

ALL2298

High Speed Dome Camera



User's Manual

V1.0

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1. Overview

The network Speed Dome Camera transmits digital video and audio data using wire connection. Live video can be monitored and recorded from window-based computer via network.

The video encoder supports real-time Main Profile H.264 D1 resolution which compresses the image size up to 40% off. Simultaneous dual streams, H.264/H.264 and H.264/MJPEG, are available for various network applications via speeding or limited bandwidth. Better image quality and high resolution are delivered by IP support. Additionally, 3D de-interlaced technology provides superior image quality. It eliminates the "combing" effect due to scene change and performs more stabilized image.

With IP solution, multiple and authorized users can view the immediate image from any location through network even using a standard web-browser. It enables users to access and remote the camera without at specific locations.

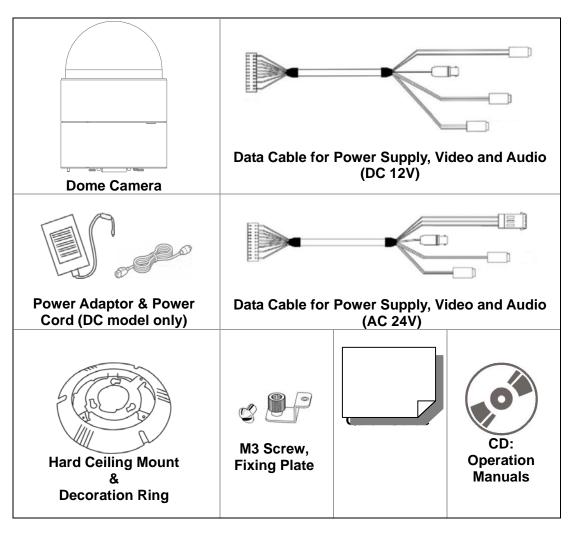
Features

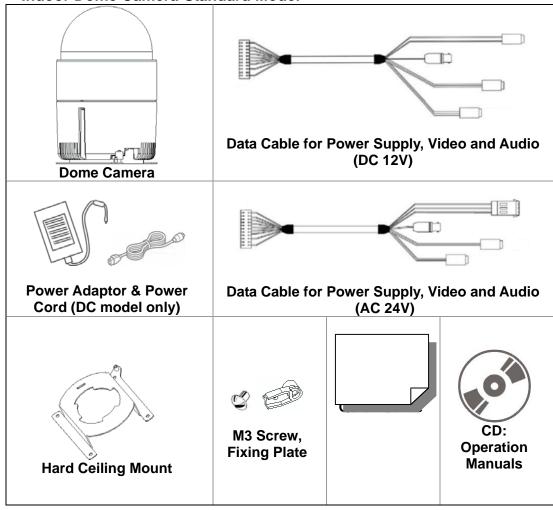
- 12x Optical Zoom
- 12x Digital Zoom
- Simultaneous dual streams: H.264 and MJPEG
- D1 Real-time Resolution
- 3D de-interlaced video image
- Two-way audio support
- Removable IR Cut Filter
- Motion Detection
- Wide Dynamic Range (WDR)
- 2D/ 3D Noise Reduction

1.1 Package Contents

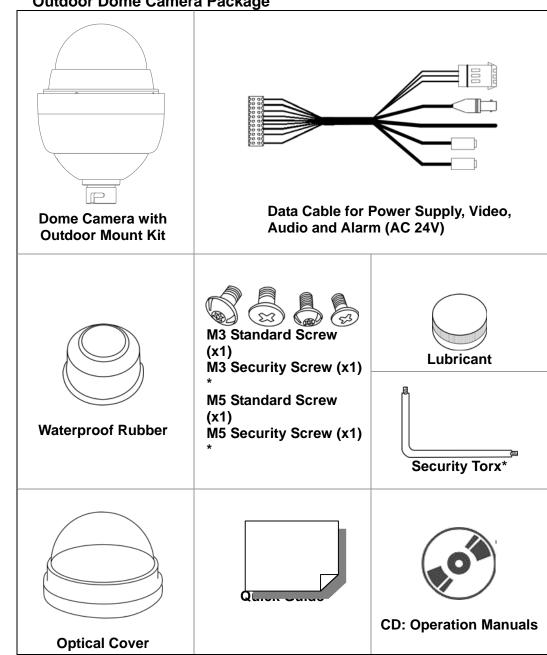
Please check the box contains the items listed here. If any item is missing or has defects, DO NOT install or operate the product and contact your dealer for assistance.

Indoor Dome Camera-Classic Model

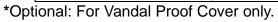




Indoor Dome Camera-Standard Model



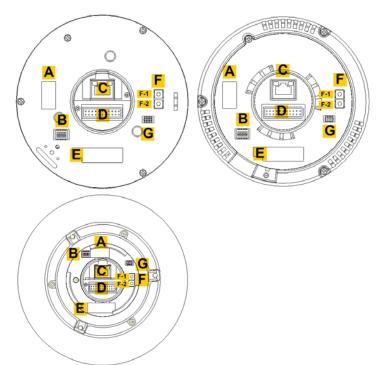
Outdoor Dome Camera Package



7

1.2 Switch/Connector Definition

There are various switches and connectors located on the Dome Camera's back plate as shown in the figures below. Please refer to the diagrams and tables accompanied with for use of each switch/connector.



Indoor-Classic Model Indoor-Standard Model Outdoor Model

Α	None					
В	Communication Switch (Reserved)					
С	RJ45 Connector					
D	22-Pin Connector					
E	None					
F	F-1	Reboot Button				
L.	F-2	Factory Reset Button				
G	ISP C	onnector (for FW upgrade)				



NOTE: DO NOT change the network Speed Dome Camera's Communication Switch factory default settings.

2. **Preparations for Dome Camera Setup**

Before logging in, please complete power, alarm (if available) and network connections and check system requirements. For further details and instructions on cable connection, please refer to the following sections.

2.1 System Requirements

To perform the network Speed Dome Camera via web browser, please ensure your PC is in good network connection, and meet system requirement as described below.

Items	Minimum Requirement
	1. Intel Pentium IV, 3 GHz or higher, Intel Core2
Personal Computer	Duo, 2 GHz or higher
Fersonal Computer	2.1 GB RAM or more
	3. AGP graphics card 64 MB RAM, DirectDraw
Operating System	Windows VISTA or Windows XP
Web Browser	Microsoft Internet Explorer 6.0 or later
Network Card	10Base-T (10 Mbps) or 100Base-TX (100 Mbps)
INELWOIK CAID	operation
Viewer	ActiveX control plug-in for Microsoft IE

Alarm Cable Audio Mic-in

Audio Line-out

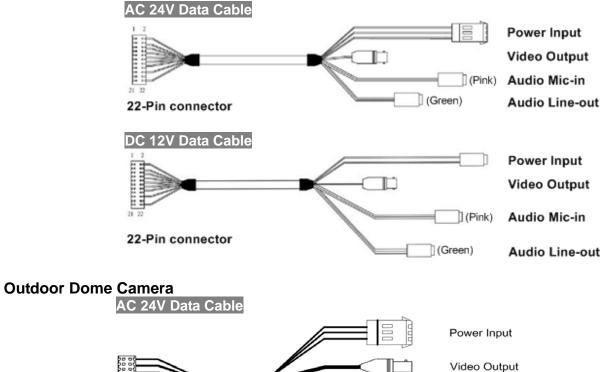
(Pink) (Green)

2.2 Cable Connection

Data Cable Connection

For the indoor Dome Camera, it is supplied with a DC 12V or an AC 24V Data Cable for a quick installation for demo or testing usage, while the outdoor model is only supplied with an AC 24V Data Cable. All of the Data Cables for different types of camera are shown as follows:





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



Pin	Definition	Cable		Pin	Definition	Cable
	AC 24-1/DC			12	ALM-1	
1	(+)	20AWG/18AWG				
2	ALM NC			13	ALM-3	
	AC 24-2/DC			14	ALM-2	
3	(-)	20AWG/18AWG				
4	ALM NO			15	ALM-4	
5	FG	20AWG18AWG		16	Reserved	
6	ALM COM			17	Reserved	
7	Audio in			18	Reserved	
8	Audio out	24AWG		19	Reserved	
9	Audio GND	24400		20	ALM GND	
10	Audio GND			21	VGND	20AWG
11	ISOG			22	Video	ZUAWG

Ethernet Cable Connection

Use of Category 5 Ethernet cable is recommended for network connection; to have best transmission quality, cable length shall not exceed 100 meters. Connect one end of the Ethernet cable to the RJ45 connector on the Dome Camera's back plate, and the other end of the cable to the network switch or PC.



NOTE: In some cases, you may need use an Ethernet crossover cable when connecting the IP Camera directly to the PC.

Check the status of the link indicator and activity indicator LEDs; if the LEDs are unlit, please check LAN connection.



Green Link Light indicates good network connection.

Orange Activity Light flashes for network activity indication.

3. Accessing IP Camera

For initial access to the network Speed Dome Camera, users can search the camera through the installer program: DeviceSearch.exe, which can be found in "DeviceSearch" folder in the supplied CD.

Device Search Software Setup

Step 1: Double click on the program Device Search.exe (see the icon below); its window will appear as shown below. Then click the "Device Search" button.



▼ TCP ▼	ALL 🔹	Build			
		Device	Sear	rch	
Name		IP	Port	Netmask	Мас
	Name	Name	Name IP	Name IP Port	Name IP Port Netmask

Step 2: The security alert window will pop up. Click "Unblock" to continue.



Device Search

Step 3: Click "Device Search" again, and all the finding IP devices will be listed in the page, as shown in the figure below. The network Speed Dome Camera's default IP address is: DHCP.

Search Metho C Local Bro C IP Relay			0 device(s) fo		rch	
Model	Proj	Name	IP	Port	Netmask	Mac
NH061	NH061	MegaPixelCamera	192.168.0.217	80	255.255.255.0	00:D0:89:A2:C3:B4
NH061	NH061	MegaPixelCamera	192,168.0.250	80	255.255.255.0	00:D0:89:0(A1:07

Step 4: camera Double click or right click and select "Browse" to access the directly via web browser.

Search Method C Local Broadcast C IP Relay TCP		Project Filter	0 device(s) foundl Device Search					
Model	Proj	Name		IP	0	Port	Netmask	Mac
NH061	NH061	MegaPi	xelCamera	192.168.0.2	217	80	255.255.255.0	00:D0:89:A2:C3:B4
NH061	NH061	MegaPi	xelCamera	192.168.0.	<u>D</u> etail <u>B</u> row		5.255.0	00:D0:89:00:A1:07

Step 5: Then the prompt window of request for entering default username and password (as shown below) will appear for login to the network Speed Dome Camera.

	G ST
MegapixelIPCam User name: Password:	era
	OK Cancel

The default login ID and password for the Administrator are:

Login ID	Password
Admin	1234



NOTE: ID and password are case sensitive.

NOTE: It is strongly advised that administrator's password be altered for the security concerns. Refer to section <u>4.3.2 Security</u> for further details.

Additionally, users can change the network Speed Dome Camera's network property, either DHCP or Static IP directly in the device finding list. Refer to the following section for changing the network Speed Dome Camera's network property.

