USER MANUAL

DCS-6616

VERSION 1.0



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	July 22, 2011	DCS-6616 Revision A1 with firmware version 2.00

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Package Contents

- DCS-6616 High Speed Dome Network Camera
- Data Cable for Video, Audio, Alarm, and Power
- Power Adapter
- Power Cable
- Optical Cover
- Manual and Software on CD
- Quick Installation Guide
- Screws
- Mounting Bracket and Screws

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

System Requirements

- CPU: Pentium 4 1.4GHz or above
- Hard Disk: 40GB or above
- Memory: 256MB or above
- Browser: Internet Explorer 6.0 or above
- Video Resolution: SVGA or XGA (1024x768 or above)

Introduction

The DCS-6616 Speed Dome Network Camera is a professional IP surveillance solution which connect to your network to provide high-quality live video over the Internet. The camera apparatus supports precise high-speed pan/tilt/zoom functionality for extensive monitoring, and object tracking.

Hardware Overview



Resetting the Camera

The DCS-6616 contains both digital and mechanical components. Thus, if any problems are experienced with the camera, there are two different reset options depending on the type of problem.

Mechanical Reset

If the mechanical PTZ controls ever stop responding or seem to be locked up, you may reset the mechanical portion of the camera using the communication pin array at the base of the device.

- 1. Use a small tool to move switch 5 to the "off" position.
- 2. Plug the camera in for one minute and allow the device to initialize.
- 3. Return the pin back to its original "on" position.
- 4. Plug in the camera, and the device should successfully initialize.

Digital Reset

If the camera's web user interface ever becomes unresponsive, or if the administrator password is forgotten, it may become necessary to reset the device firmware to its original factory settings.

- 1. Press and hold the green button on the base of the camera for 10 seconds.
- 2. Allow a few minutes for the camera to re-initialize factory default settings.





Mount Instructions

Detach the Decoration Ring from the Hard Ceiling Mount Bracket.

Align the three holes on the Mount Bracket, mark the screws locations on the ceiling.

Drill three pilot holes into the ceilling and hammer the plastic anchors into the holes.

Fix the Mount Bracket with three screws



Insert the fixing plate into the groove as shown below.

Align the three holes to screw the fixing plate to the dome bas.

Connect the cable connector and Ethernet cable to the dome base.

Align plate A and plate B, then use those three hole to hook the Network Camera on the ceiling mount bracket.



Tighten the screw on the fixing plat.

Align the three holes to mount the decoration ring.



Configuration with Wizard

Insert the DCS-6616 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.



InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
D-Link Software License Agreement General Terms
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING
PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THIS SOFTV D-LINK SYSTEMS, INC. ("D-LINK") WILL LICENSE THE SOFTWARE TO YOU I YOU FIRST ACCEPT THE TERMS OF THIS AGREEMENT. BY INSTALLING A
USING THE SOFTWARE YOU AGREE TO THESE TERMS. IF YOU DO NOT A TO THE TERMS OF THIS AGREEMENT, PROMPTLY RETURN THE UNUSED
SOFTWARE TO THE PARTY (D-LINK OR ITS AUTHORIZED RESELLER) FRO
Do you accept all the terms of the preceding License Agreement? If you choose N setup will close. To install Setup Wizard SE, you must accept this agreement.
InstallShield
Pack Yes

Choose Destination Location Select folder where Setup will install files.
Select todel where Setup will install thes.
Setup will install Setup Wizard SE in the following folder. To install to this folder, click Next. To install to a different f another folder.
Destination Folder C:\Program Files\D-Link\SetupWizardSE
InstallShield
er, click Next. To install to a different f D-Link\SetupWizardSE

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

6	Accessories	•
6	D-Link	▶ 📻 D-ViewCam 🔹 💕 D-Link D-ViewCam
🛱 Programs 🕨	-	Setup Wizard SE
🙆 Documents 🔹 🖡	-	
🚱 Settings 🔹 🖡	FileZilla FTP Client	
Search		
 Help and Support Run 	Audacity	
	j Internet Explorer	
O Shut Down	Opera	
街 Start 🔞 🍷 🕞 🧕	Windows Search	

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.	D-Link Marine Balant & Proper	SECURICAM Network
Click the Wizard button to continue.	Wizard MAC Address	Current IP Address Device Name 192168.1.185 DCS-6616
	Search	
	Link	
	About	
	Exit	
	D-Link	
		SECURICAM Network
	Set up an Admin ID and P	assword to secure your camera.
	Click Next to continue.	
	Admin ID	Password
	New ID	Change New Password
Enter the Admin ID and password. When logging in for the first time, the default Admin ID is admin with the password left blank.	Reconfirm	Reconfirm
Click Next , to proceed to the next page.		
Click Wext, to proceed to the next page.		Back Next Exit

