

USER MANUAL

DCS-6511

VERSION 1.0



D-Link®

SURVEILLANCE

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Preface

D-Link reserves the right to revise this publication and to make changes in the contents hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.0	September 30, 2010	DCS-6511 Revision A1 with firmware version 1.00

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Package Contents



**DCS-6511
Network Camera**



Power Adapter



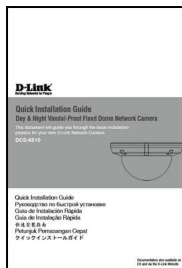
Security Wrench



**A/V & Power
Cables**



**Manual and Wizard
on CD-ROM**



**Quick Installation
Guide**



**CAT-5 Ethernet
Cable**



Extension Adapter



Cable Cover



**Mounting Bracket
and Screws**



Rubber Plug

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

Hardware Overview

Infrared LEDs

Used to illuminate the camera's field of view at night



Camera Lens

Motorized varifocal autofocus lens

Camera Enclosure Disassembly and SD Card Installation

Disassemble the Camera

Open the camera enclosure by removing the 3 standard screws using a screwdriver. Remove the 4th screw using the provided security wrench.

Lift the dome off of the base of the camera.

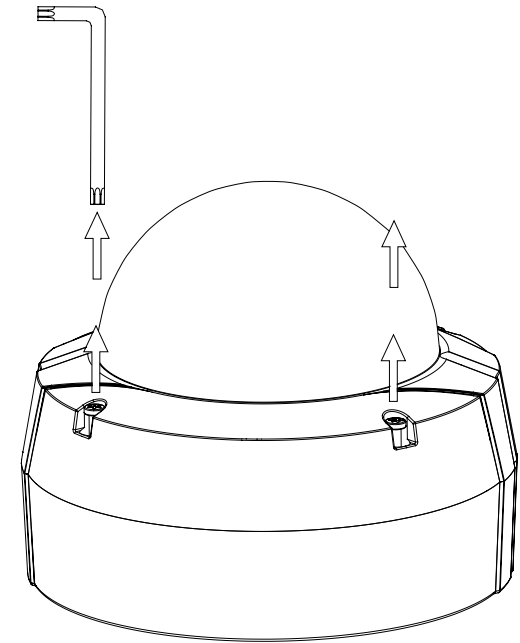


Figure A.

Install the SD Card

Push the SD card into the camera with the gold contacts oriented towards the base of the camera. To eject the SD card, push the SD card into the slot.

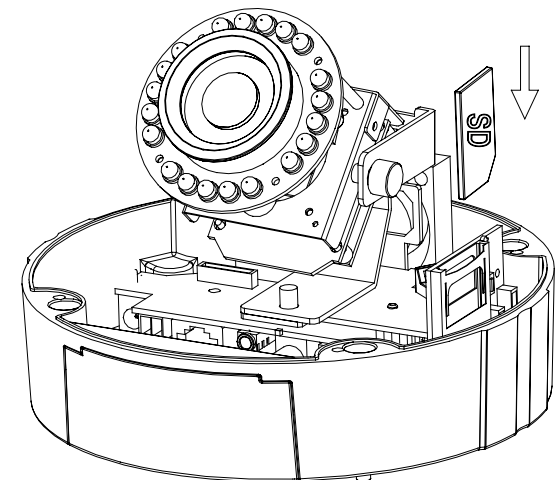


Figure B.

Hardware Reset

Resetting the Camera

If the camera is malfunctioning, you may use the hardware reset button located on the underside of the camera apparatus to reset the camera to factory default settings. Press and hold the reset button for approximately 10 seconds to reset the camera.

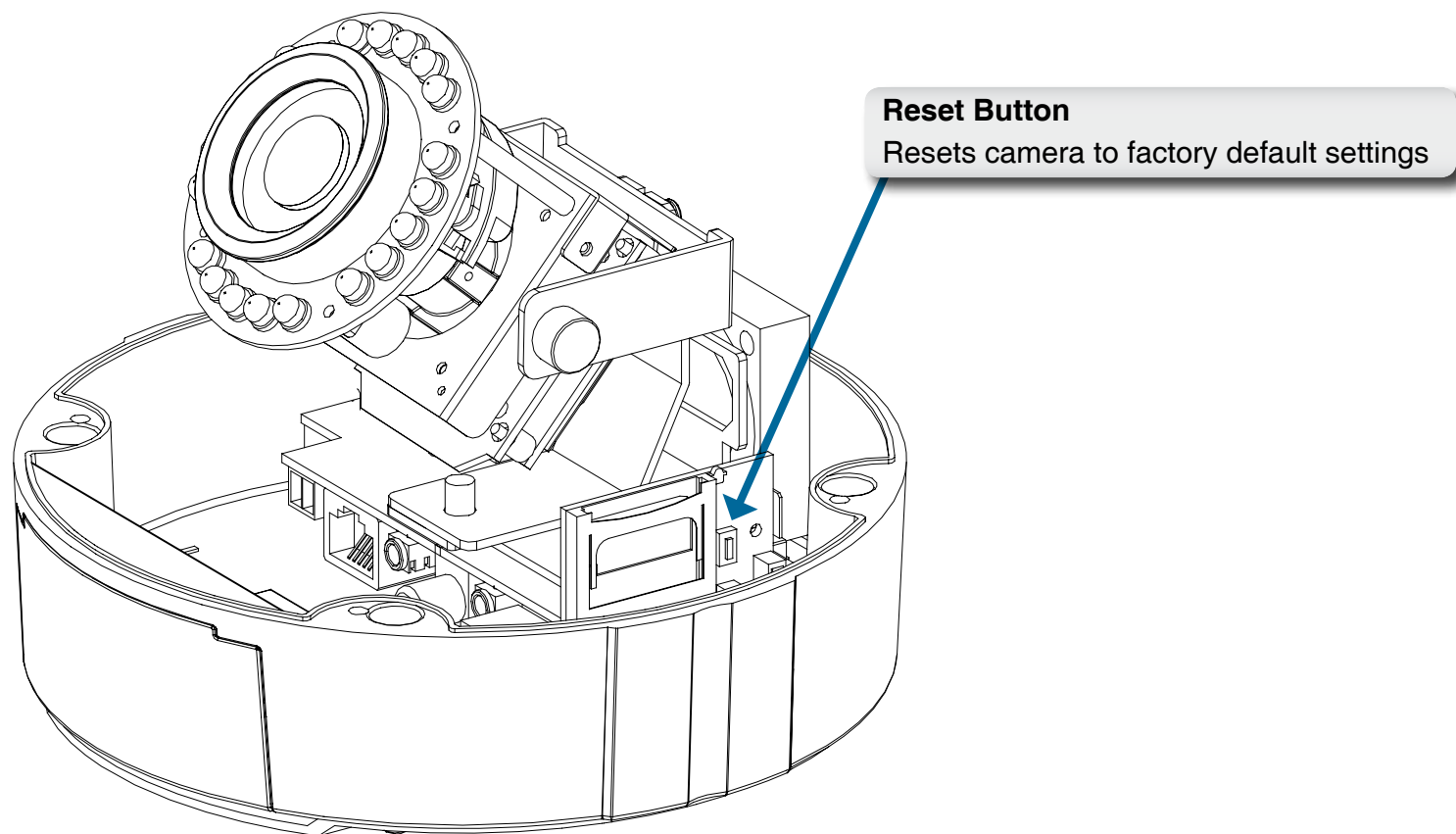


Figure C.

Preparing for Installation

- A. Depending on how you choose to mount the camera, you may need to change the orientation of the cable. For instance, when using the Surface Mounting Bracket, the cables may need to exit through the side of the camera base rather than the top.

Changing Cable Orientation:

1. Disassemble the camera enclosure. (See Figure A. on page 6.)
2. Loosen, but do not remove, the two screws that secure the camera bracket to the base of the enclosure using a screwdriver. (Figure 1.1)
3. Slide the camera bracket towards the front of the camera base. (Figure 1.2)

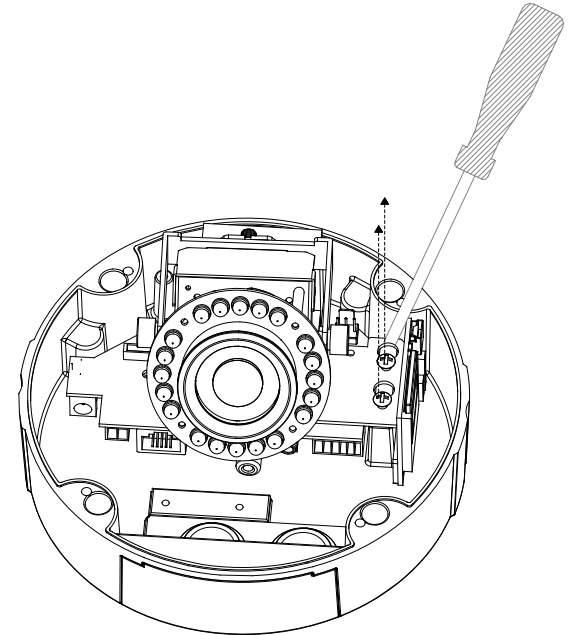


Figure 1.1

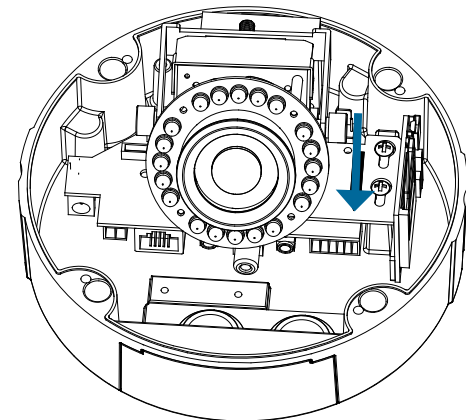


Figure 1.2

4. Lift the camera bracket up and off from the camera base. (Figure 1.3)
5. Disconnect the cables from the connectors at the base of the camera.
6. Place the cable into the new hole and reconnect the cables to the cable connectors at the base of the camera. (Figure 1.4)
7. Replace the chrome plug and tighten it into place.
8. Replace the chrome nut and tighten it into place

B. Replace the dome enclosure over the IP camera and tighten the 4 screws.

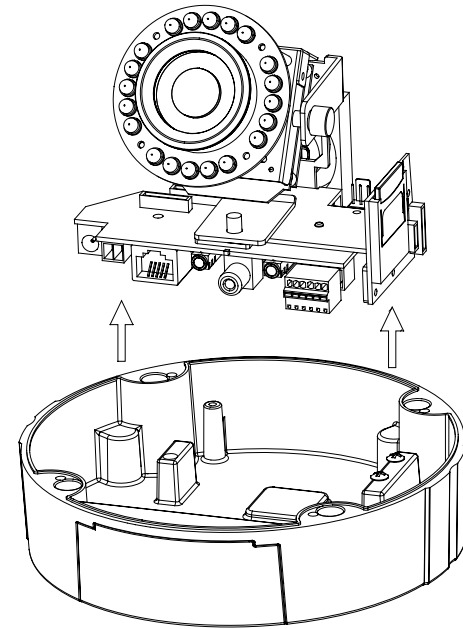


Figure 1.3

Safety Notice:

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

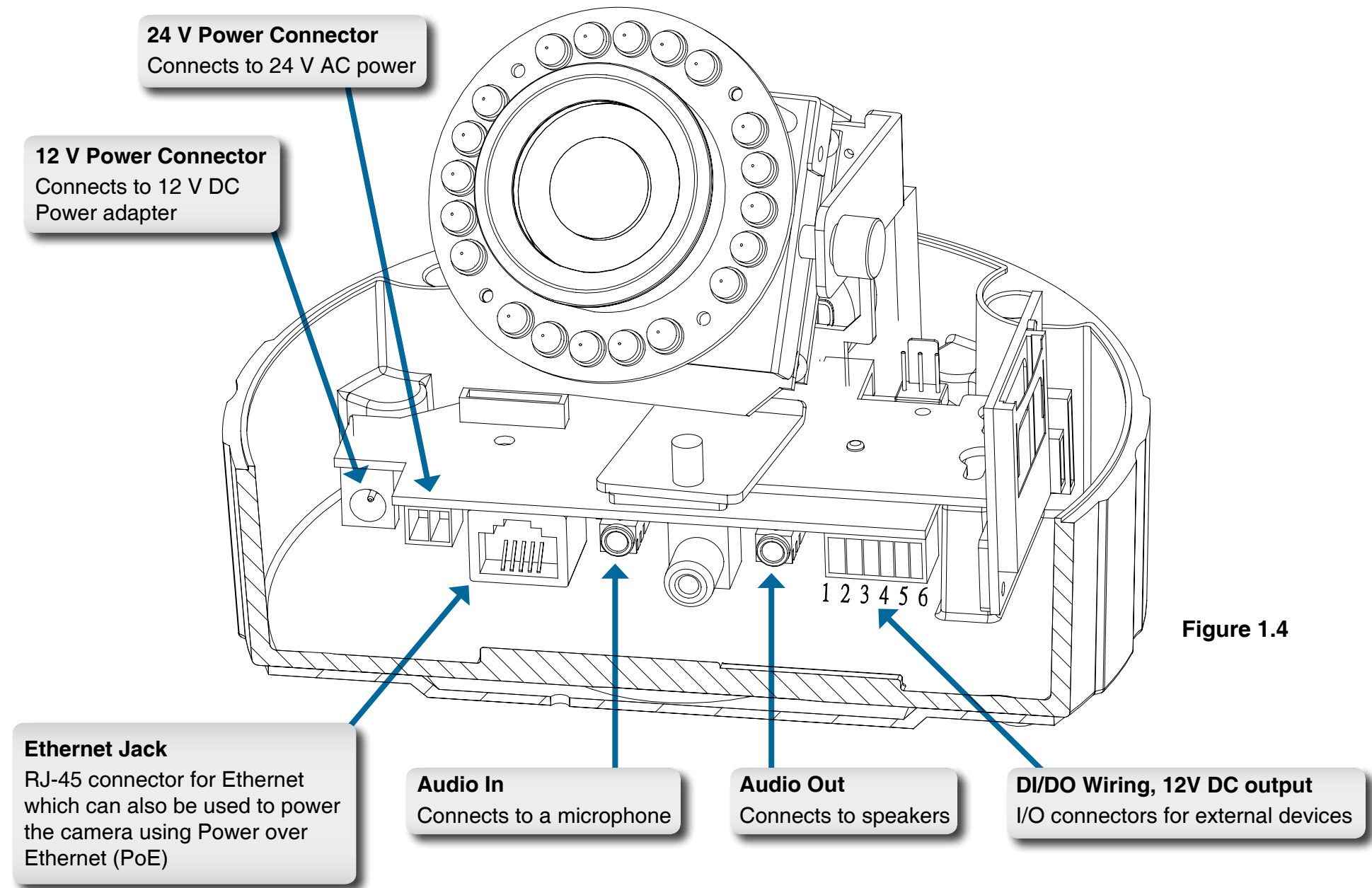
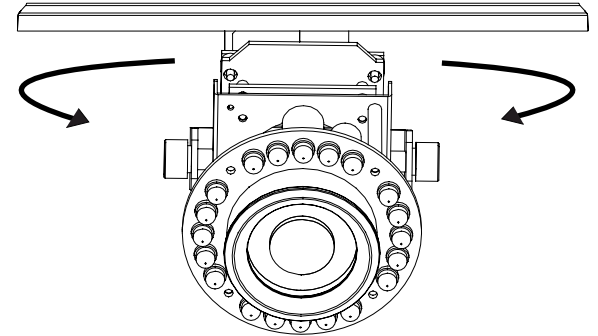