Example of Changing IP Camera's Network Property

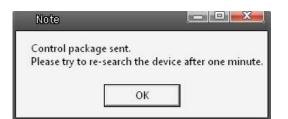
- Users can directly change an Network Speed Dome Camera's network property, ex. from static IP to DHCP, in the finding device list. The way to change the camera's network property is specified below:
- Step 1: In the finding device list, click on the network Speed Dome Camera that you would like to change its network property. On the selected item, right click and select "Network Setup." Meanwhile, record the network Speed Dome Camera's MAC address, for future identification.

 Device Se Search Meth Local Bro IP Relay 	oadcast	TCP -	O device(s) Device			<u>, ∎, ∎,</u>
Model	Proj	Name	IP	Port	Netmask	Mac
NH061	NH061 MegaPixelCamera		192.168.0.217	7 80	255.255.255.0	00:D0:89:A2:C3:B4
NH061		MegaPixelCamera		Detail Info Browse Network S		

Step 2: The "Network Setup" page will come out. Select "DHCP," and press "Apply" button down the page.

Device Information Model NH061					
Project NH061					
					Name
MAC 00:D0:89:04:D6:47					
IP Addr	ess 192.168.7.123				
	C Static IP				
	vay 192.168.7.254				
Netm	ask 255.255.255.0				
D	NS 0.0.0.0				

Step 3: Click "OK" on the Note of setting change. Wait for one minute to research the network Speed Dome Camera.



Step 4: Click the "Device Search" button to re-search all the devices. Then select the network Speed Dome Camera with the correct MAC address. Double click on the IP Camera, and the login window will come out.

Search Meth C Local Bro C IP Relay	adcast	CP _	-	0 device(s) found!				
Model	Proj	Name	IP	Port	Netmask	Mac		
NH061	NH061	MegaPixelCamera	192.168.0.217	80	255.255.255.0	00:D0:89:A2:C3:B4		
NH061	NH061	MegaPixelCamera	192.168.7.250	80	255.255.255.0	00:D0:89:00:AC:C2		

Step 5: Enter User name and Password to access the network Speed Dome Camera.

Installing DC Viewer Software Online

For the initial access to the network Speed Dome Camera, a client program, DC Viewer, will be automatically installed to your PC when connecting to the IP Camera.

If the Web browser doesn't allow DC Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (see <u>Appendix</u> <u>B: Internet Security Settings</u>) to continue the process.

The Information Bar (just below the URL bar) may come out and ask for permission to install the ActiveX Control for displaying video in browser (see the figure below). Right click on the Information Bar and select "Install ActiveX Control..." to allow the installation.

🖉 network HD Camera - Windows Internet Exp	plorer					
				•	Live Search	₽ -
File Edit View Favorites Tools Help						
😭 🍪 🌈 network HD Camera				1	💁 🔹 🗟 🔹 🖶 🗣 🔂 Pag	e 🔻 🎯 Tools 🔻 🕨
👏 This site might require the following ActiveX control: '	Megapixel IP Camera Vi	ewer' from 'DYN	ACOLOR,	Techall Active V Control		
			-	What's the Risk?		_
Megapixel Home	System	Streaming	Camer	Information Bar Help		

Then the security warning window will pop up. Click "Install" to carry on software installation.

Click "Finish" to close the DC Viewer window when download is finished. For the detailed software download procedure, please refer to <u>Appendix C: DC Viewer</u> <u>Download Procedure</u>.



NOTE: If the Live Video Pane on Home Page can not be shown for users who have installed the DC Viewer in the PC previously. Please refer to <u>Appendix D: Upgrade the DC Viewer</u>.

Once login to the network Speed Dome Camera, users will see the Home page as shown below:



NOTE: Please note that the function buttons will vary depending on the camera model.

Administrator/User Privileges

"Administrator" represents the person who can configure the network Speed Dome Camera and authorize users access to the camera; "User" refers to whoever has access to the camera with limited authority, i.e. entering Home and Camera setting pages.

Image and Focus Adjustment

The image displays on the Home page when successfully accessing to the IP Dome Camera. Adjust zoom and focus as necessary to produce a clear image.

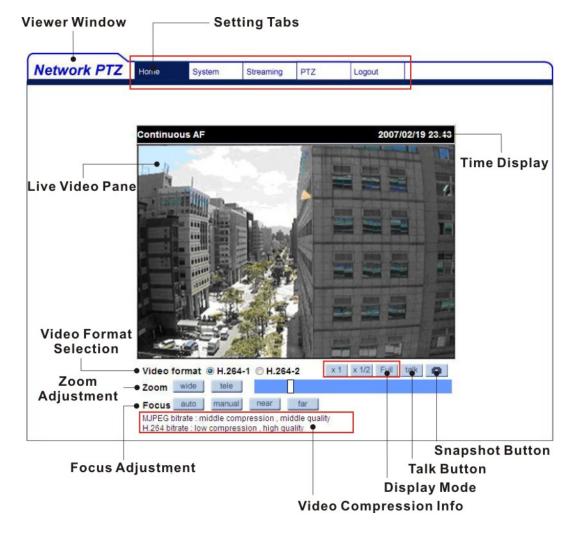
4. Configuration & Operation

The network Speed Dome Camera is provided with a user-friendly browser-based configuration interface, and a free bundled CMS (Central Management System) for video playback and recording. In this chapter, information about main page introduction, system related settings and camera settings will be described in detail.

For further information about CMS software, please refer to <u>5. CMS</u> <u>Software Introduction</u> and CMS user manual.

4.1 Browser-based Viewer Introduction

The figure below shows the main page of the network Speed Dome Camera user interface.



NOTE: Please note that the function buttons will vary depending on the camera model.

There are five tabs: Home, System, Streaming, PTZ and Logout on the top panel.

<u>Home</u>

Users can monitor live video of the targeted area.

System setting

The Administrator can set host name, system time, root password, network related settings, etc. Further details will be interpreted in section <u>4.3 System Related Settings</u>.

Streaming setting

The Administrator can modify video resolution and rotate type and select video compression mode in this page.

PTZ setting

Users can adjust various camera parameters including <Exposure>, <White Balance>, <Brightness>, <Sharpness>, <Contrast> and <Digital Zoom>.

Logout

Click on the tab to re-login the network Speed Dome Camera with another username and password.

4.2 Home Page

In the Home page, there are several function buttons below the displayed image.





Talk

NOTE: Please note that the function buttons will vary depending on the camera model.

Screen Size Adjustment

Image display size can be adjusted to x1/2 and full screen.

Digital Zoom Control

In the full screen mode, users can implement digital PTZ by rotating the mouse wheel (for zoom in/out), and drag the mouse into any direction.

Talk Talk button (on/off)

Talk function allows the local site talks to the remote site. Click on the button to switch it to on/off. Please refer to section <u>4.3.2 Security</u>: Add user >> Talk/Listen for further details.

This function is only open to "User" who has been granted this privilege by the Administrator.

Snapshot <u>button</u>

Press the button, and the JPEG snapshots will automatically be saved in the appointed place. The default place of saving snapshots is: C:\. To change the storage location, please refer to section <u>4.3.11 File Location</u> for further details.

Pan/Tilt Control

Users can implement pan/tilt control by first moving the cursor to the live video pane; then left click and drag the pointer *(in any direction.)*

Optical/Digital Zoom Control

In Normal View display mode, users can implement zoom in/out by first moving the cursor to the live video pane and then rotating the mouse wheel. As in Full Screen mode, users can directly rotate the mouse wheel to zoom in/out on the image. Digital zoom is only available when the function is activated and which is set in "Camera-Misc1" page under the "PTZ" tab; see section <u>4.5.10</u> <u>Camera-Miscellaneous Setups Menu 1</u> for details. When the camera reaches the limit of its optical range, it will automatically switch to digital zoom.

Zoom Adjustment

Zoom wide tele

Click on the buttons wide/ tele to control zoom in/out. Move the cursor closely onto the zoom adjustment bar and click on the desired position to change the room ratio.

Focus Adjustment



• Auto Focus (Continuous AF):

Click on the "auto" button to enable AF mode. In this mode, the camera will keep in focus automatically and continuously regardless of zoom changes or any view changes. The Focus status will also be displayed above the live video pane as shown below.



• Manual Focus:

Click on the "manual" button, and users can adjust focus manually via "near" and "far" buttons. The status will also be displayed above the screen as shown below.



4.3 System Related Settings

The figure below shows all categories under the "**System**" tab. Each category in the left column will be explained in the following sections.



NOTE: The "System" configuration page is only accessible by Administrator.

Network PTZ	Home	System	Streaming	PTZ	Logout	
System	System					
Security	Host Nai	me :	NetworkPTZ			
Network	Time zor	ne :	GMT-12:00 K	wajalein		E.
DDNS	Sync v	with compute	er time			
Mail	1	PC date	2010/06/29	[yyyy/mm/d	d]	
FTP	1	PC time	: 13:42:52 [h	h:mm:ss]		
Application	Manua	al				
Snapshot		Date	2007/01/01	www/mm/d	dl	
View log file	1		: 00:00:00 [h		u]	
View user information				11.11111.55]		
View parameters	Sync	with NTP ser				
Factory default	1	NTP server				[host name or IP address]
Software version	Up	date interval	Every hour	•		
Software upgrade	1		Save			

4.3.1 Host Name and System Time Setting

Press the first category: <System> in the left column; the page is shown as below.

Network PTZ	Home	System	Streaming	PTZ	Logout		
System	System						
Security	Host Nam	ne :	NetworkPTZ				
Network	Time zon	e:	GMT-12:00 K	vajalein			
DDNS	Sync w	ith compute	er time				
Mail		PC date:	2010/06/29	[yyyy/mm/dd	1]		
FTP		PC time:	13:42:52 [h	h:mm:ss]			
Application	Manua	I.					
Snapshot		Date:	2007/01/01	[vvvv/mm/dd	11		
View log file			00:00:00 [h				
View user information	O Curren	ith NTP ser	and the second second				
View parameters	O Sync w						
Factory default		NTP server:				[host name or IP address]	
Software version	Upd	ate interval:	Every hour	•			
Software upgrade]		Save				

Host Name

The name is for camera identification. If alarm function (see 4.3.7 <u>Application</u>) is enabled and is set to send alarm message by Mail/FTP, the host name entered here will display in the alarm message.

Time Zone

Select the time zone you are in from the drop-down menu.

Sync With Computer Time

Select the item, and video date and time display will synchronize with the PC's.

Manual

The Administrator can set video date, time and day manually. Entry format should be identical with that shown next to the enter field.

Sync with NTP Server

Network Time Protocol (NTP) is an alternate way to synchronize your camera's clock with a NTP server. Please specify the server you wish to synchronize in the enter field. Then select an update interval from the drop-down menu. For further information about NTP, please see the web site: <u>www.ntp.org</u>.

4.3.2 Security

Click the category: <Security>, and the page is shown as the figure below.