Set IP Address DHCP Static IP IP Address 192,168,1.185 Subnet Mask 255,255,255,0			
Static IP IP Address <u>192.168.1.185</u>		Set IP Address	
IP Address 192.168.1.185	DHCP		
	 Static IP 		
Subnet Mask 255.255.255.0	IP Address	192.168.1.18	85
	Subnet Mas	255.255.255	i.0
Default Gateway 192.168.1.1	Default Gate	way 192.168.1.1	
Primary DNS 192.168.1.1	Primary DNS	192.168.1.1	
Secondary DNS 192.168.1.1	Secondary [INS 19216811	

D

		_
Admin ID	admin	
Password		
IP Address	192.168.0.102	
Subnet Mask	255.255.255.0	
Primary DNS	192.168.0.1	
Secondary DNS	192.168.0.1	
The Setup Wizard has cor your settings. Click 'Resta and reboot the Internet Ca	art' to save your current	

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. -

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

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**

		Accessories	۲				
	fiii	D-Link	Þ	6	D-ViewCam	•	
Programs +	6	ESTsoft	۲	â	Setup Wizard SE	•	D-Link Setup Wizard SE
Documents		ffdshow	۲	\square			Uninstall Setup Wizard SE
		FileZilla FTP Client	۲			-	
		Google Chrome	۲				
Beard Help and Support	6	ZDT	۲				
Run		Audacity					
	۲	Internet Explorer					
Shut Down	0	Opera					
🍠 Start 👩 🧕 闷 🕲	P	Windows Search					

	MAC Address	Current IP Address	Device Name
	00.1.c.f0.d3.fb.0e	192.168.1.185	DCS-6616
Wizard			
Search			
Link			
About			
About			
Exit			



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.





D-ViewCam Setup Wizard

D-ViewCam software is included for the administrator to manage multiple D-Link IP cameras remotely. You may use the software to configure all the advanced settings for your cameras. D-ViewCam is a comprehensive management tool for IP surveillance.

Insert the CD-ROM into the CD-ROM drive. Click "Install D-ViewCam Software" from menu, and select "D-ViewCam" to install the VMS software.

Follow the Installation Wizard to install D-ViewCam.



D-Link D-ViewCam - InstallSh	ield Wizard	X
	Welcome to the InstallShield Wizard for D-Link D-ViewCam	
	The InstallShield Wizard will install D-Link D-ViewCam on your computer. To continue, click Next.	
	< Back Cancel	

Click **Finish** to complete the installation.

To start D-ViewCam, select **Start > All Programs > D-Link D-ViewCam > Main Console**.

For more detail operation of using D-ViewCam software, please refer to D-ViewCam Manual.





Live Video

This page displays live video and allows you to adjust and save camera images.

On-screen The date, time, and camera name are displayed at the **Display (OSD):** top left corner of the live video display.



Digital Input

Indicators (1-8): These indicators blink when digital input is received.

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Motion Trigger

Indicator: This indicator blinks when motion is detected.

Recording Indicator: This indicator blinks when the camera is recording.

Navigation Pad: The navigation pad is used to carry out pan, tilt, and (Up/Down/Left/ zoom functions. The camera can be aimed and the image Right/Home adjusted using this pad.

Zoom In/Zoom Out)

Note: The **Home** position of the dome camera not configured by default. Please see page 35 for information about how to configure the home position.

- **Pan Speed:** There are 16 speeds for pan control. 1 is the slowest and 16 is the fastest.
- **Tilt Speed:** There are 16 speeds for pan control. 1 is the slowest and 16 is the fastest.



Section 3 - Configuration



AutoPan: Starts a pre-defined AutoPan movement. Select the number corresponding a predefined path.



Sequence: Starts a pre-defined sequence movement. Select the number corresponding a predefined path.



Cruise: Starts a pre-defined cruise movement. Select the number corresponding a predefined path.



Autofocus

(AF): Click this button to enable automatic focus.



Manual

Focus (MF): Click this button to manually focus the camera image.



Focus: Use these controls to focus the camera image.

Language: You may select English or Traditional Chinese.



Fullscreen: Loads the live camera image in fullscreen.



Snapshot: Saves a snapshot of the image to the specified location.



Start/Stop Begins recording to the specified location. Pressing this **Recording:** button a second time will stop the recording.



Set Storage Designates a folder where snapshots and video will be Folder: saved.



Start/Stop

Digital Output: Sends a signal to the attached digital device.