Figure 1.4

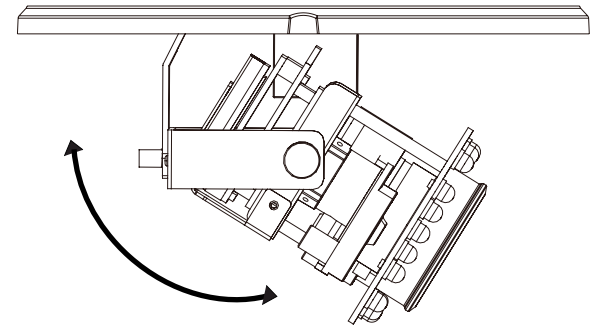
Adjusting the Viewing Angle

Adjust the Viewing Angle of the 3-Axis Mechanism

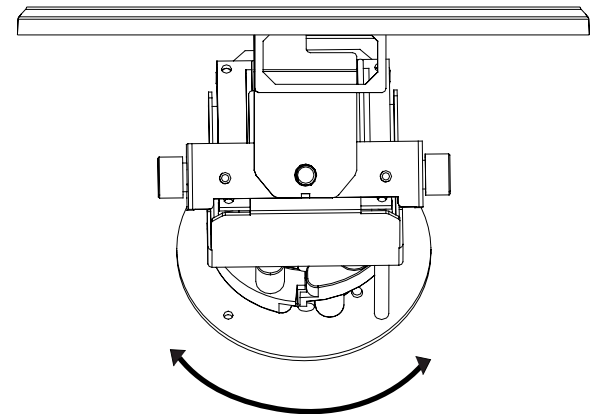
Turn the lens module left and right until the desired position is achieved; tighten the pan screw once completed.



Loosen the tilt screws on both sides of the camera, and turn the lens module up and down until the desired position is achieved; tighten the tilt screws once completed.



Turn the lens to adjust the IP camera's image until the desired orientation is achieved. Tighten the image adjustment screw once completed.



Standard Mounting Instructions

Style 1 - Concealed Cable Installation

1. Disassemble the camera enclosure (see page 6).
2. Thread the cables through the waterproof plugs at the bottom of the base of the camera. Attach the cables to the corresponding cable connectors. (Figure 2.1)
3. Locate a suitable position on the ceiling for the mounting plate to be installed.
4. Use the mounting template to mark the holes for installation.
5. Cut an access hole in the ceiling for the cables.
6. Drill four separate 6 mm holes corresponding to the holes in the mounting template and insert the plastic anchors into these holes.
7. Attach the surface bracket to the ceiling using the screws provided.

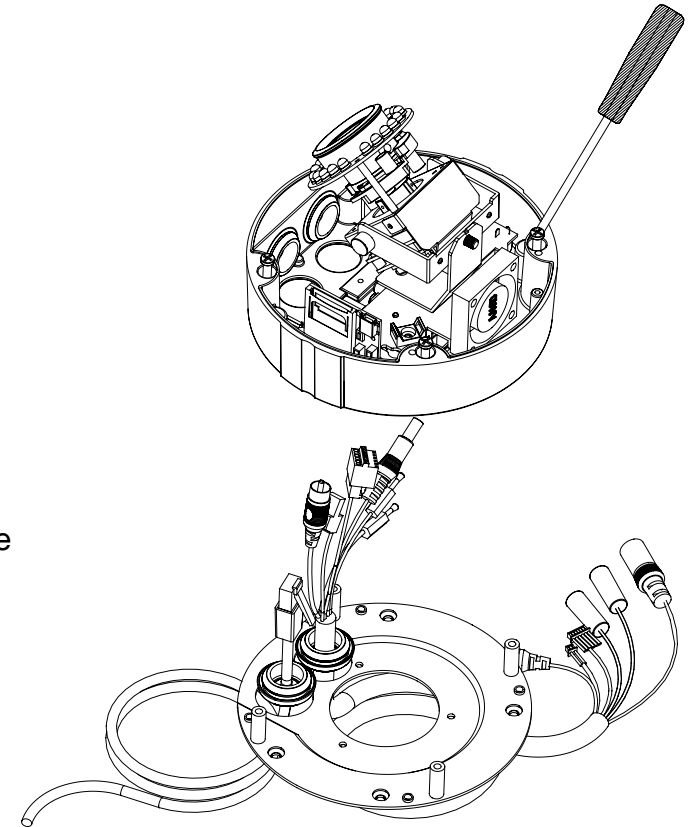


Figure 2.1

8. Connect the Ethernet cable and the power cable, threading them through the hole in the ceiling. (Figure 2.2)
9. Push the dome body up over the base of the camera.
10. Attach the dome to the base of the camera using the 3 long screws and the provided security screw.

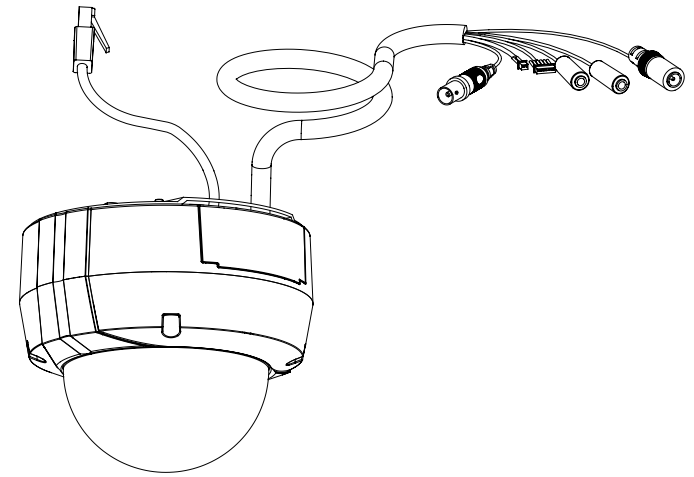


Figure 2.2

Style 2 - Exposed Cable Installation

1. Disassemble the camera enclosure (see page 6).
2. Remove the small screw to release the faceplate on the side of the base of the camera. (Figure 2.3)
3. Thread the cables through the waterproof plugs on the side of the base of the camera. Attach the cables to the corresponding cable connectors. (See page 10.)
4. Attach the dual-holed plate to the base of the camera. (Figure 2.4)

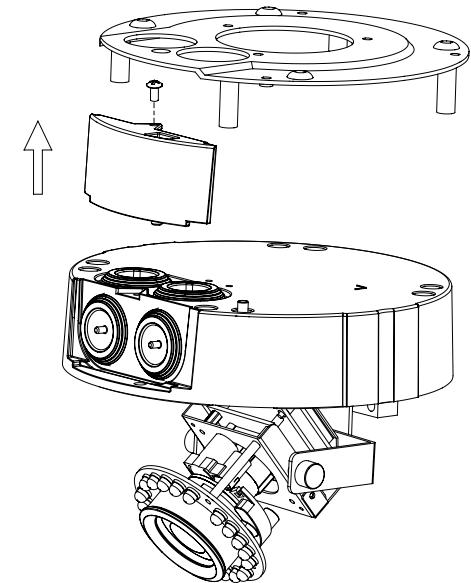


Figure 2.3

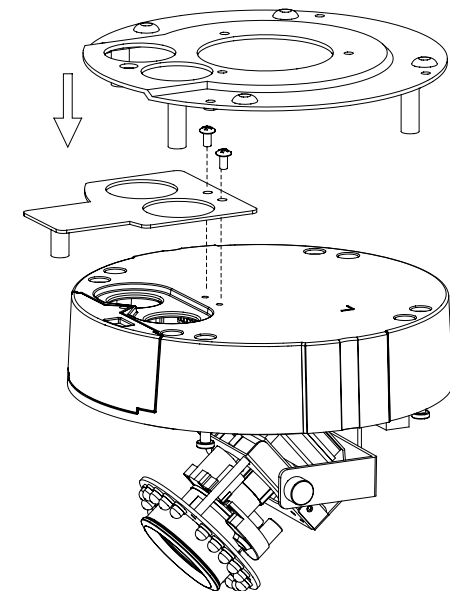


Figure 2.4

5. Place the plastic cable cover onto the dual-holed plate and attach it using the screw. (Figure 2.5)
6. Locate a suitable position on the ceiling for the mounting plate to be installed.
7. Use the mounting template to mark the holes for installation.
8. Drill 4 separate 6 mm holes corresponding to the holes in the mounting template and insert the plastic anchors into these holes.
9. Attach the surface bracket to the ceiling using the screws provided.
10. Place the dome body onto the base of the camera. (Figure 2.6)
11. Attach the dome to the base of the camera using the 3 long screws and the provided security screw.

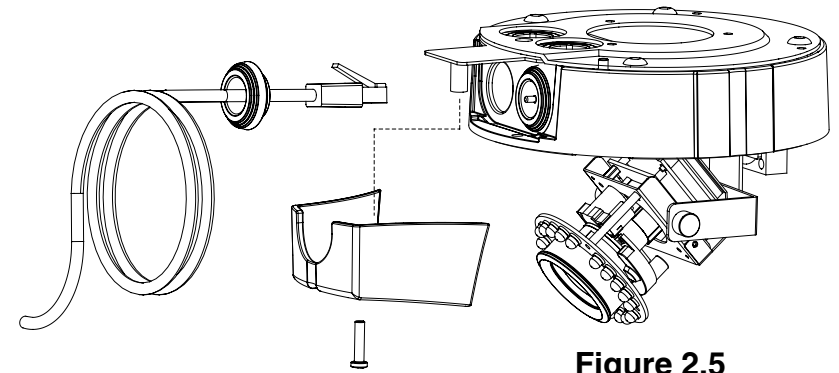


Figure 2.5

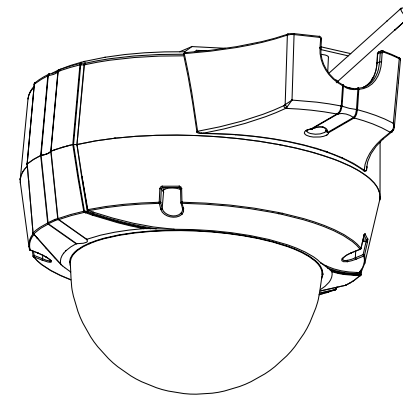


Figure 2.6

Pendant Mount (DCS-34-2)

1. Attach the mounting plate to the bracket cap using the three screws as shown in Figure 3.1.
2. Locate a suitable position on the ceiling for a 34 mm (+2 / -0 mm) hole to be cut. A template is included to aid in marking the mounting hole.
3. Cut the hole in the ceiling according to the template.
4. Drill 4 separate 6 mm holes corresponding to the holes in the mounting template and insert the plastic anchors into these holes.
5. Place the rubber seal between the pendant bracket and the ceiling to ensure a waterproof seal between the ceiling and the bracket. (Figure 3.2)
6. Attach the pendant bracket to the ceiling using the screws provided.
7. Attach the bracket cap to the bottom of the pendant bracket, rotating the cap counter-clockwise to tighten it into place.
8. Insert the screw into the base of the pendant bracket at the top of the bracket cap to secure the bracket cap into place.