Network PTZ	Home	System	Streaming	PTZ	Logout	
System	Security					
security	Admin	Password				
Network	1	Admin pas	sword •••••		0	
DDNS	1		sword		Save	
Mail	1					
FTP						
Application	Add Us		name		1	
Snapshot	1	User pas	100 100 L]	
View log file	1	☑ I/O acc	or provide the second second	nera control		
View user information	1	🔲 Talk	📃 List	en	Add	
View parameters	1					
Factory default	Manage	llser				
Software version	Hanay		me no user	🔻 Dele	te Edit	
Software upgrade	1					

Root password

Change the administrator's password by inputting the new password in both text boxes. The input characters/numbers will be displayed as dots for security purposes. After clicking <Save>, the web browser will ask the Administrator for the new password for access. The maximum length of the password is 14 digits.



NOTE: The following characters are valid: A-Z, a-z, 0-9, !#\$%&'-.@^_~.

Add user

Type the new user's name and password and click <Add> to add the new user. Both user name and password can be up to 16 characters. The new user will be displayed in the user name list. There is a maximum of twenty user accounts. Each user can be assigned the privileges of "**Camera control**", "**Talk**" and "**Listen**".

I/O access

This item supports fundamental functions that enable users to view video when accessing to the camera.

Camera control

This item allows the appointed User to change camera parameters on the Camera Setting page.

Talk/Listen

Talk and Listen functions allow the appointed user in the local site (PC site) communicating with, for instance, the administrator in the remote site.

Manage User

Delete user

To delete a user, pull down the user list, and select the user name you wish to delete. Then click <Delete> to remove it.

Edit user

Pull down the user list and select a user name. Click <Edit> to edit the user's password and privilege.



NOTE: It is required to enter the User password as well as select the function open to the user. When finished, click <Save> to modify the account authority.

🥖 http://192.168.7.12	3/lang1/server_editaccount	
	ng1/server_editaccount.html	-
User name User password I/O access Talk Save	[user] Camera control Listen Close	
	Internet	₹ 100% ▼ .:
User name User password	[user]	
I/O accessTalkSave	Camera controlListenClose	
Don) Internet	🕀 100% 🔻!

4.3.3 Network

Click <Network> in the left column, and the page will display as shown below.

System			10	
stem	Network			
Security	🔘 Get IP address auto	matically		
Network	 Use fixed IP address General 			
DDNS	IP address	192	2.168.7.123	
Mail	Subnet mask	2.5	5.255.255.0	
FTP	Default gateway	192	2.168.7.254	
Application	Primary DNS	0.0	.0.0	
Snapshot	Secondary DNS	0.0	.0.0	
View log file	Web Server port	80		
View user information	1	5	ave	
View parameters	Advanced			
Factory default	RTSP port	554	4	
Software version	MJPEG over HTTP p	ort 800	08	
Software upgrade		S	ave	
	UPnP Setting			
	Enable UPnP			
	🖾 Enable UPnP po	ort forwarding		
	Friendly name	DH	510e	
		S	ave	
		2 3		

Users can choose to use fixed IP address or dynamic (DHCP) IP address. The following is descriptions for the two ways of setting IP address.

Get IP address automatically (DHCP)

The camera's default setting is "**Use fixed IP address**". Please refer to the previous section <u>3. Accessing IP Camera</u> for login with the default IP address.

If select "**Get IP address automatically**", after the network Speed Dome Camera restarts, users can search it through the installer program: DeviceSearch.exe, which can be found in "DeviceSearch" folder in the supplied CD.



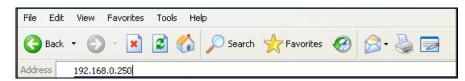
NOTE: Please make the record of the network Speed Dome Camera's MAC address, which can be found in the label of the camera, for identification in the future.

Use fixed IP address

To setup static IP address, select "**Use fixed IP address**" and move the cursor to the IP address blank (as indicated below) and insert the new IP address, ex. 192.168.7.123; then go to the Default gateway (explained latter) blank and change the setting, ex. 192.168.7.254. Press "Save" to confirm the new setting.

Network PTZ	Home	System	Streaming	PTZ	Logout	
System	Network			- 16		
Security		address auto				
Network	O Use fi:	xed IP addres	S		_	
DDNS	IP a	ddress	192	2.168.7.123	3	
Mail	Subr	net <mark>mask</mark>	255	5.255.255.0	0	
FTP	Dera	uit gateway	192	.108./.25		
Application	Prim	ary DNS	0.0	.0.0		
Snapshot	Seco	ondary DNS	0.0	.0.0		
View log file	Web	Server port	80			
View user information	1		5.	ave		
View parameters	Advanc	ed				
Factory default	RTSF	port	554	L .		
Software version	МЈРЕ	EG over HTTP (port 800)8		
Software upgrade			Sa	ave		
	UPnP S	10				
		nable UPnP				
			ort forwarding			
	Frier	ndly name	DH	510e		
			Sa	ave		

When using static IP address to login to the network Speed Dome Camera, users can access it either through "DeviceSearch" software (see <u>3. Accessing IP Camera</u>) or input the IP address in the URL bar and press "Enter".



IP address

This is necessary for network identification.

Subnet mask

It is used to determine if the destination is in the same subnet. The default value is "255.255.255.0".

Default gateway

This is the gateway used to forward frames to destinations in different subnet. Invalid gateway setting will fail the transmission to destinations in different subnet.

• Primary DNS

Primary DNS is the primary domain name server that translates hostnames into IP addresses.

Secondary DNS

Secondary DNS is a secondary domain name server that backups the primary DNS.

<u>Advanced</u>

Web Server Port

The default web server port is 80. Once the port is changed, the user must be notified the change for the connection to be successful. For instance, when the Administrator changes the HTTP port of the IP Camera whose IP address is 192.168.0.100 from 80 to 8080, the user must type in the web browser "http://192.168.0.100:8080" instead of "http://192.168.0.100".

RTSP port

RTSP port could be set from 1 to 65535. (Normal Setting Port: 554, 1024 ~65535)

MJPEG over HTTP port

The default setting of HTTP Port is 8008; setting range: 1024 ~65535.



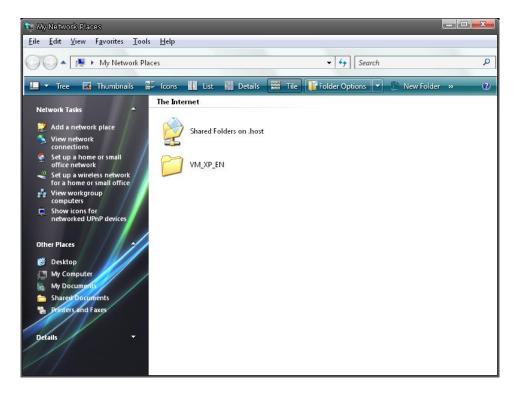
NOTE: Be aware to choose the different port from the one set for the web server port.

UPnP Setting

Enable UPnP

•

When the UPnP is enable, whenever the network Speed Dome Camera is presented to the LAN, the icon of the connected network Speed Dome Cameras will appear in My Network Places to allow for direct access as shown below.





NOTE: To enable this function, please make sure the UPnP component is installed on your computer. Please refer to <u>Appendix E: Install</u> <u>UPnP components</u> for UPnP component installation procedure.

• Enable UPnP port forwarding

When the UPnP port forwarding is enabled, the network Speed Dome Camera is allowed to open the web server port on the router automatically.



NOTE: To enable this function, please make sure that your router supports UPnP and it is activated

• Friendly name

Set the name for the IP Dome Camera for identity.

4.3.4 DDNS

Dynamic Domain Name System (DDNS) allows a host name to be constantly synchronized with a dynamic IP address. In other words, it allows those using a dynamic IP address to be associated to a static domain name so others can connect to it by name.

Network PTZ	Home	System	Streaming	PTZ	Logout	
System	DDNS					
Security Network	8.0		You Want To	Use Your	DDNS Account.	
Mail	Prov	ider	D	ynDNS.org	(Dynamic) 🔻	
FTP	Host	name				
Application Snapshot	User	name/E-mail				
View log file View user information View parameters	Pass	word/Key		Save		
Factory default						
Software upgrade						

Enable DDNS

Check the item to enable DDNS.

Provider

Select one DDNS host from the provider list.

Host name

Enter the registered domain name in the field.

Username/E-mail

Enter the username or e-mail required by the DDNS provider for authentication.

Password/Key

Enter the password or key required by the DDNS provider for authentication.

4.3.5 Mail

The Administrator can send an e-mail via Simple Mail Transfer Protocol (SMTP) when an alarm is triggered. SMTP is a protocol for sending e-mail messages between servers. SMTP is a relatively simple, text-based protocol, where one or more recipients of a message are specified and the message text is transferred. The configuration page is shown as follows:

Network PTZ	Home	System	Streamin	g PTZ	Logout	
System	Mail					
Security	SMTP					127
Network	1st 9	5MTP (mail) se	rver	0		
DDNS	1st 9	5MTP (mail) se	rver port	25		
Mail	1st 9	SMTP account	name			
FTP	1st S	5MTP passwor	d			
Application	1st r	recipient email	address	27		
Snapshot	2nd	SMTP (mail) se	erver			
View log file	2nd	SMTP (mail) se	erver port	25		
View user information	2nd	SMTP account	name			
View parameters	2nd	SMTP passwo	rd			
Factory default	2nd	recipient emai	il address			
Software version	Send	der email addr	ess			
Software upgrade				Save		
				, <u> </u>		

Two sets of SMTP can be configured. Each set includes SMTP Server, Account Name, Password and E-mail Address settings. For SMTP server, contact your network service provider for more specific information.

4.3.6 FTP

The Administrator can set as sending alarm message to a specific File Transfer Protocol (FTP) site when an alarm is triggered. Users can assign alarm message to up to two FTP sites. The FTP setting page is shown below. Enter the FTP details, which include server, server port, user name, password and remote folder, in the fields. Press "Save" when finished.

Network PTZ	Home	System	Streaming	PTZ	Logout		
System	FTP						
Security	FTP			7 1			
Network		in FTP server	port 21				
DDNS	and the second	TP server				5	
Mail		TP server por	0)				
FIP		TP user name					
		TP password					
Application		TP remote fol	1997S			5	
Snapshot		st FTP passiv	e mode				
View log file		TP server	() ()			18	
View user information		TP server poi					
View parameters		TP user name					
Factory default	2010/07/2222-20	TP password					
Software version		TP remote fo	1			138	
Software upgrade	2 🛛	nd FTP passiv		Save			
				Jave			

4.3.7 Application (Alarm Settings)

The network Speed Dome Camera supports 5 alarm inputs and 1

alarm output. Please make sure the alarm connections are properly wired before starting to configure alarm related settings on this "Application" page. Please refer to the pin definition table below for alarm system wiring.



Pin	Definition	Cable		Pin	Definition	Cable	
	AC 24-1/DC			12	ALM-1		
1	(+)	20AWG/18AWG					
2	ALM NC			13	ALM-3		
•	AC 24-2/DC			14	ALM-2		
3	(-)	20AWG/18AWG					
4	ALM NO			15	ALM-4		
5	FG	20AWG18AWG		16	Reserved		
6 7	ALM COM			17	Reserved		
8	Audio in Audio out			18 19	Reserved Reserved		
9	Audio GND	24AWG		20	ALM GND		
10	Audio GND			21	VGND	20AWG	
11	ISOG			22	Video	20410	
Ne	etwork PTZ H	ome System Stre	aming	PTZ	Logout		
		Application Alarm Pin Selection					
	urity	Alarm Switch	- S	Туре	Actions		
_	work	1. None 2. None		None None	None None		
DDN		3. None 4. None		None None	None None		
Mai		Edit		None	INDITE		
FTP	101 - 01 - 01						
	plication						
	pshot						
	w log file						
	w user information						
-	w parameters						
	tory default						
_	tware version						
Soft	tware upgrade						

Alarm Pin Selection

Select an alarm pin which is to be configured from the "Alarm Pin Selection" field. Then press the button "Edit" below the field to carry on alarm programming.