Section 3 - Configuration

📃 🖻 🖪

Profile 1-3: Select one of three predefined video profiles to display in the Live Video window.



Start/Stop

Listening: Click this button to begin listening to the audio feed from a microphone connected to the camera (audio in).



Start/Stop

Talking: Click this button to begin sending audio to speakers connected to the camera (audio out).

GoTo -- Preset List--

Go To (Preset): Selecting a preset from this list will load the preset in the Live Video windows.

Setup

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 27.

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 37.



welcome to d-link setup wizard - internet connection setup

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.

	ocess to configure your new D-Link Camera and connect the camera to on settings, please click Back button to close this wizard and re-open the
 Step 	1: Setup LAN Settings
	2 2: Setup DDNS Settings 2 3: Camera Name Settings
	o 4: Setup Time Zone
	Back Next Cancel
Step 1: Setup LAN Settings	
connected to a router, or you are unsure which set DHCP connection. Otherwise, click on Static IP addr	he Internet with a DHCP connection or Static IP address. If your camera is tings to pick, D-Link recommends that you keep the default selection of ess to manually assign and IP address before clicking on the Next ord in the case that your ISP is using PPPOE and then click on the Next your Username and Password.
OHCP	
 Static IP 	Client
IP address	172.17.5.113
Subnet mask	255.255.255.0
Default route	er 172.17.5.254
Primary DNS	0.0.0.0
Secondary D	NS 168.95.1.1
Enable Pl	PPoE
User Name	
Password	(e.g. 123456@hinet.net)
]	Back Next Cancel

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.

IP address	172.17.5.113
Subnet mask	255.255.255.0
Default router	172.17.5.254
Primary DNS	0.0.0.0
Secondary DNS	168.95.1.1
Enable PPPoE	
User Name	
	(e.g. 123456@hinet.net)
Password	
Back	Next Cancel

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, dick on Static IP address to manually assign and IP address before dicking 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

Step 1: Setup LAN Settings

Step 2: Setup DDNS Settings	
	i would like the camera to update your IP address automatically, enable DDNS and ease click on the Next button to continue.
Enable DDNS	
Server Address	www.dlinkddns.com
Host Name	
User Name	
Password	
Verify Password	
Timeout	24 (hours)
	Back Next Cancel

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 dicking on the Next button.
IP Camera Name DCS-6616
Back Next Cancel

Section 3 - Configuration

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

Step 4: Setup Time Zone
Please configure the correct time to ensure that all events are triggered, captured and scheduled at the correct time and day and then click on the Next button.
Time Zone (GMT-08:00) Pacific Time (US & Canada)
Enable Daylight Saving 🗖
Back Next Cancel

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

Click **Apply** to save your settings.

Step 5: Setup complete	
	ck on the Back button to review or modify settings or click on the Apply button note down these settings in order to access your camera on the network or
IP Address	DHCP
IP Camera Name	DCS-6616
Time Zone	(GMT+08:00) Taipei
DDNS	Disable
PPPoE	Disable
	Back Apply Cancel

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.

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

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.

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. Image: Sun Image: Su

Back Next Cancel



Step 1: Specify Motion Detection Area Settings

Section 3 - Configuration

Step 3

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

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

Click Next to continue.

Step 4

You have completed the Motion Detection Wizard.

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

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

terr	natively you can setup an FTP Notification. Yo	ve notification of camera events. Choose between an email notification or ou will need your email account settings or FTP details. If you are unsure of u have entered this information, please click on the Next button.
0	Do not motify me	
•	Email	
	Sender email address	
	Recipient email address	
	Server address	
	User name	
	Password	
	Port	25
0	FTP	
	Server address	
	Port	21
	User name	
	Password	
	Remote folder name	
		Back Next Cancel

p 3: Alerts and Notificatio

al th

Step 4: Setup Complete	
You have completed your camera setup. Pl the Apply button to save and apply your se	ease click the Back button if you want to review or modify your settings or click on ettings.
Motion Detection :	Enable
EVENT :	Video Clip
Schedule Day :	Sun ,Mon ,Tue ,Wed ,Thu ,Fri ,Sat ,
Schedule Time :	Always
Alerts and Notification :	Email
	Back Apply Cancel

Step	4: Setup Complete
the App	ve completed your camera setup. Please click the Back button if you want to review or modify your settings or click on oly button to save and apply your settings. hanges saved.IP Camera's network is restarting, please wait for 3 seconds
	Back Apply Cancel

