEDs</b>	Provide illumination for low-light environments
4	<b>Camera Base Cover</b>	Covers the mounting holes on the camera base
5	<b>Reset Button</b>	Press and hold for 10 seconds to reset camera back to the factory default settings
6	<b>Power Connector</b>	Connects to an optional 12V, 1.5 A power adapter (not included)
7	<b>Ethernet Jack</b>	RJ-45 connector for Ethernet which can also be used to power the camera using Power over Ethernet (PoE)

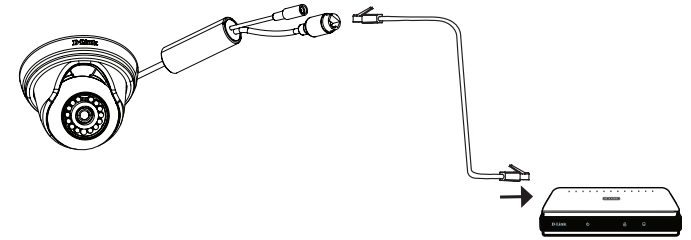
# Installation

## Connecting the Camera

You can power the DCS-4802E two different ways: through PoE or through a power adapter.

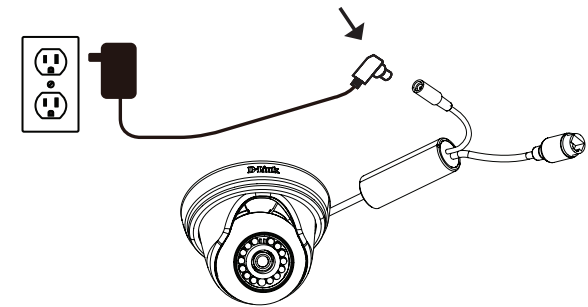
### Powering the camera through PoE (Class 2):

Connect an Ethernet cable to the LAN(PoE) port on the camera. Connect the other end of the cable to your PoE switch or PoE injector.

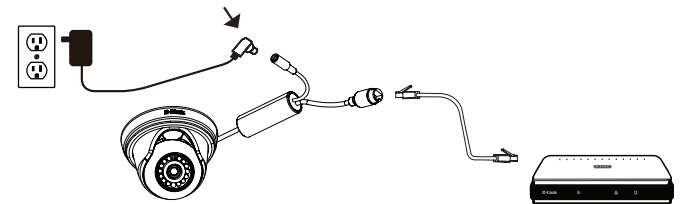


### Powering the camera through a power adapter (not included):

Connect a 12 V, 1.5 A power adapter to the power connector.



Connect an Ethernet cable to the LAN(PoE) port on the camera. Connect the other end of the cable to your network.





## Mounting the Camera

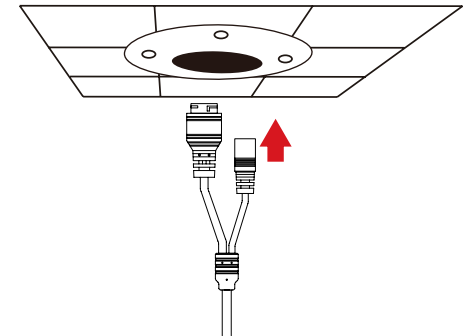
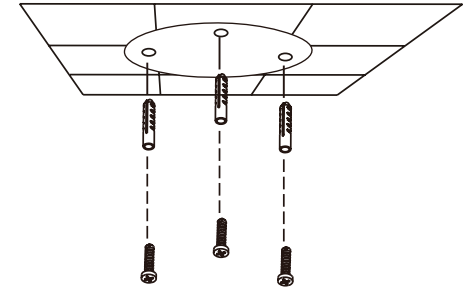
It is highly recommended that you configure and test your camera before mounting it.

### Step 1

Place the mounting sticker where you want to position the camera.

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

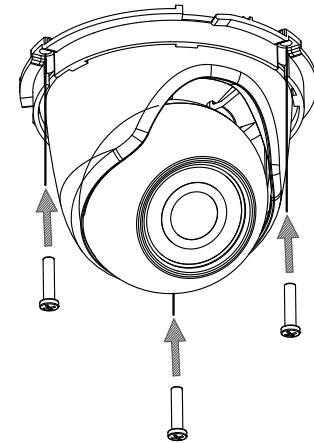
**If you are running the camera cables through the wall or ceiling,** drill a hole in the center and pull the cables through the hole.



### Step 2

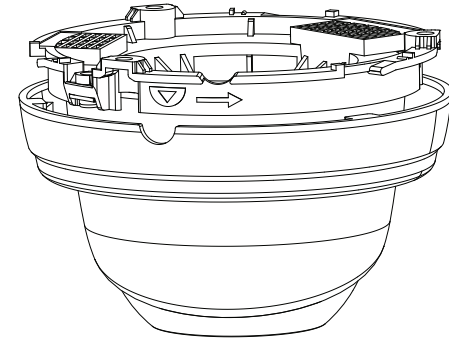
Use the screws provided to mount the camera to the wall.

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



**Step 3**

Attach the camera base cover by lining up the cable channel on it with the mark on the camera base, then turn the camera base cover clockwise until it clicks.

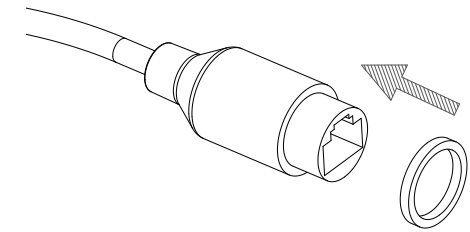


## Waterproofing Your Installation

To waterproof your camera installation, follow the instructions below. Round Ethernet cable, a crimping tool, and RJ-45 plugs are required for this procedure.

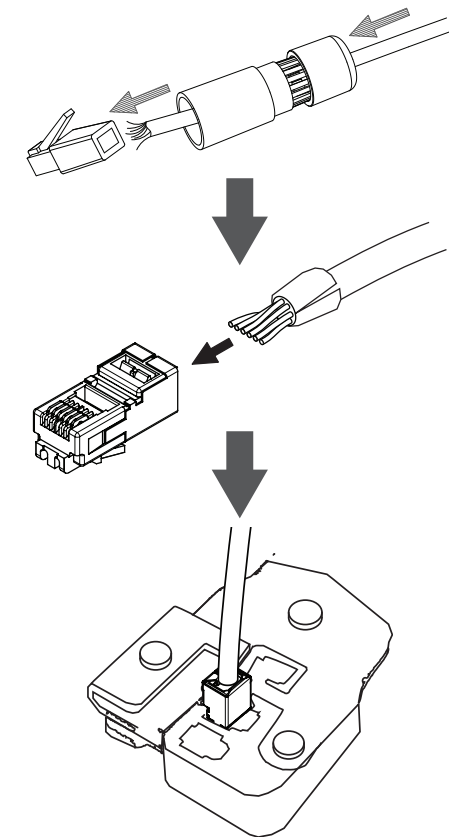
### Step 1

Place the washer around the base of the Ethernet connector as shown.



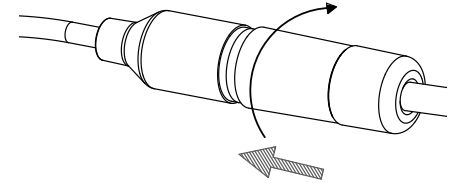
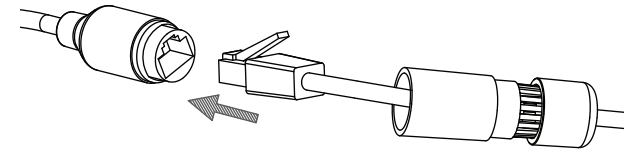
### Step 2

Thread bare Ethernet cable through the waterproof connector as shown, then crimp an RJ-45 plug onto the cable.



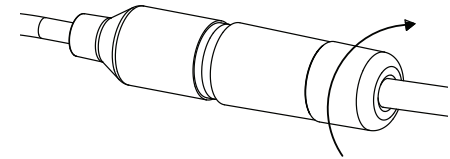
**Step 3**

Connect the RJ-45 plug into the Ethernet connector, then screw the waterproof connector to the Ethernet connector by turning it about a half-turn clockwise.

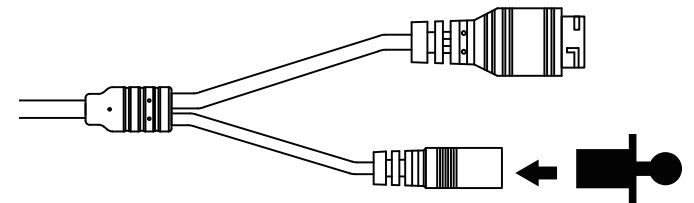


**Step 4**

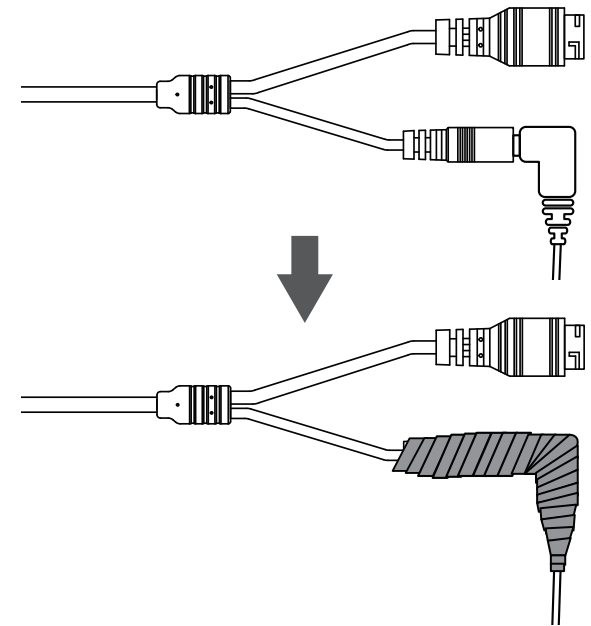
Screw the back part of the waterproof connector clockwise until there is a tight seal around the Ethernet cable.



**If you are using PoE to power your camera,** use the included rubber power connector plug to the power connector.



**If you are using a power adapter (not included) to power your camera,** wind waterproof tape around the connection in an overlapping manner to cover it.



## Software Installation

### Step 1

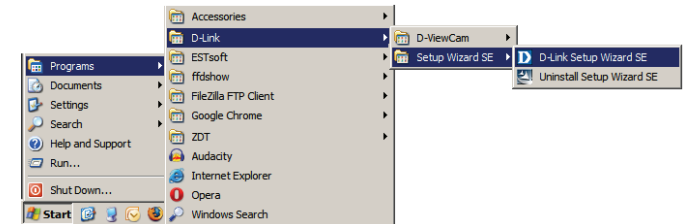
Insert the DCS-4802E CD into your computer's CD-ROM drive to begin the installation.

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

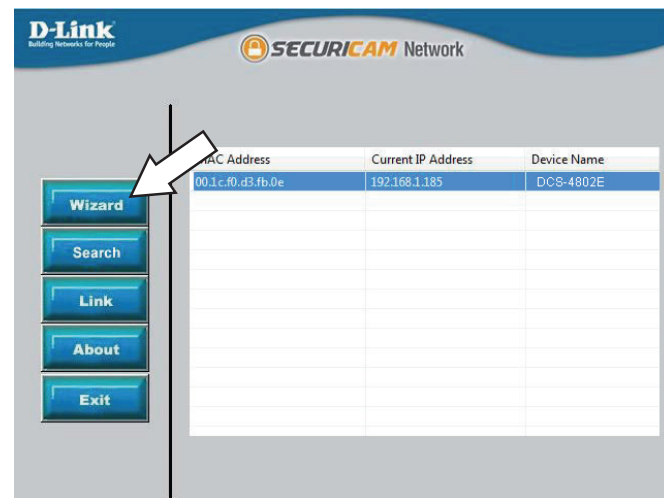
Click on the **D-Link Setup Wizard SE** icon that was created in your Windows Start menu (**Start > D-Link > Setup Wizard SE**).



