

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-6010L. At the end of the wizard, click **Go To Camera**, or enter the IP address of your camera into a web browser, such as Mozilla Firefox. To log in, use the User name **admin** and the password you created in the Installation Wizard. If you did not create a password, the default password is blank. After entering your password, click **OK**.









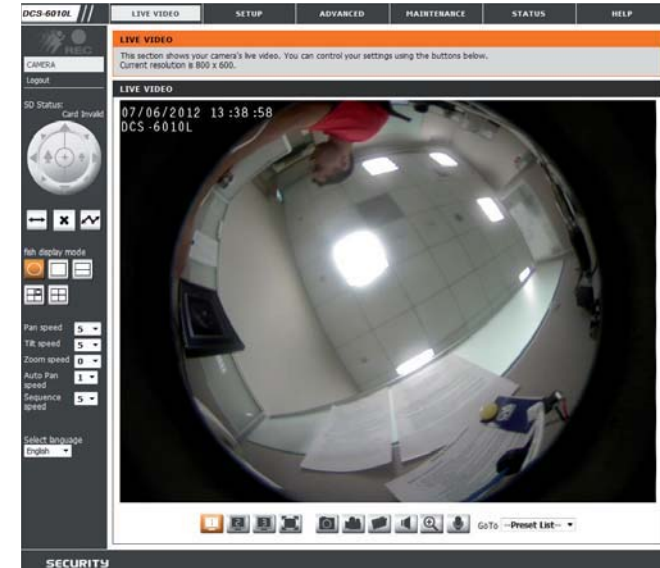
Live Video







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

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

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

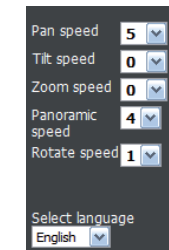
	Motion Trigger Indicator	This indicator will change color when a trigger event occurs. Note: The video motion feature for your camera must be enabled.
	Recording Indicator	When a recording is in progress, this indicator will change color.
	Control Pad	This control pad can be used to electronically pan, tilt, and zoom (ePTZ) within the camera's predefined view area, if one has been defined.
	Auto Pan	Click this button to start the automated circular rotation through a regional view (360* continuous rotation). Note: This function does not apply in a Panoramic view because a panoramic view already shows the full coverage.
	Stop	Click this button to stop the Auto Pano and Auto Rotate functions.
	Preset Path	Once you have determined a list of preset PTZ positions, click this button to consecutively display views of these positions. The DCS-6010L will display these views continuously. For more information please refer to "Preset" on page 53












	<h3>Display Mode</h3>	<p>Here, you can select between the different display modes:</p> <ul style="list-style-type: none">  Fisheye Mode: shows the full camera view  Normal Mode: shows a corrected view similar to a standard camera view that you can move using the control pad.  Panoramic Mode: This shows a corrected, full 180 view across 2 video panels.  Multi-View with Fisheye: This shows a multiple window view, with a full Fisheye view in the top-right panel.  Multi-View: This shows a multiple window view.
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Pan/Tilt/Zoom/ Panoramic/ Rotate Speed: You can set the speed of pan/tilt/zoom/panoramic/rotate movement by using the dropdown menus.



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

- | | |
|--|--|
|  Video Profile 1 |  Record a Video Clip |
|  Video Profile 2 |  Set a Storage Folder |
|  Video Profile 3 |  Listen/Stop Audio In (from microphone) |
|  Full screen mode |  Start/Stop Audio Out (to speaker) |
|  Take a Snapshot | |

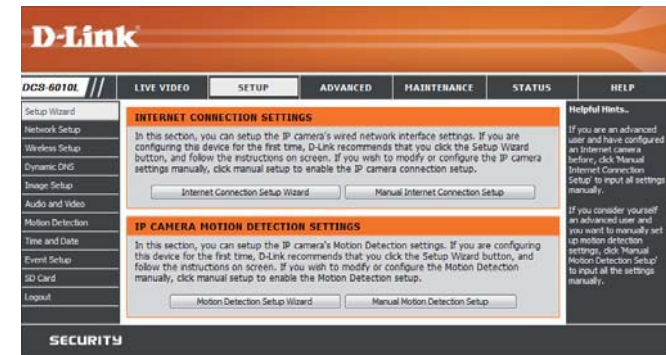
Go To: If any presets have been defined, selecting a preset from this list will **(Preset List)** display it.



Setup Setup Wizard

To configure your Network Camera, click **Internet Connection Setup Wizard**. Alternatively, you may click **Manual Internet Connection Setup** to manually configure your Network Camera and skip to "Network Setup" on page 44.

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 55.



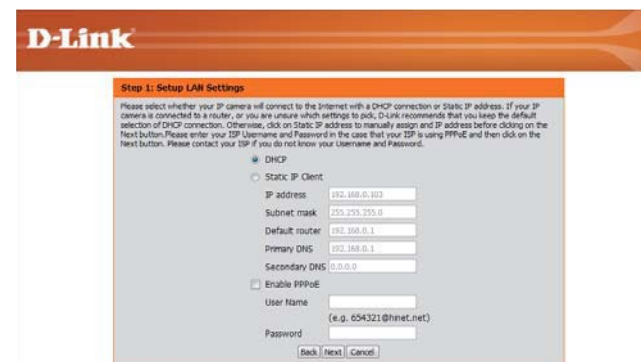
Internet Connection Setup Wizard

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



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

Click **Next** to continue.

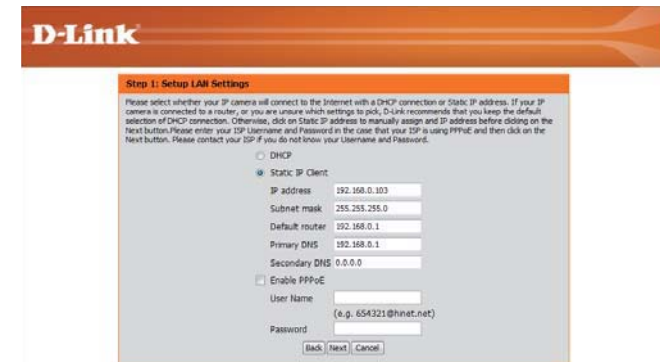


Select **Static IP** if your Internet Service Provider has provided you with connection settings, or if you wish to set a static address within your home network. Enter the correct configuration information and click **Next** to continue.

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

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

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



The screenshot shows the 'Step 1: Setup LAN Settings' screen. It features a D-Link logo at the top. Below the title, there is a paragraph of instructions. The main area contains several radio buttons and text input fields. The 'Static IP Client' option is selected. The fields are filled with: IP address: 192.168.0.103, Subnet mask: 255.255.255.0, Default router: 192.168.0.1, Primary DNS: 192.168.0.1, and Secondary DNS: 0.0.0.0. There are also checkboxes for 'Enable PPPoE' (unchecked) and 'Enable DDNS' (unchecked). Below these are fields for 'User Name' (containing '654321@hinet.net') and 'Password'. At the bottom right, there are 'Back', 'Next', and 'Cancel' buttons.

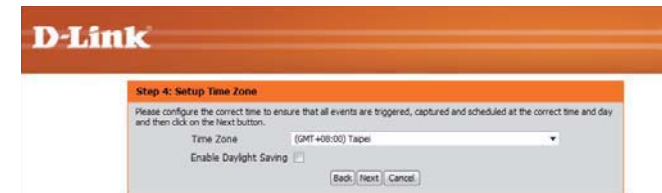


The screenshot shows the 'Step 2: Setup DDNS Settings' screen. It features a D-Link logo at the top. Below the title, there is a paragraph of instructions. The main area contains a checkbox for 'Enable DDNS' which is checked. Below it is a 'Server Address' dropdown menu showing 'www.dlinkddns.com'. There are also text input fields for 'Host Name', 'User Name', 'Password', and 'Verify Password'. A 'Timeout' field is set to '24' with '(hours)' next to it. At the bottom right, there are 'Back', 'Next', and 'Cancel' buttons.