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

D-Link	
D'LINK	
DCS-6616 // LIVE VIDEO SETUP ADVANCED MAINTENANCE ST	ATUS HELP
Setup Wizard NETWORK SETUP	Helpful Hints
Network Setup You can configure your LAN and Internet settings here.	Select DHCP Connection if you are
Dynamic DNS Save Settings Don't Save Settings	Connection1f you are running a DHCP server on your network and would
Image Setup	your network and would like an IP address assigned to your IP
LAIN SETTINGS	camera automatically.
Preset OHCP	- Enabling UPnP settings will allow you to configure
O Static IP Clent	your IP camera as an UPnP device in the network.
IP address 172.17.5.84 Time and Date Subnet mask 255.255.255.0	
Event Setup Default router 172.17.5.254	PPPoE Setting - If you use the IP camera to
SD Card Primary DNS 192, 168, 168, 250	connect directly to the Internet, you will need to
Logout Secondary DNS 192-168-168-201	password, which were
Enable UPnP presentation	given to you when you set up your account with
Enable UPnP port forwarding	your Internet Service Provider. If the camera is
Forwarding Port 1024 test	behind a router or a gateway, you do not
Forwarding Status UPnP forwarding is inactive	gateway, you do not need to configure this setting.
PPPOE SETTINGS	- HTTP Port is the port
O Enable	you allocate in order to connect to the IP camera
User Name	via a standard web browser.
Password	- HTTPS Port in a IP
Confirm password	camera connects it with a PC via a secure web
PPPoE Status	browser.
нттр	 RTSP Port is the port you allocate in order to connect to a IP camera
HTTP port 80	by using streaming mobile device(s), such as a
Access name for stream1 video 1.mjpg	mobile phone or PDA.
Access name for stream2 video2.mjpg	Traffic - Specifying the maximum download/ upload bandwidth for
Access name for stream3 video3.mjpg	upload bandwidth for each socket is useful
	when connecting your device to a busy or
нттря	heavily loaded network.
HTTPS port 443	* The value '0' means it will not monitor any
RTSP	traffic.
RTSP port S54	
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	

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 The default name is video#.mjpg, where # is the number of Stream 1~3: 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/ Specifying the maximum download/upload bandwidth for each Download socket can be useful when connecting your device to a busy or Bandwidth: 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.

LIVE VIDEO SETUP	ADVANCED	MAINTENANCE	STATUS	
NETWORK SETUP				Helpful I
You can configure your LAN and	d Internet settings here.			Select 'DH Connection
Sar	ve Settings Don't Save	Settings		Connection running a your nets
				like an IP assigned
LAN SETTINGS				camera a
OHCP				- Enabling will allow your IP c
C Static IP Client IP address	172.17.5.84			UPnP der
Subnet mask	255.255.255.0			network.
Default router	172.17.5.254			PPPoE S use the 1
Primary DNS	192.168.168.250			connect Internet enter the
Secondary DNS	192.168.168.201			passwore
Enable UPnP presentation				given to set up yo
Enable UPnP port forwardin	g			your Inte Provider behind a
Forwarding Port	1024 test			behind a gateway need to
Forwarding Status	UPnP forwarding is inact	ive		need to setting.
PPPOE SETTINGS				- HTTP P
C Enable C Disable				you alloc connect
User Name		_		via a sta browser
Password				- HTTPS
Confirm password				camera PC via a
PPPoE Status				browser
нттр				- RTSP P you allow connect
HTTP port	80			by using device(s mobile p
Access name for stream1	video 1.mjpg			mobile p
Access name for stream2	video2.mjpg			Traffic maximur
Access name for stream3	video3.mjpg			upload b each so
				when co device to
HTTPS				heavily
HTTPS port 443				* The va will not n
RTSP				traffic.
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		

DCS-

Setup V Netwo

Dynamic DNS

DDNS (Dynamic Domain Name Server) will hold a DNS host name and synchronize the camera's public IP address 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.

Product: DCS-6616					F	Firmware Version : 0.04			
D-Linl	ĸ								
DCS-6616	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP			
Setup Wizard	DYNAMIC DNS	Helpful Hints							
Network Setup	The Dynamic DN	Dynamic DNS is useful if you have a DSL or Cable							
Dynamic DNS	(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 changes your modem IP								
Image Setup Audio and Video	service, you can enter your domain name to connect to your IP camera no matter what your IP address periodicaly, will allow you to asso								
PTZ Setup	Sign up for D-Lin	website domain name to your IP camera instead of							
Preset		connecting through an IP address.							
Motion Detection									
Time and Date	DYNAMIC DNS	S SETTING							
Event Setup	Enable DDNS								
SD Card	Server Address	www.dlinkde	dns.com 4	<< www.dlinkddns.com	The second secon				
Logout	Host Name								
	User Name								
	Password								
	Verify Password								
	Timeout	24	(hours)					
	Status	Inactive							
		Save Sett	ings Don't Save S	Settings					

Image Setup

Adjustments to these settings will affect the amount of network resources that the camera will use.