### 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.

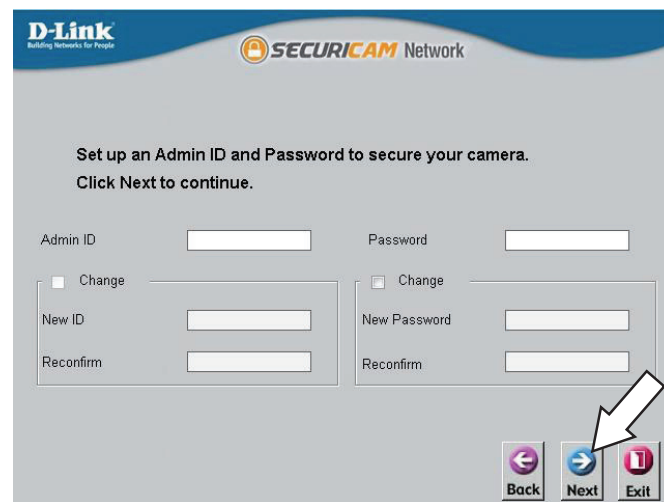


### Step 4

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.

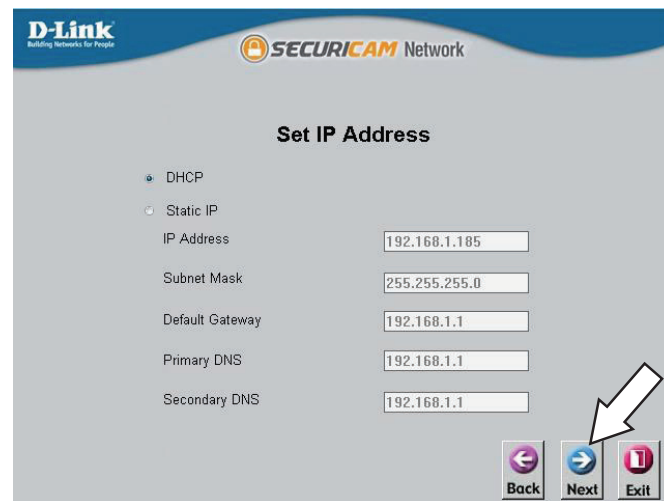
Click **Next** to continue.



### 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.



D-Link Building Networks for People

SECURICAM Network

### Set IP Address

DHCP

Static IP

IP Address

Subnet Mask

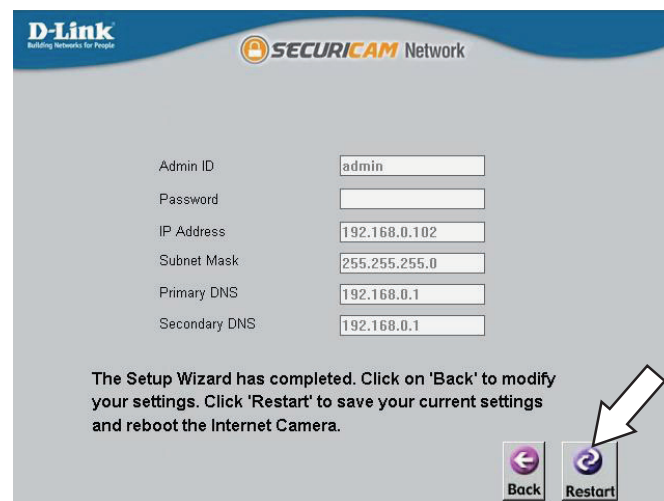
Default Gateway

Primary DNS

Secondary DNS

### Step 6

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



D-Link Building Networks for People

SECURICAM Network

Admin ID

Password

IP Address

Subnet Mask

Primary DNS

Secondary DNS

The Setup Wizard has completed. Click on 'Back' to modify your settings. Click 'Restart' to save your current settings and reboot the Internet Camera.



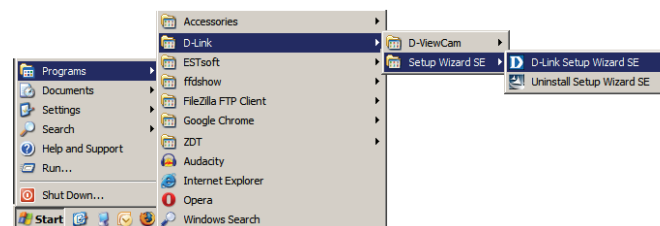
# Configuration

## 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-4802E. 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

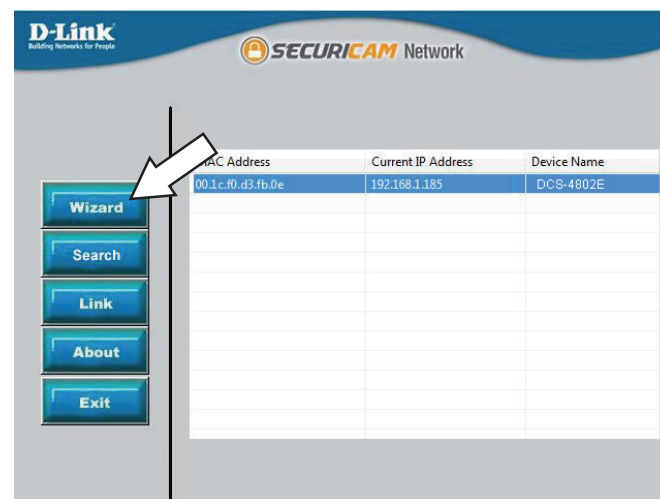
Click on the **D-Link Setup Wizard SE** icon that was created in your Windows Start menu (**Start > D-Link > Setup Wizard SE**).



### 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.



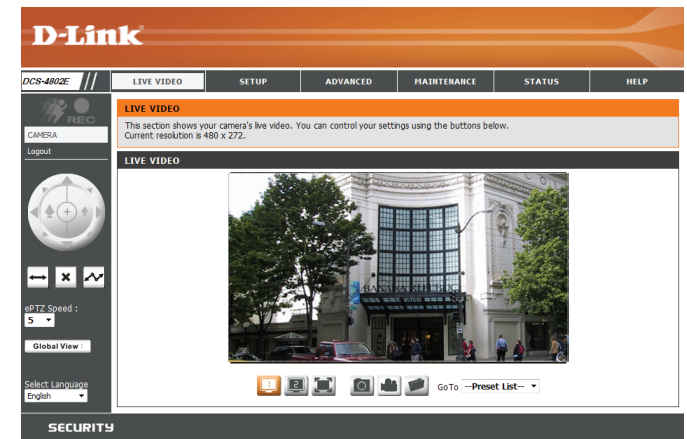
### Step 3

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



### Step 4







This section displays your camera's live video. You can select your video profile and view or operate the camera.

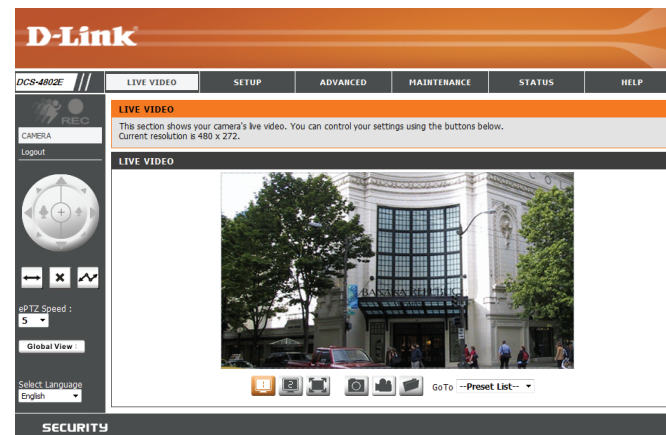


## Live Video

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.

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.

	<b>Motion Trigger Indicator</b>	This indicator will change color when a trigger event occurs.  <b>Note:</b> The video motion feature for your camera must be enabled.
	<b>Recording Indicator</b>	When a recording is in progress, this indicator will change color.
	<b>Control Pad</b>	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.
	<b>Auto Pan</b>	Starts the automatic panning function. The ROI will pan from back and forth within the FOV.
	<b>Stop</b>	Stops the camera ePTZ motion.
	<b>Preset Path</b>	Starts the camera's motion along the predefined path.



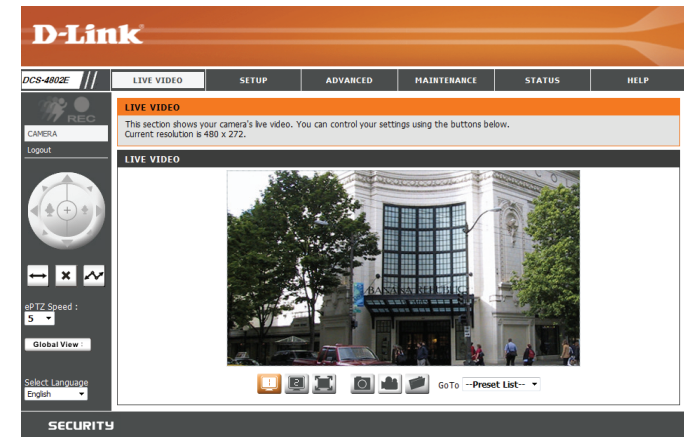
**ePTZ Speed:** You may select a value between 0 and 10. 0 is the slowest and 10 is the fastest.

**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 1  |  | Record a Video Clip  |
|  | Video Profile 2  |  | Set a Storage Folder |
|  | Full screen mode |   |                      |
|  | Take a Snapshot  |   |                      |

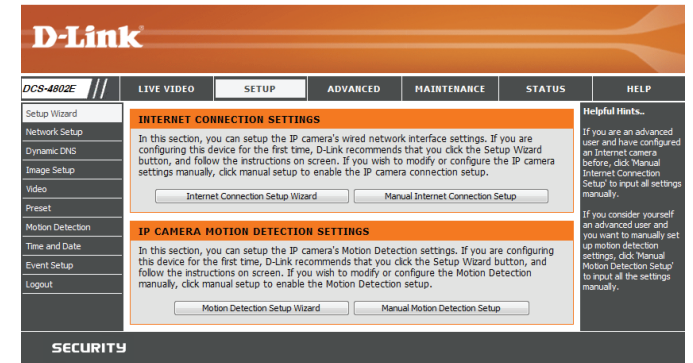
**Go To:** If any presets have been defined, you can select them here to move the **(Preset List)** camera to the selected preset.



# Setup Setup Wizard

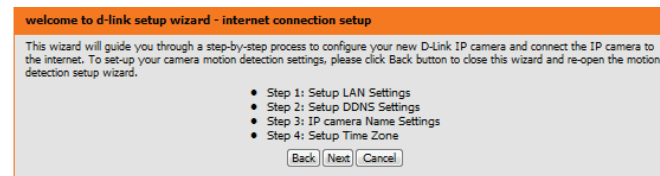
To configure your Network Camera, click **Internet Connection Setup Wizard**. Alternatively, you may click **Manual Internet Connection Setup** to manually configure your Network Camera and skip to "Network Setup" on page 26.

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 36.



## 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.



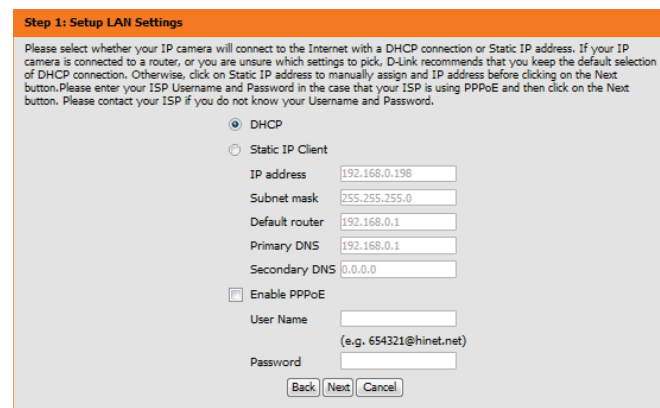
Select how the camera will connect to the Internet.

**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.



## Section 3: Configuration

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

**Step 2: Setup DDNS Settings**

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

Enable DDNS

Server Address  <<

Host Name

User Name

Password

Verify Password

Timeout  (hours)

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

**Step 3: IP camera Name Settings**

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

IP camera Name

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

Enable Daylight Saving

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

Click **Apply** to save your settings.