The screenshot shows the 'Step 3: IP camera Name Settings' screen. It features a D-Link logo at the top. Below the title, there is a paragraph of instructions. The main area contains a text input field for 'IP camera Name' which contains 'DCS-6010L'. At the bottom right, there are 'Back', 'Next', and 'Cancel' buttons.

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



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



The settings will be saved to the DCS-6010L and the camera will restart.



Motion Detection Setup Wizard

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

Click **Next** to continue.

Step 1

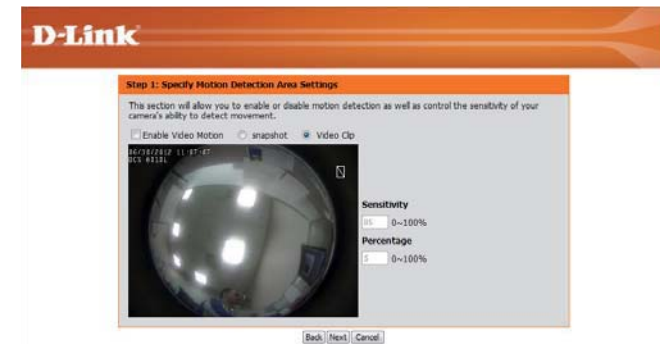
This step will allow you to enable or disable motion detection, specify the detection sensitivity, and adjust the camera's ability to detect movement.

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

Please see the **Motion Detection** section on "Motion Detection" on page 55 for information about how to configure motion detection.

Step 2

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



Step 3

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

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

Click **Next** to continue.

The screenshot shows the 'Step 3: Alerts and Notification' configuration screen. It features a D-Link logo at the top. Below the title, there is a paragraph of instructions. Two radio buttons are present: 'Do not notify me' (unselected) and 'Email' (selected). Under the 'Email' section, there are input fields for 'Sender email address', 'Recipient email address', 'Server address', 'User name', 'Password', and 'Port' (with '25' entered). Under the 'FTP' section, there are input fields for 'Server address', 'Port' (with '21' entered), 'User name', 'Password', and 'Remote folder name'. At the bottom right, there are 'Back', 'Next', and 'Cancel' buttons.

Step 4

You have completed the Motion Detection Wizard.

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

The screenshot shows the 'Step 4: Setup Complete' configuration screen. It features a D-Link logo at the top. Below the title, there is a paragraph of instructions. A summary of settings is displayed: 'Motion Detection : Enable', 'EVENT : Video Clip', 'Schedule Day : Sun ,Mon ,Tue ,Wed ,Thu ,Fri ,Sat ,', 'Schedule Time : Always', and 'Alerts and Notification : Email'. At the bottom right, there are 'Back', 'Apply', and 'Cancel' buttons.

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

The screenshot shows the 'Step 4: Setup Complete' configuration screen, identical to the previous one, but with a red message at the bottom: 'Changes saved, IP camera's network is restarting, please wait for 6 seconds ...'. At the bottom right, there are 'Back', 'Apply', and 'Cancel' buttons.

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.

The screenshot displays the 'NETWORK SETUP' page for a D-Link DCS-6010L camera. The page is organized into several sections:

- NETWORK SETUP:** A header section with a 'Save Settings' button and a 'Don't Save Settings' button.
- LAN SETTINGS:** Contains radio buttons for 'DHCP' (selected) and 'Static IP Client'. Below are input fields for IP address (192.168.0.103), Subnet mask (255.255.255.0), Default router (192.168.0.1), Primary DNS (192.168.0.1), and Secondary DNS (0.0.0.0). There are also checkboxes for 'Enable UPnP presentation' and 'Enable UPnP port forwarding', with a 'Forwarding Port' field set to 1024 and 'Forwarding Status' set to 'UPnP forwarding is inactive'.
- PPPoE SETTINGS:** Includes radio buttons for 'Enable' and 'Disable', and input fields for 'User Name', 'Password', and 'Confirm password'. The 'PPPoE Status' is 'PPPoE is inactive'.
- HTTP:** Features an 'HTTP port' field set to 80 and three 'Access name for stream' fields (stream1: video1.mjpg, stream2: video2.mjpg, stream3: video3.mjpg).
- HTTPS:** Has an 'HTTPS port' field set to 443.
- RTSP:** Includes an 'Authentication' dropdown set to 'Disable', an 'RTSP port' field set to 554, and three 'Access name for stream' fields (stream1: live1.asp, stream2: live2.asp, stream3: live3.asp).
- CoS SETTINGS:** Has a checkbox for 'Enable CoS' and a 'VLAN ID' field set to 1. Below are dropdown menus for 'Live video', 'Live audio', 'Event/Alarm', and 'Management', all set to 0.
- QoS SETTINGS:** Has a checkbox for 'Enable QoS' and dropdown menus for 'Live video', 'Live audio', 'Event/Alarm', and 'Management', all set to 0.
- IPv6:** Has a checkbox for 'Enable IPv6'.

On the right side, there is a 'Helpful Hints...' section with text explaining DHCP, UPnP, PPPoE, HTTP, HTTPS, RTSP, CoS, and QoS.

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

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

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

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

HTTP Port: The default port number is 80.

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

HTTPS Port: You may use a PC with a secure browser to connect to the HTTPS port of the camera. The default port number is 443.

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

LAN SETTINGS	
<input checked="" type="radio"/> DHCP	
<input type="radio"/> Static IP Client	
IP address	<input type="text" value="192.168.0.103"/>
Subnet mask	<input type="text" value="255.255.255.0"/>
Default router	<input type="text" value="192.168.0.1"/>
Primary DNS	<input type="text" value="192.168.0.1"/>
Secondary DNS	<input type="text" value="0.0.0.0"/>
<input checked="" type="checkbox"/> Enable UPnP presentation	
<input type="checkbox"/> Enable UPnP port forwarding	
Forwarding Port	<input type="text" value="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	<input type="text" value="80"/>
Access name for stream1	<input type="text" value="video1.mjpg"/>
Access name for stream2	<input type="text" value="video2.mjpg"/>
Access name for stream3	<input type="text" value="video3.mjpg"/>

HTTPS	
HTTPS port	<input type="text" value="443"/>

RTSP	
Authentication	Disable ▾
RTSP port	<input type="text" value="554"/>
Access name for stream1	<input type="text" value="live1.sdp"/>
Access name for stream2	<input type="text" value="live2.sdp"/>
Access name for stream3	<input type="text" value="live3.sdp"/>

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

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

Enable IPV6: Enable the IPV6 setting to use the IPV6 protocol. Enabling the option allows you to manually set up the address, specify an optional IP address, specify an optional router and an optional primary DNS.

Enable Multicast for stream The DCS-6010L allows you to multicast each of the available streams via group address and specify the TTL value for each stream. Enter the port and TTL settings you wish to use if you do not want to use the defaults.

COS SETTINGS

Enable CoS
 VLAN ID [0~4095]
 Live video
 Live audio
 Event/Alarm
 Management

QOS SETTINGS

Enable QoS
 Live video
 Live audio
 Event/Alarm
 Management

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
 Multicast video port
 Multicast RTCP video port
 Multicast audio port
 Multicast RTCP audio port
 Multicast TTL [1~255]
 Enable multicast for stream 2
 Multicast group address
 Multicast video port
 Multicast RTCP video port
 Multicast audio port
 Multicast RTCP audio port
 Multicast TTL [1~255]
 Enable multicast for stream 3
 Multicast group address
 Multicast video port
 Multicast RTCP video port
 Multicast audio port
 Multicast RTCP audio port
 Multicast TTL [1~255]

Wireless Setup

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

Site Survey: Click the **Rescan** button to scan for available wireless networks. After scanning, you can use the drop-down box to select an available wireless network. The related information (SSID, Wireless Mode, Channel, Authentication, Encryption) will be automatically filled in for you.