Enable Privacy

Mask: Select this checkbox to enable the privacy mask.

- **Transparency:** Turning transparency on allows you to see through the privacy mask area.
 - **Color:** This is the color that will be displayed over the masked area.
 - Number: Select which mask area you would like to set. You may set up to 16 different masked areas.
 - **H Size:** Specifies the horizontal length of the masked area in pixels.
 - V Size: Specifies the vertical length of the masked area in pixels.



Section 3 - Configuration

- **BLC:** This function will enable backlight compensation, if the object is in front of strong backlight.
- **WDR:** Wide Dynamic Range This function allows the camera to be installed in high contrast and backlit environments.
- White Balance: It is the process of removing unrealistic color casts, so that an object appears white in person that is correctly rendered as white on the screen.
 - Flip: You may choose Mechanical (M.E.) Flip or Image (digital) Flip. Mechanical Flip uses the PTZ mechanism, while Image Flip uses the digital system to flip the image.
 - **Inverse:** Turn this option on to invert the image.
 - AE Mode: This feature automatically sets the aperture and shutter speed, if Auto is selected. If Manual is selected, you may specify the shutter speed and gain. You may also select Shutter Priority and specify the shutter speed.
 - Brightness: Adjust this control to compensate for brightly backlit camera images.
 - **Contrast:** Adjust this control to increase or decrease the contrast of the camera image.
 - Saturation: Adjust this control to increase/decrease the color saturation of the picture.
 - **Sharpness:** This function controls the amount of sharpening applied to the image.
 - **Excomp:** Exposure compensation can be used to adjust exposure.

Reset to Defaults: Click this button to reset these settings to their defaults.



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.

Mode: You may select H.264, MPEG4 or MJPEG encoding.

- Frame Size: This option allows the user to choose the video resolution of the camera. The options include NTSC: D1 (720x480), CIF (352x240), QCIF (176x120) and PAL: D1 (720x576), CIF (352x288), QCIF (176x144).
- Maximum Frame A higher frame rate provides smoother motion for video. Rate: Lower frame rates will result in stuttering.
 - Video Quality: Select the number of frames to be captured per second. 30fps is the highest video quality for this device.
- **Constant Bit Rate:** This limits the maximal refresh frame rate, which can be combined with the "Fixed quality" to optimize the bandwidth utilization and video quality. To set the bandwidth utilization regardless of the video quality, choose "Constant bit rate" and select the desired bandwidth.
 - Fixed Quality: Select the image quality level of the video. You may choose Standard, Good, or Excellent.

Audio In Off: Select this option to disable Audio In.

Audio In Gain Level: Select 20 or 26 dB to make the audio louder.

Audio Out Off: Select this option to disable Audio Out.

Audio Out Volume

Level: Choose a level between 1 and 10.



PTZ Setup

This page allows you to configure the pan/tilt/zoom settings for the camera. Changes to settings on this page take place immediately.

- Auto Pan: Auto Pan scans an area horizontally from left to right or right to left. Up to 4 Auto Pan paths may be defined. Select the button next to the path that you would like to set. Use the navigation pad to move the camera view to the desired start point and click **Set Start Point**. Move the camera view to the desired end point and click **Set End Point**. You may also specify the pan direction and speed. Click the **Test** button to view the path that you have just defined. Click **Stop** to end the test.
 - **Cruise:** A Cruise path is a stored route defined through manual adjustment of pan, tilt, and zoom. Up to 4 Cruise paths may be defined. Select the button next to the path that you would like to set. Click **Record Start** to begin recording a path. Use the navigation pad or mouse to define a path within the live video window. Click **Record End** when you are done defining the path. Click the **Test** button to view the path that you have just defined. Click **Stop** to end the test.
 - Home: You may turn on the home function and specify the PTZ behavior.
- **Digital Zoom:** You may turn digital zoom on or off.
 - **Freeze:** If this option is turned on, the image will freeze at the end of the predefined path and return to the starting point.



- Auto Calibration: Turning this option on will automatically calibrate the camera when needed to ensure that the
 - **2DNR:** This option turns on 2D noise reduction which may improve picture quality.
 - **3DNR:** This option turns on 3D noise reduction which may further improve image quality.
 - **Tilt Angle:** The option allows you to adjust the minimum and maximum tilt angle of the camera.



Preset

This page allows you to define presets and a preset sequence for the camera image.