**Step 5: Setup complete**

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

IP Address	DHCP
IP camera Name	DCS-4802E
Time Zone	(UTC+08:00) Taipei
DDNS	Disable
PPPoE	Disable

## 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

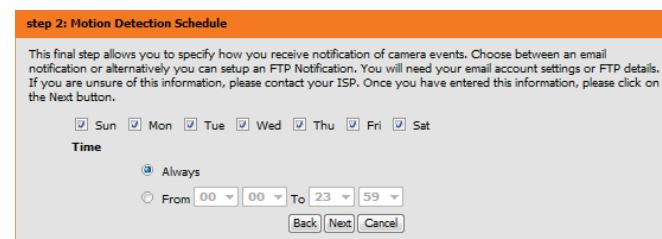
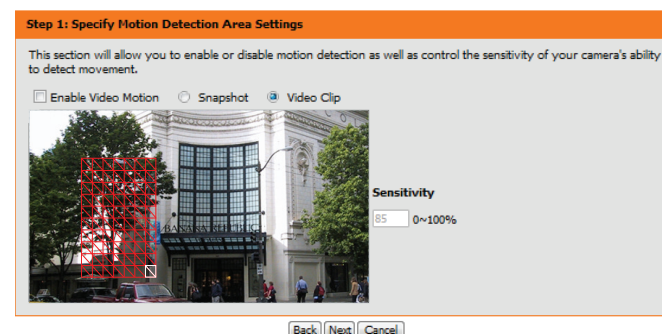
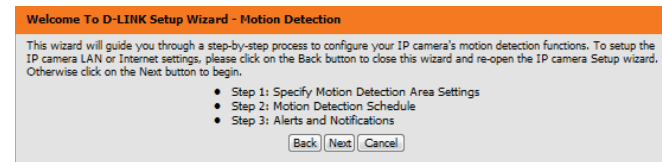
This step will allow you to enable or disable motion detection, specify the detection sensitivity, and adjust the camera's ability to detect movement.

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

Refer to "Motion Detection" on page 36 for information about how to configure motion detection.

### Step 2

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





## Section 3: Configuration

### Step 3

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

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

Click **Next** to continue.

**Step 3: Alerts and Notification**

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

Do not notify me

Email

Sender email address

Recipient email address

Server address

User name

Password

Port

This server requires a secure connection (StartTLS)

FTP

Server address

Port

User name

Password

Remote folder name

### Step 4

You have completed the Motion Detection Wizard.

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

**Step 4: Setup Complete**

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

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

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

**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.

Changes saved.IP camera's network is restarting, please wait for 6 seconds ...

# Network Setup

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

**LAN Settings:** This section lets you configure settings for your local area network.

**DHCP:** Select this connection if you have a DHCP server running on your network and would like your camera to obtain an IP address automatically.

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

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

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

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

**Default Gateway:** The gateway used to forward frames to destinations in a different subnet. Invalid gateway settings may cause the failure of transmissions to a different subnet.

**Primary DNS:** The primary domain name server translates names to IP addresses.

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

**D-Link**

DCS-4802E // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard  
Network Setup  
Dynamic DNS  
Image Setup  
Video  
Preset  
Motion Detection  
Time and Date  
Event Setup  
Logout

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

**LAN SETTINGS**

DHCP  
 Static IP Client

IP address: 192.168.0.182  
Subnet mask: 255.255.255.0  
Default router: 192.168.0.1  
Primary DNS: 192.168.0.1  
Secondary DNS: 0.0.0.0

Enable UPnP presentation  
 Enable UPnP port forwarding  
Forwarding Port: 1024 [Test]  
Forwarding Status: UPnP forwarding is inactive

**PPPOE SETTINGS**

Enable  Disable

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

**HTTP**

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

**HTTPS**

HTTPS port: 443

**RTSP**

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

**CoS SETTINGS**

Enable CoS

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

**QoS SETTINGS**

Enable QoS

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

**Helpful Hints...**

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

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

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

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

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

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

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

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

**Enable IPv6:** Select this option and click Save to enable IPv6 setting. Please note that this only works if your network environment and hardware equipment support IPv6. The browser should be Microsoft® Internet Explorer 6.5, Mozilla Firefox 3.0 or above. When IPv6 is enabled, by default, the Network Camera will listen to router advertisements and be assigned a link-local IPv6 address accordingly.

**IPv6 Information:** Click this button to obtain the

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

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

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

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

**HTTP Port:** The default port number is 80.

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

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

LAN SETTINGS	
<input checked="" type="radio"/> DHCP	
<input type="radio"/> Static IP Client	
IP address	192.168.0.182
Subnet mask	255.255.255.0
Default router	192.168.0.1
Primary DNS	192.168.0.1
Secondary DNS	0.0.0.0
<input checked="" type="checkbox"/> Enable UPnP presentation	
<input type="checkbox"/> Enable UPnP port forwarding	
Forwarding Port	1024 <input type="button" value="Test"/>
Forwarding Status	UPnP forwarding is inactive

PPPOE SETTINGS	
<input type="radio"/> Enable	<input checked="" type="radio"/> Disable
User Name	<input type="text"/>
Password	<input type="text"/>
Confirm password	<input type="text"/>
PPPoE Status	PPPoE is inactive.

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

HTTPS	
HTTPS port	443

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

COS SETTINGS	
<input type="checkbox"/> Enable CoS	
VLAN ID	1 [0~4095]
Live video	0
Live audio	0
Event/Alarm	0
Management	0

QOS SETTINGS	
<input type="checkbox"/> Enable QoS	
Live video	0
Live audio	0

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

**Enable IPv6:** Enabling this setting will enable use of the IPv6 protocol. Click the IPv6 Information button to see the camera's current IPv6 details, or you can check **Manually setup the IP address** to manually set up the IP address, specify a default router, and set the primary DNS.

**Enable Multicast for stream:** The DCS-4802E allows you to multicast each of the available streams via group address and specify the TTL value for each stream. Enter the port and TTL settings you wish to use if you do not want to use the defaults.

**Enable Bonjour:** Enable this to allow other network devices to connect to this camera using Bonjour.

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

**QoS SETTINGS**

Enable QoS
 

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

**IPv6**

Enable IPv6  


Manually setup the IP address

Optional IP address / Prefix length  /

Optional default router

Optional primary DNS

**MULTICAST**

Enable multicast for stream 1
 

Multicast group address	<input type="text" value="239.1.1.1"/>
Multicast video port	<input type="text" value="6550"/>
Multicast RTCP video port	<input type="text" value="6551"/>
Multicast audio port	<input type="text" value="6552"/>
Multicast RTCP audio port	<input type="text" value="6553"/>
Multicast TTL [1~255]	<input type="text" value="64"/>

Enable multicast for stream 2

Multicast group address	<input type="text" value="239.1.1.2"/>
Multicast video port	<input type="text" value="6554"/>
Multicast RTCP video port	<input type="text" value="6555"/>
Multicast audio port	<input type="text" value="6556"/>
Multicast RTCP audio port	<input type="text" value="6557"/>
Multicast TTL [1~255]	<input type="text" value="64"/>

**BONJOUR SETTINGS**

Enable Bonjour
 

Bonjour Name	<input type="text" value="DCS-4802E_864255"/>	32 characters maximum
--------------	---	-----------------------

(Characters you may use in a Bonjour Name: "upper or lower case letters", "numbers" and "hyphens".)

## 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.

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

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

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

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

**Password:** Enter the password used to connect to your DDNS server account.

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

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

**D-Link**

DCS-4802E // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard  
Network Setup  
Dynamic DNS  
Image Setup  
Video  
Preset  
Motion Detection  
Time and Date  
Event Setup  
Logout

**DYNAMIC DNS**

The Dynamic DNS feature allows you to use a domain name that you have purchased (www.yourdomain.com) to access your IP camera with a dynamically assigned IP address. Most broadband Internet service providers assign dynamic (changing) IP addresses. By using a DDNS service, you can enter your domain name to connect to your IP camera no matter what your IP address is.

[Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com.](http://www.dlinkddns.com)

Save Settings Don't Save Settings

**DYNAMIC DNS SETTING**

Enable DDNS

Server Address  <<

Host Name

User Name

Password

Verify Password

Timeout  (hours)

Status

Save Settings Don't Save Settings

**SECURITY**

**Helpful hints...**

Dynamic DNS is useful if you have a DSL or Cable service provider that changes your modem IP address periodically. This will allow you to assign a website domain name to your IP camera instead of connecting through an IP address.

# 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.

**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 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.

The screenshot shows the D-Link DCS-4802E web interface. The main content area is titled 'IMAGE SETUP' and contains the following sections:

- IMAGE SETUP:** A message states 'Changes to your IP camera settings are made immediately.' Below this is the 'PRIVACY MASK AREA OF VIDEO SETTING' section, which includes a checkbox for 'Enable Privacy Mask Setting' (checked) and a video preview window showing a street scene with a red box indicating a privacy mask area. A 'Save' button is located below the preview.
- IMAGE SETTINGS:** A list of settings with radio buttons and dropdown menus:
  - Mirror:  On  Off
  - Flip:  On  Off
  - Anti Flicker:  60 Hz  50 Hz
  - White Balance:  (dropdown)
  - Exposure Mode:  (dropdown) Max Gain:  (dropdown) db
  - Denoise:  (dropdown)
  - Brightness:  (dropdown)
  - Contrast:  (dropdown)
  - Saturation:  (dropdown)
  - Sharpness:  (dropdown)
  - WDR Level:  (dropdown)
  - 3D filter:  (dropdown)

The 'Helpful Hints...' sidebar on the right contains the following information:

- Privacy Mask:** Click the attached box to activate this function. Now use your mouse to draw a rectangle covering the area you want hidden. Click the box again to deactivate the function.
- Mirror:** This function horizontally reverses your images 180 degrees.
- Flip:** This function vertically reverses your images 180 degrees.
- Anti Flicker:** The feature will help to offset the interference of the lighting system and avoid the image flicker issue. ONLY use this option when it is necessary.
- White Balance:** White Balance - Is the process of removing unrealistic color casts, so that objects which appear white in person are rendered white in your photo.
- Exposure Mode:** Exposure is the total amount of light allowed to fall on the image sensor during the process of capturing an image. You may choose different scene modes to produce the better images.
- Max Gain:** It can always be enabled automatically. But you have an option - you can change Max Gain either automatically or manually.
- Denoise:** It is the process of removing noise from a signal.

**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 with reduced noise when monitoring low-light environments. You can also create 3 different custom exposure modes. The Max Gain setting will allow you to control the maximum amount of gain to apply to brighten the picture.

**Denoise:** This setting controls the amount of noise reduction that will be applied to the picture.

**Brightness:** Adjust this setting to compensate for backlit subjects.

**Contrast:** Adjust this setting to alter the color intensity/strength.

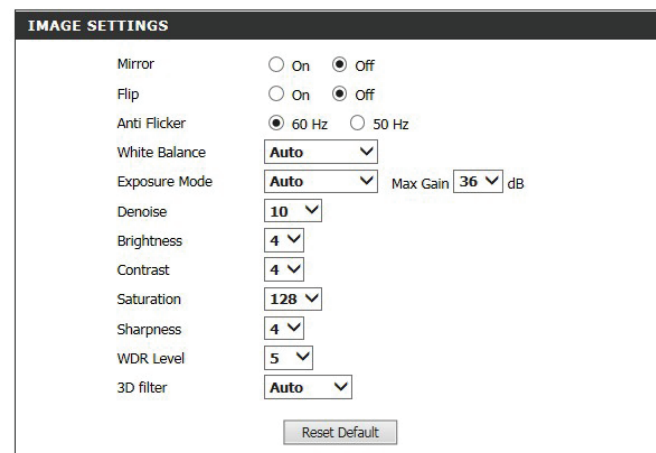
**Saturation:** This setting controls the amount of coloration, from grayscale to fully saturated.