Alarm Status Settings

The specific alarm pin's property can be programmed in this section as shown below.

Network PTZ	Home	System	Streaming	PTZ	Logout		
System	Applicat						
Security		Pin Select arm	tion Switch	Type	Actions		
Network		1.	None	None	None]	
DDNS		2.	None None	None None	None None		
Mail		4.	None	None	None		
FTP	E	dit					
Application	Alarr	n Switch					^
Snapshot	Alarm	switch C	off 🔻	Alar	m Type Norma	I close 🔻	
View log file	Actio	n					
View user information	1000	nable Alar	and the second second				
View parameters	1.000		age by FTP			end Message by E-Mail	
Factory default		Ipload Ima				pload Image by E-Mail	
Software version		unction P	reset 💌				
Software upgrade	File						=
Software upgrade		iame : ima	ae ina				
	10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (dd date/tin					
			ce number suffix	(no may			
	100 C	CALCULATION CONTRACTOR	ce number sum ce number suffi		the second se	en start over	
		verwrite	ce number sum		and th	en start over	
	00	verwrite					
	Sav	e					
		_					
							*

Alarm Switch

Alarm Switch

The Administrator can enable or disable the alarm function.

Alarm Type

Select an alarm type, "Normal close" or "Normal open," that corresponds with the alarm application.

<u>Triggered Action</u> (Multi-option)

The Administrator can specify alarm actions that will take when the

alarm is triggered. All options are listed as follows:

Enable Alarm Output

Select the item to enable alarm relay output.

Send Alarm Message by FTP/E-Mail

The Administrator can select whether to send an alarm message by FTP and/or E-Mail when an alarm is triggered.

Upload Image by FTP

Select this item, and the Administrator can assign a FTP site and configure various parameters as shown in the figure below. When the alarm is triggered, event images will be uploaded to the appointed FTP site.

Network PTZ	Home Sys	tem Stream	ning PTZ	Logout		
System	Application					
Security	Alarm Pin Se Alarm	lection Switch	Туре	Actions		
Network		None	None	None		
DDNS	2.	None None	None None	None None		
Mail	4.	None	None	None		
FTP	Edit					
Application	Alarm Switch		Alar	m Type Norm	al close 🔻	
Snapshot	Action	Alarm output				
View log file		essage by FTP			Send Message by E-Mail	
View user information	🗹 (Upload 1	Image by FTP			opload mage by E-Mail	
View parameters	FTP add	lress [FTP1 🔻			
Factory default	Pre-trig	ger buffer [5 frames	-		
	Post-tri	gger buffer	5 frames	•		
Software version	Con	ntinue image upl	load			
Software upgrade	() L	Jpload for 1	se			
	01	Jpload during tri	igger active			
	Ima	age frequence	Max. 🚽 fps			
	Eunction	Preset 👻				
	Time:		 _			
	File Name					
	File name :	image.jpg	1			
	Add date	/time suffix	2			
	د د » »					

Upload Image by E-Mail

Select this item, and the Administrator can assign an e-mail address and configure various parameters as shown in the figure below. When the alarm is triggered, event images will be sent to the appointed e-mail address.

Network PTZ	Home Syste	em Stream	ing PTZ	Logout			
System	Application						
Security	Alarm Pin Sel Alarm	ection Switch	Туре	Actions			1
Network	1.	None	None	None	1		
DDNS	2. 3.	None None	None None	None None			
Mail	4.	None	None	None			
FTP	Edit						
Application	Alarm Switc	h					^
Snapshot	Alarm Switch	Off 🔻	Alarr	n Type Norma	l close 🔻		
View log file	Action						
View user information	Enable A	Contraction of the second					
View parameters	Send Mes	er og zan eg er og state o			end Message by E-N		
Factory default	📃 Upload Ir	nage by FTP		1	pload Image by E-M E-Mailaddress	all E-M il 1 ▼	E
Software version					Pre-trigger buffer	5 frames	-
					Post-trigger buffer	5 frames	-
Software upgrade					Continue image		
					Opload for 1	sec	
					O Upload during	trigger active	
					Image frequence	e Max 💽 fps	
	E Function	Preset 👻					
	Time:						
	File Name						
	File name · li	made ind					v



NOTE: Make sure SMTP or FTP configuration has been completed. Please refer to section 4.3.5 Mail and 4.3.6 FTP for further details.

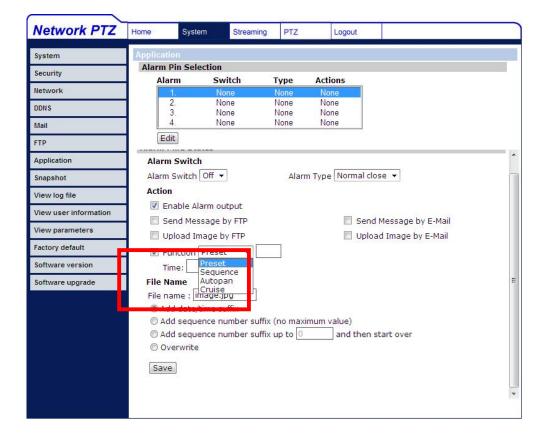
Function

Assign a camera function: Preset, Sequence, Autopan or Cruise, and specify a Preset Point/Sequence Line/ Autopan Path/Cruise Line for the camera to perform at an alarm occurrence.



NOTE: Please refer to the sections through <u>4.5.1</u> <u>Preset Programming</u> to <u>4.5.4 Sequence Line</u> <u>Programming</u> for details of Preset Point / Sequence Line / Autopan Path / Cruise Line setups.

If the selected function is "Preset," it is required to enter its dwell time (1 ~ 256 sec.) in the corresponding field as shown below. When the alarm is triggered, the camera will go to the selected Preset Point and stay there for a user-defined period of time. As for other function modes, the camera will keep executing the specified function; to stop the performance, simply change the camera's status.





NOTE: The dwell time is only adjustable when selecting **Preset** as the alarm action. When the dwell time is up, the network Speed Dome Camera will go back to its trigger position and recheck alarm pin status.

File Name

Enter a file name in the File name field, ex. image.jpg. The uploaded image's file name format can be set in this section. Please select the one that meets your requirements.

Add date/time suffix

File name: imageYYMMDD_HHNNSS_XX.jpg Y: Year, M: Month, D: Day H: Hour, N: Minute, S: Second X: Sequence Number

• Add sequence number suffix (no maximum value) File name: imageXXXXXX.jpg X: Sequence Number

Add sequence number suffix (limited value)

File Name: imageXX.jpg

X: Sequence Number

The file name suffix will end at the number being set. For example, if the setting is up to "10," the file name will start from 00, end at 10, and then start all over again.

•

Overwrite

The original image in the FTP site will be overwritten by the new uploaded file with a static filename.

<u>Save</u>

After complete all the settings mentions above, please click on the Save button to save all the settings in this page.

4.3.8 Snapshot

The network Speed Dome Camera supports JPEG snapshot function. Users can specify a storage location for the snapshots. The default setting is: C:\. Once confirm the setting, press "Save," and all the snapshots will be saved in the designate location.



NOTE: Make sure the selected file path contains valid

Network PTZ	Home	System	Streaming	PTZ	Logout	
System	Snapsh	iot				
Security	Snapst					
Network	0.55	mages stored	at: C:\		Select	
DDNS	Sa	ve				
Mail	1					
FTP	1					
Application	1					
Snapshot						
View log file	1					
View user information	1					
View parameters	1					
Factory default	1					
Software version	1					
Software upgrade	1					

characters such as letters and numbers.

4.3.9 View Log File

Click on the link to view the system log file. The content of the file provides useful information about configuration and connections after system boot-up.

ſ

Network PTZ	Home	System	Streaming	PTZ	Logout		
System	System	n log					
Security		[Mon Feb 19 20 [Mon Feb 19 20					-
Network		[Mon Feb 19 20 [Mon Feb 19 20	:01:01 2007]	-Host IP = :	192.168.7.81		
DDNS		[Mon Feb 19 20 [Mon Feb 19 20	:01:01 2007]	Gateway =	192.168.7.2	54	
Mail		[Mon Feb 19 20	:07:43 2007]	connect by	Admin@192	168.7.85	
FTP		[Mon Feb 19 20 [Mon Feb 19 20	:10:39 2007]	-connect by	Admin@192	168.7.28	
Application		[Mon Feb 19 20 [Mon Feb 19 20					
Snapshot		[Tue Feb 20 01	:58:27 2007] -	-connect by	Admin@192.	168.7.110	
view log tile	1						
view user information	1						
View parameters	1						
Factory default	1						
Software version	1						
Software upgrade		4					

4.3.10 View User Information

The Administrator can view each added user's login information and privileges (see <u>4.3.2 Security</u>).

View User Login Information

All the users in the network will be listed in the "User information" zone, as shown below. As the figure below shows: **User: 4321**

Network PTZ	Home	System	Streaming	PTZ	Logout	
System		ormation				
Security		lmin:1234 				*
Network	1 -					
DDNS	1					
Mail						
FTP						
Application						
Snapshot						
View log file						
View user information						
View parameters						
Factory default						
Software version						
Software upgrade	4					•
		get user info	rmation		get user privacy	

It indicates that one user's login username is: User, and password is: 4321.

View User Privilege

Press "get user privacy" down the page, and the Administrator can view each user's privileges.

Network PTZ	Home	System	Streaming	PTZ	Logout	
System	User info					
Security	223	dmin:1:1:1:1				^
Network	╹┕┿					
DDNS						
Mail						
FTP						
Application						
Snapshot						
View log file						
View user information						
View parameters						
Factory default						
Software version						
Software upgrade	4					•
		get user info	rmation		get user privacy	

As the figure above shows: **User: 1:1:0:1** 1:1:0:1= I/O access : Camera control : Talk : Listen (see <u>4.3.2</u> <u>Security</u>)

☑ I/O access	🗹 Camera control
🗌 Talk	🗹 Listen

Therefore, it denotes the user is granted privileges of I/O access, Camera control and Listen.

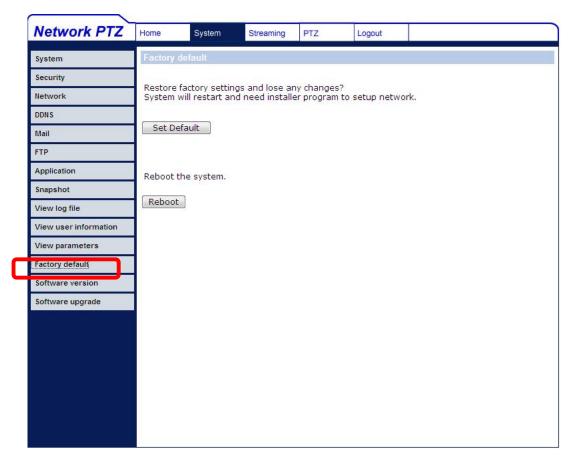
4.3.11 View Parameters

Click on this item to view the entire system's parameter setting.