SSID: Enter the SSID of the wireless access point you wish to use.

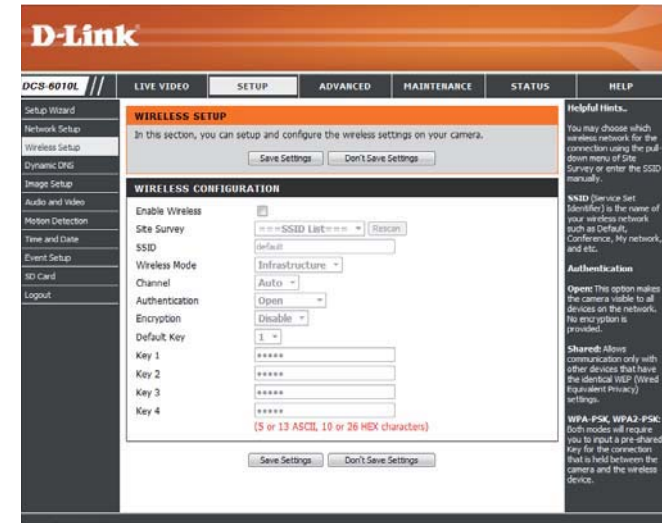
Wireless Mode: Use the drop-down box to select the mode of the wireless network you wish to connect to. Infrastructure is normally used to connect to an access point or router. Ad-Hoc is usually used to connect directly to another computer.

Channel: If you are using Ad Hoc mode, select the channel of the wireless network you wish to connect to, or select Auto.

Authentication: Select the authentication you use on your wireless network - Open, Shared, WPA-PSK, or WPA2-PSK.

Encryption: If you use WPA-PSK or WPA2-PSK authentication, you will need to specify whether your wireless network uses TKIP or AES encryption. If you use Open or Shared authentication, WEP encryption should be the setting.

Key: If you use WEP, WPA-PSK, or WPA2-PSK authentication, enter the Key (also known as password) used for your wireless network.



Dynamic DNS

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

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

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

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

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

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

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

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

The screenshot shows the D-Link web interface for configuring Dynamic DNS. The main heading is 'DYNAMIC DNS'. Below it, there is a descriptive paragraph and a link to sign up for D-Link's Free DDNS service. The 'DYNAMIC DNS SETTING' section contains the following fields:

- Enable DDNS:** A checkbox that is currently checked.
- Server Address:** A text input field containing 'www.dlinkdns.com' and a dropdown menu showing '<<' and 'www.dlinkdns.com'.
- Host Name:** An empty text input field.
- User Name:** An empty text input field.
- Password:** An empty text input field.
- Verify Password:** An empty text input field.
- Timeout:** A text input field containing '24' followed by '(hours)'.
- Status:** A dropdown menu set to 'Inactive'.

At the bottom of the settings section, there are two buttons: 'Save Settings' and 'Don't Save Settings'.

Image Setup

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

Mirror: This will mirror the image horizontally.

Flip: This will flip the image vertically. When turning Flip on, you may want to consider turning Mirror on as well.

Power Line: Select the frequency used by your power lines to avoid interference or distortion.

White Balance: Use the drop-down box to change white balance settings to help balance colors for different environments. You can choose from Auto, Outdoor, Indoor, Fluorescent, and Push Hold.

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

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.

The screenshot shows the D-Link DCS-6010L web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' tab is active, and the 'IMAGE SETUP' sub-tab is selected. The main content area is divided into three sections:

- IMAGE SETUP:** A message states 'Changes to your IP camera settings are made immediately.'
- LIVE VIDEO:** A live video preview showing a fisheye camera view of an indoor space.
- IMAGE SETTINGS:** A list of settings with radio buttons and dropdown menus:
 - Mirror: On Off
 - Flip: On Off
 - Power Line: 60 Hz 50 Hz
 - White Balance:
 - Brightness:
 - Contrast:
 - Saturation:
 - Sharpness:
 - Mount type:

A 'Reset Default' button is located at the bottom of the settings section. On the right side, a 'Helpful Hints...' sidebar provides detailed explanations for each setting, such as 'Mirror: This function horizontally reverses your images 180 degrees.' and '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.'

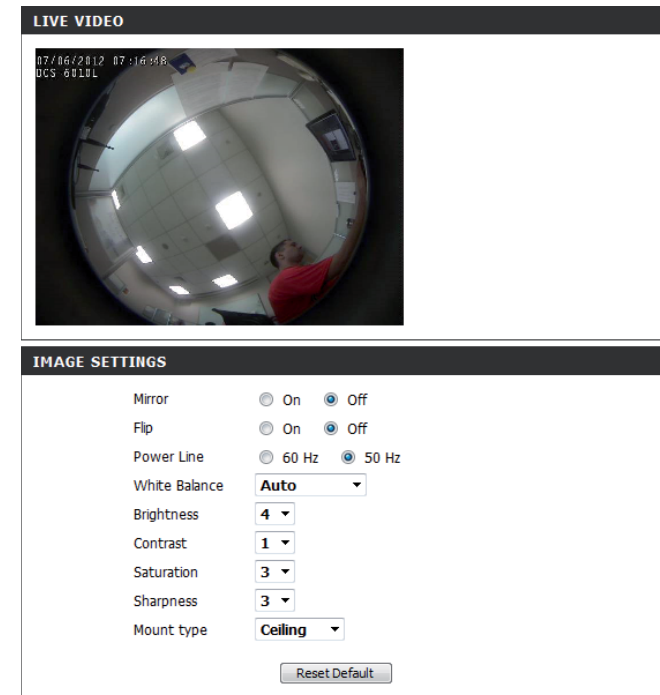
Contrast: Adjust this setting to alter the color intensity/strength.

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

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

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

Mounting: Select the correct mounting type from either **Ceiling**, **Wall**, or **Desktop** to ensure the PTZ controls respond accurately.



The screenshot displays the configuration interface for the D-Link DCS-6010L camera. It is divided into two main sections: 'LIVE VIDEO' and 'IMAGE SETTINGS'.

LIVE VIDEO: This section shows a live video feed of a room. The video is timestamped '07/06/2012 07:16:48' and the camera ID is 'DCS_6010L'. The video shows a person in a red shirt sitting at a desk in a room with a tiled ceiling and fluorescent lights.

IMAGE SETTINGS: This section contains various configuration options:

- Mirror:** Radio buttons for On and Off. The 'Off' option is selected.
- Flip:** Radio buttons for On and Off. The 'Off' option is selected.
- Power Line:** Radio buttons for 60 Hz and 50 Hz. The '50 Hz' option is selected.
- White Balance:** A dropdown menu set to 'Auto'.
- Brightness:** A dropdown menu set to '4'.
- Contrast:** A dropdown menu set to '1'.
- Saturation:** A dropdown menu set to '3'.
- Sharpness:** A dropdown menu set to '3'.
- Mount type:** A dropdown menu set to 'Ceiling'.

At the bottom of the 'IMAGE SETTINGS' section, there is a 'Reset Default' button.

Audio and Video

You may configure up to 3 video profiles with different settings for your camera. Hence, you may set up different profiles for your computer and mobile display. In addition, you may also configure the two-way audio settings for your camera. After making any changes, click the **Save Settings** button to save your changes.

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

Frame size / View window area: 1600 x 1200, 1200 x 900, 800 x 600, 400 x 300

Maximum frame rate: A higher frame rate provides smoother motion for videos, and requires more bandwidth. Lower frame rates will result in stuttering motion, and requires less bandwidth.