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

**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 to factory default settings.



## Video

You may configure up to 3 video profiles with different settings for your camera. Hence, you may set up different profiles for your Mobile computer and mobile display. 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	1920 x 1080, 1280 x 720, 800 x 448, 640 x 360, 480 x 272, 320 x 176 up to 30 fps
4:3	1440 x 1080, 1280 x 960, 900 x 720, 800 x 592, 640 x 480, 480 x 352, 320 x 240 up to 30 fps

**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.

The screenshot shows the D-Link web interface for the DCS-4802E camera. The main navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' menu is expanded to show 'Setup Wizard', 'Network Setup', 'Dynamic DNS', 'Image Setup', 'Video', 'Preset', 'Motion Detection', 'Time and Date', 'Event Setup', and 'Logout'. The 'Video' section is active, displaying the following settings:

- VIDEO SETTINGS:** Aspect ratio is set to 16:9. A warning message states: "Warning: Change the aspect ratio will clear the settings of privacy mask and preset and motion detection." Buttons for 'Save' and 'Default' are present.
- VIDEO PROFILE 1:** Mode is H.264, Frame size is 480x272, View window area is 480x272, Maximum frame rate is 30, and Video quality is set to Excellent (with Constant bit rate selected).
- VIDEO PROFILE 2:** Mode is H.264, Frame size is 640x360, View window area is 640x360, Maximum frame rate is 30, and Video quality is set to Excellent (with Constant bit rate selected).

Helpful hints on the right side of the page provide additional information:
 

- Higher frame size, frame rate and bit rate gives better video quality.** At the same time, it requires more network bandwidth.
- For best viewing results on a mobile phone, we suggest setting the Frame Rate to 5fps and the Bit Rate to 64Kbps.**
- Aspect Ratio:** An aspect ratio is the ratio between the width and height of an image.
- Mode:** It can be H.264 or JPEG. In JPEG mode, the video frames are independent; H.264 can use less bandwidth but better image quality.
- Frame Size:** 6 options exist for the sizes of the video display. It is recommended using 320x176 for mobile viewing and 1920x1080 for computer viewing.
- View window area:** The viewing region of the current video stream.
- Max frame rate:** The maximum number of frames that is displayed in 1 second. 30fps is the highest video quality for this camera. In general, any frame rate above 15 fps is imperceptible to the human eye.
- Video Quality:** This sets the maximal refresh frame rate, which can be combined with the "Fixed quality" to optimize the bandwidth utilization and video quality. If the User wants to fix the bandwidth utilization regardless of the video quality, choose "Constant bit rate" and select the desired bandwidth.



**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.

The screenshot displays two video profiles, VIDEO PROFILE 1 and VIDEO PROFILE 2, with their respective settings. Each profile has a list of parameters: Mode, Frame size, View window area, Maximum frame rate, and Video quality. The Video quality section includes radio buttons for Constant bit rate and Fixed quality, with a dropdown menu for the selected option.

Profile	Mode	Frame size	View window area	Maximum frame rate	Video quality
VIDEO PROFILE 1	H.264	480x272	480x272	30	Fixed quality (Excellent)
VIDEO PROFILE 2	H.264	640x360	640x360	30	Fixed quality (Excellent)

At the bottom of the configuration area, there are two buttons: "Save Settings" and "Don't Save Settings".

## Preset

This screen allows you to set preset points for the ePTZ function of the camera, which allows you to look around the camera's viewable area by using a zoomed view. Presets allow you to quickly go to and view a specific part of the area your camera is covering, and you can create preset sequences, which will automatically change the camera's view between the different presets according to a defined order and timing you can set.

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

**Video Profile:** This selects which video profile to use.

**ePTZ Speed:** You may select a value between 0 and 10. 0 is the slowest and 10 is the fastest.

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

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

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

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

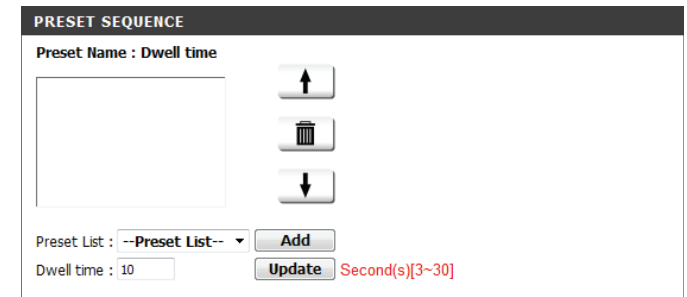
The screenshot displays the D-Link web interface for the DCS-4802E camera. The main navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'PRESET CONTROL' section is active, showing a live video feed of a building. To the right of the video are controls for 'VIDEO PROFILE' (set to 1) and 'ePTZ Speed' (set to 5). Below these are directional arrow buttons (Up, Down, Left, Right) and a Home button. The 'PRESET' section contains an 'Input Preset Name' field with 'Add' and 'Rename' buttons, and a 'Preset List' dropdown with 'GoTo' and 'Remove' buttons. The 'PRESET SEQUENCE' section includes a 'Preset Name' field, 'Dwell time' input (set to 10), and 'Add', 'Update', and 'Remove' buttons. A 'Helpful Hints' sidebar on the right provides instructions on using the controls and creating sequences.

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

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

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

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



The screenshot shows a window titled "PRESET SEQUENCE". At the top, it says "Preset Name : Dwell time". Below this is a large empty rectangular box. To the right of this box are three vertically stacked buttons: an up arrow, a trash can, and a down arrow. Below the box, there is a "Preset List" section with a dropdown menu currently showing "--Preset List--" and an "Add" button. Below that is a "Dwell time" section with a text input field containing the number "10" and an "Update" button. To the right of the "Update" button, the text "Second(s)[3-30]" is displayed in red.

## 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.

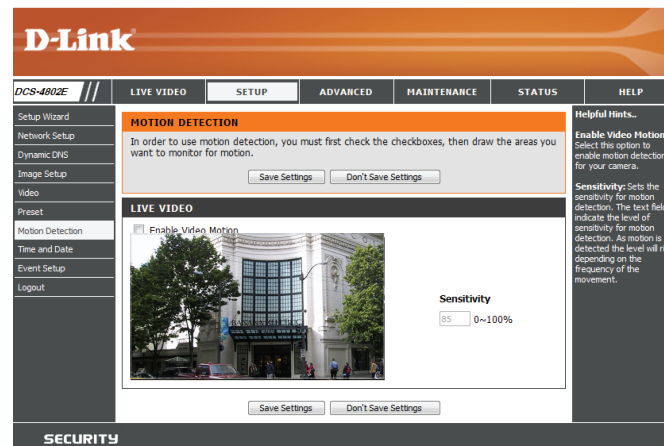
**Erase Motion Area:** To erase a motion detection area, simply click on the red square that you wish to remove.

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:** 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-4802E with an Internet time server. Choose the one that is closest to your location.

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

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

The screenshot shows the D-Link web interface for the DCS-4802E camera. The main navigation bar includes LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists various setup options like Setup Wizard, Network Setup, Dynamic DNS, Image Setup, Video, Preset, Motion Detection, Time and Date, Event Setup, and Logout. The main content area is titled 'TIME AND DATE' and contains the following sections:

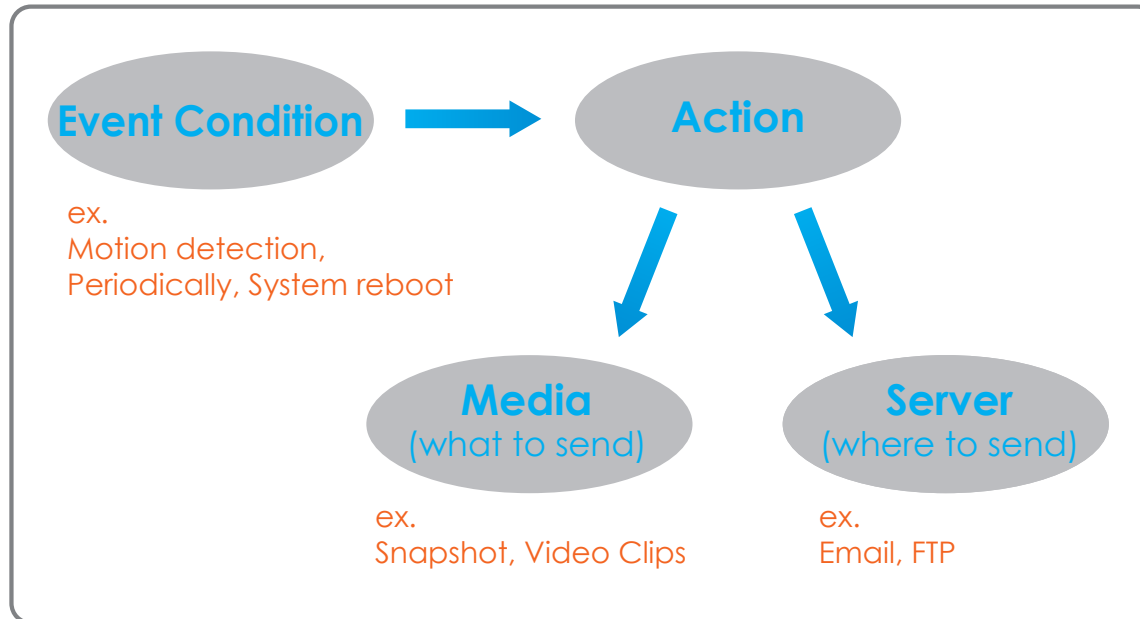
- TIME AND DATE:** A header section with a sub-header 'You can set the current time for the IP camera.' and 'Save Settings' / 'Don't Save Settings' buttons.
- TIME CONFIGURATION:** Includes a 'Time Zone' dropdown menu (set to UTC+08:00 Taipei), an 'Enable Daylight Saving' checkbox, and an 'Auto Daylight Saving' radio button. Below these are 'Offset' (+2:00), 'Start time' (5:00 on Sunday), and 'End time' (10:00 on Sunday) settings.
- AUTOMATIC TIME CONFIGURATION:** Includes a 'Synchronize with NTP Server' checkbox and an 'NTP Server' dropdown menu (set to ntp.dlink.com.tw).
- SET DATE AND TIME MANUALLY:** Includes a 'Set date and time manually' checkbox and fields for Year (2015), Month (6), Day (14), Hour (21), Minute (59), and Second (7). A 'Copy Your Computer's Time Settings' button is also present.

Helpful hints on the right side of the page provide additional information:
 

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

## Event Setup

In a typical application, when motion is detected, the DCS-4802E sends images to a FTP server or via e-mail as notifications. As shown in the illustration below, an event can be triggered by many sources, such as motion detection. When an event is triggered, a specified action will be performed. You can configure the Network Camera to send snapshots or videos to your e-mail address or FTP site.



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

The Event Setup page includes 4 different sections.

