D-Link®

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User Manual

Vigilance Full HD Outdoor Vandal-Proof PoE Dome Camera

DCS-4602EV
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

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>05/06/2015</td>
<td>DCS-4602EV Revision A1 with firmware version 1.00</td>
</tr>
<tr>
<td>1.01</td>
<td>03/11/2016</td>
<td>Added DCS-37-1/DCS-37-2 information</td>
</tr>
</tbody>
</table>

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Section 1: Product Overview

Product Overview

Package Contents

- DCS-4602EV Vigilance Full HD Outdoor Vandal-Proof PoE 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-4602EV Vigilance Full HD Outdoor Vandal-Proof PoE Dome Camera. The DCS-4602EV is a professional surveillance and security solution for small, medium, and large enterprises alike. The DCS-4602EV 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-4602EV 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-4602EV 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-4602EV 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-4602EV the capability to view up to 20M at night. The DCS-4602EV 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, IK10 vandal-proof housing, IR-Cut Filter, IR LEDs, and PoE make the DCS-4602EV 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-4602EV is a stand-alone system with a built-in CPU, requiring no special hardware or software. The DCS-4602EV can be viewed and managed through most web browsers, including Internet Explorer®, Chrome®, Firefox®, and Safari®.

Supports a Variety of Platforms
With support for TCP/IP networking, HTTP, and other Internet related protocols, the DCS-4602EV can also be integrated easily into other Internet/Intranet applications because of its standards-based features. The DCS-4602EV works with any 10/100 Ethernet network, making the DCS-4602EV easy to integrate into your existing network environment.

Advanced Event Management
The DCS-4602EV 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 and Vandal-proof Housing
The DCS-4602EV 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-4602EV 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

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Protective Cover</strong></td>
<td>Fixed lens to record video of the surrounding area</td>
</tr>
<tr>
<td>2</td>
<td><strong>Cover Screws</strong></td>
<td>The three screws can be removed with the included wrench</td>
</tr>
<tr>
<td>3</td>
<td><strong>Camera Lens</strong></td>
<td>Fixed lens to record video of the surrounding area</td>
</tr>
<tr>
<td>4</td>
<td><strong>Inner Cover</strong></td>
<td>Covers the camera components</td>
</tr>
<tr>
<td>5</td>
<td><strong>Reset Button</strong></td>
<td>Press and hold for 10 seconds to reset camera back to the factory default settings</td>
</tr>
<tr>
<td>6</td>
<td><strong>IR LEDs</strong></td>
<td>Provide illumination for low-light environments</td>
</tr>
<tr>
<td>7</td>
<td><strong>Tilt Adjustment Screw</strong></td>
<td>Can be loosened to adjust camera angle</td>
</tr>
</tbody>
</table>
**Section 1: Product Overview**

<table>
<thead>
<tr>
<th></th>
<th><strong>Power Connector</strong></th>
<th>Connects to an optional 12 V / 1.5 A power adapter (not included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td><strong>Ethernet Jack</strong></td>
<td>RJ-45 connector for Ethernet which can also be used to power the camera using Power over Ethernet (PoE)</td>
</tr>
<tr>
<td>3</td>
<td><strong>Grounding Screw</strong></td>
<td>Can be attached to a grounding wire if desired</td>
</tr>
</tbody>
</table>
Installation

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 included wrench to loosen the 3 screws on the top of the camera, then lift the camera cover off.
Step 3
Use the screws provided to mount the camera to the wall or ceiling.

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 4
Connect the power and Ethernet cables, or just the Ethernet cable if you are using a PoE connection.
Section 2: Installation

**Step 5**
To adjust the camera's angle, pull the black inner cover and remove it from the camera.

Loosen the adjustment screw on the side of the camera, then retighten it after moving the camera to the desired angle. You can also rotate the camera by grasping the camera and turning it left or right.

When you are done adjusting the camera's angle, put the inner cover back into place.

**Note:** The camera has a limited range of motion. If it stops when you are adjusting it, do not attempt to rotate or tilt the camera any further in that direction.

**Step 6**
Reattach the camera cover.

If you need to waterproof your installation, please refer to "Waterproofing Your Installation" on page 16.
Using the DCS-37-1 Mount (optional)

To mount the camera with the DCS-37-1 mount, follow the instructions below.