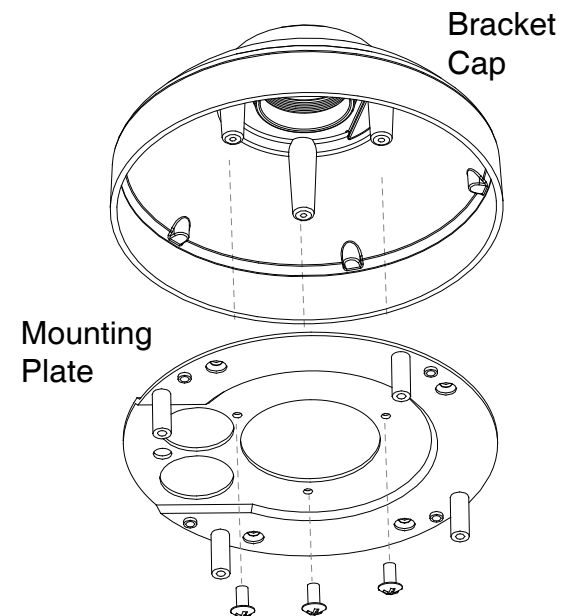


Figure 3.1

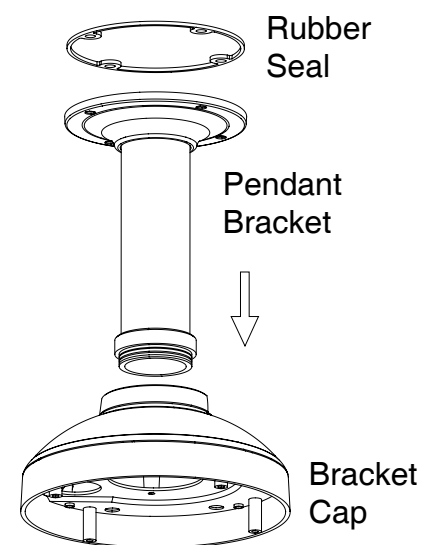


Figure 3.2

9. Connect the Ethernet cable and the power cable and thread them through the pendant bracket.
10. Place the dome body onto the base of the camera. (Figure 3.3)
11. Attach the dome to the base of the camera using the 3 long screws and the provided security screw.

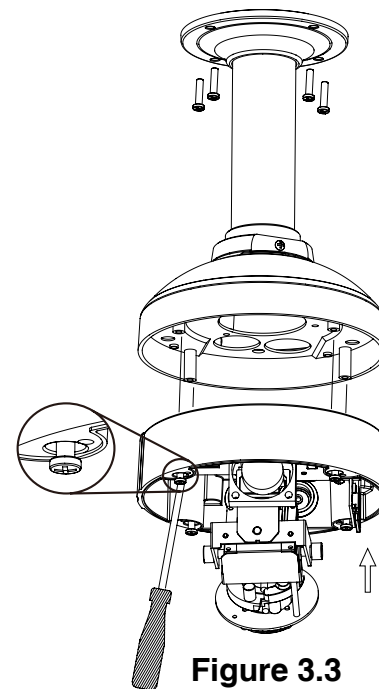


Figure 3.3

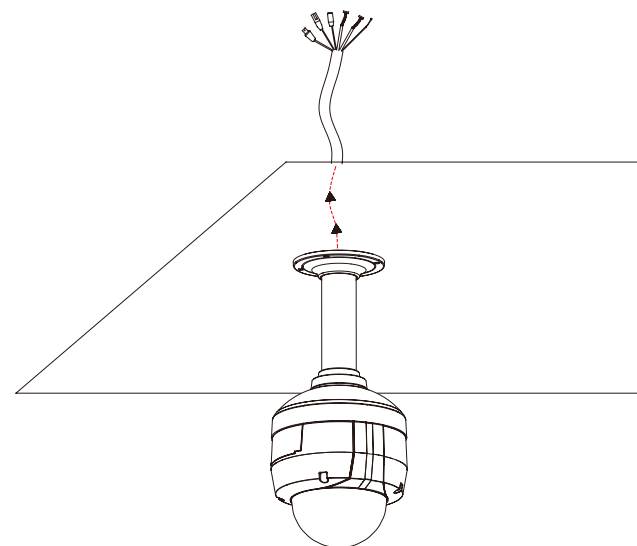


Figure 3.4

Bent Mount (DCS-34-3)

1. Attach the mounting plate to the bracket cap using the three screws as shown in Figure 4.1.
2. Locate a suitable position on the ceiling for a 34 mm (+2 / -0 mm) hole to be cut. A template is included to aid in marking the mounting hole.
3. Cut the hole in the ceiling according to the template
4. Drill 4 separate 6 mm holes corresponding to the holes in the mounting template and insert the plastic anchors into these holes.
5. Place the rubber seal between the bent bracket and the ceiling to ensure a waterproof seal between the ceiling and the bracket. (Figure 4.2)
6. Attach the pendant bracket to the ceiling using the screws provided.
7. Attach the bracket cap to the bottom of the bent bracket, rotating the cap counter-clockwise to tighten it into place.
8. Insert the screw into the base of the bent bracket at the top of the bracket cap to secure the bracket cap into place.
9. Connect the Ethernet cable and the power cable and thread them through the pendant bracket.

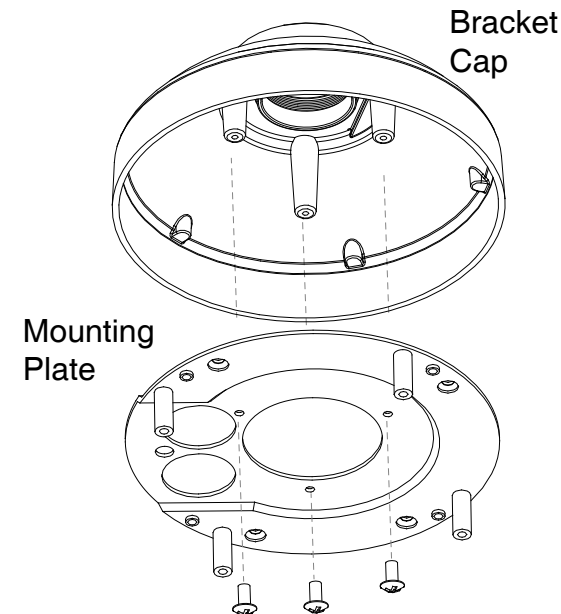


Figure 4.1

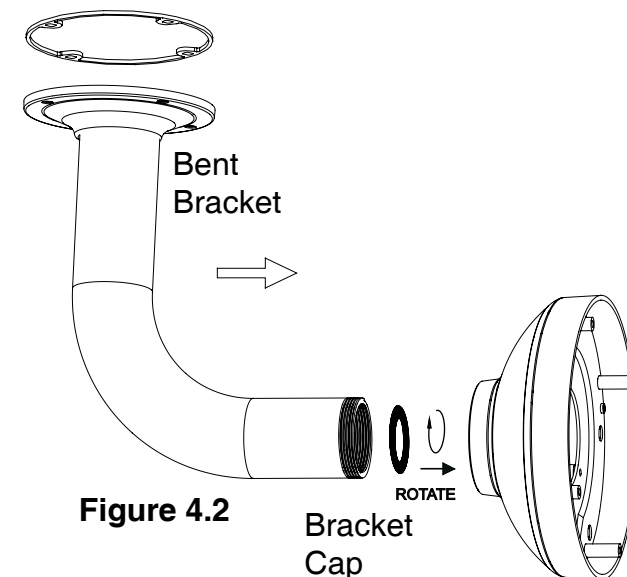
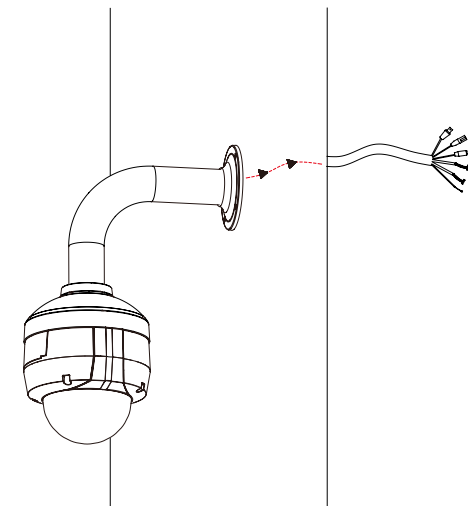
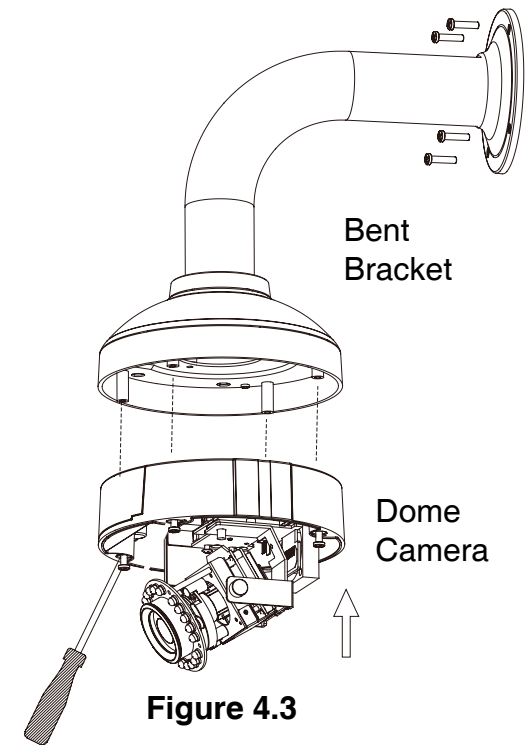


Figure 4.2

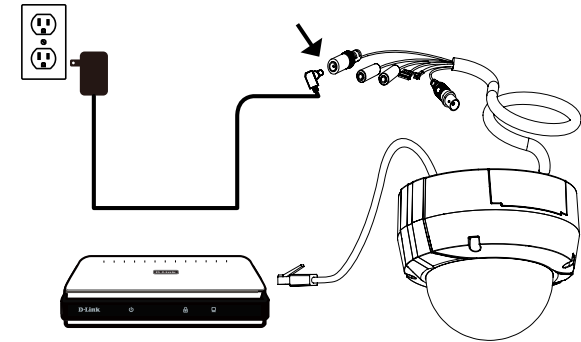
10. Place the dome body onto the base of the camera. (Figure 4.3)
11. Attach the dome to the base of the camera using the 3 long screws and the provided security screw.



Network and Power Connections

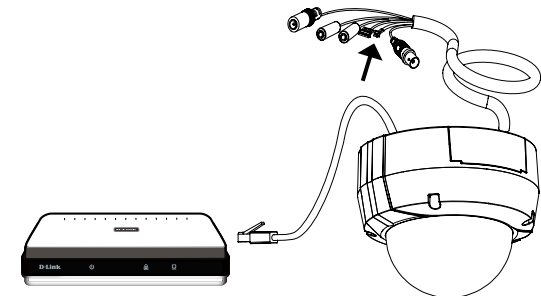
General Connection Using 12 V DC Power Adapter

1. Connect the network camera to a hub via an Ethernet cable.
2. Connect the supplied power cable from the camera to a power outlet.



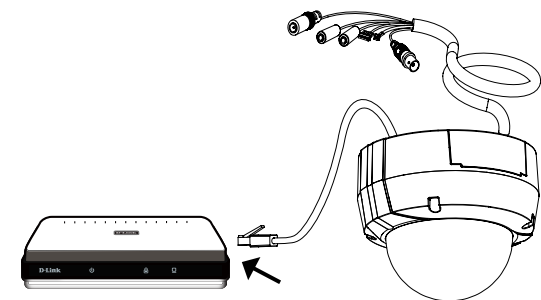
General Connection Using 24 V AC Power Wiring

1. Connect the network camera to a hub via an Ethernet cable.
2. Connect the supplied power cable from the camera to a power source such as your building's emergency power.



Connection with a PoE Hub

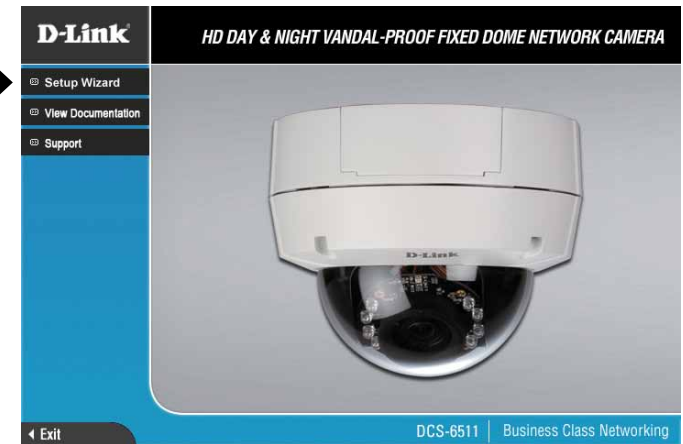
If you are using a PoE hub, connect the IP camera to the hub via an Ethernet cable, which will provide transmission of both power and data over a single cable.



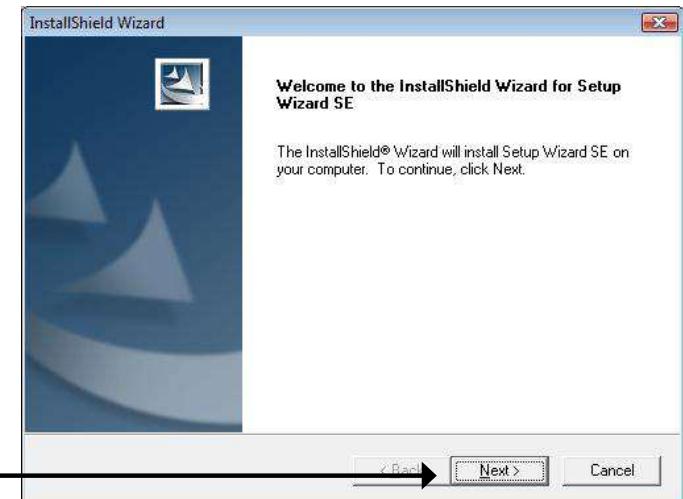
Configuration with Wizard

Insert the DCS-6511 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 **Start > Run**. Type **D:\autorun.exe**, where D: represents the drive letter of your CD-ROM drive.

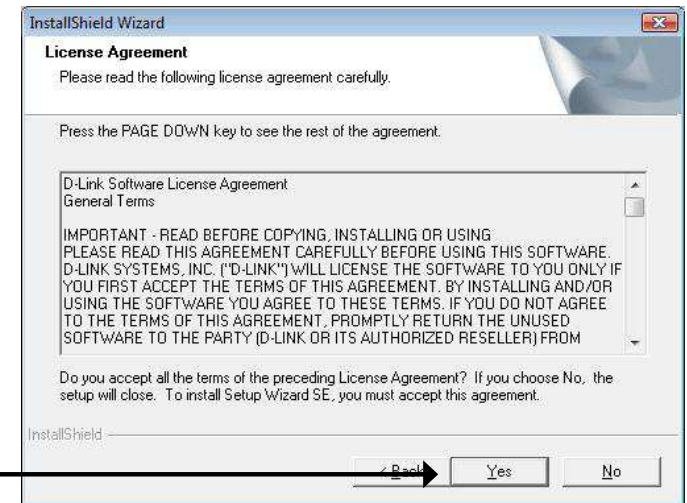
Click **Setup Wizard** to begin the installation.