System	Paran	neter list								
Security		Network PTZ Initial Configuration File								
Network	1	/=====================================								
DDN S	1									
Mail	1	exposure mod								
FTP	1	shutter speed								
Application	1	iris value = <6								
Snapshot	1	bright value =	<11>							
View log file		manual value •	= <6>							
View user information	1	manual gain =	<6>							
View parameters	1	white balance	mode = <auto< td=""><td>></td><td></td><td></td><td></td></auto<>	>						
Factory default	1	white balance	rgain = <10>							
Software version	1	white balance	bgain = <19>							
Software upgrade	1	i in is ▲		~						

4.3.12 Factory Default

The factory default setting page is shown as below. Follow the instructions to reset the network Speed Dome Camera to factory default settings if needed.



Set Default

Click on the "Set Default" button to recall the factory default settings. Then the system will restart in 30 seconds.



NOTE: The IP address will be restored to default.

Reboot

Click on the "Reboot" button, and the system will restart without changing current settings.

4.3.13 Software Version

The current software version is displayed in the software version page, which is shown as the figure below.

Network PTZ	Home	System	Streaming	PTZ	Logout	
System	Softwa	re version				
Security	1					
Network	1					
DDNS	1					
Mail	1					
FTP	1					
Application	1					
Snapshot	The sol	ftware version	is d2010061	8NS		
View log file	1					
View user information	1					
View parameters	1					
Factory default	1					
Software version	1					
Software upgrade	1					

4.3.14 Software Upgrade

Software upgrade can be carried out in the "Software Upgrade" page, as shown below.

Network PTZ	Home	System	Streaming	PTZ	Logout	
System	Upgrade					
Security	Follow The	se Steps	To Do The Soft	ware Upg	rade	
Network						
DDNS	Step1:					
Mail	Uploa	d the bina	1374			
FTP			Brow	se		
Application	Step2:					
Snapshot		80	e you want to	upgrade		
View log file		ind.jffs2	•			
View user information	Step3:				1	
View parameters	Click	the upgra	de button to st	art the up	grade process	
Factory default	Upgr	oher				
Software version		aue				
Software upgrade	1					

NOTE: Make sure the upgrade software file is available before carrying out software upgrade.

The procedure of software upgrade is like the following:

Step 1: Click "Browse" and select the binary file to be uploaded, ex. userland.jffs2.

NOTE: Do not change the upgrade file name, or the system will fail to find the file.

Step 2: Pull down the upgrade binary file list and select the interval of the upgrade; in this case, select "userland.jffs2."

Step 3: Press "Upgrade". The system will first check whether the upgrade file exists or not, and then begin to upload the upgrade file. Subsequently, the upgrade status bar will display on the page. When it runs to 100%, the upgrade process is finished.

Network PTZ	Home	System	Streaming	PTZ	Logout	
System	Upgrade					
Security						
Network		s in Process				
DDNS	Please D	on't Power-	Off The Syste	m And Chai	nge The Page.	
Mail						
FTP				Upgrade now	Please wait	
Application	000					i i i i i i i i i i i i i i i i i i i
Snapshot				4	1%	
View log file						
View user information						
View parameters						
Factory default						
Software version						
Software upgrade						

After the upgrade process is finished, the viewer will return to Home page.

- **Step 4:** Close the video browser.
- Step 5: Click "Control Panel", and then double click "Add or Remove Programs." In the "Currently install programs" list, select "DCViewer" and click the button "Remove" to uninstall the existing DC Viewer.
- Step 6: Open a new web browser, re-login the IP Camera, and then allow the automatic download of DC Viewer.

4.4 Video and Audio Streaming Settings

Press the tab "Streaming" in the top of the viewer window, and the configurable video and audio items will display in the left column. Configuration under the "Streaming" category include video resolution, video compression mode, video protocol, audio transmission mode, etc. Further details of these settings will be specified in the following sections.

4.4.1 Video Resolution and Video Deinterlacing Function

The video setting page is shown below:

 ○ H.264 D1 (30fps) + MJPEG CIF (30fps) ○ H.264 D1 (30fps) + H.264 D1 (30fps) 	Vetwork PTZ	Home	System	Streaming	PTZ	Logout						
deo Compression deo OCX Protocol deo Frame Skip adio H.264 D1 (30fps) + MJPEG CIF (30fps) H.264 D1 (30fps) + H.264 D1 (30fps) H.264 D1 (30fps) + H.264 D1 (30fps) Save Note : Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected. Video Deinterlace : @ 3D Deinterlacing O Intra Field Deinterlacing O Inter Field Deinterlacing Bave GOV Settings : H.264-1 GOV Length : 30 H.264-2 GOV Length : 30		Video F	ormat									
ideo OCX Protocol ideo OCX Protocol ideo Frame Skip udio H.264 D1 (30fps) + MJPEG CIF (30fps) H.264 D1 (30fps) + H.264 D1 (30fps) H.264 D1 (30fps) + H.264 CIF (30fps) Save Note: Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected. Video Deinterlace: 0 3D Deinterlacing 1 Intra Field Deinterlacing 1 Intra Field Deinterlacing 1 Intra Field Deinterlacing 1 Inter Field Deinterlacing 1	ideo Compression	Video R										
Audio H.264 D1 (30fps) + H.264 D1 (30fps) H.264 D1 (30fps) H.264 D1 (30fps) + H.264 CIF (30fps) Save Note: Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected. Video Deinterlace: 0 3D Deinterlacing 1 Intra Field Deinterlacing 2 Inter Field	/ideo OCX Protocol	1										
udio O H.264 D1 (30fps) + H.264 CIF (30fps) Save Note : Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected. Video Deinterlace : @ 3D Deinterlacing O Intra Field Deinterlacing O Intre Field Deinterlacing O Inter Field Deinterlacing (off) Save GOV Settings : H.264-1 GOV Length : 30 H.264-2 H.264-2 H.264-2 H.264-2 H.2	ideo Frame Skip	1										
Save Note : Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected. Video Deinterlace : ③ 3D Deinterlacing ⑤ Intra Field Deinterlacing ⑥ Inter Field Deinterlacing ⑤ Inter Field Deinterlacing ⑤ Inter Field Deinterlacing ⑥ Inter Field Deinterlacing (off) Save GOV Settings : H.264-1 GOV Length : 30 H.264-2 GOV Length : 30	udio											
Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected. Video Deinterlace : ③ 3D Deinterlacing ③ Intra Field Deinterlacing ③ Inter Field Deinterlacing (off) Save GOV Settings : H.264-1 GOV Length : 30 H.264-2 GOV Length : 30				DI (30lps) + H	.204 CIF (3	oips)						
is selected. Video Deinterlace : ③ 3D Deinterlacing ③ Intra Field Deinterlacing ③ Inter Field Deinterlacing (off) Save GOV Settings : H.264-1 GOV Length : 30 H.264-2 GOV Length : 30		Note :										
 ③ 3D Deinterlacing ④ Intra Field Deinterlacing ④ Inter Field Deinterlacing (off) Save GOV Settings : H.264-1 GOV Length : 30 H.264-2 GOV Length : 30 		Image attachment by FTP or E-mail will be available only while MJPEG streaming										
 Intra Field Deinterlacing Inter Field Deinterlacing (off) Save GOV Settings : H.264-1 GOV Length : 30 H.264-2 GOV Length : 30 		Video D	Video Deinterlace :									
 Inter Field Deinterlacing (off) Save GOV Settings : H.264-1 GOV Length : 30 H.264-2 GOV Length : 30 			③ 3D Dei	nterlacing								
Save GOV Settings : H.264-1 GOV Length : H.264-2 GOV Length :			🔘 Intra F	ield Deinterlaci	ng							
GOV Settings : H.264-1 GOV Length : 30 H.264-2 GOV Length : 30			🔘 Inter F	ield Deinterlaci	ng (off)							
H.264-1 GOV Length : 30 H.264-2 GOV Length : 30		Save										
H.264-2 GOV Length : 30		GOV Settings :										
		H.264-1 GOV Length : 30										
Save		H.264-2 GOV Length : 30										
		Save										

Video Resolution

The network Speed Dome Camera provides two sets of video dual streaming formats like the following:

H.264 D1 (30fps) + MJPEG D1 (30fps)

- H.264 D1 (30fps) + MJPEG CIF (30fps)
- H.264 D1 (30fps) + H.264 D1 (30fps)
- H.264 D1 (30fps) + H.264 CIF(30fps)

Click "Save" to confirm the Video Format setting.

Video Deinterlace

The network Speed Dome Camera supports de-interlacing function. Users can either choose to activate de-interlacing function or disable the function by selecting a mode from the list as shown below:

- 3D Deinterlacing
- Intra Field Deinterlacing
- Inter Field Deinterlacing (off)

Click "Save" to confirm the Video Format setting.

GOV Settings

Users can set the GOV length to determine the frame contracture (I-frames and P-frames) in a video stream for saving bandwidth. Longer GOV means decreasing the frequency of I-frames.

Click "Save" to confirm the GOV setting.

4.4.2 Video Compression

Users can select a proper MJPEG/H.264 compression mode on the

video compression page (see the figure below), depending on the application.



MJPEG compression settings include:

- high compression, low bitrate, low quality
- middle compression, default
- low compression, high bitrate, high quality

H.264 compression settings include:

- highest compression, lowest quality
- middle compression, default
- low compression , highest quality

Users can also choose whether to display compression information in Home page.

Click "Save" to confirm the setting.

CBR Mode Setting

Network PTZ	Home	System	Streaming	PTZ	Logout	
Video Format	Video Co	mpression				
Video Compression		ompression			10.	
Video OCX Protocol	25050.000		on , low bitrat sion , default	e , low qua	ality	
Video Frame Skip	a stores and a		n , high bitrat	e , high gu	ality	
Audio	Save	-				
		mpression				
			ssion , lowest	quality		
			sion , default n , highest qu	ality		
			ion informatio		ome page	
	Save	-				
(Stephens and a set	e setting :				
	man hadeler	H.264-1 CBF H.264-2 CBF				
	Save	11.204-2 001	(IIIO) C			

The CBR (Constant Bit Rate) mode could be the preferred bit rage mode if the bandwidth available is limited. It is important to take account of image quality while choosing to use CBR mode.

4.4.3 Video OCX Protocol

In the Video OCX protocol setting page, users can select RTP over

UDP, RTP over TCP, RTSP over HTTP or MJPEG over HTTP, for streaming media over the network. In the case of multicast networking, users can select the Multicast mode. The page is shown as follows.

Network PTZ	Home	System	Streaming	PTZ	Logout	
Video Format		DCX Protocol				
Video Compression		OCX protocol	setting :			
VIDEO OCA PIOLOCOI	100000	ፑ over UDP ፑ over RTSP(T	CD)			
Video Frame Skip		SP over HTTP	CF)			
Audio		IPEG over HTTI	P			
	© Mu	ulticast mode				
		Multicast IP A	ddress	0.0.0.0		
		Multicast H.26	54-1 Video Por	to		
		Multicast H.26	54-2 Video Por	t O		
		Multicast MJPI	EG Video Port	0		
		Multicast Aud	io Port	0		
		Multicast TTL		1		
	Save	2				
	Note					
	Thi	s page only a	pplies to video	streams go	ping to a DC Viewer.	