Preset: Use the navigation pad or mouse to target a specific view in the live video window. You may adjust the pan and tilt speed if needed.

Create a New Preset

- 1. Select the page number, between 1 and 26.
- 2. Select an unused preset number from the preset list.
- 3. Choose a name for the preset.
- 4. Click Add.

Remove a Preset

- 1. Select the page number.
- 2. Select the preset from the preset list.
- 3. Click Remove.

Rename a Preset

- 1. Select the page number.
- 2. Select the preset from the preset list.
- 3. Enter a new name for the preset, overwriting the old name.
- 4. Click Rename.

Set a Preset as the Home Position

- 1. Select the page number.
- 2. Select the preset from the preset list.
- 3. Click Set.

Reset the Home Position to Default

1. Click Default.



Preset Sequence: Sequence is an automated series of camera movements from one preset position to another. A sequence can be set up to display the video streams from different preset positions in a pre-determined order, and for configurable time periods.

Before creating a sequence, you must first define some presets. (Please see the previous page.)

Define a Preset Sequence

- 1. Specify a path number to use.
- Specify up to 64 point numbers using the Prev Page and Next Page buttons to navigate between the sequence preset numbers:
 - a. Select a preset point from the Preset List.
 - b. Specify the Dwell Time.
 - c. Specify the Camera Speed.
- 3. Repeat steps a,b, and c, for up to 64 points.
- 4. Click **Save** to save your preset sequence.

D-Lin	k					\prec
DCS-6616	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Setup Wizard Network Setup Dynamic DNS Image Setup Audio and Video PTZ Setup Preset Motion Detection Time and Date Event Setup SD Card Logout	PTZ PRESET This section allow LIVE VIDEO	Helpful Hints. Preset-Juing the Pana, Tit and Zoom (PT) controls, move the controls, move the required position. Preset squeece of camera novements from automated areas of camera novements from one preset position. another A guard tour of the ent preset position different preset position different preset position different preset position different preset position for ent preset position to preset position to a pre determined order, and for configurable time periods				
	PRESET Page No 1 Preset Preset Lat Choose 1 PRESET SEQU Path 1 × No. Preset 1 1-5555(2 2-7777 3Preset					
Motion Detection

This section allows you to enable and configure motion detection areas.

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

Sensitivity: Sequential images that would indicate motion. Please enter a value between 0 and 100.

Percentage: Specifies the amount of motion in the window being nonitored 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 the motion detection area by dragging your mouse **Draw Motion Area:** in the window (indicated by the red square).

To erase a motion detection area, simply click on the red **Erase Motion Area:** 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 Select this option to allow your camera to configure the Saving: Daylight Saving settings automatically.
- Set Date and Time Selecting this option allows you to configure the Daylight Manually: Saving date and time manually.
 - Offset: Sets the amount of time to be added or removed when Daylight Saving is enabled.
- Synchronize with Enable this feature to obtain time automatically from an NTP Server: NTP server.
 - NTP Server: Network Time Protocol (NTP) synchronizes the DCS-6616 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

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.



Application

In a typical application, when motion is detected, the DCS-6616 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.



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.



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:

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.

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 Motion is detected during live video monitoring. Select **Detection:** 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 and event when the network is lost.

Time: Select Always or enter the time interval.





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 Please input a volume size between 1MB and 200GB for recording space. The recording data will replace the oldest **recording size**: 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).



Advanced DI and DO (Digital Input/Output)

The camera provides eight alarm inputs and one alarm output to connect alarm devices. With this function, the camera can cooperate with alarm system to catch event images.

No. # DI Type: Normal Open is for digital input that is activated when the circuit is closed.

Normal Close is for digital input that is activated when the circuit is opened.

For example: Connect the Alarm input terminal to ALM GND to activate [NC] or floating (unconnected) [NO] to deactivate





ICR

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

Automatic (Default): The day/Night mode is set automatically. It will typically use day mode, but will use night mode if installed in a dark area.

Day Mode: The Day mode disables the IR Cut Filter.

Night Mode: The Night mode enables the IR Cut Filter.

Schedule Mode: You can specify a time period for which Day mode will always be used.



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 Choose the way the certificate should be created. Three Method: 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-6616.

- 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 Admin

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.

DC Adr Syst

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.