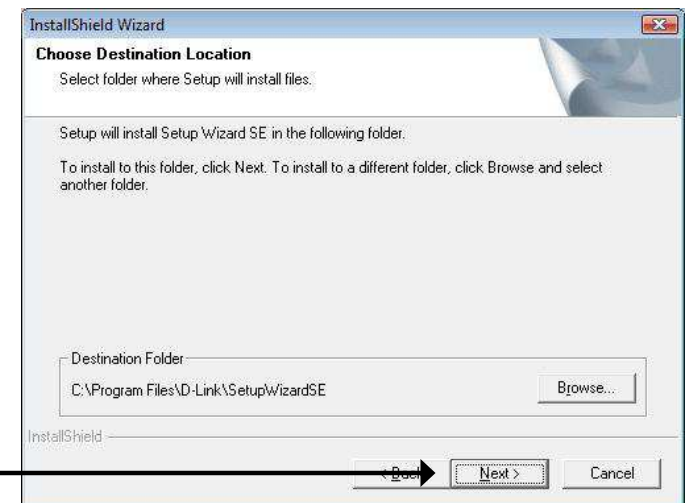
Click **Next** to continue.



Click **Yes** to accept the License Agreement.

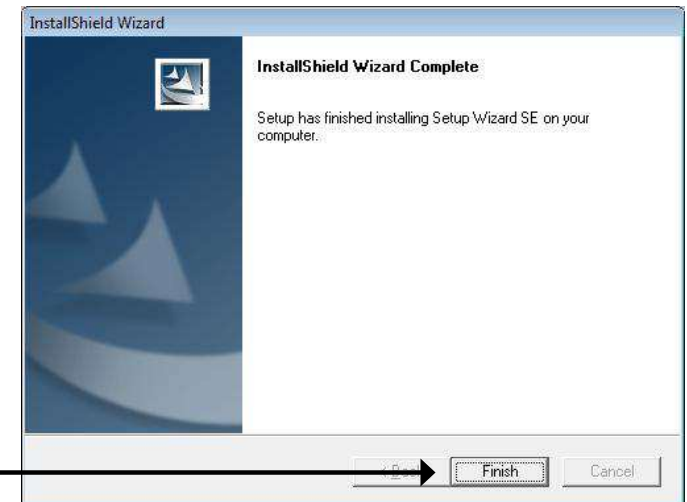


To start the installation process, click **Next**.



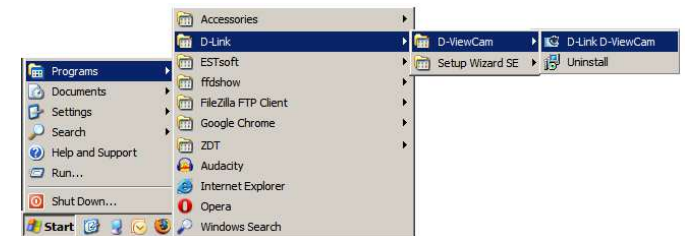
Note: The installation may take several minutes to finish.

Click **Finish** to complete the installation.



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

Start > D-Link > Setup Wizard SE



Configuration

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 address **192.168.0.20** will be displayed.

Click the **Wizard** button to continue.



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 **Next**, to proceed to the next page.

Set up an Admin ID and Password to secure your camera.
Click Next to continue.

Admin ID Password

☐ Change ☐ Change

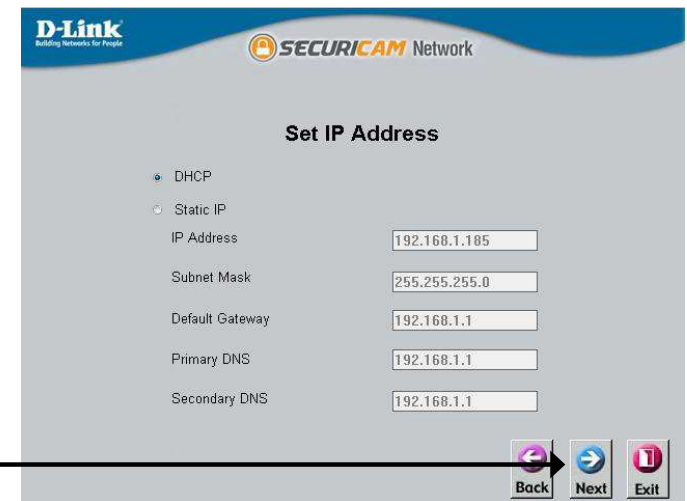
New ID New Password

Reconfirm Reconfirm

Back Next Exit

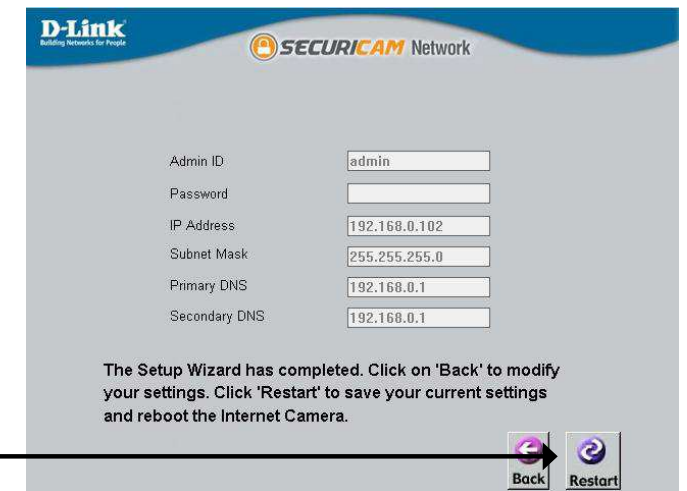
Select **DHCP** if your camera obtains an IP address automatically when it boots up.
Select **Static IP** if the camera will use the same IP address each time it is started.

Click **Next**, to proceed to the next page.



The screenshot shows the 'Set IP Address' configuration page in the D-Link SECURICAM Network setup wizard. The page has a blue header with the D-Link logo and 'SECURICAM Network' text. Below the header, the title 'Set IP Address' is centered. There are two radio button options: 'DHCP' (which is selected) and 'Static IP'. To the right of these options are input fields for 'IP Address' (192.168.1.185), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (192.168.1.1), 'Primary DNS' (192.168.1.1), and 'Secondary DNS' (192.168.1.1). At the bottom right, there are three buttons: 'Back' (with a left arrow), 'Next' (with a right arrow), and 'Exit' (with a red square icon).

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



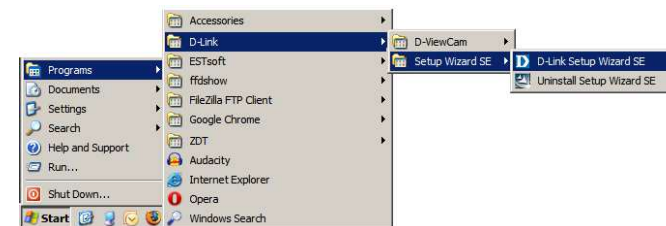
The screenshot shows the final step of the D-Link SECURICAM Network setup wizard. The page has a blue header with the D-Link logo and 'SECURICAM Network' text. Below the header, there are input fields for 'Admin ID' (admin), 'Password' (empty), 'IP Address' (192.168.0.102), 'Subnet Mask' (255.255.255.0), 'Primary DNS' (192.168.0.1), and 'Secondary DNS' (192.168.0.1). Below these fields, a message states: 'The Setup Wizard has completed. Click on 'Back' to modify your settings. Click 'Restart' to save your current settings and reboot the Internet Camera.' At the bottom right, there are two buttons: 'Back' (with a left arrow) and 'Restart' (with a circular arrow icon).

Web-based Configuration Utility

This section explains how to configure your new D-Link Network Camera using the Web-based Configuration Utility.

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

Start > D-Link > Setup Wizard SE

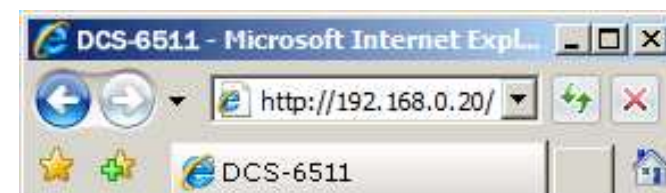


Select the camera and click the button labeled **"Link"** to access the web configuration.

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



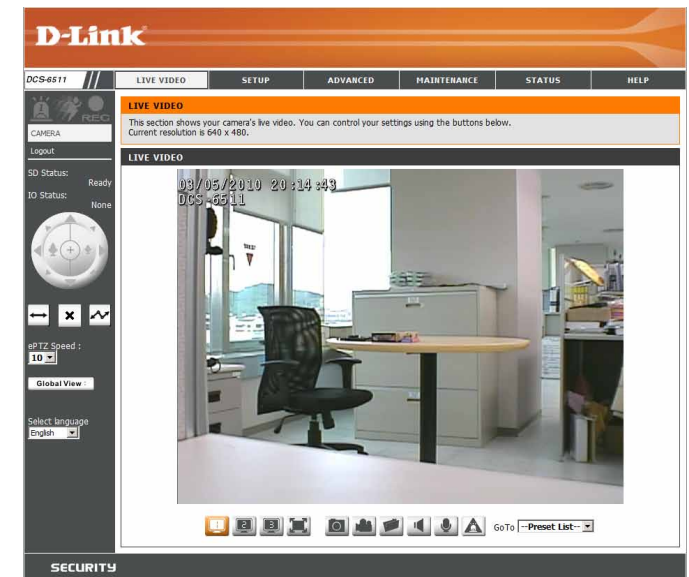
Alternatively, you may manually open a browser and enter the IP address of the camera: **192.168.0.20**



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



This section shows your camera's live video. You can select your video profile and view or operate the camera. For additional information about web configuration, please refer to the user manual included on the CD-ROM or the D-Link website.

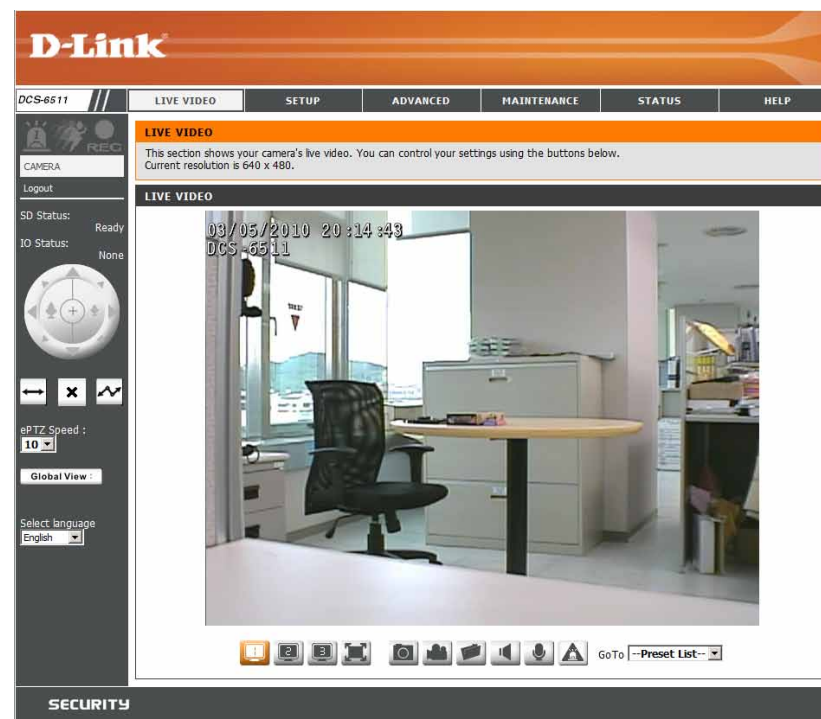


Live Video

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.

	Digital Input Indicator	This indicator will change color when a digital input signal is detected.
	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.

-  Video Profile 1
-  Video Profile 2
-  Video Profile 3
-  Full screen mode
-  Taking a Snapshot
-  Recording a Video Clip
-  Set a Storage Folder
-  Listen/Stop Listening
-  Talk/Stop Talking
-  Start/Stop Digital Output



	Control Pad	This control pad can be used to pan, tilt, and zoom within the camera's predefined view area, if one has been defined.
---	--------------------	--

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

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."

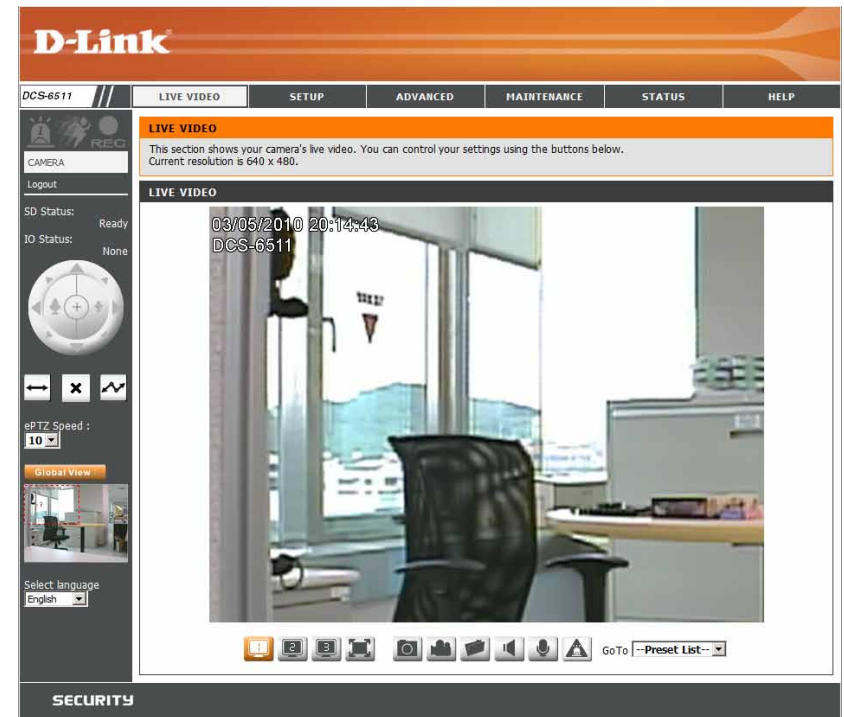
IO Status: This option displays the status of your I/O device if a device has been connected.