- Event
- Server
- Media
- Recording

1. To add a new item 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

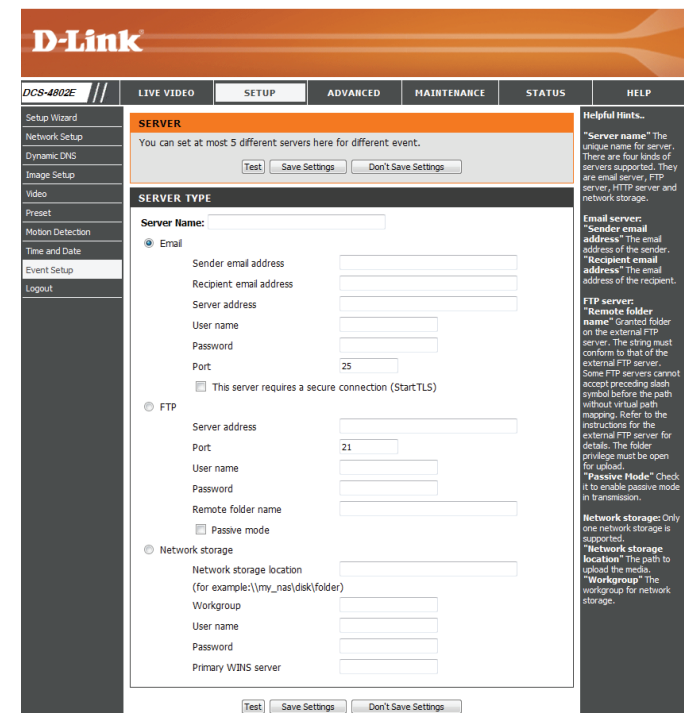
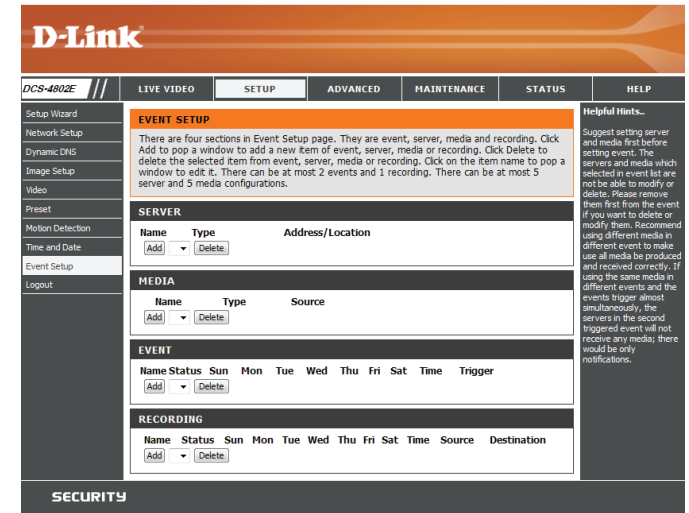
You can configure up to 5 servers to save snapshots and/or video to. After making any changes, click the **Save Settings** button to save your changes.

**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.



## 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.

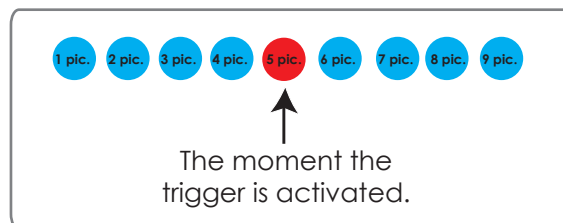
**Source:** Set the video profile to use as the media source. Refer to "Video" on page 32 for more information on video profiles.

**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:

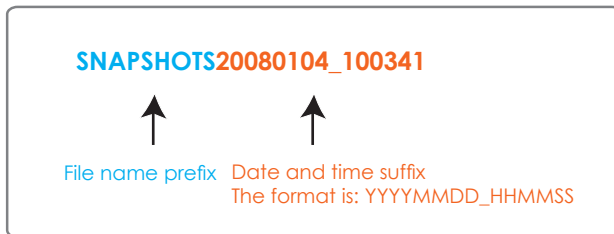
If both the Send pre-event images and Send post-event images are set to four, a total of 9 images are generated after a trigger is activated.



The screenshot shows the D-Link DCS-4802E web interface. The main content area is titled "MEDIA" and contains a "MEDIA TYPE" section. The "Snapshot" radio button is selected. Below it, there are fields for "Media name", "Source" (Profile 1), "Send 1" (pre-event image(s) [0~3]), "Send 1" (post-event image(s) [0~7]), and "File Name Prefix". There is also a checkbox for "Add date and time suffix to file name". The "Video Clip" section is also visible, with fields for "Source", "Pre-event recording" (Second(s) [0~3]), "Maximum duration" (Second(s) [1~100]), "Maximum file size" (Kbytes [100~50000]), and "File Name Prefix". The "System log" radio button is also present. At the bottom of the form are "Save Settings" and "Don't Save Settings" buttons. On the right side, there is a "Helpful Hints..." section with detailed explanations for various fields.



**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 "Video" on page 32 for more information on video profiles.

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

**Maximum duration:** Set the maximum length of video to record for your video clips.

**Maximum file size:** Set the maximum file size to record for your video clips.

**File Name Prefix:** This is the prefix that will be added to the filename of saved video clips.

**System log:** Select this option to set the media type to system logs. This will save the event to the camera system log, but will not record any snapshots or video.

**MEDIA TYPE**

Media name:

Snapshot

Source:

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

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

File Name Prefix:

Add date and time suffix to file name

Video Clip

Source:

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

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

Maximum file size:  Kbytes [100~50000]

File Name Prefix:

System log

## Add Event

Create and schedule up to 3 events with their own settings here. After making any changes, click the **Save Settings** button to save your changes.

**Event name:** Enter a name for the event.

**Enable this event:** Select this box to activate this event.

**Priority:** Set the priority for this event. The event with higher priority will be executed first.

**Delay:** Select the delay time before checking the next event. It is being used for 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.

**Time:** Select **Always** or enter the time interval to monitor for the specified kind of event.

**Action:** If you have created Server and Media entries, you will see them appear here. Select which Server you want to send to and which Media you want the camera to send.

The screenshot shows the D-Link DCS-4802E web interface. The main content area is titled "EVENT" and contains the following configuration options:

- EVENT**:
  - You can set at most 2 events like motion detection or digital input trigger here and arrange the detection schedule at the same time.
  - Buttons: Save Settings, Don't Save Settings
- EVENT**:
  - Event name: [Text Input]
  - Enable this event:
  - Priority: normal (dropdown)
  - Delay for: 10 seconds before detecting next event [For motion detection]
- TRIGGER**:
  - Video motion detection:  (Selected)
  - Periodic:
  - System boot:
  - Trigger every: 1 minutes
- EVENT SCHEDULE**:
  - Sun:  Mon:  Tue:  Wed:  Thu:  Fri:  Sat:
  - Time:
    - Always:  (Selected)
    - From: 00:00 To: 23:59

The sidebar on the right contains "Helpful Hints...":

- Priority:** The event with higher priority will be executed first.
- There are five kinds of trigger supported.
- Video motion detection:** Select the windows which need to be monitored.
- Periodic:** The event is triggered in specified intervals. The unit of trigger interval is minute.
- System boot:** The event is triggered when the system boot up.
- Sun ~ Sat:** Select the days of the week to perform the event.
- Time:** show "Always" or input the time interval.
- Note:** Please Format SD card before use. The entire data in the SD card will be erased after formatting.

## 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 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).

### RECORDING

Recording entry name:

Enable this recording

Priority: normal

Source: Profile 1

### RECORDING SCHEDULE

Sun  Mon  Tue  Wed  Thu  Fri  Sat

**Time**

Always

From   To

### RECORDING SETTINGS

Destination: None

Total cycling recording size:  Mbytes [200~2000000]

Size of each file for recording:  Mbytes

Time of each file for recording:  seconds

File Name Prefix:

# 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.

**D-Link**

DCS-4802E // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

**ICR AND IR**

An IR(Infrared) Cut-Removable(ICR) filter can be disengaged from the image path for increased sensitivity in low light environments. The ICR filter will automatically engage depending on the ambient light, allowing the camera to be effective in day/night environments.

- Select the Day/Night from the radio button. The available options are Automatic, Schedule mode, Day mode and Night mode.
- The default value is Automatic.

Light Sensor Sensitivity  
Light sensor sensitivity has Low, Medium, and High three different levels. You may get current camera light illumination by clicking Refresh button to set proper level of light sensor sensitivity. For example, when level sets at High less than 30lux, camera will switch Day & Night mode to Night mode.

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

Save Settings Don't Save Settings

**ICR**

Removable IR-Cut filter trigger condition:

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

Day mode

Night mode

Schedule mode

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

**IR LIGHT**

IR Light Control Medium

Off

On

Sync. With ICR

Schedule

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

Save Settings Don't Save Settings

**Helpful Hints.**

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

**Day mode:** The Day mode means disable the IR Cut Filter.

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

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

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

**SECURITY**

# 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-4802E.

**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.

**D-Link**

DCS-4802E // LIVE VIDEO SETUP **ADVANCED** MAINTENANCE STATUS HELP

ICR and IR  
HTTPS  
Access List  
SNMP  
Logout

**SNMP**

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

Save Settings Don't Save Settings

**SNMP CONFIGURATION**

Enable SNMPv1, SNMPv2c

Read/Write community

Read only community

Enable SNMPv3

Read/Write Security name

Authentication type

Authentication password

Encryption password

Read only security name

Authentication type

Authentication password

Encryption password

Save Settings Don't Save Settings

**Helpful Hints...**

**Enable SNMPv1, SNMPv2c:** Select this option and enter the name of Read/Write community and Read Only community according to your NMS setting.

**Enable SNMPv3:** This option contains cryptographic security, a higher security level which allows you to set the Authentication password and the Encryption password.

**Security names:** According to your NMS setting, choose Read/Write or Read Only and enter the community name.

**Authentication type:** Select MD5 or SHA as the authentication method.

**Authentication password:** Enter the password for authentication (at least 8 characters).

**Encryption password:** Enter a password for encryption (at least 8 characters).

**SECURITY**



**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.

SNMP CONFIGURATION	
<input type="checkbox"/> Enable SNMPv1, SNMPv2c	
Read/Write community	<input type="text" value="private"/>
Read only community	<input type="text" value="public"/>
<input type="checkbox"/> Enable SNMPv3	
Read/Write Security name	<input type="text" value="private"/>
Authentication type	<input type="text" value="SHA"/>
Authentication password	<input type="password" value="....."/>
Encryption password	<input type="password" value="....."/>
Read only security name	<input type="text" value="public"/>
Authentication type	<input type="text" value="SHA"/>
Authentication password	<input type="password" value="....."/>
Encryption password	<input type="password" value="....."/>

# 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 a new user account.

**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 may delete accounts included in the list, but you may want to reserve at least one as a guest account.

**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.

**Show Time:** Select this option to enable the time-stamp display on the video screen.

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

**D-Link**

DCS-4802E // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Admin  
System  
Firmware Upgrade  
Logout

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

**ADMIN PASSWORD SETTING**

New Password  32 characters maximum  
Retype Password  Save

**ADD USER ACCOUNT**

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

**USER LIST**

User Name -- User list -- Delete

**DEVICE SETTING**

IP Camera Name DCS-4802E 63 characters maximum  
 Enable OSD  
Label DCS-4802E 30 characters maximum  
Show Time   
Save

**LED**

LED  On  Off Save

**Helpful Hints...**  
Enabling OSD, the IP camera name and time will be displayed on the video screen for the user.  
For security purposes, it is recommended that you change the password for your administrator account. Be sure to write down the new password to avoid having to reset the IP camera in the event that it is forgotten.  
LED: In the rear panel of your camera there is a LED beside the network adaptor. ON: The LED will flash a light to indicate if the network is working or not. OFF: No light will show, forth option is turn off.

**SECURITY**

## System

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

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

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

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

**Reboot Device:** This will restart your camera.

**Enable Schedule Reboot:** 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.

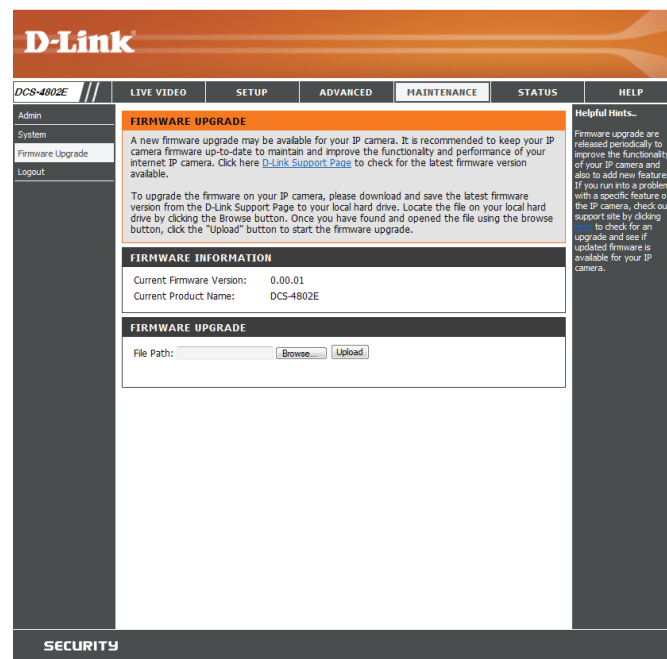
To upgrade the firmware on your DCS-4802E, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the **Browse** button. Select the file and click the **Upload** button to start upgrading the firmware.