Video OCX protocol setting options include:

RTP over UDP/ RTP over RTSP(TCP)/ RTSP over HTTP/ MJPEG over HTTP

Select a mode according to your data delivery requirements.

Multicast Mode

Enter all required data, including multicast IP address, H.264 video port, MJPEG video port, audio port and TTL into each blank.

Click "Save" to confirm the setting.

4.4.4 Video Frame Skip

Video frame skipping is for saving bandwidth, if necessary. The

setting page is as shown below.

Network PTZ	Home	System	Streaming	PTZ	Logout				
Video Format	Video Fr	rame Skip							
Video Compression	O No s	skipping, defa	ault						
Video OCX Protocol	Frai	me skipping a	at 5 frame inte	rnal					
чиео гтапе экір		Frame skipping at 5 frame internal							
Audio	🔘 Fran	me skipping a	at 10 frame int	ernal					
	🔘 Fran	me skipping a	at 15 frame int	ernal					
	Save	1							

MJPEG/ H.264 Frame Skip options include:

- No skipping, default
- Frame skipping at 5 frame internal (lowest frame loss rate)
- Frame skipping at 10 frame internal
- Frame skipping at 15 frame internal (highest frame loss rate)



NOTE: Higher frame skipping rate will decrease video smoothness.

4.4.5 Audio Mode and Bit Rate Settings

The audio setting page is show as below. In the Audio page, the

Administrator can select one transmission mode and audio bit rate.

Network PTZ	Home	System	Streaming	PTZ	Logout	
Video Format	Audio					
Video Compression	Transmi	ssion Mode:				
Video OCX Protocol	O FL	I <mark>l-duple</mark> x (Ta	lk and <mark>listen s</mark> i	imultaneou	sly)	
Video Frame Skip	© Ha	alf-duplex (Ta	alk or listen, no	ot at the sa	me time)	
Audio	🔘 Si	mplex (Talk o	inly)			
	🔘 Si	mplex (Lister	n only)			
	🖲 Di	sable				
	Bit Rate:	uLAW	•			
		Save	2			

Transmission Mode

• Full-duplex (Talk and Listen simultaneously)

In the Full-duplex mode, the local and remote sites can communicate with each other simultaneously, i.e. both sites can speak and be heard at the same time.

• Half-duplex (Talk or Listen, not at the same time)

In the Half-duplex mode, the local/remote site can only talk or listen to the other site at a time.

• Simplex (Talk only)

In the Talk only Simplex mode, the local/remote site can only talk to the other site.

• Simplex (Listen only)

In the Listen only Simplex mode, the local/remote site can only listen to the other site.

• Disable

Select the item to turn off the audio transmission function.

Bit Rate

Selectable audio transmission bit rate include 16 kbps (G.726), 24 kbps (G.726), 32 kbps (G.726), 40 kbps (G.726), uLAW (G.711) and ALAW (G.711). Both uLAW and ALAW signify 64 kbps but in different compression formats. Higher bit rate will let higher audio quality and require bigger bandwidth.

Click "Save" to confirm the setting.

4.5 PTZ Settings

Under the "PTZ" category, users are allowed to program Preset Point(s), Cruise Line(s), Auto Pan Path(s) and Sequence Line(s) via PTZ controls. Additionally, various camera settings including Exposure, White Balance (WB), Back Light Compensation (BLC), Sharpness, Exposure Compensation, Digital Zoom, etc. also can be set here.

Details of each camera related settings are described in the following sub-sections.

4.5.1 Preset Programming

Network PTZ	Home System Streaming PTZ Logout
Preset	Preset Point
Cruise	Preset Setting
Auto Pan Sequence	PrePage NextPage Num(1~10): 1
Home	Name:
Tilt Range	Set Delete
Privacy Mask	Preset Go
Camera - Exposure Camera - WB	Presetlist 🗸
Camera - Misc1	
Camera - Misc <mark>2</mark>	Zoom wide tele
Camera - Default	Focus auto manual near far

Totally 256 Preset Points can be programmed for the network Speed Dome Camera. Please refer to the instructions below to set a Preset Point.

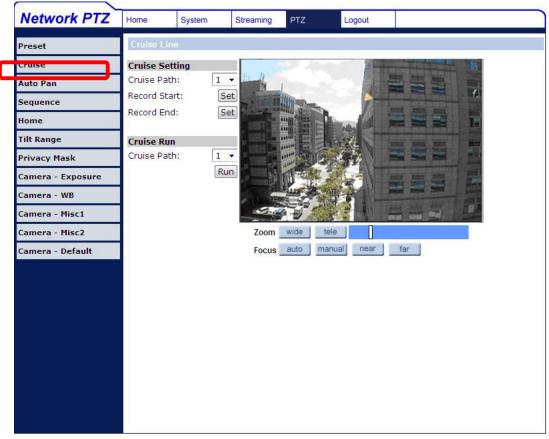
Preset Setting

To setup a Preset Point, please first move the cursor to the live view pane. Then left click and drag the red pointer with PTZ controls to a desired position. Subsequently, assign a number for the current position from the drop-down Number List, and enter its descriptive name. Press the button "Set" to save the settings mentioned above.

Preset Go

To have the camera move to a specified Preset position, please select the Preset Point from the drop-down Presetlist. Then the camera shall readily move to the target position.

4.5.2 Cruise Programming



The network Speed Dome Camera supports up to eight Cruise Paths. Please follow the instructions below for Cruise Path setup.

Cruise Setting

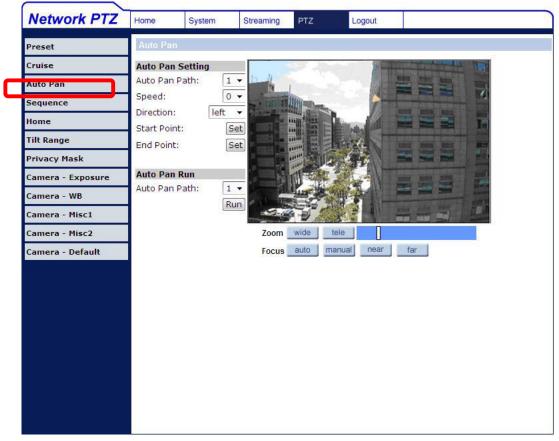
To setup a Cruise Path, please first select a path number from the drop-down list. Then move the cursor to the live view pane, and move the camera to a desired view (PTZ controls) as the start point of a Cruise Path. Press the "Set" button of "Record Start" and start programming the Cruise Path via PTZ controls. When finishing programming, press the "Set" button of "Record End" to quit. Then this Cruise Path will be automatically recorded.

Cruise Run

Select the specified Cruise Path from the drop-down list, press the "Run" button, and then the camera will start touring around as recorded.

To view the camera touring around in full screen mode, please move the cursor onto the live view pane, right-click and left-click to select "fullscreen". Then users can view the camera navigation in full screen. To stop running a Cruise Path, simply move the cursor to the live view pane and move the camera in any direction.

4.5.3 Auto Pan Programming



The network Speed Dome Camera supports four Auto Pan Paths. Please refer to the instructions below to set an Auto Pan Path.

Auto Pan Setting

To setup an Auto Pan Path, please first select a path number from the drop-down list. Then move the cursor to the live view pane, and move the camera to a desired view as the Start Point of an Auto Pan Path. Click the "Set" button of the "Start Point", and the current view will be automatically saved as the start point of the Auto Pan Path.



NOTE: The room ratio of an Auto Pan's Start Point will persist throughout the whole path.

Enter the speed ratio into the Speed field; the speed ratio ranges

from 0 (low) to 3 (fast). Then choose to run the Auto Pan Path in right/left direction from the Direction drop-down list.

Move the camera to another desired position as the end point of the Auto Pan Path. Click the "Set" button of the "End Point" for saving the setting.

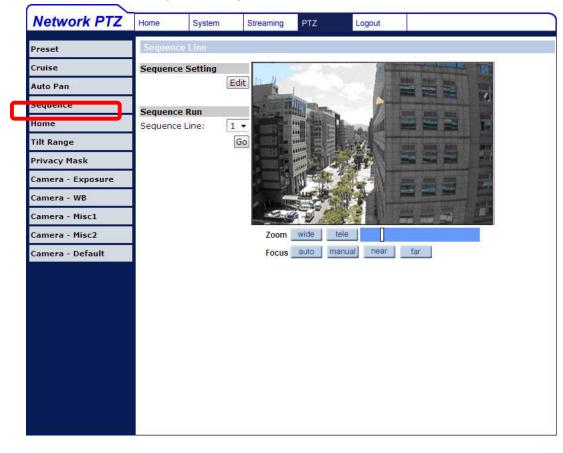
Auto Pan Run

Select the specified Auto Pan Path from the drop-down list, press the "Run" button, and then the camera will start moving horizontally as recorded.

To view the camera panning in full screen mode, please move the cursor onto the live view pane, right-click and left-click to select "fullscreen". Then users can view the camera navigation in full screen.

To stop running an Auto Pan Path, simply move the cursor to the live view pane and move the camera in any direction.

4.5.4 Sequence Line Programming



The Network Speed Dome Camera supports totally eight Sequence Lines; each Sequence Line consists of up to 64 Preset Points. Please refer to the instructions below to program a Sequence Line.



NOTE: Before setting this function, users must pre-define at least two Preset Points.

Sequence Setting

Please press the "Edit" button in "Sequence Setting" section to enter the Sequence setting menu as shown in the next page.

Network PTZ	Home	System	Streaming	PTZ	Logout	
Preset	Sequen	ce Set				
Cruise	Converse	e Line: 🚺 🔻			Save	
Auto Pan	Sequence	e Line: 1 🔻			Dave	
Sequence	Preset	Name	Dwell	Time S	peed	
lome	1.	no setting	🔻			
filt Range	2.	no setting	🔻			
Privacy Mask	3.	no setting	•			
Camera - Exposure	4.	no setting				
Camera - WB	5.	no setting				
Camera - Misc1	6.	no setting				
Camera - Misc2	7.	no setting				
Camera - Default	8.	no setting				
camera - Derault	9.	no setting				
	10.	no setting				
	11.	no setting				
	12.	no setting				
	13.	no setting				
	14.	no setting				
	15.	no setting				
			Pre P	age Nex	t Page	

• Sequence Line

Please select the number of Sequence Line to be set from the drop-down list in the top of the Sequence setting menu.

Sequential Preset Points Setting

Please setup each Preset Point of the programmed Sequence Line in order, assigning a Preset Point from the "Name" list for the specified number of Preset Point and entering both Dwell Time (0~225) and Speed (0~20) into the

corresponding fields.

When finishing the sequential Preset Points setting, please click the button "Save" in the top of the Sequence setting menu.