**Step 1**
Place the DCS-37-1 mounting sticker in the desired location, then use a 6 mm drill bit to drill the required holes 25 mm deep and insert the wall anchors into the holes. If you plan to pass cables through the wall, you will also need to drill a hole for the cable channel.

**Step 2**
Use the provided screws to mount the DCS-37-1 to the wall.

**Step 3**
Remove the cover from the camera.

Pass the camera connectors through the back or bottom cable channel on the DCS-37-1. Use the provided screws to mount the camera to the DCS-37-1 using the set of mounting holes marked A.
Section 2: Installation

Step 4
Remove the inner cover and adjust the angle and rotation of the camera as desired, then put the inner cover back in place.

Step 5
Attach the camera cover.

If you are passing the camera cables through the wall, place the rubber stopper into the bottom cable channel to seal it.
Using the DCS-37-2 Mount (optional)

To mount the camera with the DCS-37-2 mount, follow the instructions below.

**Step 1**
Place the DCS-37-2 mounting sticker in the desired location, then use a 6 mm drill bit to drill the required holes 25 mm deep and insert the wall anchors into the holes. If you plan to pass cables through the wall, you will also need to drill a hole for the cable channel.

**Step 2**
Use the provided screws to mount the DCS-37-2 to the wall using the inner mounting holes.

**Step 3**
Remove the cover from the camera.

Pass the camera connectors through the back or side cable channel on the DCS-37-2. Use the provided screws to mount the camera to the DCS-37-2 using the set of mounting holes marked A.
Step 4
Remove the inner cover and adjust the angle and rotation of the camera as desired, then put the inner cover back in place.

Step 5
Attach the camera cover.

If you are passing the camera cables through the wall, place the rubber stopper into the bottom cable channel to seal it.
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.
Section 2: Installation

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-4602EV 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.
Section 2: Installation

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

Click **Next** to continue.

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

Using the Configuration Interface

After completing the Camera Installation Wizard, you are ready to use your camera. The camera’s built-in Web configuration utility is designed to allow you to easily access and configure your DCS-4602EV. 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.
Section 3: Configuration

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.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Motion Trigger Indicator" /></td>
<td>This indicator will change color when a trigger event occurs. <strong>Note:</strong> The video motion feature for your camera must be enabled.</td>
</tr>
<tr>
<td><img src="image" alt="Recording Indicator" /></td>
<td>When a recording is in progress, this indicator will change color.</td>
</tr>
<tr>
<td><img src="image" alt="Control Pad" /></td>
<td>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.</td>
</tr>
<tr>
<td><img src="image" alt="Auto Pan" /></td>
<td>Starts the automatic panning function. The ROI will pan from back and forth within the FOV.</td>
</tr>
<tr>
<td><img src="image" alt="Stop" /></td>
<td>Stops the camera ePTZ motion.</td>
</tr>
<tr>
<td><img src="image" alt="Preset Path" /></td>
<td>Starts the camera’s motion along the predefined path.</td>
</tr>
</tbody>
</table>
Section 3: Configuration

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

**Go To:** If any presets have been defined, you can select them here to move the (Preset List) camera to the selected preset.
Section 3: Configuration

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 31.

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 41.
Section 3: Configuration

Internet Connection Setup Wizard

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

Select how the camera will connect to the Internet.

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

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

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

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

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

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

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

Click **Apply** to save your settings.
Section 3: Configuration

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 41 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 4**
You have completed the Motion Detection Wizard.

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

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

Use this section to configure the network 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.
Section 3: Configuration

**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.
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-4602EV 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.
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.
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.
Section 3: Configuration

**Exposure Mode:** Changes the exposure mode. Use the drop-down box to set the camera for Indoor, Outdoor, or Night environments, or to Moving to capture moving objects. The Low Noise option will focus on creating a high-quality picture without noise. You can also create 3 different custom exposure modes. The Max Gain setting will allow you to control the maximum amount of gain to apply to brighten the picture.

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

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

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

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

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

**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.
You may configure up to 3 video profiles with different settings for your camera. Hence, you may set up different profiles for your computer and mobile display. After making any changes, click the **Save 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.
**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.
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.
**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.
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-4602EV 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.
Event Setup

In a typical application, when motion is detected, the DCS-4602EV 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.
Section 3: Configuration

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 37 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 moment the trigger is activated.
Section 3: Configuration

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 37 for more information on video profiles.