Video Quality: This limits the maximum frame rate, which can be combined with the "Fixed quality" option to optimize the bandwidth utilization and video quality. If fixed bandwidth utilization is desired regardless of the video quality, choose "Constant bit rate" and select the desired bandwidth.

Constant bit rate: The bps will affect the bit rate of the video recorded by the camera. Higher bit rates result in higher video quality.

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

Encoding Choose between G.726 or G.711

The screenshot shows the D-Link DCS-6010L web interface for configuring audio and video settings. The main content area is titled "AUDIO AND VIDEO" and contains three video profiles and audio settings.

- VIDEO PROFILE 1:** Mode: H.264, Frame size: 1600x1200, Maximum frame rate: 15, Video quality: Excellent (Fixed quality selected).
- VIDEO PROFILE 2:** Mode: JPEG, Frame size: 400x300, Maximum frame rate: 25, Video quality: Excellent.
- VIDEO PROFILE 3:** Mode: H.264, Frame size: 400x300, Maximum frame rate: 25, Video quality: Excellent (Fixed quality selected).
- AUDIO SETTINGS:** Encoding: G.726, Audio in: off, Audio in gain level: 20dB, Audio out volume level: 10.

The "Helpful Hints" sidebar on the right provides 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 64 kbps.**
- Mode:** It can be H.264, JPEG, or MPEG4. In JPEG mode, the video frames are independent; MPEG4 contains much less network bandwidth than JPEG, and H.264 can use less bandwidth but better image quality.
- Frame Size:** 4 options exist for the sizes of the video display. It is recommended using 400x300 for mobile viewing and 1600x1200 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 limits 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.
- Audio Settings:** You can use the option to switch the external microphone on/off or adjust the volume.

Audio in off: Selecting this checkbox will mute incoming audio.

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

Audio out off: Selecting this checkbox will mute outgoing audio.

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

AUDIO AND VIDEO

This section allows you to configure the sound and video of your camera. You can configure different settings depending on whether you are viewing content from a PC or a Mobile Phone / PDA.

VIDEO PROFILE 1

Mode:

Frame size:

Maximum frame rate:

Video quality:

Constant bit rate:

Fixed quality:

VIDEO PROFILE 2

Mode:

Frame size:

Maximum frame rate:

Video quality:

VIDEO PROFILE 3

Mode:

Frame size:

Maximum frame rate:

Video quality:

Constant bit rate:

Fixed quality:

AUDIO SETTINGS

Encoding:

Audio in off

Audio in gain level:

Audio out off

Audio out volume level:

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.

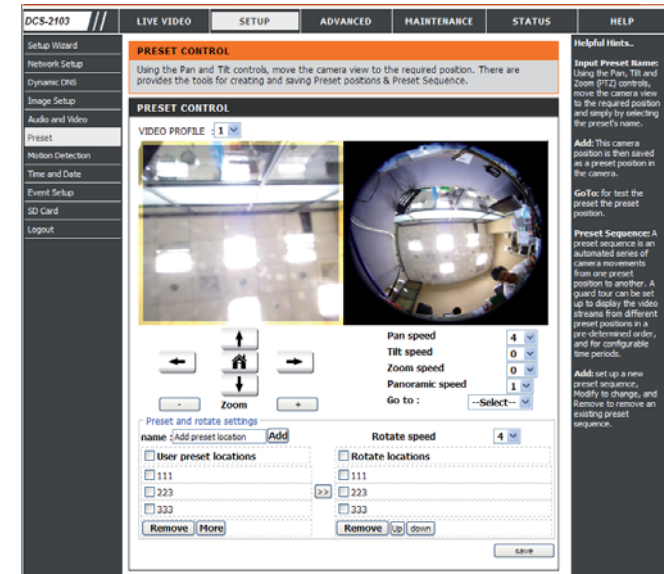
Video Profile: This selects which video profile to use.

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.

The screenshot displays a configuration window for camera settings. At the top, there are navigation buttons: left, home, right, up, and down. Below these are zoom controls: a minus sign, a 'Zoom' label with a house icon, and a plus sign. To the right, there are dropdown menus for 'Pan speed' (4), 'Tilt speed' (0), 'Zoom speed' (0), and 'Panoramic speed' (1), along with a 'Go to' dropdown set to '--Select--'. The main section is titled 'Preset and rotate settings'. It includes a 'name' field with 'Add preset location' and an 'Add' button. Below this are two columns of checkboxes: 'User preset locations' and 'Rotate locations'. Each column contains three entries: '111', '223', and '333'. A '>>' button is positioned between the two columns. At the bottom of each column are 'Remove', 'Up', and 'down' buttons. A 'save' button is located at the bottom right of the window.

Motion Detection

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

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

Sensitivity: Specifies the measurable difference between two sequential images that would indicate motion. Please enter a value between 0 and 100.

Percentage: Specifies the amount of motion in the window being monitored that is required to initiate an alert. If this is set to 100%, motion is detected within the whole window will trigger a snapshot.

Draw Motion Area: Draw the motion detection area by dragging your mouse in the window (indicated by the red square).

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

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

Select All: Draws a motion detection area over the entire screen.

Clear All: Clears any motion detection areas that have been drawn.

Restore: Restores the previously specified motion detection areas.



Time and Date

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

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

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

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

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

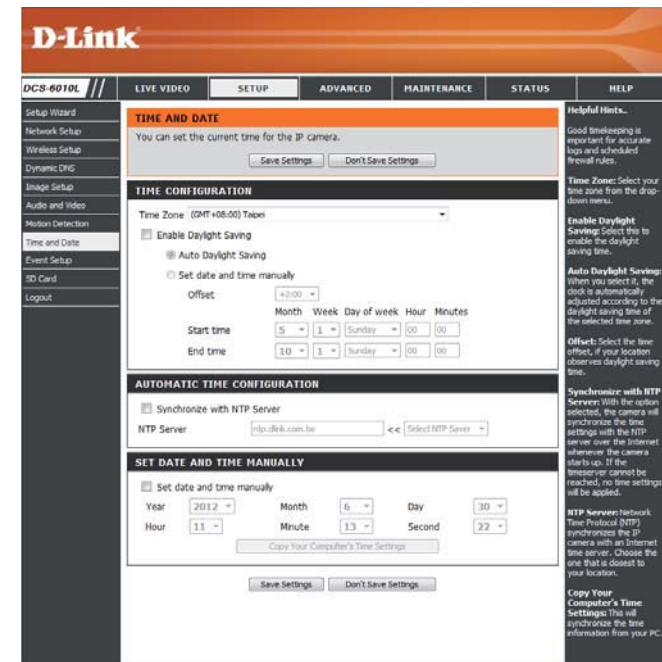
Offset: Sets the amount of time to be added or removed when Daylight Saving is enabled.

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

NTP Server: Network Time Protocol (NTP) synchronizes the DCS-6010L with an Internet time server. Choose the one that is closest to your location.