**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.

The screenshot shows the D-Link web interface for a DCS-4802E device. The top navigation bar includes links for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS (selected), and HELP. The left sidebar contains links for Device Info, Log, and Logout. The main content area is titled 'DEVICE INFO' and contains a descriptive paragraph and a table of system information. A 'Helpful Hints..' section is visible on the right side of the main content area.

INFORMATION	
IP Camera Name	DCS-4802E
Time & Date	Sun Jun 14 22:00:56 2015
Firmware Version	0.00.01
Hardware Version	A
MAC Address	0A:0A:0A:86:42:55
IP Address	192.168.0.182
IP Subnet Mask	255.255.255.0
Default Gateway	192.168.0.1
Primary DNS	192.168.0.1
Secondary DNS	0.0.0.0
PPPoE	Disable
DDNS	Disable

## Logs

This page displays the log information of your camera. You may download the information by clicking **Download**. You may also click **Clear** to delete the saved log information.

**D-Link**

DCS-4802E // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Device Info  
Log  
Logout

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

**CURRENT LOG**

1. 2015-06-14 21:55:12 admin FROM 192.168.0.174 SET VIDEO CODEC Need Reset
2. 2015-06-14 21:55:08 admin FROM 192.168.0.174 SET PROFILE 1 Viewer window area 480x272
3. 2015-06-14 21:55:08 admin FROM 192.168.0.174 SET PROFILE 1 Frame Size 480x272
4. 2015-06-14 21:54:33 admin FROM 192.168.0.174 LOGIN OK
5. 2015-06-14 21:43:38 SYSTEM SET HEATER HOLD
6. 2015-06-14 21:43:34 DCS-4802E ACQUIRE DHCP IP 192.168.0.182
7. 2015-06-14 21:43:33 SYSTEM SET IR LIGHT OFF
8. 2015-06-14 21:43:33 SYSTEM BOOTING
9. 2015-06-13 18:35:19 admin FROM 172.17.5.40 LOGIN OK
10. 2015-06-13 18:33:18 SYSTEM SET HEATER HOLD
11. 2015-06-13 18:33:14 DCS-4802E ACQUIRE DHCP IP 172.17.5.150
12. 2015-06-13 18:33:13 SYSTEM SET IR LIGHT OFF
13. 2015-06-13 18:33:13 SYSTEM BOOTING
14. 2015-06-09 21:50:43 SYSTEM SET IR LIGHT ON
15. 2015-06-09 21:50:31 SYSTEM SET IR LIGHT ON
16. 2015-06-09 20:54:07 admin FROM 192.168.0.5 LOGIN OK
17. 2015-06-09 20:53:57 SYSTEM SET HEATER HOLD
18. 2015-06-09 20:53:53 DCS-4802E ACQUIRE DHCP IP 192.168.0.103
19. 2015-06-09 20:53:52 SYSTEM SET IR LIGHT OFF
20. 2015-06-09 20:53:52 SYSTEM BOOTING

First Page Previous 20 Next 20  
Clear Download

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

# Help

This page provides helpful information regarding camera operation.

The screenshot shows the D-Link DCS-4802E web interface. At the top is the D-Link logo. Below it is a navigation bar with tabs for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The HELP tab is selected. On the left side, there is a sidebar with 'Help' and 'Logout' links. The main content area is titled 'HELP' and contains a list of links for each menu item: LIVE VIDEO (Camera), SETUP (Setup Wizard, Network Setup, Dynamic DNS, Image Setup, Audio and Video, Preset, Motion Detection, Time and Date, Event Setup), ADVANCED (ICR and IR, HTTPS, Access List, SNMP), MAINTENANCE (Admin, System, Firmware Upgrade), and STATUS (Device Info, Log). At the bottom of the page, there is a 'SECURITY' section.

DCS-4802E	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Help Logout	<b>HELP</b> <ul style="list-style-type: none"><li>LIVE VIDEO</li><li>SETUP</li><li>MAINTENANCE</li><li>ADVANCED</li><li>STATUS</li></ul>	<b>LIVE VIDEO</b> <ul style="list-style-type: none"><li><a href="#">Camera</a></li></ul>	<b>SETUP</b> <ul style="list-style-type: none"><li><a href="#">Setup Wizard</a></li><li><a href="#">Network Setup</a></li><li><a href="#">Dynamic DNS</a></li><li><a href="#">Image Setup</a></li><li><a href="#">Audio and Video</a></li><li><a href="#">Preset</a></li><li><a href="#">Motion Detection</a></li><li><a href="#">Time and Date</a></li><li><a href="#">Event Setup</a></li></ul>	<b>ADVANCED</b> <ul style="list-style-type: none"><li><a href="#">ICR and IR</a></li><li><a href="#">HTTPS</a></li><li><a href="#">Access List</a></li><li><a href="#">SNMP</a></li></ul>	<b>MAINTENANCE</b> <ul style="list-style-type: none"><li><a href="#">Admin</a></li><li><a href="#">System</a></li><li><a href="#">Firmware Upgrade</a></li></ul>	<b>STATUS</b> <ul style="list-style-type: none"><li><a href="#">Device Info</a></li><li><a href="#">Log</a></li></ul>

**SECURITY**

# Technical Specifications

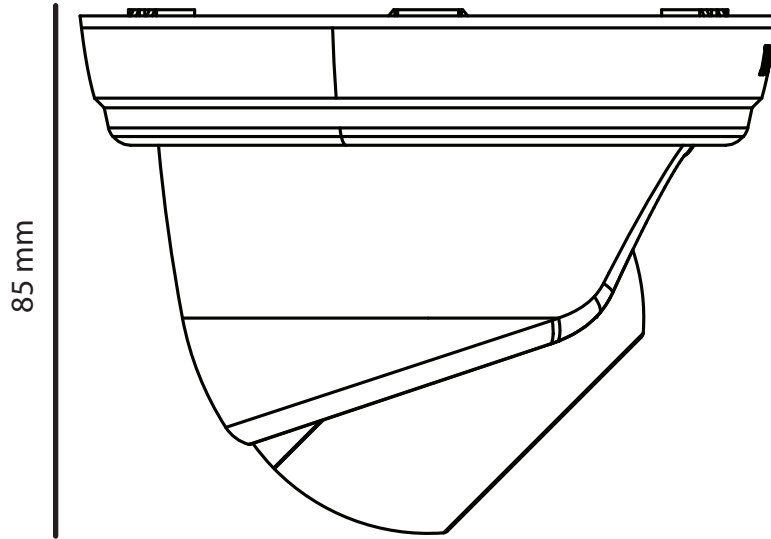
<b>Camera</b>	Camera Hardware Profile	<ul style="list-style-type: none"> <li>▪ 1/3" 2 Megapixel progressive CMOS sensor</li> <li>▪ 20 meter IR illumination distance</li> <li>▪ Minimum illumination: 0 lux with IR LED on</li> <li>▪ Built-in Infrared-Cut Removable (ICR) Filter module</li> <li>▪ 10x digital zoom</li> <li>▪ Minimum object distance 0.2M</li> <li>▪ Focal length: 2.8 mm</li> <li>▪ Aperture: F2.0</li> </ul>	<ul style="list-style-type: none"> <li>▪ Angle of view:               <ul style="list-style-type: none"> <li>▪ (H) 96°</li> <li>▪ (V) 54°</li> <li>▪ (D) 108°</li> </ul> </li> <li>▪ Adjustment angle (non-motorized):               <ul style="list-style-type: none"> <li>▪ Vertical: 75°</li> <li>▪ Horizontal: 360°</li> <li>▪ Rotation: 360°</li> </ul> </li> </ul>
	Camera Housing	<ul style="list-style-type: none"> <li>▪ IP-66 compliant weatherproof housing</li> </ul>	
	Image Features	<ul style="list-style-type: none"> <li>▪ Configurable image size, quality, frame rate, and bit rate</li> <li>▪ Time stamp and text overlays</li> <li>▪ Configurable motion detection windows</li> </ul>	<ul style="list-style-type: none"> <li>▪ Configurable privacy mask zones</li> <li>▪ Configurable shutter speed, brightness, saturation, contrast, sharpness, WDR, and 3D filter</li> </ul>
	Video Compression	<ul style="list-style-type: none"> <li>▪ Simultaneous H.264/MJPEG format compression</li> <li>▪ H.264/MJPEG multicast streaming</li> </ul>	<ul style="list-style-type: none"> <li>▪ JPEG for still images</li> </ul>
	Video Resolution	16:9 - 1920 x 1080, 1280 x 720, 800 x 448, 640 x 360 up to 30 fps	4:3 - 1440 x 1080, 1280 x 960, 1024 x 768, 800 x 592, 640 x 480 up to 30 fps
	External Device Interface	<ul style="list-style-type: none"> <li>▪ 10/100 BASE-TX Fast Ethernet port</li> </ul>	<ul style="list-style-type: none"> <li>▪ Supports 802.3af PoE Class 2</li> </ul>
<b>Network</b>	Network Protocols	<ul style="list-style-type: none"> <li>▪ IPv6</li> <li>▪ IPv4</li> <li>▪ ARP</li> <li>▪ TCP/IP</li> <li>▪ UDP</li> <li>▪ ICMP</li> <li>▪ DHCP client</li> <li>▪ NTP client (D-Link)</li> <li>▪ DNS client</li> <li>▪ DDNS client (D-Link)</li> <li>▪ SMTP client</li> <li>▪ FTP client</li> </ul>	<ul style="list-style-type: none"> <li>▪ HTTP/HTTPS</li> <li>▪ Samba client</li> <li>▪ PPPoE</li> <li>▪ UPnP port forwarding</li> <li>▪ RTP/RTSP/RTCP</li> <li>▪ IP filtering</li> <li>▪ Multicast</li> <li>▪ CoS</li> <li>▪ QoS/DSCP</li> <li>▪ SNMP</li> <li>▪ ONVIF compliant</li> <li>▪ Bonjour</li> </ul>
	Security	Administrator and user group protection Password authentication	HTTP and RTSP authentication



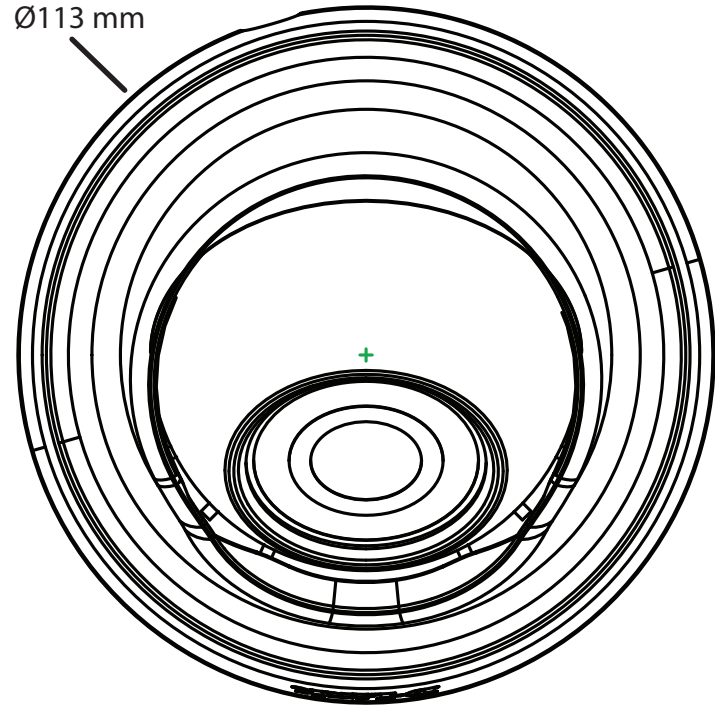
## Appendix A: Technical Specifications

<b>System Management</b>	System Requirements for Web Interface	<ul style="list-style-type: none"> <li>▪ Browser: Internet Explorer, Firefox, Safari</li> </ul>	
	Event Management	<ul style="list-style-type: none"> <li>▪ Motion detection</li> <li>▪ Event notification and uploading of snapshots/video clips via e-mail or FTP</li> </ul>	<ul style="list-style-type: none"> <li>▪ Supports multiple SMTP and FTP servers</li> <li>▪ Multiple event notifications</li> <li>▪ Multiple recording methods for easy backup</li> </ul>
	Remote Management	<ul style="list-style-type: none"> <li>▪ Take snapshots/video clips and save to local hard drive</li> </ul>	<ul style="list-style-type: none"> <li>▪ Configuration interface accessible via web browser</li> </ul>
	D-ViewCam™ System Requirements	<ul style="list-style-type: none"> <li>▪ Operating System: Microsoft Windows 8/7/Vista</li> <li>▪ Web Browser: Internet Explorer 7 or higher</li> </ul>	<ul style="list-style-type: none"> <li>▪ Protocol: Standard TCP/IP</li> </ul>
	D-ViewCam™ Software Functions	<ul style="list-style-type: none"> <li>▪ Remote management/control of up to 32 cameras</li> <li>▪ Viewing of up to 32 cameras on one screen</li> </ul>	<ul style="list-style-type: none"> <li>▪ Supports all management functions provided in web interface</li> <li>▪ Scheduled motion triggered, or manual recording options</li> </ul>
<b>General</b>	Weight	370 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	5.2 watts ± 5% (PoE Class 2)	
	Temperature	Operating: -30 to 50 °C (-22 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

Dimensions



Ø113 mm



# Regulatory Information

## **Federal Communication Commission Interference Statement:**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## **Non-modification Statement:**

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

## **Caution:**

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

## **Industry Canada Statement:**

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

## **European Union**

### **CE EMI Class A Warning**



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

### **Safety Instructions**

Please adhere to the following safety guidelines to help ensure your own personal safety and protect your system from potential damage. Any acts taken that are inconsistent with ordinary use of the product, including improper testing, etc., and those not expressly approved by D-Link may result in the loss of product warranty.