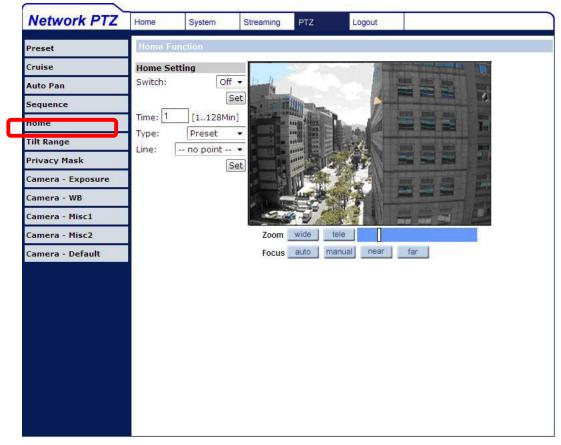
Sequence Run

Select the specified Sequence Line from the drop-down list, press the "Go" button, and then the camera will start moving forward each scene sequentially as programmed.

To view the camera executing a Sequence Line in full screen mode, please move the cursor onto the live view pane, right-click and leftclick to select "fullscreen". Then users can view the camera navigation in full screen.

To stop running the Sequence Line, simply move the cursor to the live view pane and move the camera in any direction.

4.5.5 Home Function



Users are able to set an operation mode to ensure constant

monitoring. If the network Speed Dome Camera idles for a period of time, the selected function will be activated automatically; this is the HOME function. The HOME function allows constant and accurate monitoring to avoid the Dome Camera idling or missing events.

Home Setting

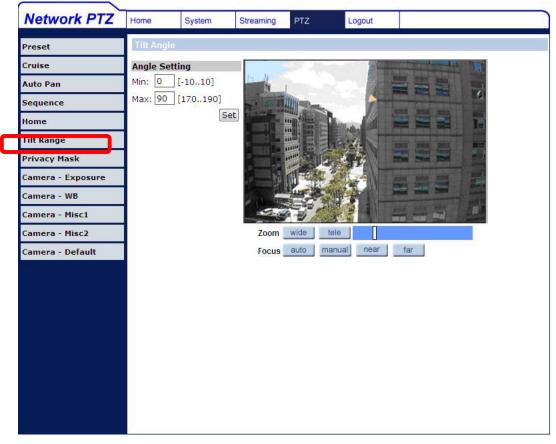
Activate/Disable Home Function

Select "On" or "Off" to activate or disable the Home function. Then press the "Set" button to save the setting.

- Time The time here represents the duration of camera idle time previous to running a Preset Point/Cruise Line/Auto Pan Path/Sequence Line. When the Home function is activated, the Dome Camera will start to count down when it idles, and then execute the predefined action as time expires. The time period ranges from 1 to 128 minutes; please specify it in the field.
- Action Type

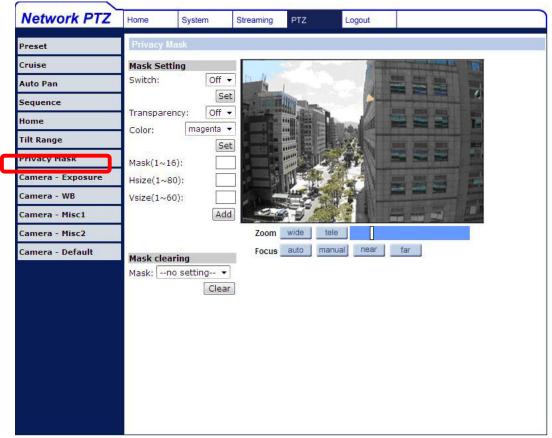
Please select a Home action type (Preset Point/Cruise Line/Auto Pan Path/Sequence Line) and specify the number of Preset Point/Cruise Line/Auto Pan Path/Sequence Line from the drop-down "Type" and "Line" lists. Press the button "Set" to save the Home settings.

4.5.6 Tilt Angle Settings



The network Speed Dome Camera's tilt angle is adjustable from minimum -10° to maximum 190°. Please enter the desired min. and max. tilt angle into the corresponding fields respectively. Press the "Set" button to save the tilt angle settings.

4.5.7 Privacy Mask Settings



The Privacy Mask function aims to avoid any intrusive monitoring. When setting a mask, it is suggested to set it at least *twice bigger* (height and width) than the masked object. The Dome Camera will assume the center of the selected view as a starting point. Therefore, please keep the target object/region nearly positioned in the center of the scene. Refer to the following descriptions for setting a privacy mask.



NOTE: The Image Flip function (see section <u>4.5.10 Camera</u><u>Miscellaneous Setups Menu 1</u>) and the Image Inverse function (see section <u>4.5.11 Camera</u><u>Miscellaneous Setups Menu 2</u>) will be disabled automatically while the Privacy Mask function is enabled.

Mask Setting

Activate/Disable Privacy Mask Function

The Privacy Mask function can be activated or disabled. Press the button "Set" to save the setting.

• Activate/Disable Transparency Mask

The Privacy Mask can be set as transparency if necessary.

Color Setting

Select a desired color from the "Color" drop-down list for the specified Privacy Mask.

Press the button "Set" to save the Privacy Mask's color properties.

Mask Number

Specify the number of the programmed Privacy Mask in the corresponding field. The numbers of Privacy Masks vary with camera models.

• Mask Size

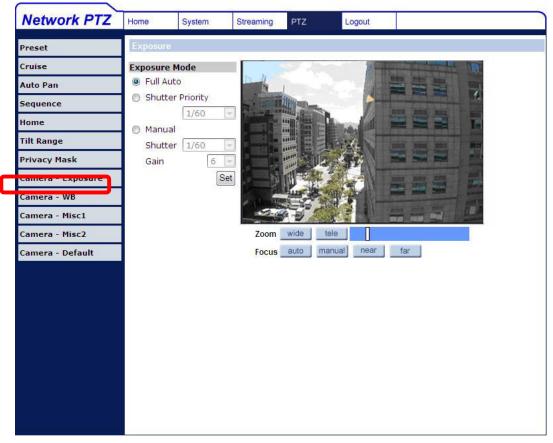
The size of a Privacy Mask can be customized through specifying its horizontal and vertical size. The value of "Horizontal Size" ranges from 1 ~80, while that of "Vertical Size" ranges from 1 ~60.

After finishing the setup of a Privacy Mask, press the button "Add" to save the programmed Privacy Mask.

Mask Clearing

In this section, users can delete an existing Privacy Mask. Please select the Privacy Mask to be removed from the drop-down list, and press the button "Clear". Then the selected Privacy Mask will readily disappear.

4.5.8 Camera— Exposure



In the Exposure Mode setting page, users can select either the "Full Auto" mode or adjust the parameter of the Shutter/Iris/Bright Priority mode for optimized video output in accordance with the operating environment.

Shutter Priority Mode

In this mode, it is shutter speed that takes main control of exposure. The range of shutter speed is from $1/10000 \sim 1$.

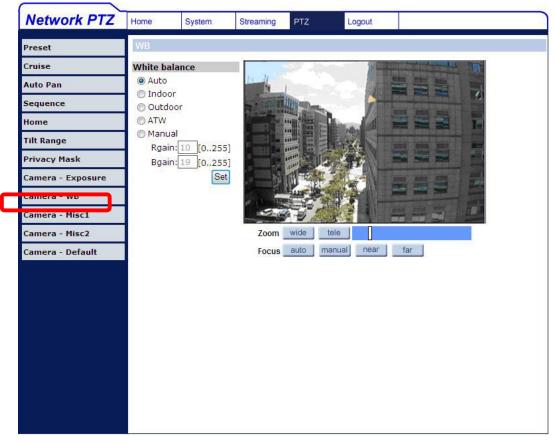
Iris Priority Mode

In this mode, it is iris that has premier priority in control of exposure. The value of iris is adjustable from $1 \sim 17$.

Bright Priority Mode

The bright value ranges from $1 \sim 15$.

4.5.9 Camera—WB Mode



A camera needs to find reference color temperature, which is a way of measuring the quality of a light source, for calculating all the other colors. The unit for measuring this ratio is in degree Kelvin (K). Users can select one of the White Balance Control modes according to the operating environment. The following table shows the color temperature of some light sources for reference.

Light Sources	Color Temperature in K
Cloudy Sky	6,000 to 8,000
Noon Sun and Clear Sky	6,500
Household Lighting	2,500 to 3,000
75-watt Bulb	2,820
Candle Flame	1,200 to 1,500

Auto Mode

In this mode, white balance works within its color temperature range and calculates the best-fit white balance.

Indoor/outdoor Mode

Select for indoor or outdoor mode.

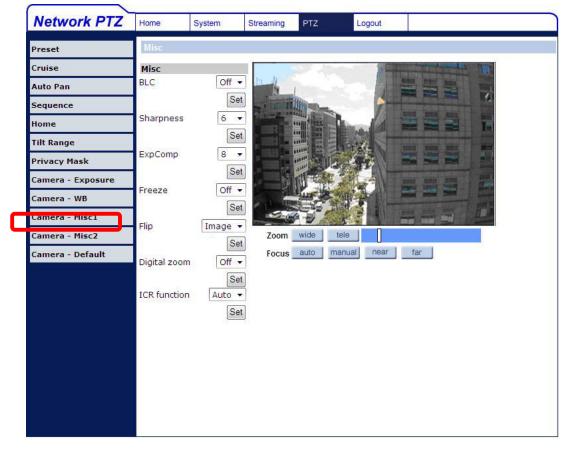
ATW Mode (Auto Tracing White Balance)

The Dome Camera takes out the signals in a screen in the range from 2000 K to 10000 K.

Manual Mode

In this mode, users can change the White Balance value manually via specifying R gain and B gain; the range of R/B gain is from 0 to 255.

4.5.10 Camera—Miscellaneous Setups Menu 1



In the Camera—Misc (Miscellaneous) Setups Menu 1, users can set various camera parameters including Backlight Compensation (BLC), Sharpness, Exposures Compensation (ExpComp), Image Freeze, Image Flip, Digital Zoom and ICR function. Each setting is specified as follows:

<u>BLC</u>

Users can choose to activate or disable the BLC function. Press the button "Set" to save the setting.

Sharpness

Increasing the sharpness level can make the image looked sharper; especially enhancing the object's edge. The Sharpness value is adjustable from 1 to 15. Press the button <Set> to confirm the setting.

ExpComp

Users can define the value of Exposure Compensation; the value ranges from 1 to 15.

Freeze

Freeze function allows to hold the image while the camera is moving between preset positions such as in Preset mode and Sequence mode. Users can choose to activate or disable the function. Press the button "Set" to save the setting.

<u>Flip</u>

Users can track an object continuously when it passes through under the Dome Camera with setting Flip to Mechanical (M.E.) mode or Digital Flip (Image) mode.



NOTE: Flip setting is manual-controlled only. If a Preset Position or a point for other function (ex. Sequence) is set in the position that can only be reached through FLIP motion, when Flip function is turned off, the position cannot be reached anymore.



NOTE: To make the Dome Camera tilt between a specific range, such as -10° to +100° or -10° ~ +190°, please go to the Tilt Range setting page to set the tilt angle range. Otherwise, the Dome Camera will tilt 90° as the default setting.

• M.E. Mode

M.E. is a standard mechanical operation. As the Dome Camera tilts to the maximum angle, it will pan 180°, and then continue tilting to keep tracking objects.