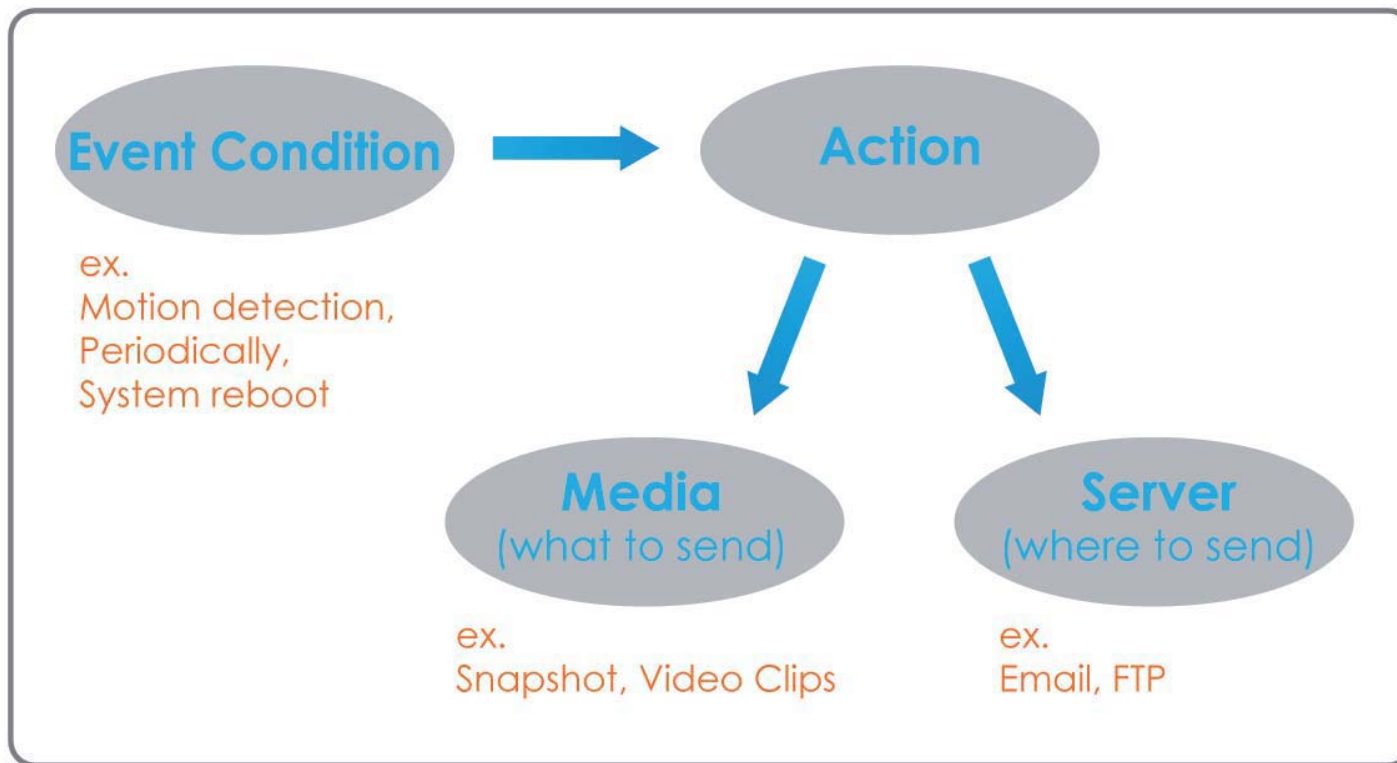
Set the Date and Time Manually: This option allows you to set the time and date manually.

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-6010L sends images to a FTP server or via e-mail as notifications. As shown in the illustration below, an event can be triggered by many sources, such as motion detection. When an event is triggered, a specified action will be performed. You can configure the Network Camera to send snapshots or videos to your e-mail address or FTP site.



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

The Event Setup page includes 4 different sections.

- Event
- Server
- Media
- Recording

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

D-Link

DCS-6010L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

EVENT SETUP

There are four sections in Event Setup page. They are event, server, media and recording. Click Add to pop a window to add a new item of event, server, media or recording. Click Delete to delete the selected item from event, server, media or recording. Click on the item name to pop a window to edit it. There can be at most 3 events and 2 recording. There can be at most 5 server and 5 media configurations.

SERVER

Name	Type	Address/Location
Server1	Email	mail@dlink.com

Add Server 1 Delete

MEDIA

Media freespace: 6700KB

Name	Type	Source
Media1	Video clip	Profile 1

Add Media1 Delete

EVENT

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Trigger
Event1	ON	V	V	V	V	V	V	V	00:00-23:59	Motion

Add Event1 Delete

RECORDING

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Source	Destination

Add Delete

SECURITY

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Helpful Hints...

Suggest setting server and media first before setting event. The servers and media which selected in event list are not be able to modify or delete. Please remove them first from the event if you want to delete or modify them. Recommend using different media in different event to make use all media be produced and received correctly. If using the same media in different events and the events trigger almost simultaneously, the servers in the second triggered event will not receive any media; there would be only notifications.

Add Server

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

Server Name: Enter the unique name of your server.

E-mail: Enter the configuration for the target e-mail server account.

FTP: Enter the configuration for the target FTP server account.

Network Storage: Specify a network storage device. Only one network storage device is supported.

SD Card: Use the camera's onboard SD card storage.

SERVER

You can set at most 5 different servers here for different event.

SERVER TYPE

Server Name:

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

Passive mode

Network storage

Network storage location
(for example: \\my_nas\disk\folder)

Workgroup

User name

Password

Primary WINS server

SD Card

Add Media

There are three types of media, **Snapshot**, **Video Clip**, and **System Log**. After making any changes, click the **Save Settings** button to save your changes.

Media Name: Enter a unique name for media type you want to create.

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

Source: Set the video profile to use as the media source. Refer to **Audio and Video** on "Audio and Video" on page 51 for more information on video profiles.

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

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

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

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

MEDIA

You can set at most 5 different media here for different event.

MEDIA TYPE

Media name:

Snapshot

Source: ▼

Send pre-event image(s) [0~4]

Send 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) [0~4]

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

Maximum file size: Kbytes [100~5000]

File Name Prefix:

System log

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

Source: Set the video profile to use as the media source. Refer to "Audio and Video" on page 46 for more information on video profiles.

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

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

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

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

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

The screenshot shows the 'MEDIA' configuration page. At the top, it says 'You can set at most 5 different media here for different event.' Below this are two buttons: 'Save Settings' and 'Don't Save Settings'. The main section is titled 'MEDIA TYPE' and contains three radio button options: 'Snapshot', 'Video Clip', and 'System log'. The 'Snapshot' option is selected. Under 'Snapshot', there is a 'Media name' text field, a 'Source' dropdown menu set to 'Profile 1', a 'Send' field with '1' and 'pre-event image(s) [0~4]', another 'Send' field with '1' and 'post-event image(s) [0~7]', a 'File Name Prefix' text field, and a checkbox for 'Add date and time suffix to file name'. The 'Video Clip' option is also visible with its own 'Source' dropdown, 'Pre-event recording' field (0~4 seconds), 'Maximum duration' field (1~100 seconds), 'Maximum file size' field (100~5000 kbytes), and 'File Name Prefix' text field. The 'System log' option is at the bottom. At the bottom of the form are two buttons: 'Save Settings' and 'Don't Save Settings'.

Add Event

Create and schedule up to 2 events with their own settings here. After making any changes, click the **Save Settings** button to save your changes.

Event name: Enter a name for the event.

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

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

Delay: Select the delay time before checking the next event. It is used for motion detection events.

Trigger: Specify the input type that triggers the event.

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

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

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

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

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

Time: Select **Always** or enter the time interval.

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

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.

EVENT

Event name:

Enable this event

Priority: normal

Delay for seconds before detecting next event [For motion detection and digital input and Passive Infrared sensor]

TRIGGER

Video motion detection

Periodic
Trigger every minutes

Digital input

System boot

Network lost

Passive Infrared sensor

EVENT SCHEDULE

Sun Mon Tue Wed Thu Fri Sat

Time

Always

From 00 00 To 23 59

ACTION

Trigger D/O for seconds

Server1
Attached media: Media1

Add Recording

Here you can configure and schedule the recording settings. After making any changes, click the **Save Settings** button to save your changes.

Recording entry name: The unique name of the entry.

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

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

Source: The source of the stream.

Recording schedule: Scheduling the recording entry.

Recording settings: Configuring the setting for the recording.

Destination: Select the folder where the recording file will be stored.

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

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

The screenshot shows the D-Link DCS-6010L web interface. The main content area is titled "RECORDING" and contains three sections: "RECORDING", "RECORDING SCHEDULE", and "RECORDING SETTINGS".