Unless expressly approved by an authorized representative of D-Link in writing, you may not and may not permit others to:

- Disassemble or reverse engineer the device or attempt to derive source code (underlying ideas, algorithms, or structure) from the device or from any other information provided by D-Link, except to the extent that this restriction is expressly prohibited by local law.
- Modify or alter the device.
- Remove from the device any product identification or other notices, including copyright notices and patent markings, if any.

To reduce the risk of bodily injury, electrical shock, fire, and damage to the device and other equipment, observe the following precautions:

### **Power Sources**

- Observe and follow service markings.
- Do not push any objects into the openings of your device unless consistent with the authorized operation of the device. Doing so can cause a fire or an electrical shock by shorting out interior components.
- The powering of this device must adhere to the power specifications indicated for this product.
- Do not overload wall outlets and/or extension cords as this will increase the risk of fire or electrical shock.
- Do not rest anything on the power cord or on the device (unless the device is made and expressly approved as suitable for stacking).
- Position system cables and power cables carefully; route cables so that they cannot be stepped on or tripped over. Be sure that nothing rests on any cables.
- Operate the device only from the type of external power source indicated on the electrical ratings label.
- To help avoid damaging your device, be sure the voltage selection switch (if provided) on the power supply is set to match the power available at your location.
- Also be sure that attached devices are electrically rated to operate with the power available in your location.
- Use only approved power cable(s). If you have not been provided a power cable for your device or for any AC-powered option intended for your device, purchase a power cable that is approved for use in your country and is suitable for use with your device. The power cable must be rated for the device and for the voltage and current marked on the device's electrical ratings label. The voltage and current rating of the cable should be greater than the ratings marked on the device.

- To help prevent an electrical shock, plug the device and peripheral power cables into properly grounded electrical outlets. These cables are equipped with three-prong plugs to help ensure proper grounding. Do not use adapter plugs or remove the grounding prong from a cable. If you must use an extension cable, use a 3-wire cable with properly grounded plugs.
- Observe extension cable and power strip ratings. Ensure that the total ampere rating of all products plugged into the extension cable or power strip does not exceed 80 percent of the ampere ratings limit for the extension cable or power strip.
- To help protect your device from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).
- Do not modify power cables or plugs. Consult a licensed electrician or your power company for site modifications. Always follow your local/national wiring rules.
- When connecting or disconnecting power to hot-pluggable power supplies, if offered with your device, observe the following guidelines.
- Install the power supply before connecting the power cable to the power supply.
- Unplug the power cable before removing the power supply.
- If the system has multiple sources of power, disconnect power from the device by unplugging all power cables from the power supplies.

### **Servicing/Disassembling**

- Do not service any product except as expressly set forth in your system documentation.
- Opening or removing covers that are marked with the triangular symbol with a lightning bolt may expose you to an electrical shock. Only a trained service technician should service components inside these compartments.
- To reduce the risk of electrical shock, never disassemble this device. None of its internal parts are user-replaceable; therefore, there is no reason to access the interior.
- Do not spill food or liquids on your system components, and never operate the device in a wet environment. If the device gets wet, see the appropriate section in your troubleshooting guide or contact your trained service provider.
- Use the device only with approved equipment.
- Move products with care; ensure that all casters and/or stabilizers are firmly connected to the system. Avoid sudden stops and uneven surfaces.

### **Environment**

- Do not use this device near water (e.g. near a bathtub, sink, laundry tub, fish tank, in a wet basement or near a swimming pool).
- Do not use this device in areas with high humidity.

- This device must not be subjected to water or condensation.
- Keep your device away from radiators and heat sources. Also, do not block cooling vents.

### **Cleaning**

- Always unplug the power before cleaning this device.
- Do not use liquid or aerosol cleaners of any kind. Use only compressed air that is recommended for electronic devices.
- Use a dry cloth for cleaning.

### **Protecting Against Electrostatic Discharge**

Static electricity can harm delicate components inside your system. To prevent static damage, discharge static electricity from your body before you touch any of the electronic components, such as the microprocessor. You can do so by periodically touching an unpainted metal surface on the chassis.

You can also take the following steps to help prevent damage from electrostatic discharge (ESD):

1. When unpacking a static-sensitive component from its shipping carton, do not remove the component from the antistatic packing material until you are ready to install the component in your system. Just before unwrapping the antistatic packaging, be sure to discharge static electricity from your body.
2. When transporting a sensitive component, first place it in an antistatic container or packaging.
3. Handle all sensitive components in a static-safe area. If possible, use antistatic floor pads, workbench pads, and an antistatic grounding strap.

## Disposing of and Recycling Your Product

### ENGLISH



This symbol on the product or packaging means that according to local laws and regulations this product should not be disposed of in the household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free.

By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

### D-Link and the Environment

At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimise this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

D-Link recommends that you always switch off or unplug your D-Link products when they are not in use. By doing so you will help to save energy and reduce CO2 emissions.

To learn more about our environmentally responsible products and packaging please visit [www.dlinkgreen.com](http://www.dlinkgreen.com)

### DEUTSCH DE



Dieses Symbol auf dem Produkt oder der Verpackung weist darauf hin, dass dieses Produkt gemäß bestehender örtlicher Gesetze und Vorschriften nicht über den normalen Hausmüll entsorgt werden sollte, sondern einer Wiederverwertung zuzuführen ist. Bringen Sie es bitte zu einer von Ihrer Kommunalbehörde entsprechend amtlich ausgewiesenen Sammelstelle, sobald das Produkt das Ende seiner Nutzungsdauer erreicht hat. Für die Annahme solcher Produkte erheben einige dieser Stellen keine Gebühren. Durch ein auf diese Weise durchgeführtes Recycling des Produkts und seiner Verpackung helfen Sie, die Umwelt zu schonen und die menschliche Gesundheit zu schützen.

### D-Link und die Umwelt

D-Link ist sich den möglichen Auswirkungen seiner Geschäftstätigkeiten und seiner Produkte auf die Umwelt bewusst und fühlt sich verpflichtet, diese entsprechend zu mindern. Zu diesem Zweck entwickelt und stellt D-Link seine Produkte mit dem Ziel größtmöglicher Umweltfreundlichkeit her und verwendet wiederverwertbare, schadstoffarme Materialien bei Produktherstellung und Verpackung.

D-Link empfiehlt, Ihre Produkte von D-Link, wenn nicht in Gebrauch, immer auszuschalten oder vom Netz zu nehmen. Auf

diese Weise helfen Sie, Energie zu sparen und CO<sub>2</sub>-Emissionen zu reduzieren.

Wenn Sie mehr über unsere umweltgerechten Produkte und Verpackungen wissen möchten, finden Sie entsprechende Informationen im Internet unter [www.dlinkgreen.com](http://www.dlinkgreen.com).

### FRANÇAIS FR



Ce symbole apposé sur le produit ou son emballage signifie que, conformément aux lois et réglementations locales, ce produit ne doit pas être éliminé avec les déchets domestiques mais recyclé. Veuillez le rapporter à un point de collecte prévu à cet effet par les autorités locales; certains accepteront vos produits gratuitement. En recyclant le produit et son emballage de cette manière, vous aidez à préserver l'environnement et à protéger la santé de l'homme.

### D-Link et l'environnement

Chez D-Link, nous sommes conscients de l'impact de nos opérations et produits sur l'environnement et nous engageons à le réduire. Pour limiter cet impact, D-Link conçoit et fabrique ses produits de manière aussi écologique que possible, en utilisant des matériaux recyclables et faiblement toxiques, tant dans ses produits que ses emballages.

D-Link recommande de toujours éteindre ou débrancher vos produits D-Link lorsque vous ne les utilisez pas. Vous réaliserez ainsi des économies d'énergie et réduirez vos émissions de CO<sub>2</sub>.

Pour en savoir plus sur les produits et emballages respectueux de l'environnement, veuillez consulter le [www.dlinkgreen.com](http://www.dlinkgreen.com)

### ESPAÑOL ES



Este símbolo en el producto o el embalaje significa que, de acuerdo con la legislación y la normativa local, este producto no se debe desechar en la basura doméstica sino que se debe reciclar. Llévelo a un punto de recogida designado por las autoridades locales una vez que ha llegado al fin de su vida útil; algunos de ellos aceptan recogerlos de forma gratuita. Al reciclar el producto y su embalaje de esta forma, contribuye a preservar el medio ambiente y a proteger la salud de los seres humanos.

### D-Link y el medio ambiente

En D-Link, comprendemos y estamos comprometidos con la reducción del impacto que puedan tener nuestras actividades y nuestros productos en el medio ambiente. Para reducir este impacto, D-Link diseña y fabrica sus productos para que sean lo más ecológicos posible, utilizando materiales reciclables y de baja toxicidad tanto en los productos como en el embalaje.



D-Link recomienda apagar o desenchufar los productos D-Link cuando no se estén utilizando. Al hacerlo, contribuirá a ahorrar energía y a reducir las emisiones de CO<sub>2</sub>.

Para obtener más información acerca de nuestros productos y embalajes ecológicos, visite el sitio [www.dlinkgreen.com](http://www.dlinkgreen.com)

### ITALIANO IT



La presenza di questo simbolo sul prodotto o sulla confezione del prodotto indica che, in conformità alle leggi e alle normative locali, questo prodotto non deve essere smaltito nei rifiuti domestici, ma avviato al riciclo. Una volta terminato il ciclo di vita utile, portare il prodotto presso un punto di raccolta indicato dalle autorità locali. Alcuni questi punti di raccolta accettano gratuitamente i prodotti da riciclare. Scegliendo di riciclare il prodotto e il relativo imballaggio, si contribuirà a preservare l'ambiente e a salvaguardare la salute umana.

### D-Link e l'ambiente

D-Link cerca da sempre di ridurre l'impatto ambientale dei propri stabilimenti e dei propri prodotti. Allo scopo di ridurre al minimo tale impatto, D-Link progetta e realizza i propri prodotti in modo che rispettino il più possibile l'ambiente, utilizzando materiali riciclabili a basso tasso di tossicità sia per i prodotti che per gli imballaggi.

D-Link raccomanda di spegnere sempre i prodotti D-Link o di scollegarne la spina quando non vengono utilizzati. In questo modo si contribuirà a risparmiare energia e a ridurre le emissioni di anidride carbonica.