PTZ Control: This camera uses electronic pan/tilt/zoom (ePTZ) to select and view areas of interest in the field of view. Please see page 40 for information about setting the frame size and view window area.

ePTZ Speed: You may select a value between 0 and 64. 0 is the slowest and 64 is the fastest.

Global View: This window indicates the total field of view (FOV) of the camera. The red box indicates the visible region of interest (ROI).

Language: You may select the interface language using this menu. The available options are English and Traditional Chinese.

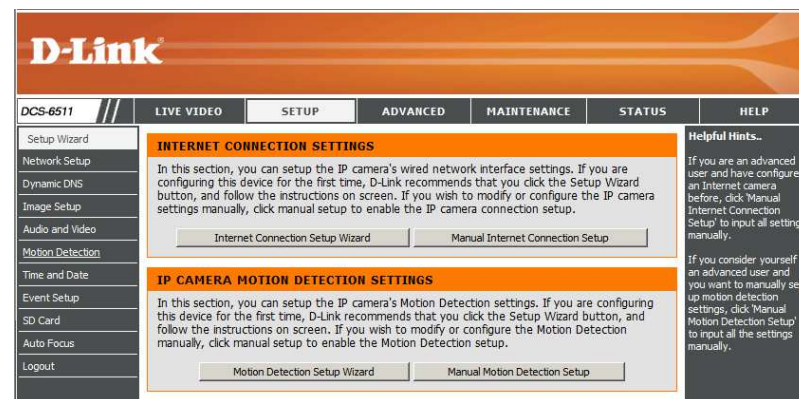


	Auto Pan	Starts the automatic panning function. The ROI will pan from back and forth within the FOV
	Stop	Stops the camera ePTZ motion
	Preset Path	Starts the camera's motion along the predefined path

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 page 22.

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 page 27.

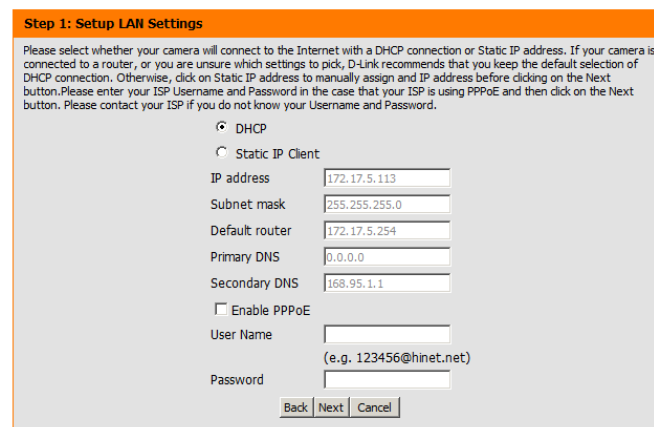
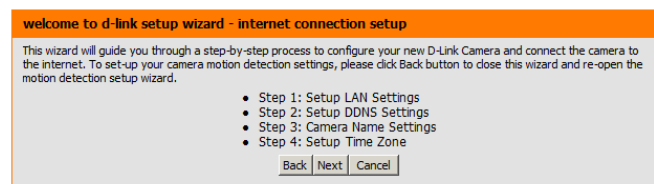


Internet Connection Setup Wizard

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.



Configuration

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

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

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

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

Step 1: Setup LAN Settings

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

☐ DHCP

☒ Static IP Client

IP address

Subnet mask

Default router

Primary DNS

Secondary DNS

☐ Enable PPPoE

User Name

Password

Step 2: Setup DDNS Settings

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

Enable DDNS ☐

Server Address <<

Host Name

User Name

Password

Verify Password

Timeout (hours)

Step 3: Camera Name Settings

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

IP Camera Name

Configuration

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.

Step 4: Setup Time Zone

Please configure the correct time to ensure that all events are triggered, captured and scheduled at the correct time and day and then click on the Next button.

Time Zone

Enable Daylight Saving ☐

Step 5: Setup complete

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

IP Address	DHCP
IP Camera Name	DCS-6510
Time Zone	(GMT+08:00) Taipei
DDNS	Disable
PPPoE	Disable

Motion Detection Setup Wizard

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

Click **Next** to continue.

Step 1

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

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

Please see the **Motion Detection** section on page 43 for information about how to configure motion detection.

Step 2

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

welcome to d-link setup wizard - motion detection

This wizard will guide you through a step-by-step process to configure your camera's motion detection functions. To setup the camera LAN or Internet settings, please click on the Back button to close this wizard and re-open the Camera Setup wizard. Otherwise click on the Next button to begin.

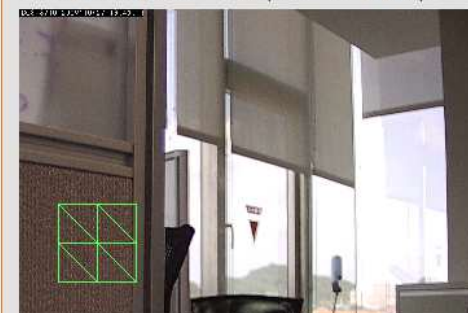
- Step 1: Specify Motion Detection Area Settings
- Step 2: Alerts and Notifications

Back Next Cancel

Step 1: Specify Motion Detection Area Settings

This section will allow you to enable or disable motion detection as well as control the sensitivity of your camera's ability to detect movement.

☒ Enable Video Motion ☐ Snapshot ☒ Video Clip



Sensitivity

50 0~100%

Percentage

5 0~100%

Back Next Cancel

step 2: Motion Detection Schedule

This section allows you to specify the time and dates that your camera records motion. Please note that recorded camera footage will take up space on your hard drive. It is therefore recommended that you have sufficient disk space for Always function.

☒ Sun ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat

Time

☒ Always

☐ From 00 00 To 23 59

Back Next Cancel

Step 3

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

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

Click **Next** to continue.

Step 3: Alerts and Notification

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

☐ Do not notify me

☒ Email

Sender email address

Recipient email address

Server address

User name

Password

Port

☐ FTP

Server address

Port

User name

Password

Remote folder name

Step 4

You have completed the Motion Detection Wizard.

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

Step 4: Setup Complete

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

Motion Detection :	Enable
EVENT :	Video Clip
Schedule Day :	Sun ,Mon ,Tue ,Wed ,Thu ,Fri ,Sat ,
Schedule Time :	Always
Alerts and Notification :	Email

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

Step 4: Setup Complete

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

Changes saved.IP Camera's network is restarting, please wait for 3 seconds ...

Network Setup

Use this section to configure the network connections for your camera. All relevant information must be entered accurately.

LAN Settings: 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.

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

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

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

Default 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.

Enable UPnP: 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.

D-Link

DCS-6511 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard

Network Setup

Dynamic DNS

Image Setup

Audio and Video

Lens Control

Preset

Motion Detection

Time and Date

Event Setup

SD Card

Logout

NETWORK SETUP

You can configure your LAN and Internet settings here.

Save Settings Don't Save Settings

LAN SETTINGS

☒ DHCP

☐ Static IP Client

IP address: 172.17.5.84

Subnet mask: 255.255.255.0

Default router: 172.17.5.254

Primary DNS: 192.168.168.250

Secondary DNS: 192.168.168.201

☒ Enable UPnP presentation

☐ Enable UPnP port forwarding

Forwarding Port: 1024 test

Forwarding Status: UPnP forwarding is inactive

PPPOE SETTINGS

☐ Enable ☒ Disable

User Name:

Password:

Confirm password:

PPPoE Status:

HTTP

HTTP port: 80

Access name for stream1: video1.mpg

Access name for stream2: video2.mpg

Access name for stream3: video3.mpg

HTTPS

HTTPS port: 443

RTSP

RTSP port: 554

Access name for stream1: live1.sdp

Access name for stream2: live2.sdp

Access name for stream3: live3.sdp

TRAFFIC

Maximum Upload Bandwidth: 0 Kilo Bytes Per Second

Maximum Download Bandwidth: 0 Kilo Bytes Per Second

Save Settings Don't Save Settings

Helpful Hints...

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

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

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

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

HTTPS Port is the port you allocate in order to connect to the IP camera via a secure web browser.

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

Traffic - Specifying the maximum download/upload bandwidth for each socket is useful when connecting your device to a busy or heavily loaded network.

*The value '0' means it will not monitor any traffic.

SECURITY

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

User Name: The unique name of your account. You may obtain this information from your ISP.

Password: The password to your account. 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.

Maximum Upload/Download Bandwidth: Specifying the maximum download/upload bandwidth for each socket can be useful when connecting your device to a busy or heavily loaded network. Entering a value of '0' indicates that the camera should not monitor bandwidth. Specifying other values will limit the camera's transfer speed to the specified number of Kilobytes per second.

D-Link

DCS-6511 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard

Network Setup

Dynamic DNS

Image Setup

Audio and Video

Lens Control

Preset

Motion Detection

Time and Date

Event Setup

SD Card

Logout

Helpful Hints...

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

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

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

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

- HTTPS Port in a IP camera connects it with a PC via a secure web browser.

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

Traffic: Specifying the maximum download/upload bandwidth for each socket is useful when connecting your device to a busy or heavily loaded network.

* The value '0' means it will not monitor any traffic.

NETWORK SETUP

You can configure your LAN and Internet settings here.

Save Settings Don't Save Settings

LAN SETTINGS

☒ DHCP

☐ Static IP Client

IP address: 172.17.5.84

Subnet mask: 255.255.255.0

Default router: 172.17.5.254

Primary DNS: 192.168.168.250

Secondary DNS: 192.168.168.201

☒ Enable UPnP presentation

☐ Enable UPnP port forwarding

Forwarding Port: 1024 test

Forwarding Status: UPnP forwarding is inactive

PPPOE SETTINGS

☐ Enable ☒ Disable

User Name:

Password:

Confirm password:

PPPoE Status:

HTTP

HTTP port: 80

Access name for stream1: video1.mjpg

Access name for stream2: video2.mjpg

Access name for stream3: video3.mjpg

HTTPS

HTTPS port: 443

RTSP

RTSP port: 554

Access name for stream1: live1.sdp

Access name for stream2: live2.sdp

Access name for stream3: live3.sdp

TRAFFIC

Maximum Upload Bandwidth: 0 Kilo Bytes Per Second

Maximum Download Bandwidth: 0 Kilo Bytes Per Second

Save Settings Don't Save Settings

SECURITY

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.

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

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

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

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

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

Timeout: Enter DNS Timeout values.

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

The screenshot shows the D-Link DCS-6511 web interface. The top navigation bar includes links for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists various setup options: Setup Wizard, Network Setup, Dynamic DNS, Image Setup, Audio and Video, Lens Control, Preset, Motion Detection, Time and Date, Event Setup, SD Card, and Logout. The main content area is titled 'DYNAMIC DNS' and contains the following text: 'The Dynamic DNS feature allows you to use a domain name that you have purchased (www.yourdomain.com) to access your IP camera with a dynamically assigned IP address. Most broadband Internet service providers assign dynamic (changing) IP addresses. By using a DDNS service, you can enter your domain name to connect to your IP camera no matter what your IP address is.' Below this text is a link: 'Sign up for D-Link's Free DDNS service at www.DLinkDDNS.com'. There are two buttons: 'Save Settings' and 'Don't Save Settings'. Below this is the 'DYNAMIC DNS SETTING' section, which includes: 'Enable DDNS' (checkbox), 'Server Address' (text field with a dropdown menu), 'Host Name' (text field), 'User Name' (text field), 'Password' (text field), 'Verify Password' (text field), 'Timeout' (text field with a unit of hours), and 'Status' (text field). There are also 'Save Settings' and 'Don't Save Settings' buttons at the bottom of this section. On the right side of the interface, there is a 'Helpful Hints...' section with additional information about the DDNS feature.

Image Setup

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

Enable Privacy Mask: The Privacy Mask setting allows you to specify up to 3 rectangular areas on the camera's image to be blocked/excluded from recordings and snapshots.

You may click and drag the mouse cursor over the camera image to draw a mask area.

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

Disable All: Disables all mask areas

Enable All: Enables all mask areas

Reset All: Clears all mask areas.

Mirror: This option horizontally reverses your images 180°.

Flip: This option vertically reverses your images 180°.

Power Line: This option can be used to remove 50/60 Hz flicker.