- RECORDING Section:** Includes an "Enable this recording" checkbox, a "Priority" dropdown menu set to "normal", and a "Source" dropdown menu set to "Profile 1".
- RECORDING SCHEDULE Section:** Includes checkboxes for days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) and a "Time" section with "Always" selected and a time range from 00:00 to 23:59.
- RECORDING SETTINGS Section:** Includes a "Destination" dropdown menu set to "None", a "Total cycling recording size" of 3000 Mbytes, a "Size of each file for recording" of 10 Mbytes, and a "Time of each file for recording" of 10 seconds. The "File Name Prefix" field is empty.

There are "Save Settings" and "Don't Save Settings" buttons at the bottom of each section. A sidebar on the right contains "Helpful Hints" and "Total cycling recording size" information.

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).

The screenshot displays the D-Link DCS-6010L web interface. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'SETUP' menu is expanded, showing options like Setup Wizard, Network Setup, Wireless Setup, Dynamic DNS, Image Setup, Audio and Video, Motion Detection, Time and Date, Event Setup, SD Card, and Logout. The main content area is titled 'RECORDING' and contains the following sections:

- RECORDING:** A section with a 'Save Settings' button and a 'Don't Save Settings' button. It includes a text input for 'Recording entry name' and a checkbox for 'Enable this recording'. Below this are dropdown menus for 'Priority: normal' and 'Source: Profile 1'.
- RECORDING SCHEDULE:** A section with checkboxes for days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) and a 'Time' section. The 'Time' section has radio buttons for 'Always' and 'From 00:00 To 23:59'.
- RECORDING SETTINGS:** A section with a 'Destination' dropdown set to 'None', a 'Total cycling recording size' of 1000 Mbytes, a 'Size of each file for recording' of 10 Mbytes, and a 'Time of each file for recording' of 10 seconds. It also has a 'File Name Prefix' text input and 'Save Settings' and 'Don't Save Settings' buttons.

On the right side, there is a 'Helpful Hints...' section with the following text:

- Recording:** Enable this option if you want to define the recording to a shared folder on the network.
- Recording schedule:** Select the day(s) according to when you want the IP camera to make a video clip.
- Always:** This enables the IP camera to make video clips continuously.
- From:** The time range specified for the video clip.
- Total cycling recording size:** Please input the network path of your network storage, it will be: "192.168.1.100:8080/". If the network storage need authentication, please enter your user name and password here.
- Note:** Please Format SD card before use. The entire data in the SD card will be erased after formatting.

SD Card

Here you may browse and manage the recorded files which are stored on the SD card.

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

View Recorded Picture: If the picture files are stored on the SD card, click on the picture folder and choose the picture file you would like to view.

Playback Recorded Video: If video files are stored on the SD card, click on the video folder and choose the video file you would like to view.

Refresh: Reloads the file and folder information from the SD card.

D-Link

DCS-6010L // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

SD CARD
Here you could browse and manage the record files which stored in SD card.

SD Card: / SD Status: Ready
Files per Page: 10 Refresh 1 of 1

Delete	File	Num of files	Size
<input type="checkbox"/>	Video	3	
<input type="checkbox"/>	Picture	1	

Total:1976528KB, Used:1976528KB, Free:0KB

Format SD Card OK

Helpful Hints...

Format SD Card: Click this icon, system will automatically format SD card and create "Picture" & "Video" folders.

View recorded pictures: If SD stored recorded picture files, enter picture link and choose which picture file you desire to view. You will view picture via image viewer SW. (e. Windows Image Viewer)

Playback recorded videos: If SD stored recorded video files, enter video link and choose which video file you desire to playback. Windows will guide you to open/download video file (AVI format) so that you can playback file via video decoder SW. (e. Windows Media Player)

Advanced HTTPS

This page allows you to install and activate an HTTPS certificate for secure access to your camera. After making any changes, click the **Save Settings** button to save your changes.

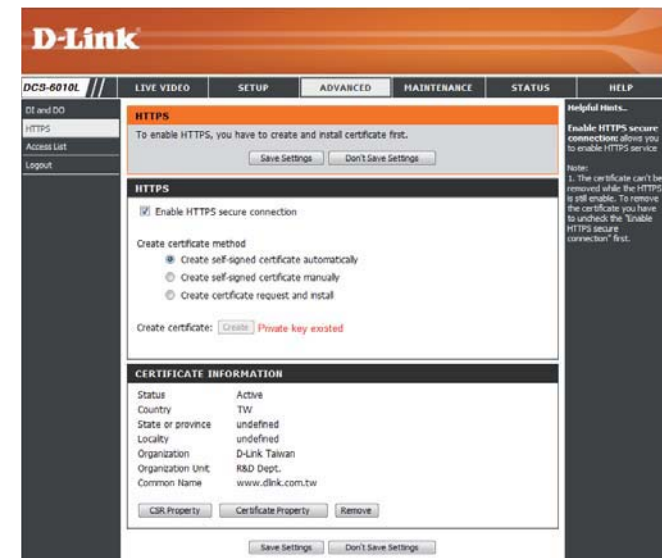
Enable HTTPS Secure Connection: Enable the HTTPS service.

Create Certificate Method: Choose the way the certificate should be created. Three options are available:

- Create a self-signed certificate automatically
- Create a self-signed certificate manually
- Create a certificate request and install

Status: Displays the status of the certificate.

Note: The certificate cannot be removed while the HTTPS is still enabled. To remove the certificate, you must first uncheck **Enable HTTPS secure connection**.



Access List

Here you can set access permissions for users to view your DCS-6010L.

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

Start IP address: The starting IP Address of the devices (such as a computer) that have permission to access the video of the camera. Click **Add** to save the changes made.

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

End IP address: The ending IP Address of the devices (such as a computer) that have permission to access the video of the camera.

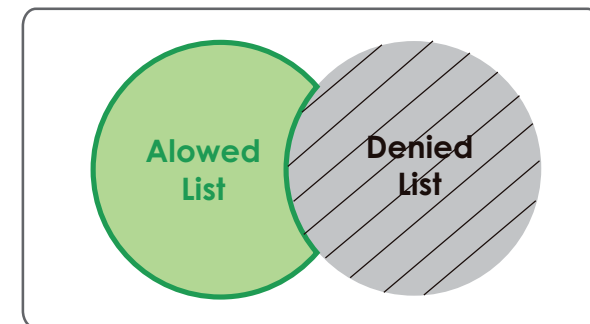
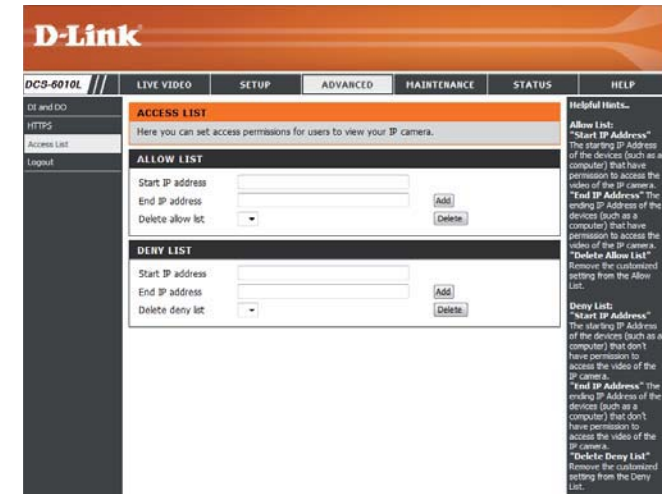
Delete allow list: Remove the customized setting from the Allow List.

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

Delete deny list: Remove the customized setting from the Deny List.

For example:

When the range of the Allowed List is set from 1.1.1.0 to 192.255.255.255 and the range of the Denied List is set from 1.1.1.0 to 170.255.255.255. Only users with IPs located between 171.0.0.0 and 192.255.255.255 can access the Network Camera.