Per ulteriori informazioni sui prodotti e sugli imballaggi D-Link a ridotto impatto ambientale, visitate il sito all'indirizzo [www.dlinkgreen.com](http://www.dlinkgreen.com)

### NEDERLANDS NL



Dit symbool op het product of de verpakking betekent dat dit product volgens de plaatselijke wetgeving niet mag worden weggegooid met het huishoudelijk afval, maar voor recyclage moeten worden ingeleverd. Zodra het product het einde van de levensduur heeft bereikt, dient u het naar een inzamelpunt te brengen dat hiertoe werd aangeduid door uw plaatselijke autoriteiten, sommige autoriteiten accepteren producten zonder dat u hiervoor dient te betalen.

Door het product en de verpakking op deze manier te recyclen helpt u het milieu en de gezondheid van de mens te beschermen.

### **D-Link en het milieu**

Bij D-Link spannen we ons in om de impact van onze handelingen en producten op het milieu te beperken. Om deze impact te beperken, ontwerpt en bouwt D-Link zijn producten zo milieuvriendelijk mogelijk, door het gebruik van recycleerbare producten met lage toxiciteit in product en verpakking.

D-Link raadt aan om steeds uw D-Link producten uit te schakelen of uit de stekker te halen wanneer u ze niet gebruikt. Door dit te doen bespaart u energie en beperkt u de CO2-emissies.

Breng een bezoek aan [www.dlinkgreen.com](http://www.dlinkgreen.com) voor meer informatie over onze milieuverantwoorde producten en verpakkingen

### **POLSKI PL**



Ten symbol umieszczony na produkcie lub opakowaniu oznacza, że zgodnie z miejscowym prawem i lokalnymi przepisami niniejszego produktu nie wolno wyrzucać jak odpady czy śmieci z gospodarstwa domowego, lecz należy go poddać procesowi recyklingu. Po zakończeniu użytkowania produktu, niektóre odpowiednie do tego celu podmioty przyjmą takie produkty nieodpłatnie, dlatego prosimy dostarczyć go do punktu zbiórki wskazanego przez lokalne władze.

Poprzez proces recyklingu i dzięki takiemu postępowaniu z produktem oraz jego opakowaniem, pomogą Państwo chronić środowisko naturalne i dbać o ludzkie zdrowie.

### **D-Link i środowisko**

W D-Link podchodzimy w sposób świadomy do ochrony otoczenia oraz jesteśmy zaangażowani w zmniejszanie wpływu naszych działań i produktów na środowisko naturalne. W celu zminimalizowania takiego wpływu firma D-Link konstruuje i wytwarza swoje produkty w taki sposób, aby były one jak najbardziej przyjazne środowisku, stosując do tych celów materiały nadające się do powtórnego wykorzystania, charakteryzujące się małą toksycznością zarówno w przypadku samych produktów jak i opakowań.

Firma D-Link zaleca, aby Państwo zawsze prawidłowo wyłączali z użytku swoje produkty D-Link, gdy nie są one wykorzystywane. Postępując w ten sposób pozwalają Państwo oszczędzać energię i zmniejszać emisje CO2.

"Aby dowiedzieć się więcej na temat produktów i opakowań mających wpływ na środowisko prosimy zapoznać się ze stroną internetową [www.dlinkgreen.com](http://www.dlinkgreen.com)."

## ČESKY

## CZ



Tento symbol na výrobku nebo jeho obalu znamená, že podle místně platných předpisů se výrobek nesmí vyhazovat do komunálního odpadu, ale odeslat k recyklaci. Až výrobek doslouží, odneste jej prosím na sběrné místo určené místními úřady k tomuto účelu. Některá sběrná místa přijímají výrobky zdarma. Recyklací výrobku i obalu pomáháte chránit životní prostředí i lidské zdraví.

### D-Link a životní prostředí

"Ve společnosti D-Link jsme si vědomi vlivu našich provozů a výrobků na životní prostředí a snažíme se o minimalizaci těchto vlivů. Proto své výrobky navrhujeme a vyrábíme tak, aby byly co nejekologičtější, a ve výrobcích i obalech používáme recyklovatelné a nízkotoxické materiály."

"Společnost D-Link doporučuje, abyste své výrobky značky D-Link vypnuli nebo vytáhli ze zásuvky vždy, když je nepoužíváte. Pomůžete tak šetřit energii a snížit emise CO<sub>2</sub>."

Více informací o našich ekologických výrobcích a obalech najdete na adrese [www.dlinkgreen.com](http://www.dlinkgreen.com).

## MAGYAR

## HU



Ez a szimbólum a terméken vagy a csomagoláson azt jelenti, hogy a helyi törvényeknek és szabályoknak megfelelően ez a termék nem semmisíthető meg a háztartási hulladékkal együtt, hanem újrahasznosításra kell küldeni. Kérjük, hogy a termék élettartamának elteltét követően vigye azt a helyi hatóság által kijelölt gyűjtőhelyre. A termékek egyes helyeken ingyen elhelyezhetők. A termék és a csomagolás újrahasznosításával segíti védeni a környezetet és az emberek egészségét.

### A D-Link és a környezet

A D-Linknél megértjük és elkötelezettek vagyunk a műveleteink és termékeink környezetre gyakorolt hatásainak csökkentésére. Az ezen hatás csökkentése érdekében a D-Link a lehető leginkább környezetbarát termékeket tervez és gyárt azáltal, hogy újrahasznosítható, alacsony károsanyag-tartalmú termékeket gyárt és csomagolásokat alkalmaz.

A D-Link azt javasolja, hogy mindig kapcsolja ki vagy húzza ki a D-Link termékeket a tápforrásból, ha nem használja azokat. Ezzel segít az energia megtakarításában és a széndioxid kibocsátásának csökkentésében.

Környezetbarát termékeinkről és csomagolásainkról további információkat a [www.dlinkgreen.com](http://www.dlinkgreen.com) weboldalon tudhat meg.

**NORSK NO**



Dette symbolet på produktet eller forpakningen betyr at dette produktet ifølge lokale lover og forskrifter ikke skal kastes sammen med husholdningsavfall, men leveres inn til gjenvinning.

Vennligst ta det til et innsamlingssted anvist av lokale myndigheter når det er kommet til slutten av levetiden.

Noen steder aksepteres produkter uten avgift. Ved på denne måten å gjenvinne produktet og forpakningen hjelper du å verne miljøet og beskytte folks helse.

**D-Link og miljøet**

Hos D-Link forstår vi oss på og er forpliktet til å minske innvirkningen som vår drift og våre produkter kan ha på miljøet.

For å minimalisere denne innvirkningen designer og lager D-Link produkter som er så miljøvennlig som mulig, ved å bruke resirkulerbare, lav-toksiske materialer både i produktene og forpakningen.

D-Link anbefaler at du alltid slår av eller frakobler D-Link-produkter når de ikke er i bruk. Ved å gjøre dette hjelper du å spare energi og å redusere CO<sub>2</sub>-utslipp.

"For mer informasjon angående våre miljøansvarlige produkter og forpakninger kan du gå til [www.dlinkgreen.com](http://www.dlinkgreen.com)"

**DANSK DK**



Dette symbol på produktet eller emballagen betyder, at dette produkt i henhold til lokale love og regler ikke må bortskaffes som husholdningsaffald, mens skal sendes til genbrug. Indlever

produktet til et indsamlingssted som angivet af de lokale myndigheder, når det er nået til slutningen af dets levetid. I nogle tilfælde vil produktet blive modtaget gratis. Ved at indlevere produktet og dets emballage til genbrug på denne måde bidrager du til at beskytte miljøet og den menneskelige sundhed.

**D-Link og miljøet**

Hos D-Link forstår vi og bestræber os på at reducere enhver indvirkning, som vores aktiviteter og produkter kan have på miljøet. For at minimere denne indvirkning designer og producerer D-Link sine produkter, så de er så miljøvenlige som muligt, ved at bruge genanvendelige materialer med lavt giftighedsniveau i både produkter og emballage.

D-Link anbefaler, at du altid slukker eller frakobler dine D-Link-produkter, når de ikke er i brug. Ved at gøre det bidrager du til at spare energi og reducere CO<sub>2</sub>-udledningerne.

Du kan finde flere oplysninger om vores miljømæssigt ansvarlige produkter og emballage på [www.dlinkgreen.com](http://www.dlinkgreen.com)

## SUOMI

## FI



Tämä symboli tuotteen pakkauksessa tarkoittaa, että paikallisten lakien ja säännösten mukaisesti tätä tuotetta ei pidä hävittää yleisen kotitalousjätteen seassa vaan se tulee toimittaa kierrätettäväksi. Kun tuote on elinkaarensa päässä, toimita se lähimpään viranomaisten hyväksymään kierrätyspisteeseen. Kierrättämällä käytetyn tuotteen ja sen pakkauksen autat tukemaan sekä ympäristön että ihmisten terveyttä ja hyvinvointia.

### D-Link ja ympäristö

D-Link ymmärtää ympäristönsuojelun tärkeyden ja on sitoutunut vähentämään tuotteistaan ja niiden valmistuksesta ympäristölle mahdollisesti aiheutuvia haittavaikutuksia. Nämä negatiiviset vaikutukset minimoidakseen D-Link suunnittelee ja valmistaa tuotteensa mahdollisimman ympäristöystävällisiksi käyttämällä kierrätettäviä, alhaisia pitoisuuksia haitallisia aineita sisältäviä materiaaleja sekä tuotteissaan että niiden pakkauksissa.

Suosittelemme, että irrotat D-Link-tuotteesi virtalähteestä tai sammutat ne aina, kun ne eivät ole käytössä. Toimimalla näin autat säästämään energiaa ja vähentämään hiilidioksiidipäästöjä.

"Lue lisää ympäristöystävällisistä D-Link-tuotteista ja pakkauksistamme osoitteesta [www.dlinkgreen.com](http://www.dlinkgreen.com)"

## SVENSKA SE



Den här symbolen på produkten eller förpackningen betyder att produkten enligt lokala lagar och föreskrifter inte skall kastas i hushållssoporna utan i stället återvinnas. Ta den vid slutet av dess livslängd till en av din lokala myndighet utsedd uppsamlingsplats, vissa accepterar produkter utan kostnad. Genom att på detta sätt återvinna produkten och förpackningen hjälper du till att bevara miljön och skydda människors hälsa.

### D-Link och miljön

På D-Link förstår vi och är fast beslutna att minska den påverkan våra verksamheter och produkter kan ha på miljön. För att minska denna påverkan utformar och bygger D-Link sina produkter för att de ska vara så miljövänliga som möjligt, genom att använda återvinningsbara material med låg gifthalt i både produkter och förpackningar.

D-Link rekommenderar att du alltid stänger av eller kopplar ur dina D-Link produkter när du inte använder dem. Genom att göra detta hjälper du till att spara energi och minska utsläpp av koldioxid.

För mer information om våra miljöansvariga produkter och förpackningar [www.dlinkgreen.com](http://www.dlinkgreen.com)

**PORTUGUÊS      PT**



Este símbolo no produto ou embalagem significa que, de acordo com as leis e regulamentações locais, este produto não deverá ser eliminado juntamente com o lixo doméstico mas enviado para a reciclagem. Transporte-o para um ponto de recolha designado pelas suas autoridades locais quando este tiver atingido o fim da sua vida útil, alguns destes pontos aceitam produtos gratuitamente. Ao reciclar o produto e respectiva embalagem desta forma, ajuda a preservar o ambiente e protege a saúde humana.

**A D-Link e o ambiente**

Na D-Link compreendemos e comprometemo-nos com a redução do impacto que as nossas operações e produtos possam ter no ambiente. Para minimizar este impacto a D-Link concebe e constrói os seus produtos para que estes sejam o mais inofensivos para o ambiente possível, utilizando materiais recicláveis e não tóxicos tanto nos produtos como nas embalagens.

A D-Link recomenda que desligue os seus produtos D-Link quando estes não se encontrarem em utilização. Com esta acção ajudará a poupar energia e reduzir as emissões de CO<sub>2</sub>.

Para saber mais sobre os nossos produtos e embalagens responsáveis a nível ambiental visite [www.dlinkgreen.com](http://www.dlinkgreen.com)