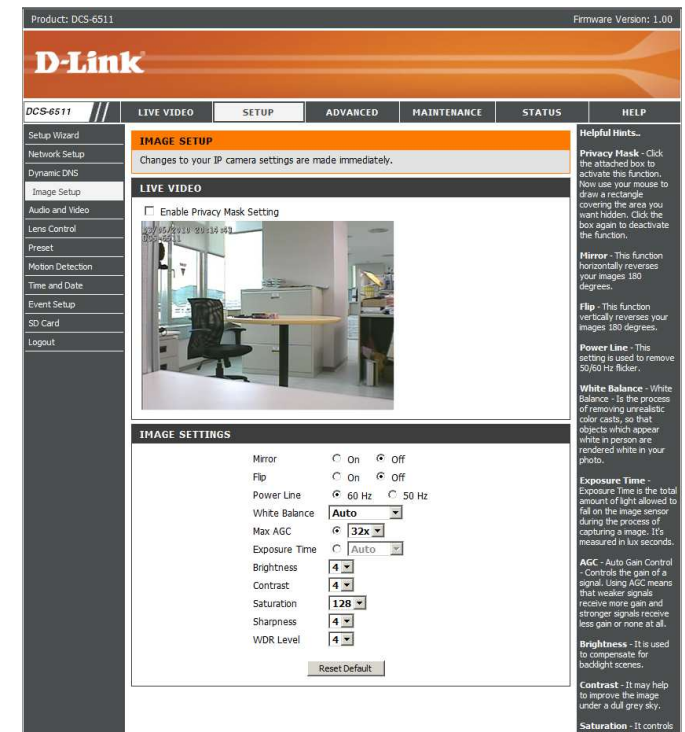
White Balance: This option can be used to remove unrealistic color casts so that objects which appear white in reality are rendered white for images on your screen.

Max AGC: Auto Gain Control - Controls the gain of a signal. Using AGC means that weaker signals receive more gain and stronger signals receive less gain or none at all.

For better performance in low light environments, use a higher AGC value.

For better WDR performance, use a higher AGC value.

To reduce sharpness and noise, use a lower AGC value.



Exposure Time: This setting affects the frame rate of the camera. Auto is the recommended setting, however advanced users may adjust this value if needed. If an AGC value has been set, the exposure time will be automatically set to “Auto”.

Brightness: This option can be used to compensate for backlit scenes.

Contrast: Adjustment of this option may help to improve the image under a dull grey sky.

Saturation: This option controls the strength of color from black and white to bold colors.

Sharpness: This option controls the amount of sharpening applied to the image.

WDR Level: This option allows the camera to operate in environments with high-contrast such as lobby entrances, parking lots, ATMs, loading areas, and more. You may adjust the level from 0 to 8 depending on your particular application.

Audio and Video

You may configure 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. Higher frame size, frame rate and bit rate rate gives better video quality. At the same time, it requires more network bandwidth.

Resolution: This option allows the user to choose the video resolution of the camera between 160x120, 320x240, 640x480, 1280x720, 1280x1024:

- QQVGA @ 160x120 - Typically used on handheld devices.
- QVGA @ 320x240 - Standard resolution for mobile phones and PDAs.
- VGA @ 640x480 - Standard resolution for computer displays.
- 720P @ 1280x720 - Typically used on handheld devices.
- SXGA @ 1280x1024 - Standard resolution for computer displays.

Mode: Select the video compression mode. You may select JPEG, MPEG4, or H.264. H.264 consumes less network bandwidth than JPEG.

Frame Size: Select the frame size. 5 options exist for the sizes of the video display. 160x120 is recommended for mobile viewing and 1280x1024 is recommended for computer viewing.

View Window Area: Select the size for the view window. Be sure to set the view window area to equal or smaller than the frame size so that the EPTZ system functions correctly.

Maximum Frame Rate: A higher frame rate provides smoother motion for videos. Lower frame rates will result in stuttering motion. The maximum number of frames that is displayed in 1 second. 30 fps is the highest video quality for this camera. In general, any frame rate above 15 fps is imperceptible to the human eye.

Product: DCS-6511 Firmware Version: 1.00

D-Link

DCS-6511 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard
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AUDIO AND VIDEO
Higher frame size, frame rate and bit rate rate gives better video quality. At the same time, it requires more network bandwidth.
Save Settings Don't Save Settings

VIDEO PROFILE 1
Mode: H.264
Frame size: 640x480
View window area: 640x480
Maximum frame rate: 30
Video quality: Constant bit rate 2M Fixed quality Excellent

VIDEO PROFILE 2
Mode: JPEG
Frame size: 640x480
View window area: 320x240
Maximum frame rate: 30
Video quality: Excellent

VIDEO PROFILE 3
Mode: MPEG4
Frame size: 1280x720
View window area: 640x480
Maximum frame rate: 30
Video quality: Constant bit rate 1M Fixed quality Excellent

AUDIO SETTINGS
Audio in off
Audio in gain level: 20dB
Audio out off
Audio out volume level: 10
Save Settings Don't Save Settings

SECURITY

Helpful Hints...
For best viewing results on a mobile phone, we suggest setting the Frame Rate to 15fps and the Bit Rate to 64 kbps.
Mode: It can be either JPEG or MPEG4. In JPEG mode, the video frames are independent. However, MPEG4 consumes much less network bandwidth than JPEG.
Frame Size: 5 options exist for the sizes of the video display. It is recommended using 160x120 for mobile viewing and 1280x1024 for computer viewing.
Max frame rate: The maximum number of frames that is displayed in 1 second. 30fps is the highest video quality for the 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.

Video Quality: This limits the maximal refresh 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.

JPEG Quality: Select the image quality level of JPEG images. You may choose **Standard**, **Good**, or **Excellent**.

Audio in off: Select this box to turn off the audio input (microphone).

Audio in gain level: Choose the gain level. You may select 0 dB or 26 dB.

Audio out off: Select this box to turn off the audio output (speaker).

Audio out volume level: Select a level between 1 (lowest) and 10 (highest) for the audio out.

Lens Control

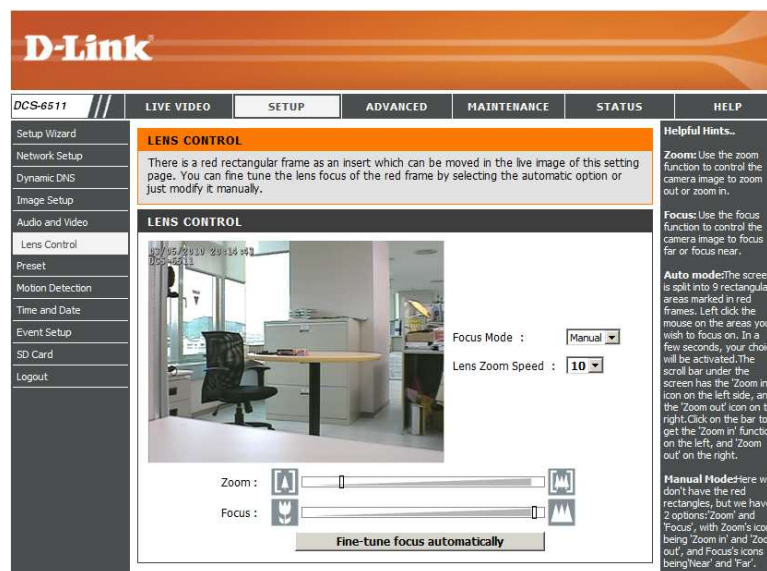
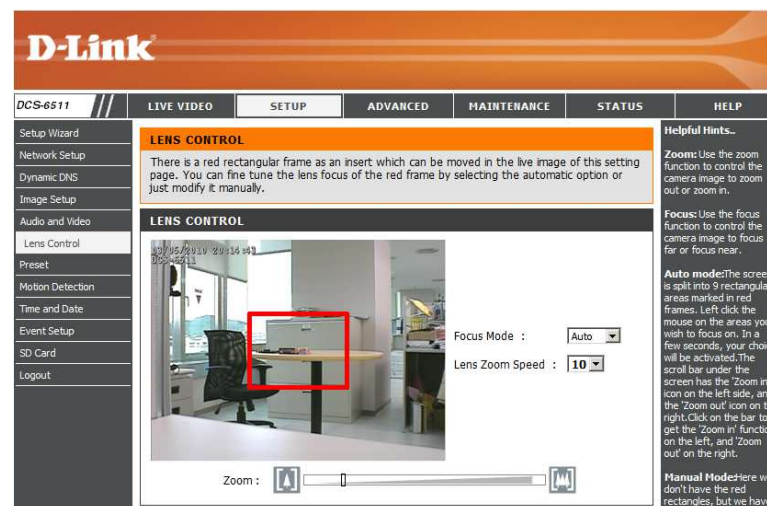
The red rectangular frame can be moved within the live image of this setting page. The camera will automatically adjust the focus based on the region of interest indicated by the red frame.

Focus Mode: You may select Auto to allow the camera to automatically adjust the focus. You may select Manual focus to adjust the focus using the focus slider.

Lens Zoom Speed: Select a speed between 1 and 10 for the camera's optical zoom feature.

Zoom: Use the slider bar to adjust the zoom level.

Focus: When Manual focus is selected, you may use this slider bar to adjust the focus level.



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.

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).

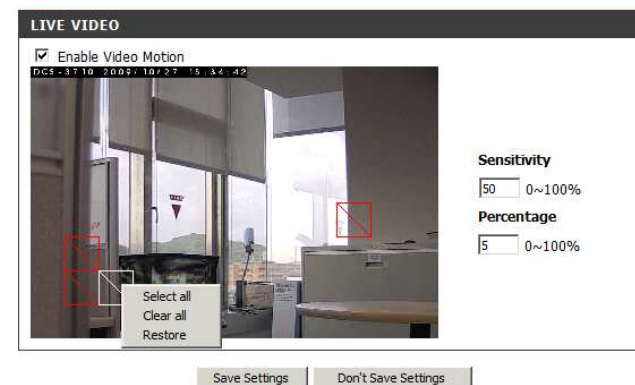
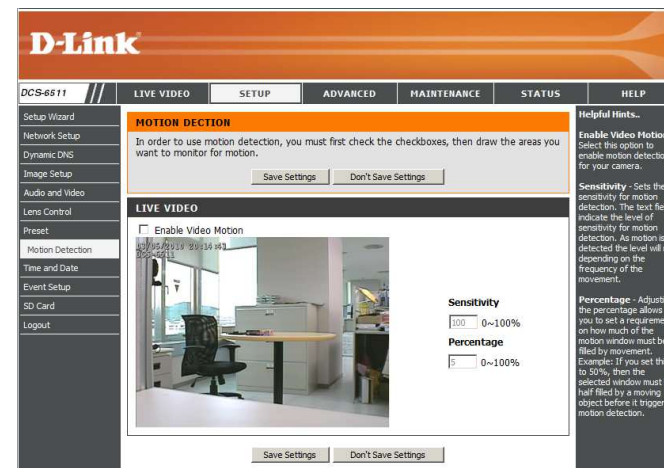
Erase Motion Area: To erase a motion detection area, simply click on the red square that you wish to remove.

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.

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-6511 with an Internet time server. Choose the one that is closest to your location.

Set the Date and Time

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

Copy Your Computer's Time

Settings: This will synchronize the time information from your PC.

The screenshot shows the D-Link DCS-6511 web interface. The top navigation bar includes links for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar lists various setup options: Setup Wizard, Network Setup, Dynamic DNS, Image Setup, Audio and Video, Lens Control, Preset, Motion Detection, Time and Date (selected), Event Setup, SD Card, and Logout.

The main content area is titled "TIME AND DATE" and contains the following sections:

- TIME CONFIGURATION:**
 - Time Zone: (GMT+08:00) Taipei
 - ☐ Enable Daylight Saving
 - ☒ Auto Daylight Saving
 - ☒ Set date and time manually
 - Offset: +2:00
 - Start time: 5:00 Sunday
 - End time: 10:00 Sunday
- AUTOMATIC TIME CONFIGURATION:**
 - ☐ Synchronize with NTP Server
 - NTP Server: ntp.dlink.com.tw
- SET DATE AND TIME MANUALLY:**
 - ☐ Set date and time manually
 - Year: 2010, Month: 1, Day: 18, Hour: 15, Minute: 54, Second: 51
 - Copy Your Computer's Time Settings

At the bottom of the main content area are "Save Settings" and "Don't Save Settings" buttons. On the right side, there is a "Helpful Hints..." section with additional information about timekeeping and NTP servers.

Event Setup

The Event Setup page includes four 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 drop-down menu of event, server or media, click **Delete**.

3. Click on the item name to pop up a window for modifying.

Note: You can add up to four events, five servers, and five media fields.

D-Link

DCS-6511 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

Setup Wizard
Network Setup
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Logout

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 three events and two recording. There can be at most five server and five media configurations.

SERVER

Name	Type	Address/Location
Add	▼	Delete

MEDIA

Media freespace: 6700KB

Name	Type
Add	▼ Delete

EVENT

Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Trigger
Add	▼									Delete

RECORDING

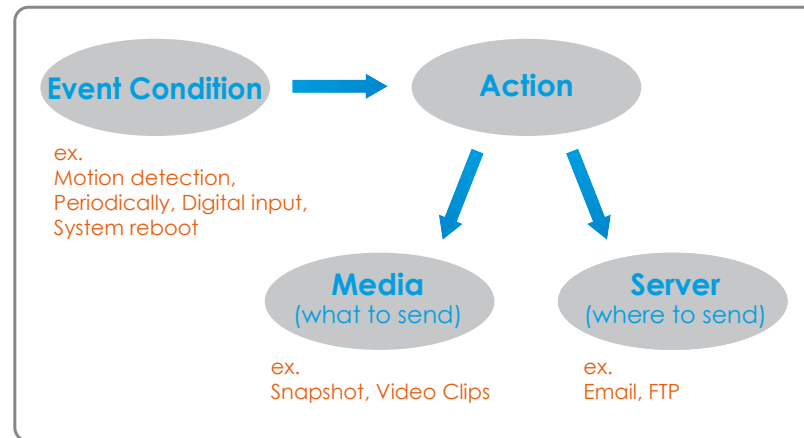
Name	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time	Source	Destination
Add	▼									Delete	

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.

Application

In a typical application, when motion is detected, the DCS-6511 Network Camera sends images to a FTP server or via e-mail as notifications. As shown in the illustration below, an event can be triggered by many sources, such as motion detection or external digital input devices. When an event is triggered, a specified action will be performed. You can configure the Network Camera to send snapshots or videos to your e-mail address or FTP site.