Maintenance

Device Management

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

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

Add User Account: Add new user account.

User Name: The user name for the new account.

Password: The password for the new account.

User List: All the existing user accounts will be displayed here. You may delete accounts included in the list, but you may want to reserve at least one as a guest account.

Camera Name: Create a unique name for your camera that will be added to the file name prefix when creating a snapshot or a video clip.

Enable OSD: Select this option to enable the On-Screen Display feature for your camera.

Label: Enter a label for the camera, which will be shown on the OSD when it is enabled.

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

The screenshot displays the D-Link web interface for the DCS-6010L camera. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'MAINTENANCE' section is active, showing the 'ADMIN' page. The page contains several sections: 'ADMIN' (with a description of password and user management), 'ADMIN PASSWORD SETTING' (with fields for 'New Password' and 'Retype Password', both limited to 63 characters), 'ADD USER ACCOUNT' (with fields for 'User Name' (20 users maximum), 'New Password' (63 characters maximum), and 'Retype Password'), 'USER LIST' (with a dropdown for 'User Name' and a 'Delete' button), and 'DEVICE SETTING' (with fields for 'IP camera Name' (DCS-6010L, 63 characters maximum), 'Enable OSD' (checked), 'Label' (DCS-6010L, 63 characters maximum), and 'Show time' (checked)). A 'Save' button is present at the bottom of the 'DEVICE SETTING' section. A 'Helpful Hints' sidebar on the right provides additional information about enabling OSD and password security.

Backup and Restore

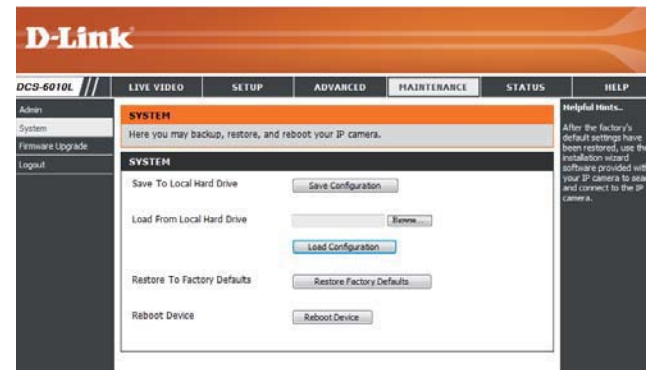
In this section, you may backup, restore and reset the camera configuration, or reboot the camera.

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

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

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

Reboot Device: This will restart your camera.



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.

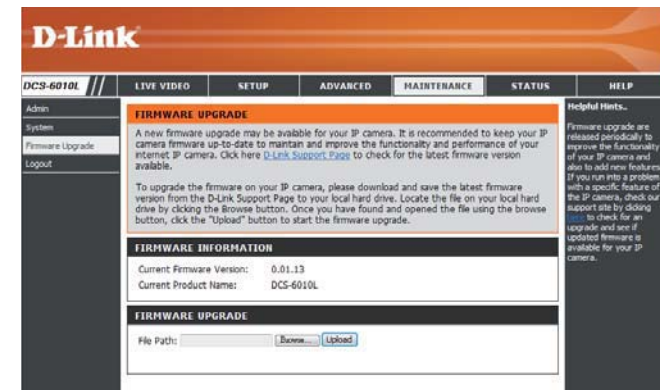
To upgrade the firmware on your DCS-6010L, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the **Browse** button. Select the file and click the **Upload** button to start upgrading the firmware.

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 the DCS-6010L camera. The top navigation bar includes 'LIVE VIDEO', 'SETUP', 'ADVANCED', 'MAINTENANCE', 'STATUS', and 'HELP'. The 'STATUS' tab is active, and the 'Device Info' sub-tab is selected. The main content area displays network configuration details under the heading 'DEVICE INFO'. A 'Helpful Hints..' sidebar on the right explains that this page shows IP camera and network settings.

INFORMATION	
IP camera Name	DCS-6010L
Time & Date	Sat Jun 30 11:17:22 2012
Firmware Version	0.01.13
MAC Address	F0:7D:68:09:A3:D9
IP Address	192.168.0.103
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
Agent Version	2.0.15-b6

Logs

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

D-Link

DCS-6010L // 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. 2012-06-30 11:16:53 admin FROM 192.168.0.100 TURN ON LED
2. 2012-06-30 11:16:46 admin FROM 192.168.0.100 TURN OFF LED
3. 2012-06-30 11:15:59 MOTION STOPPED
4. 2012-06-30 11:15:56 IP CAMERA Received MOTION Trigger
5. 2012-06-30 11:15:56 MOTION STOPPED
6. 2012-06-30 11:14:48 SD CARD SIZE 1976528 KB
7. 2012-06-30 11:14:37 IP CAMERA Received MOTION Trigger
8. 2012-06-30 11:14:31 MOTION STOPPED
9. 2012-06-30 11:14:29 IP CAMERA Received MOTION Trigger
10. 2012-06-30 11:13:23 MOTION STOPPED
11. 2012-06-30 11:13:17 IP CAMERA Received MOTION Trigger
12. 2012-06-30 11:13:16 admin FROM 192.168.0.100 SET MOTION BLOCK TABLE
13. 2012-06-30 11:12:25 admin FROM 192.168.0.100 SET PROFILE 1 FRAMERATE 15
14. 2012-06-30 11:12:13 MOTION STOPPED
15. 2012-06-30 11:12:07 IP CAMERA Received MOTION Trigger
16. 2012-06-30 11:12:06 admin FROM 192.168.0.100 TURN ON MASK AREA 2
17. 2012-06-30 11:12:06 admin FROM 192.168.0.100 TURN ON MASK AREA 3
18. 2012-06-30 11:12:06 admin FROM 192.168.0.100 TURN ON MASK AREA 1
19. 2012-06-30 11:11:56 admin FROM 192.168.0.100 TURN OFF MASK AREA 2
20. 2012-06-30 11:11:56 admin FROM 192.168.0.100 TURN OFF MASK AREA 3

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-6010L 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 LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, and STATUS. At the bottom, there is a 'SECURITY' section and a copyright notice: 'Copyright © 2011 D-Link Corporation.'