S-6616	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
iin	ADMIN					Helpful Hints
em ware Upgrade ut	Here you can change the administrator's password for your IP camera as well as add and/or delete user account(5). You can configure the information, such as IP camera's name and time van this page. You can also enable the OS(OC-Screen Dsplay) feature in order to display the IP camera name and time stamp for your video recordings.					Enabling OSD, the IP camera name and time will be displayed on the video screen for the user.
	ADMIN PASSW New Password Retype Password	NORD SETTING		haracters maximum		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.
	ADD USER AC	COUNT				
	User Name New Password Retype Password	Add		sers maximum aracters maximum		
	USER LIST					
	User Name	User list	• Delete			
	DEVICE SETTI	NG				
	IP camera Name	DCS-6616		naracters maximum		
	Label Show 1	DCS-6616 time 🗹 Save	30 c	naracters maximum		

Backup and Restore

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

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

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

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

Reboot Device: This will restart your camera.

DCS-6616	LIVE VIDEO	SETUP	MAINTENANCE	STATUS			
Device Management Backup and Restore	BACKUP AND RESTORE Here you may backup, restore, and reboot your camera.						
Firmware Upgrade Logout	BACKUP AND RESTORE						
	Save To Local Hard Drive Save Configuration						
	Load From Local Hard Drive Browse Load Configuration						
	Restore To Factory De	faults Restor	e Factory Defaults				
	Reboot Device	Reboot D	evice				

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-6616, 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 Displays the camera model name.

Name:

Locate the file (upgraded firmware) on your hard drive **File Path:** by clicking **Browse**.

Upload: Uploads the new firmware to your camera.

CS-66 16	LIVE VIDEO	SETUP	MAINTENANCE	STATUS		
evice Management	FIRMWARE UPGRA	DE				
ackup and Restore rmware Upgrade ogout	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 camera. Citch knere D-Link Support Page to check for the latest firmware version available. 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.					
	FIRMWARE INFORMATION					
	FIRMWARE UPGRA	DE				
	File Path:	Browse Up	load			

Status Device Info

This section displays detailed information about your device 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.

Product: DCS-6616					l	Firmware Version : 0.04
D-Lini	-					
DCS-6616	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Device Info	SYSTEM LOG					Helpful Hints
Log Logout	The system log r	records IP camera eve	ents that have occurre	ed.		You can save the log to your local hard IP camera
	CURRENT LOC	3				by clicking the Download button, and you can clear the log by clicking on the
	2. 2011-02-09 0 3. 2011-02-09 0 4. 2011-01-21 1 5. 2011-01-21 1 6. 2011-01-21 1 7. 2011-01-21 1 9. 2011-01-21 1 10. 2011-01-21 1 10. 2011-01-21 11. 2011-01-21 13. 2011-01-21 14. 2011-01-21 15. 2011-01-21 16. 2011-01-21 17. 2011-01-21 18. 2011-01-21 19. 2011-01-20	9:49:46 IP CAMERA / 9:49:29 SYSTEM BO 6:02:18 admin SET E 6:01:02 admin LOGIN 6:00:12 admin SET E 5:59:51 admin SET E 5:59:51 admin SET E 5:56:19 admin SET 15:53:56 admin SET 15:53:22 admin LOGI 15:43:20 admin FROI 15:43:20 admin FROI 15:43:13 admin FROI 15:21:58 admin LOGI 15:19:43 IP CAMERA 15:19:27 SYSTEM BC 15:15:50 NETWORK 00:46:16 admin LOGI 00:45:58 IP CAMERA Previous 20 Next	VENT RECORD 1 I OK FROM 172.17.5.2 VENT TYPE 2 VENT TYPE 1 VENT SERVER 1 VENT RECORD 1 EVENT MEDIA 1 EVENT MEDIA 1 EVENT TYPE 1 IN OK FROM 172.17.5 ACQUIRE DHCP IP 17 DOTING LOST IN OK FROM 172.17.5 ACQUIRE DHCP IP 17	.17.5.103 22 .84 L IMAGE DATA DEFAUL L IMAGE DATA DEFAUL .22 2.17.5.145 .125	-	Clear button.

Help

This page provides helpful information regarding camera operation.



DI/DO Configuration DI/DO Pin Block Specifications

The network Speed Dome Camera's 22-pin connector definition is listed as shown below.



Pin	Definition	Cable	Pin	Definition	Cable
1	DC12V IN	RED (18AWG)	2	ALM NC	WHITE
3	GND	BLACK (18AWG)	4	ALM NO	BLACK/WHITE
5	GND	YELLOW (18AWG)	6	ALM COM	GREEN/BLACK
7	Audio in	YELLOW	8	Audio out	ORANGE
9	Audio GND	GREEN	10	Audio GND	BROWN
11	ISOG	BLUE/WHITE	12	ALM-1	RED/WHITE
13	ALM-3	PURPLE	14	ALM-2	GREY
15	ALM-4	BLUE	16	ALM-5	WHITE/BLACK
17	ALM-6	ORANGE/BLACK	18	ALM-7	PURPLE/WHITE
19	ALM-8	GREY/BLACK	20	ALM GND	BROWN/WHITE
21	VGND	BLACK	22	Video	RED

Digital Input Diagram



Alarm Input: ALM-1 ~ 8 - ALM GND

Digital Output Diagram



Alarm Output: ALM NC / ALM NO – ALM COM (NC: normal close, NO: normal open) Max. load 3A, max. voltage 120V AC relay output.