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

Add Server

Configure up to 5 servers to store media.

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.

D-Link

DCS-6511 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

SERVER

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

test Save Settings Don't Save Settings

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

Helpful Hints..

"Server name" The unique name for server. There are four kinds of servers supported. They are email server, FTP server, HTTP server and network storage.

Email server: "Sender email address" The email address of the sender. "Recipient email address" The email address of the recipient.

FTP server: "Remote folder name" Granted folder on the external FTP server. The string must conform to that of the external FTP server. Some FTP servers cannot accept preceding slash symbol before the path without virtual path mapping. Refer to the instructions for the external FTP server for details. The folder privilege must be open for upload. "Passive Mode" Check it to enable passive mode in transmission.

Network storage: Only one network storage is supported. "Network storage location" The path to upload the media. "Workgroup" The workgroup for network storage.

SD card: Use the SD card for recording media.

Add Media

There are three types of media, **Snapshot**, **Video Clip** and **System Log**.

Media Name: Enter a unique name for media.

Snapshot: Select this option to enable snapshots.

Source: The stream source: **Profile 1**, **Profile 2** or **Profile 3**.

Send pre-event image(s) [0~4]: The number of pre-event images.

Send post-event image(s) [0~7]: The number of post-event images.

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.

Video clip: Select this option to enable video clips.

Source: The source of the profile: **profile1**, **profile2**, or **profile3**.

Pre-event recording: The interval of pre-event recording in seconds.

Maximum duration: The maximal recording file duration in seconds.

Maximum file size: The maximal file size would be generated.

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

System log: Select this option to save events to the camera system log.

D-Link

DCS-6511 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

MEDIA

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

Save Settings Don't Save Settings

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 [100~3000]

File Name Prefix:

☐ System log

Save Settings Don't Save Settings

Helpful Hints.

"Media name" The unique name for media. There are three kinds of media. They are snapshot, video clip and system log.

Snapshot:

"Source" The source of profile, profile1 or profile2.

"Send Pre-event images" The number of pre-event images.

"Send Post-event images" The number of post-event images.

"File name prefix" The prefix name will be added on the file name of the snapshot images.

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

Video clip:

"Source" The source of profile, profile1 or profile2.

"Pre-event recording" The interval of pre-event recording in seconds. There are two limitations for video clip file.

"Maximum duration" The maximal recording file duration in seconds.

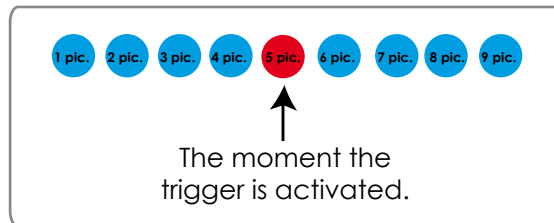
"Maximum file size" The maximal file size would be generated.

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

Specify to capture the number of images after a trigger is activated. A maximum of seven images can be generated.

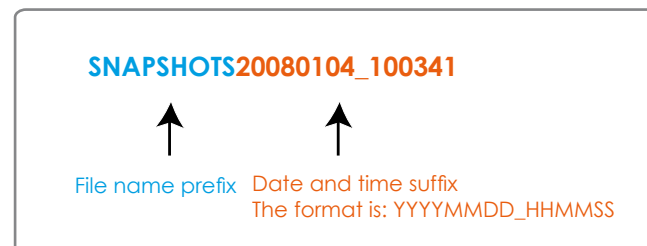
For example:

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.



Add a date and time suffix to the file name

Select this option to add a date and time to the file name suffix.



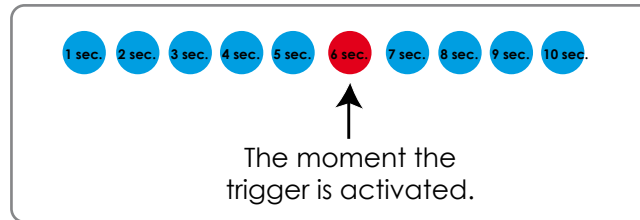
Maximum duration

Specify the maximal recording duration in seconds. You can set up to ten seconds.

For example:

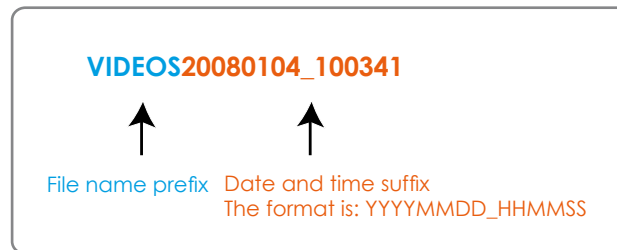
Configuration

If the Pre-event recording is set to five seconds and the Maximum duration is set to ten seconds, the Network Camera continues to record for another four seconds after a trigger is activated.



File name prefix

Enter the text that will be added at the beginning of the file name.



Add Event

Create and schedule up to three events with their own settings here.

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.

Digital Input: The external digital input trigger input to the camera.

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

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

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

Trigger D/O: Select to trigger the digital output for a specific number of seconds when an event occurs.

Add Recording

Here you can configure and schedule the recording settings.

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 volume size between 1MB and 200GB 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 cyclic 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 cyclic recording.

Please note that if there is not enough free space, the recording will stop. Before you set up this option please make sure that sufficient free space is available. It is better to not save other files in the same folder as recordings.

Size of each file

for recording: File size for each recording file. You may input the value in the range of 200-5000.

File Name Prefix: The prefix name will be added on the file name of the recording file(s).

D-Link

DCS-6511 // LIVE VIDEO SETUP ADVANCED MAINTENANCE STATUS HELP

RECORDING

You can setup schedule recording to network storage with your specify week day and time period.

Save Settings Don't Save Settings

RECORDING

Recording entry name:

☐ Enable this recording

Priority:

Source:

RECORDING SCHEDULE

☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat

Time

☒ Always

☐ From To

RECORDING SETTINGS

Destination:

Total cycling recording size: Kbytes [1000~200000000]

Size of each file for recording: Kbytes [200~5000]

File Name Prefix:

Save Settings Don't Save Settings

Helpful Hints..

Recording : Enable this option if you want to upload the recording to a shared folder on the network.

Recording schedule : Select the day(s) according to when you want the camera to make a video clip.

Always : This enables the 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 "\\DNSIP\CamRecord". If the network storage need authentication, please enter your user name and password here.

Note: Please Format CF card before use. The entire data in the CF card will be erased after formatting.

Note: Before you unplug the SD card from the slot, please select "Remove SD card" to ensure that your data is secure.

SD Card

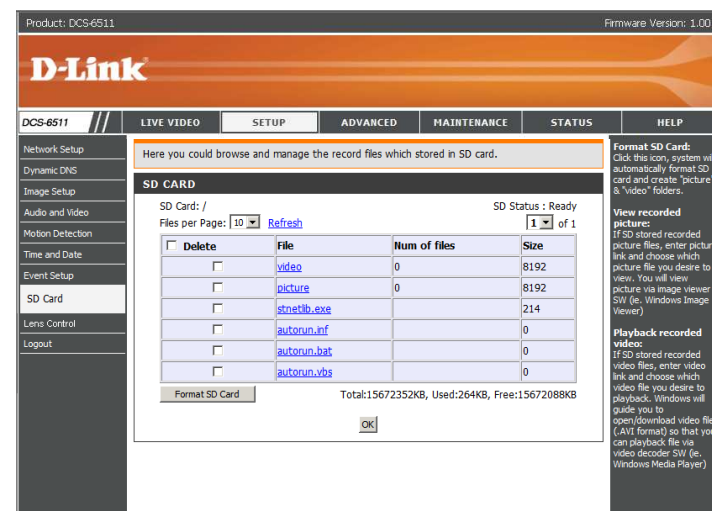
Here you may browse and manage the recorded files which are stored on the SD card.

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

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

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

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



Advanced

Digital Input/Output

This screen allows you to control the behavior of digital input and digital output devices. The I/O connector provides the physical interface for digital output (DO) and digital input (DI) that is used for connecting a diversity of external alarm devices such as IR-Sensors and alarm relays. The digital input is used for connecting external alarm devices and once triggered images will be taken and e-mailed.

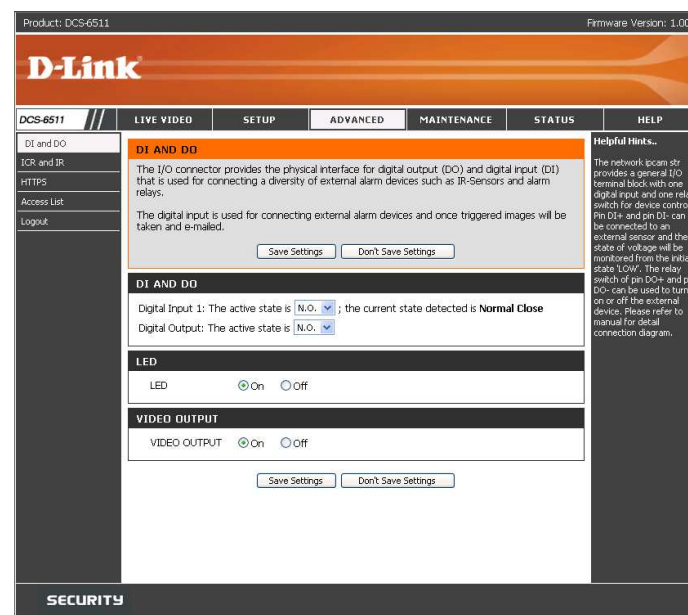
Select D/I or D/O Mode: The camera will send a signal when an event is triggered, depending upon the type of device connected to the DI circuit.

N.C. stands for **Normally Closed**. This means that the normal state of the circuit is closed. Therefore events are triggered when the device status changes to **Open**.

N.O. stands for **Normally Open**. This means that the normal state of the circuit is open. Therefore events are triggered when the device status changes to **Closed**.

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

Video Output: Enable/ disable the BNC terminal TV output signal.



ICR and IR

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

Automatic: The Day/Night mode is set automatically. Generally, the camera uses Day mode and switches to Night mode when needed.

Day Mode: Day mode enables the IR Cut Filter.

Night Mode: Night mode disables the IR Cut Filter.

Schedule Mode: Set up the Day/Night mode using a schedule. The camera will enter Day mode at the starting time and return to Night mode at the ending time.

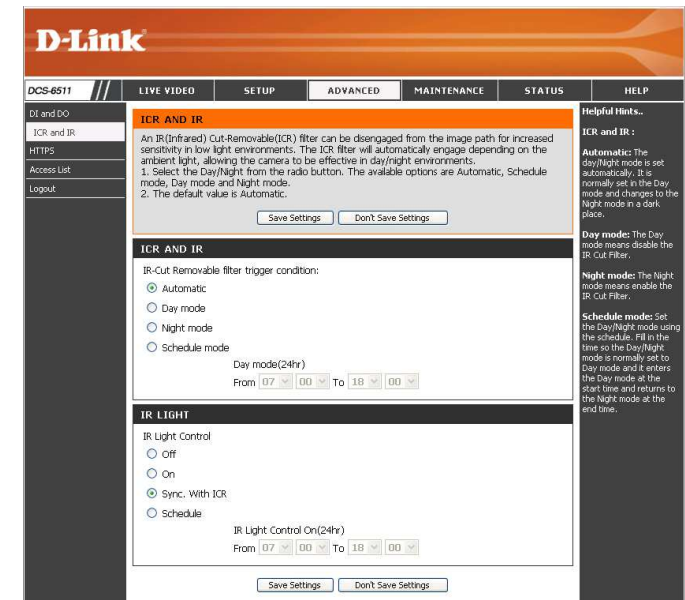
IR Light Control: The camera can enable or disable the IR (infrared) light according to your preferences. This setting provides additional controls depending on your specific application.

Off: The IR light will always be off.

On: The IR light will always be on.

Sync: The IR light will turn on when the ICR sensor is on.

Schedule: The IR light will turn on or off according to the schedule that you specify below.



HTTPS

This page allows you to install and activate an HTTPS certificate for secure access to your camera.

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**.

D-Link

DCS-6511 // LIVE VIDEO SETUP **ADVANCED** MAINTENANCE STATUS HELP

DI and DO
ICR
HTTPS
Access List
Logout

Helpful Hints...
 Enable HTTPS secure connection: allows you to enable HTTPS service.
 HTTP & HTTPS: This is default enable.
 HTTPS only: Select this will redirect all the HTTP connection to HTTPS pages automatically.
 Note:
 1. The certificate can't be removed while the HTTPS is still enable. To remove the certificate you have to uncheck the "Enable HTTPS secure connection" first.

HTTPS
 To enable HTTPS, you have to create and install certificate first.
 Save Settings Don't Save Settings

HTTPS
☐ Enable HTTPS secure connection
 Create certificate method
☒ Create self-signed certificate automatically
☐ Create self-signed certificate manually
☐ Create certificate request and install
 Create certificate: Create

CERTIFICATE INFORMATION
 Status No installed
 CSR Property Certificate Property Remove
 Save Settings Don't Save Settings

Access List

Here you can set access permissions for users to view your DCS-6511.

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.

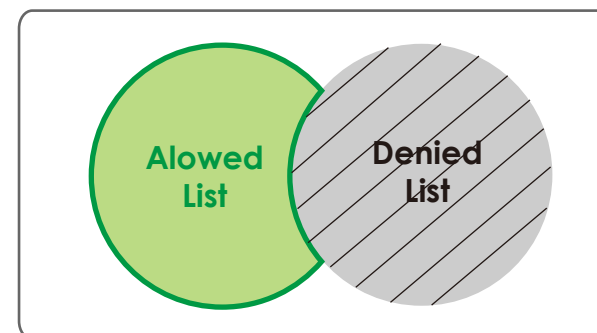
Delete allow list: Remove the customized setting from the Allow List.