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

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

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

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

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

Create and schedule up to 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.
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.
Section 3: Configuration

**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).
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.
Section 3: Configuration

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-4602EV.

**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 SNMPv1, SNMPv2c:** Enable this option to allow 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.
Section 3: Configuration

**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.
Section 3: Configuration

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.
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-4602EV, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the **Browse** button. Select the file and click the **Upload** button to start upgrading the firmware.

- **Current Firmware Version**: Displays the detected firmware version.
- **Current Product Name**: Displays the camera model name.
- **File Path**: Locate the file (upgraded firmware) on your hard drive by clicking **Browse**.
- **Upload**: Uploads the new firmware to your camera.
Status
Device Info

This page displays detailed information about your device and network connection.
Logs

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

This page provides helpful information regarding camera operation.
## Technical Specifications

### Camera

<table>
<thead>
<tr>
<th>Profile</th>
<th>Camera Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware</td>
<td>- 1/3” 2 Megapixel progressive CMOS sensor</td>
</tr>
<tr>
<td></td>
<td>- 20 meter IR illumination distance</td>
</tr>
<tr>
<td></td>
<td>- Minimum illumination: 0 lux with IR LED on</td>
</tr>
<tr>
<td></td>
<td>- Built-in Infrared-Cut Removable (ICR) Filter module</td>
</tr>
<tr>
<td></td>
<td>- 10x digital zoom</td>
</tr>
<tr>
<td></td>
<td>- Minimum object distance 0.2M</td>
</tr>
<tr>
<td></td>
<td>- Focal length: 2.8 mm</td>
</tr>
<tr>
<td></td>
<td>- Aperture: F1.8</td>
</tr>
<tr>
<td></td>
<td>- Angle of view:</td>
</tr>
<tr>
<td></td>
<td>- (H) 96°</td>
</tr>
<tr>
<td></td>
<td>- (V) 54°</td>
</tr>
<tr>
<td></td>
<td>- (D) 108°</td>
</tr>
<tr>
<td></td>
<td>- Adjustment angle (non-motorized):</td>
</tr>
<tr>
<td></td>
<td>- Vertical: 60°</td>
</tr>
<tr>
<td></td>
<td>- Horizontal: 350°</td>
</tr>
<tr>
<td>Housing</td>
<td>- IP-66 compliant weatherproof housing</td>
</tr>
<tr>
<td></td>
<td>- IK10 vandal-proof housing</td>
</tr>
</tbody>
</table>

### Image Features

<table>
<thead>
<tr>
<th>Features</th>
<th>Configurable image size, quality, frame rate, and bit rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Time stamp and text overlays</td>
</tr>
<tr>
<td></td>
<td>Configurable motion detection windows</td>
</tr>
<tr>
<td></td>
<td>Configurable privacy mask zones</td>
</tr>
<tr>
<td></td>
<td>Configurable shutter speed, brightness, saturation, contrast, sharpness, WDR, and 3D filter</td>
</tr>
</tbody>
</table>

### Video Compression

<table>
<thead>
<tr>
<th>Compression</th>
<th>Simultaneous H.264/MJPEG format compression</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H.264/MJPEG multicast streaming</td>
</tr>
<tr>
<td></td>
<td>JPEG for still images</td>
</tr>
</tbody>
</table>

### Video Resolution

<table>
<thead>
<tr>
<th>Resolution</th>
<th>16:9 - 1920 x 1080, 1280 x 720, 800 x 448, 640 x 360, 480 x 272, 320 x 176 up to 30 fps</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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</td>
</tr>
</tbody>
</table>

### External Device Interface

<table>
<thead>
<tr>
<th>Interface</th>
<th>10/100 BASE-TX Fast Ethernet port</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Supports 802.3af PoE</td>
</tr>
</tbody>
</table>