Technical Specifications

Camera	Camera Hardware Profile	 Sony Super HAD-II 1/4" CCD sensor 650 TVL resolution Minimum illumination: 0.1 lux (Color), 0.01 lux (B/W) 	 12x optical zoom Fixed length: 3.8 to 45.6 mm Aperture: F1.6 to F2.7
		 Built-in Infrared-Cut Removable (ICR) 	 Angle of view:
		Iter module	(H) 4.49° to 52.8°
		Electronic shutter: 1 to 1/10000 second	(V) 3.40° to 39.7°
		S/N ratio > 50 dB (AGC off)	(D) 55.4° to 65.4°
	PTZ Hardware Profile	Pan travel: 360° endless	Pan and tilt speed proportional to zoom ratio
		Tilt travel: 10° to 170°	Resume after power loss
		Manual speed: 1° to 80°/second	Home Functions: Preset, Sequence, Auto Pan, Cruise
		Presets: 256 points	Auto Flip: Mechanical/Digital/Off
		Preset Accuracy: 0.225°	Digital Slow Shutter
		Preset Speed: 10° to 400°/second	Image Freeze
		Sequence Paths: 8	Image Inverse
		Auto Pan Paths: 4	
		Cruise Paths: 8	
	Image Features	Configurable image size, quality, frame rate, and bit rate	16 configurable privacy masks
		Time stamp and text overlays	 Configurable white balance, shutter speed, brightness,
		Configurable motion detection windows	saturation, contrast, sharpness
	Video Compression	 Simultaneous H.264/MPEG-4/MJPEG format compression JPEG for still image 	 H.264/MPEG-4 multicast streaming
	Video Resolution	• NTSC: 720 x 480, 352 x 240, 176 x 120 at up to 30 fps	
		PAL: 720 x 576, 352 x 288, 176 x 144 at up to 25 fps	
	Audio Support	G.726	
	External Device	10/100 BASE-TX Ethernet port	- Audio innut / outnut
	Interface	8 Alarm inputs	 Audio input / output Video output
		1 Alarm outputs	 Video output
Network	Network Protocols	IPv4, TCP/IP, UDP, ICMP, DHCP Client, NTP Client (D-Link), DNS (Samba Client, PPPoE, UPnP Port Forwarding, RTP / RTSP/ RTCP,	Client, DDNS Client (D-Link), SMTP Client, FTP Client, HTTP / HTTPS, IP Itering, 3GPP, IGMP, ONVIF Compliant
	Security	 Administrator and user group protection Password authentication 	HTTP and RTSP digest encryption

Appendix C - Technical Specifications

System Management	System Requirements for Web Interface	 Operating system: Microsoft Windows 7/Vista/XP/2000 Browser: Internet explorer, Firefox, Netscape, Mozilla, Opera 					
	Event Management	 Motion detection Event notification and upload snapshots/video clips via HTTP, SMTP or FTP Supports multiple HTTP, SMTP and FTP servers 	 Multiple event notification Multiple recording methods for easy backup 				
	Remote Management	 Configuration accessible via web browser Take snapshots/video clips and save to local hard drive or NAS via web browser 					
	Mobile Support	Windows 7/Vista/XP system, Pocket PC, or mobile phone with 3GPP playback support					
	D-ViewCam™ System Requirements	 Operating System: Microsoft Windows 7 / Vista / XP Web Browser: Internet Explorer 6 or higher 	 Protocol: Standard TCP/IP 				
	D-ViewCam™ Software Functions	 Remote management/control of up to 32 cameras Viewing of up to 32 cameras on one screen 	 Supports all management functions provided in web interface Scheduled motion triggered, or manual recording options 				
General	Power Input	DC 12 V / 2A					
	Max. Power Consumption	14 W					
	Operating Temperature	0° to 40° C (32° to 104° F)					
	Storage Temperature	-20° to 70° C (-4° to 158° F)					
	Humidity	20% to 80% non-condensing					
	Weight	1.2 kg (2.6 lbs)					
	Certifications	CE (Class A), CE LVD (EN60965-1), FCC (Class A), ICES-003, C-Tick					