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

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

For example:

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



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 the unique name and configure the OSD setting 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 includes in the list, but please reserve at least one as guest.

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.

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

The screenshot shows the D-Link DCS-6511 Maintenance page. The top navigation bar includes tabs for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE (selected), STATUS, and HELP. The left sidebar contains links for Admin, System, Firmware Upgrade, and Logout. The main content area is divided into four sections:

- ADMIN:** A message stating: "Here you can change the administrator's password for your IP camera as well as add and/or delete user account(s). You can configure the information, such as IP camera's name and time via this page. You can also enable the OSD (On-Screen Display) feature in order to display the IP camera name and time stamp for your video recordings." Below this is the **ADMIN PASSWORD SETTING** section with fields for New Password (8 characters maximum) and Retype Password, and a Save button.
- ADD USER ACCOUNT:** Fields for User Name (20 users maximum), New Password (8 characters maximum), and Retype Password, with an Add button.
- USER LIST:** A section with a User Name dropdown menu (showing "-- User list --") and a Delete button.
- DEVICE SETTING:** Fields for IP camera Name (30 characters maximum), a checkbox for Enable OSD (checked), a Label field (containing "DCS-6510 Emul Test"), and a Show time checkbox (checked). A Save button is at the bottom.

On the right side, there is a **Helpful Hints...** section with text: "Enabling OSD, the IP camera name and time will be displayed on the video screen for the user." and "For security purposes, it is recommended that you change the password for your administrator account. Be sure to write down the new password to avoid having to reset the IP camera in the event that it is forgotten."

Backup and Restore

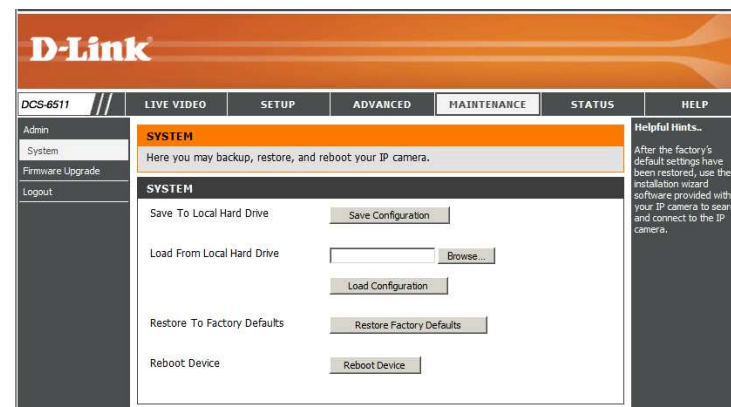
In this section, you may backup, restore and reset the camera configuration, or reboot the camera.

Save To Local Hard Drive: You may save and document your current settings into 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-6511, 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.

The screenshot shows the D-Link DCS-6511 web interface. The top navigation bar includes links for LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The left sidebar contains links for Admin, System, Firmware Upgrade (which is highlighted), and Logout. The main content area is titled 'FIRMWARE UPGRADE' and contains the following text: 'A new firmware upgrade may be available for your IP camera. It is recommended to keep your IP camera firmware up-to-date to maintain and improve the functionality and performance of your internet IP camera. Click here [D-Link Support Page](#) to check for the latest firmware version available.' Below this, it says: 'To upgrade the firmware on your IP camera, 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. Once you have found and opened the file using the browse button, click the "Upload" button to start the firmware upgrade.' The 'FIRMWARE INFORMATION' section displays: 'Current Firmware Version: 0.00.00' and 'Current Product Name: DCS-6510 A1'. At the bottom, the 'FIRMWARE UPGRADE' section has a 'File Path:' label, a text input field, and two buttons: 'Browse...' and 'Upload'. A 'Helpful Hints...' sidebar on the right provides additional information about firmware updates.

Status

Device Info

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

DCS-6511

///

LIVE VIDEO

SETUP

ADVANCED

MAINTENANCE

STATUS

HELP

Device Info

Log

Logout

DEVICE INFO

All of your network connection details are displayed on this page. The firmware version is also displayed here.

INFORMATION

IP camera Name

DCS-6511

Time & Date

Mon Mar 15 22:53:13 2010

Firmware Version

0.10.00

MAC Address

00:0C:0C:0C:50:02

IP Address

172.17.5.67

IP Subnet Mask

255.255.255.0

Default Gateway

172.17.5.254

Primary DNS

192.168.168.250

Secondary DNS

192.168.168.201

PPPoE

Disable

DDNS

Disable

TV Output Mode

NTSC

Helpful Hints...

This page displays all the information about the IP camera and network settings.

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-6511 // 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. 2010-04-15 18:06:53 admin LOGIN OK FROM 172.17.5.77
2. 2010-01-01 00:00:05 SYSTEM BOOTING
3. 2010-04-12 17:28:21 admin FROM 172.17.5.71 SET ALL IMAGE DATA DEFAULT
4. 2010-04-12 17:25:47 admin LOGIN OK FROM 172.17.5.71
5. 2010-01-01 00:00:06 SYSTEM BOOTING
6. 2010-04-08 23:13:28 admin FROM 172.17.5.168 SET TIMESTAMP FORMAT 1
7. 2010-04-08 23:13:28 admin FROM 172.17.5.168 CHANGE TITLE DCS-6510 A
8. 2010-04-08 23:02:00 admin FROM 172.17.5.168 SET ALL IMAGE DATA DEFAULT
9. 2010-04-08 22:59:45 admin LOGIN OK FROM 172.17.5.168
10. 2010-01-01 00:04:04 admin FROM 172.17.5.168 SET NTP IP
11. 2010-01-01 00:00:24 admin LOGIN OK FROM 172.17.5.168
12. 2010-01-01 00:00:05 SYSTEM BOOTING
13. 2010-01-01 00:00:05 SYSTEM BOOTING
14. 2010-01-01 00:06:28 admin LOGIN OK FROM 192.168.0.188
15. 2010-01-01 00:03:08 SYSTEM BOOTING
16. 2010-01-01 00:00:45 admin LOGIN OK FROM 192.168.0.188
17. 2010-01-01 00:00:05 SYSTEM BOOTING
18. 2010-01-01 00:01:37 admin LOGIN OK FROM 192.168.0.188
19. 2010-01-01 00:00:05 SYSTEM BOOTING
20. 2010-01-01 00:00:05 SYSTEM BOOTING

First Page Previous 20 Next 20
Clear Download

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

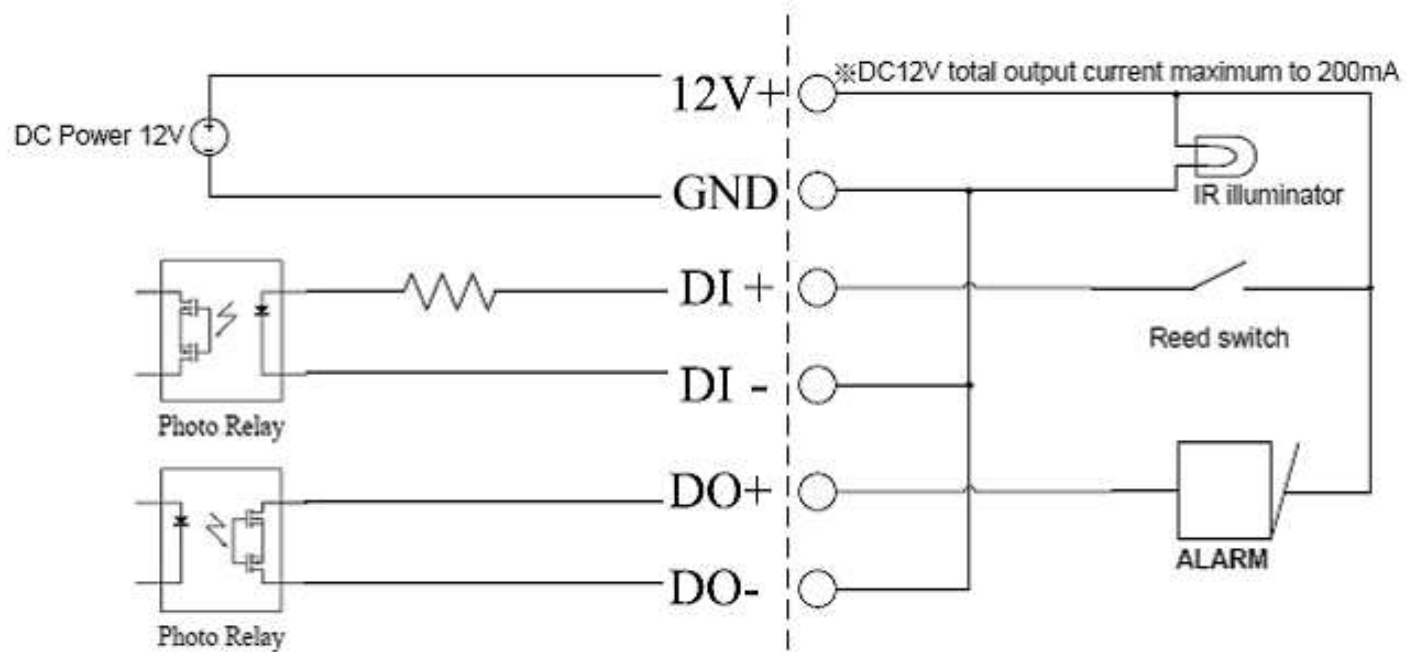
Help

This page provides helpful information regarding camera operation.

The screenshot shows the D-Link DCS-6511 web interface. At the top is the D-Link logo. Below it is a navigation bar with tabs: LIVE VIDEO, SETUP, ADVANCED, MAINTENANCE, STATUS, and HELP. The HELP tab is selected. On the left side, there is a sidebar with 'Help Menu' and 'Logout' links. The main content area displays the 'HELP MENU' with a list of links: LIVE VIDEO, SETUP, MAINTENANCE, ADVANCED, and STATUS. Below these are sections for 'LIVE VIDEO' (Camera), 'SETUP' (Setup Wizard, Network Setup, Dynamic DNS, Image Setup, Audio and Video, Motion Detection, Time and Date, Event Setup, SD Card), 'ADVANCED' (DI and DO, RS-485, ICR, HTTPS, Access List), 'MAINTENANCE' (Admin, System, Firmware Upgrade), and 'STATUS'.

DCS-6511		LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Help Menu Logout		HELP MENU - LIVE VIDEO - SETUP - MAINTENANCE - ADVANCED - STATUS LIVE VIDEO - Camera SETUP - Setup Wizard - Network Setup - Dynamic DNS - Image Setup - Audio and Video - Motion Detection - Time and Date - Event Setup - SD Card ADVANCED - DI and DO - RS-485 - ICR - HTTPS - Access List MAINTENANCE - Admin - System - Firmware Upgrade STATUS					

DI/DO Schematics



Technical Specifications

GENERAL SPECIFICATION

- 1/3" Megapixel WDR Progressive Scan CMOS
- WDR SN ratio: 100 dB
- Motorized varifocal autofocus lens 3.3 ~ 12 mm, F1.4 ~ F360C

VIEW ANGLE

- Vertical 63.6° (W) ~ 17.9° (T)
- Horizontal 89.8° (W) ~ 23.9° (T)
- Diagonal 125.7° (W) ~ 29.9° (T)

IR LED

- 20 meter illumination distance with 12 LEDs and light sensor

MINIMUM ILLUMINATION:

- Color: 0.2 lux @ F1.4
- B/W: 0.02 lux @ F1.4
- B/W: 0 lux with IR LED on

3-AXIS ANGLE:

- Vertical: 120
- Horizontal: 340
- Rotational: 300

SYSTEM REQUIREMENTS

- Operating System: Microsoft Windows XP, Vista, Windows 7
- Internet Explorer 6 or above, Firefox 3.5 or above, Safari 4

NETWORKING PROTOCOL

- IPv4, DHCP, ARP, DNS, TCP/IP, DDNS (D-Link), HTTP, HTTPS, UPnP™ Port Forwarding, Samba, SMTP, PPPoE, NTP (D-Link), FTP, RTP, RTSP, UDP, RTCP, ICMP, 3GPP

BUILT-IN NETWORK INTERFACE

- 10/100BASE-TX Fast Ethernet

VIDEO CODECS

- H.264
- MPEG4
- MJPEG
- JPEG for still images

RESOLUTION (UP TO 30 FPS)

- 1280x1024
- 1280x720
- 640x480
- 320x240
- 160x120

VIDEO FEATURES

- Adjustable image size, quality and bit rate
- Time stamp and text overlays
- 3 configurable privacy masks
- Flip & mirror
- ePTZ

AUDIO CODECS

- G.726

POWER INPUT

- 12 V DC 1.25 A
- 24 V AC
- 802.3af PoE

PHYSICAL AND ENVIRONMENTAL

- IP-66 weather-proof standard
- IK-10 vandal-proof standard
- Built-in heater and fan

WEIGHT

- 1030.5 g

STANDARD MOUNTING BRACKET

- Height: 23 mm (0.9 inches)
- Diameter: 183 mm (7.2 inches)
- Weight: 400 g (0.9 lbs)

OPERATING TEMPERATURE

- -40 to 50 °C (-40 to 122 °F)

STORAGE TEMPERATURE

- -20 to 70 °C (-4 to 158 °F)

RELATIVE HUMIDITY

- 20% to 80% non-condensing

CERTIFICATIONS

- FCC
- IC
- C-Tick
- CE
- LVD

MOUNTING ACCESSORIES (NOT INCLUDED WITH CAMERA)

DCS-34-2

- Height: 201 mm (7.9 inches)
- Diameter: 150 mm (5.9 inches)
- Weight: 665 g (1.45 lbs)

DCS-34-3

- Height: 253 mm (9.96 inches)
- Diameter: 150 mm (5.9 inches)
- Weight: 770 g (1.7 lbs)

DIMENSIONS