### Network

<table>
<thead>
<tr>
<th>Protocols</th>
<th>IPv6</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>IPv4</td>
</tr>
<tr>
<td></td>
<td>ARP</td>
</tr>
<tr>
<td></td>
<td>TCP/IP</td>
</tr>
<tr>
<td></td>
<td>UDP</td>
</tr>
<tr>
<td></td>
<td>ICMP</td>
</tr>
<tr>
<td></td>
<td>DHCP client</td>
</tr>
<tr>
<td></td>
<td>NTP client (D-Link)</td>
</tr>
<tr>
<td></td>
<td>DNS client</td>
</tr>
<tr>
<td></td>
<td>DDNS client (D-Link)</td>
</tr>
<tr>
<td></td>
<td>SMTP client</td>
</tr>
<tr>
<td></td>
<td>FTP client</td>
</tr>
<tr>
<td></td>
<td>HTTP/HTTPS</td>
</tr>
<tr>
<td></td>
<td>Samba client</td>
</tr>
<tr>
<td></td>
<td>PPPoE</td>
</tr>
<tr>
<td></td>
<td>UPnP port forwarding</td>
</tr>
<tr>
<td></td>
<td>RTP/RTSP/RTCP</td>
</tr>
<tr>
<td></td>
<td>IP filtering</td>
</tr>
<tr>
<td></td>
<td>Multicast</td>
</tr>
<tr>
<td></td>
<td>CoS</td>
</tr>
<tr>
<td></td>
<td>QoS/DSCP</td>
</tr>
<tr>
<td></td>
<td>SNMP</td>
</tr>
<tr>
<td></td>
<td>ONVIF compliant</td>
</tr>
</tbody>
</table>

### Security

<table>
<thead>
<tr>
<th>Administrator and user group protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Password authentication</td>
</tr>
<tr>
<td>HTTP and RTSP authentication</td>
</tr>
</tbody>
</table>
## System Management

### System Requirements for Web Interface
- Browser: Internet Explorer, Firefox, Safari

### Event Management
- Motion detection
- Event notification and uploading of snapshots/video clips via e-mail or FTP
- Supports multiple SMTP and FTP servers
- Multiple event notifications
- Multiple recording methods for easy backup

### Remote Management
- Take snapshots/video clips and save to local hard drive
- Configuration interface accessible via web browser

### D-ViewCam™ System Requirements
- Operating System: Microsoft Windows 8/7/Vista
- Web Browser: Internet Explorer 7 or higher
- Protocol: Standard TCP/IP

### D-ViewCam™ Software Functions
- Remote management/control of up to 32 cameras
- Viewing of up to 32 cameras on one screen
- Supports all management functions provided in web interface
- Scheduled motion triggered, or manual recording options

## General

### Weight
525 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
5.5 watts ± 5%

### 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
Appendix A: Technical Specifications

Dimensions

45
78.7
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.
Appendix B: Regulatory Information

• 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.
Appendix B: Regulatory Information

### 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 be 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.

**DEUTSCH**


### 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

**DEUTSCH**


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


FRANÇAIS FR

Ce symbole apposé sur le produit ou son emballage signifie que, conformément aux lois et règlementations 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 CO2.


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 CO2.
Para obtener más información acerca de nuestros productos y embalajes ecológicos, visite el sitio 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

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.
Appendix B: Regulatory Information

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.

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.

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."
ČESKY

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 dosloží, 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 CO2."

Více informací o našich ekologických výrobcích a obalech najdete na adrese www.dlinkgreen.com.

MAGYAR

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 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.

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.

"For mer informasjon angående våre miljøansvarlige produkter og forpakninger kan du gå til 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 indsamplingssted 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.
Du kan finde flere oplysninger om vores miljømæssigt ansvarlige produkter og emballage på www.dlinkgreen.com
Tämä symboli tuotteen pakauksessa tarkoittaa, että paikallisten lakien ja säännösten mukaisesti täätä tuotetta ei pidä hävittää yleisen kotitalousjätteen seassa vaan se tulee toimittaa kierrätettäväksi. Kun tuote on elinkaarensa päässä, toimita se lähimpään viranomaisten hyväksymään kierrätyspisteen. Kierrättämällä käytetyn tuotteen ja sen pakauksen autat tukea 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 pakauksissa.

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 ympäristöystävällistä D-Link-tuotteista ja pakkauksistamme osoitteesta www.dlinkgreen.com
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 encontrarão em utilização. Com esta acção ajudará a poupar energia e reduzir as emissões de CO2.
Para saber mais sobre os nossos produtos e embalagens responsáveis a nível ambiental visite www.dlinkgreen.com