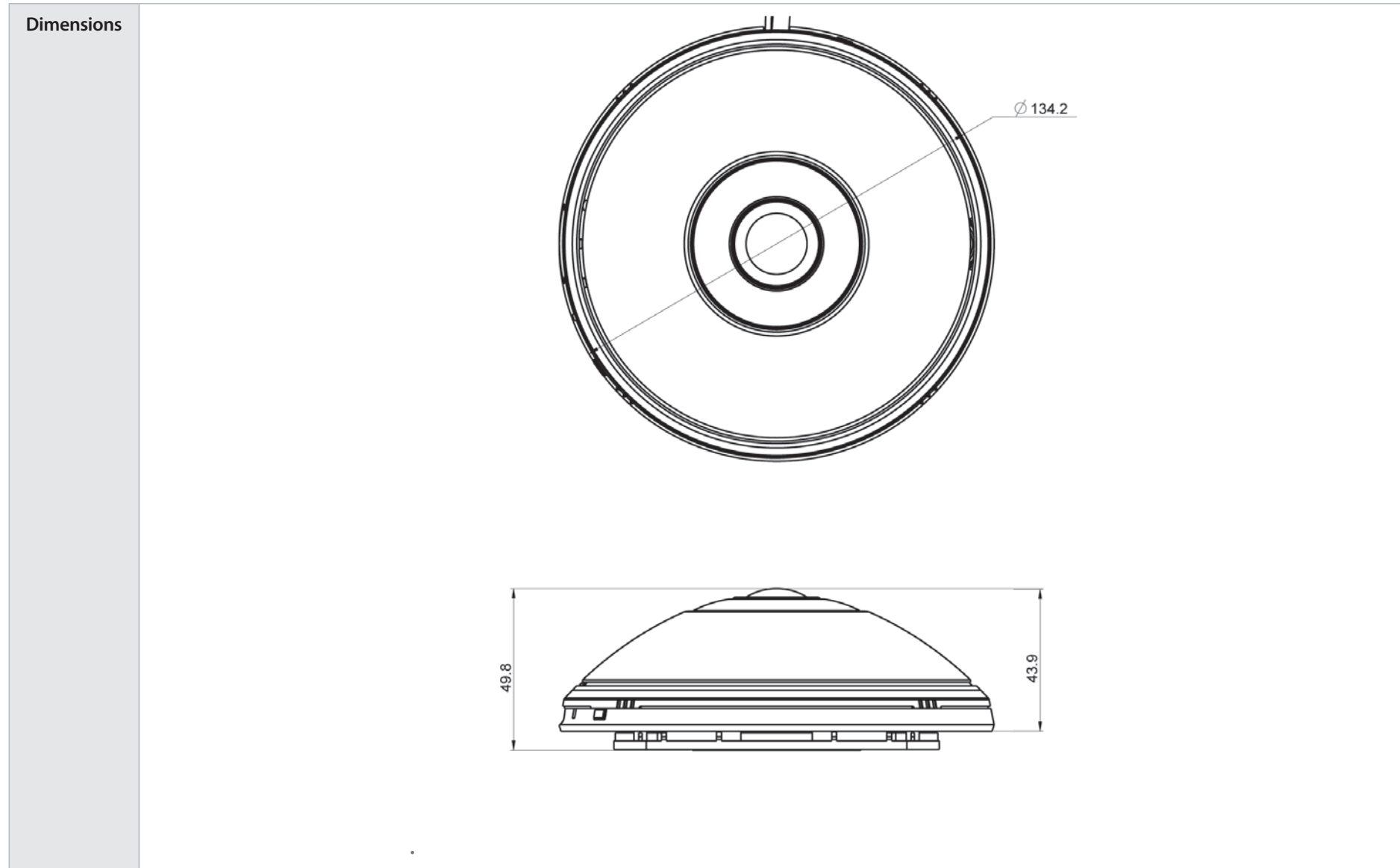
DCS-6010L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Help Logout	HELP <ul style="list-style-type: none">LIVE VIDEOSETUPMAINTENANCEADVANCEDSTATUS	LIVE VIDEO <ul style="list-style-type: none">Camera	SETUP <ul style="list-style-type: none">Setup WizardNetwork SetupWireless SetupDynamic DNSImage SetupAudio and VideoMotion DetectionTime and DateEvent SetupSD Card	ADVANCED <ul style="list-style-type: none">DI and DOHTTPSAccess List	MAINTENANCE <ul style="list-style-type: none">AdminSystemFirmware Upgrade	STATUS <ul style="list-style-type: none">Device InfoLog
SECURITY						
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Technical Specifications

Camera	Camera Hardware Profile	<ul style="list-style-type: none"> ▪ 1/3.2" 2 megapixel progressive CMOS sensor ▪ Minimum illumination: 2.0 lux ▪ Built-in microphone and speaker ▪ 10x digital zoom ▪ Focal length: 1.25 mm ▪ Aperture: F2.0 	<ul style="list-style-type: none"> ▪ Angle of view: <ul style="list-style-type: none"> ▪ (H) 180° ▪ (V) 180° ▪ (D) 180°
	Image Features	<ul style="list-style-type: none"> ▪ Configurable image size, quality, frame rate, and bit rate ▪ Fisheye distortion correction ▪ Time stamp and text overlays 	<ul style="list-style-type: none"> ▪ Configurable privacy mask zones ▪ Configurable shutter speed, brightness, saturation, contrast, and sharpness ▪ Configurable motion detection windows
	Video Compression	<ul style="list-style-type: none"> ▪ Simultaneous H.264/MPEG-4/MJPEG format compression ▪ H.264/MPEG-4 multicast streaming 	<ul style="list-style-type: none"> ▪ JPEG for still images
	Video Resolution	1600 x 1200, 1200 x 900, 800 x 600, 400 x 300	
	Audio Support	G.726, G.711	
	External Device Interface	<ul style="list-style-type: none"> ▪ 10/100 BASE-TX Fast Ethernet port ▪ IEEE 802.11n 2.4GHz single band wireless 	<ul style="list-style-type: none"> ▪ MicroSD/SDHC card slot
Network	Network Protocols	IPv6 IPv4 TCP/IP UDP ICMP DHCP client NTP client (D-Link) DNS client DDNS client (D-Link) SMTP client FTP client	HTTP / HTTPS Samba Client PPPoE UPnP port forwarding RTP / RTSP / RTCP IP filtering QoS CoS Multicast IGMP ONVIF compliant
	Security	<ul style="list-style-type: none"> ▪ Administrator and user group protection ▪ Password authentication 	<ul style="list-style-type: none"> ▪ HTTP and RTSP digest encryption

Appendix A: Technical Specifications

System Management	System Requirements for Web Interface	<ul style="list-style-type: none"> ▪ Browser: Internet Explorer, Firefox, Chrome, Safari 	
	Event Management	<ul style="list-style-type: none"> ▪ Motion detection ▪ Event notification and uploading of snapshots/video clips via e-mail or FTP 	<ul style="list-style-type: none"> ▪ Supports multiple SMTP and FTP servers ▪ Multiple event notifications ▪ Multiple recording methods for easy backup
	Remote Management	<ul style="list-style-type: none"> ▪ Take snapshots/video clips and save to local hard drive or NAS via web browser 	<ul style="list-style-type: none"> ▪ Configuration interface accessible via web browser
	Mobile Support	Windows 7/Vista/XP system, Pocket PC, or mobile phone	
	D-ViewCam™ System Requirements	<ul style="list-style-type: none"> ▪ Operating System: Microsoft Windows 7/Vista/XP ▪ Web Browser: Internet Explorer 7 or higher 	<ul style="list-style-type: none"> ▪ Protocol: Standard TCP/IP
	D-ViewCam™ Software Functions	<ul style="list-style-type: none"> ▪ Remote management/control of up to 32 cameras ▪ Viewing of up to 32 cameras on one screen 	<ul style="list-style-type: none"> ▪ Supports all management functions provided in web interface ▪ Scheduled motion triggered, or manual recording options
General	Weight	267 g +-5%	
	External Power Adaptor	Input: 100 to 240 V AC, 50/60 Hz	Output: 5 V DC, 1.2 A
	Power Consumption	3.9 watts +-5%	
	Temperature	Operating: 0 to 40 °C (32 to 104 °F)	Storage: -20 to 70 °C (-4 to 158 °F)
	Humidity	Operating: 20% to 80% non-condensing	Storage: 5% to 95% non-condensing
	Certifications	CE CE LVD	FCC C-Tick



Safety Statements

CE Mark Warning:

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

FCC Statement:

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

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

FCC Caution:

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

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

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

IMPORTANT NOTICE:

FCC Radiation Exposure Statement:

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

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

Industry Canada Notice:

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

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

IMPORTANT NOTE:

Radiation Exposure Statement:

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

FCC Notices

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.

CAUTION: Change or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

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

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance."

Canada Notices

Industry Canada regulatory information

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance."

Cet équipement doit être installé et utilisé conformément aux instructions fournies et de l'antenne (s) utilisé pour cet émetteur doit être installé pour fournir une distance de séparation d'au moins 20 cm de toute personne et ne doit pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur. Les utilisateurs finaux et installateurs doivent être fournir des instructions d'installation de l'antenne et des conditions de fonctionnement du transmetteur de la conformité sur l'exposition aux RF