• Image Mode

IMAGE represents digital IMAGE FLIP, which enables users to keep tracking objects seamlessly; under the mode, almost

no delay occurs in comparing with that under the M.E. mode.



NOTE: The Privacy Mask function will be automatically disabled if the Image Flip function is enabled.

Digital Zoom

The network Speed Dome Camera can supports up to 12x Digital Zoom. Press the button "Set" to save the setting.

ICR Function

With the IR cut filter, the camera can still catch clear image at night time or in low light conditions.

• Auto

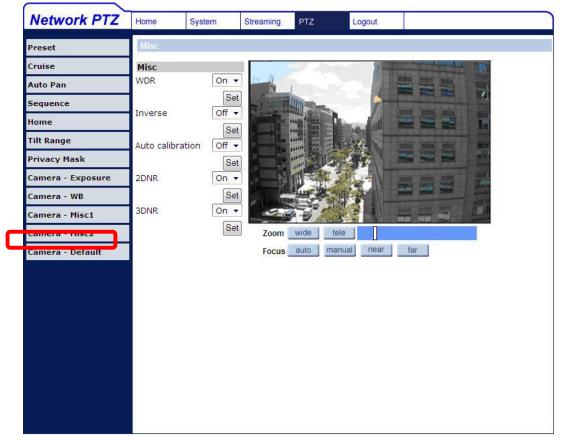
In the Auto mode, the internal circuit will automatically decide the occasion to remove the IR cut filter according to the image brightness level.

• On

Select the item to remove the IR cut filter.

• Off

Select the item to disable IR function.



4.5.11 Camera—Miscellaneous Setups Menu 2

In the Camera—Misc (Miscellaneous) Setups Menu 2, users can setup various functions such Wide Dynamic Range (WDR), Image Inverse, Auto Calibration, and 2D/3D Noise Reduction (2DNR/3DNR).

<u>WDR</u>

The WDR function is especially effective in environment with extreme contrast. Press the button "Set" when finishing the setting.

<u>Inverse</u>

When the Image Inverse function is activated, the image will be inversed vertically and horizontally. Press the button "Set" to save the setting.

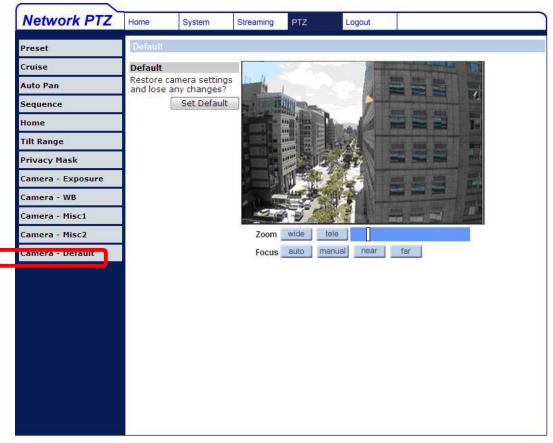
Auto Calibration

With the Auto Calibration function, the network Speed Dome Camera calibrates when the deviation of dome pivot is detected. Press the button "Set" when finishing setting.

2D/ 3DNR

With the 2D/3D Noise Reduction function, the processor analyzes pixel by pixel and frame by frame to eliminate environmental noise signal so that the highest quality image can be produced even in low light conditions. In comparison with 2DNR, 3DNR generates better de-noising effects. Press the button "Set" when finishing setting.

4.5.12 Default Settings



In the Camera Default page, users can set the camera back to factory default settings simply by pressing the "Set Default" button.

4.6 Logout

Press the tab "Logout" in the top of the page, and the login window will pop up. This enables login with another user name.

Network PTZ	Home	System	Streaming	PTZ	Logout	
	Manual	The series warning passwork	ne and password. I: This server is re rd be sent in an in a secure connecti me: 1: rd:	3 at Megapixel questing that : secure manner	Cancel	19 23:43
	Zoom Focus MJPEG b	ormat H.26 wide tele auto manua itrate : middle co rate : low compre	near mpression , mic	far die quality	1 x1/2 Full t	

5. CMS Software Introduction

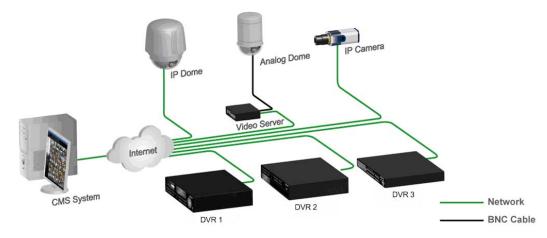
The IP camera bundles Central Management System (CMS) software. Offering powerful functionalities via intuitive interface, it is a centralized monitoring solution of your video surveillance equipments.

It gives the user access to monitor multiple IP cameras and Digital Video Recorders (DVRs), and allows the user to simultaneously monitor 64 sites per group (up to 10 groups) within several clicks.

For further information on CMS software, please refer to the supplied CD.



Note: The free bundle CMS is a function-limited software. For additional features, please purchase a licensed CMS.



Appendix A: Technical Specificat

Items		DH	510	DH610			
CAMERA							
CCD Sensor			Sony	CCD			
Optical Zoom			12	x			
Digital Zoom		1× ~ 12× variable					
Effective Pixels	NTSC	380k	480k	380k	480k		
Effective Pixels	PAL	440k	570k	440k	570k		
Horizontal Resolut	tion	540 TVL	650 TVL	540 TVL	650 TVL		
Scanning System			NTSC	/ PAL			
Video Output			1.0 Vp-p /	75 Ω, BNC			
S/N Ratio			> 50 dB (/	AGC Off)			
Minimum Illuminat	tion		0.1 lux; 0.0	1 lux (B/W)			
Focal Length			3.8 ~ 45	5.6 mm			
Focus Mode			Auto /	Manual			
White Balance			Auto / Manual / I	ndoor / Outdoor			
Iris Control		Auto / Manual					
Electronic Shutter		1/1 ~ 1/10k sec.					
AGC control		Auto / Manual					
Back Light Compe	nsation		On /	Off			
OPERATION							
Pan Travel			360° e	ndless			
Tilt Travel			-10° ~	· 190°			
Manual Speed			1°~8	30°/s			
Presets			25	6			
Preset Accuracy	set Accuracy			0.225°			
Preset Speed		10° ~ 400°/s					
Sequence		8					
Auto Pan			4				
Cruise			8	}			
Privacy Mask		16					
Proportional Pan &	& Tilt	On/Off (Pan and tilt speed proportional to zoom ratio)					
Resume after Pow	er loss		Ye	2S			
Zone Title		16					
Home Function		Preset, Sequence, Auto pan, Cruise					
Auto Flip			Digital / Mec	hanical / Off			
Digital Slow Shutte	or.		On / Off				

Items	DH510	DH610	
Wide Dynamic Range	On / Off		
Day/Night: IR Cut Filter	On / Off		
2D	On/Off		
Noise Reduction 3D	On	′Off	
Image Inverse	On /	′ Off	
Image Freeze	On /	′ Off	
Networking			
Video Compression	H.264 Main Profile MJPEG		
Video Streaming		H.264 H.264 + MJPEG	
Video Size		80/ PAL 720x576 <240 / 352x288	
Frame Rate	30 frames/second @ D1 Resolution		
Audio Comprerssion	G.726 ADPCM, AAC		
Audio Streaming	Full-duplex, Half-duplex, Simplex		
Networking	10/100 baseT Ethernet		
Protocols	TCP/UDP/IP, HTTP,FTP,SMTP,ARP,ICMP,DHCP,Telnet, RTP/RT		
Alarm	4 digital alarm inputs / 1 alarm outputs		
Alarm Reaction	Preset, Sequence	, Auto pan, Cruise	
Security	User Account and F	Password Protection	
Supported Web Browser	Windows - Microsoft Inte	rnet Explorer 6.x or later	
GENERAL	-		
Environment Indoor / Outdoor		Outdoor	
Controller Interface	RS-	485	
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F) -30°C ~ 45°C (-22°F		
Waterproof Standard	_	IP66 standard	
Dimension	Ø156 x 203 mm (5.2 x 8.0 Inches)	 ∞172 x 260 mm (6.8 x 10.2 Inches); ∞190 x 260 mm (7.5 x 10.2 Inches) w/ sunshield 	
Weight	1.2 kg (2.6 lbs)	2.1 kg (4.6 lbs)	
Power Source	DC12V / AC24V ± 10%	AC24V ± 10%	
Power Consumption	18 W	52 W (with Heater)	
Regulatory	CE, FC	C, RoHS	

Appendix B: Internet Security Settings

If ActiveX control installation is blocked, please either set Internet security level to default or change ActiveX controls and plug-ins settings.

Internet Security Level: Default

- **Step 1:** Start the Internet Explorer (IE).
- **Step 2:** Select <Tools> from the main menu of the browser. Then Click <Internet Options>.

🤌 MSN.com - Windows Intern	et Explorer				
🚱 🗸 📢 http://www.m	sn.com/?st=1		• 49	X Live Search	2
File Edit View Favorites	Tools Help				
🚖 🏟 📢 MSN.com	Delete Browsing History		6	🔻 🔊 👻 🖶 👻 🔂 Page 🕶 🎯	Tools 🔻
Hotmail Messenger Bing	Pop-up Blocker Phishing Filter Manage Add-ons				a)
msn	Subscribe to this Feed Feed Discovery Windows Update		bing	Web Search	
News Entertai	Diagnose Connection Problems Sun Java Console	Lifestyle	More	Make MSN my homepage	Set
Wednesday, May 26, 2010	Internet Options				

Step 3: Click the <Security> tab, and select <Internet>.

Internet Options 📃 🗖 🔤 🔫
General Security Privacy Content Connections Programs Advanced
Select a zone to view or change security settings.
Internet Local intranet Trusted sites Restricted
sites
Internet This zone is for Internet websites, Sites
except those listed in trusted and restricted zones.
Security level for this zone
Custom
Custom settings. - To change the settings, click Custom level.
- To use the recommended settings, click Default level.
Custom level Default level
Reset all zones to default level
OK Cancel Apply

Step 4: Down the page, press "Default Level" (see the figure above) and click "OK" to confirm the setting. Close the browser window, and open a new one later when accessing the IP Camera.

ActiveX Controls and Plug-ins Settings Step 1~3: Refer to the previous section above.

Step 4: Down the page, press "Custom Level" (see the figure below) to change ActiveX controls and plug-ins settings.



The Security Settings screen is displayed as below:

tings			
and a second second	eX controls and plug-ins		
	Allow previously unused Activ	ex controls to ru	n without prom
0	 Disable Enable 		-
	Allow Scriptlets		
	Disable		
6	D Enable		
0	Prompt		
	Automatic prompting for Activ	eX controls	
(🔵 Disable		
0	Enable		
🥥 E	Binary and script behaviors		
(Administrator approved		
0	Disable		
	Enable	8 8	
	<u>)icolay video and animation o</u> III	n a webnade th:	et does not use
akes ef	fect after you restart Interne	t Explorer	
	om settings		-
set to:	Medium-high (default)	-	R <u>e</u> set
	No		

Step 5: Under "ActiveX controls and plug-ins", set ALL items (as listed below) to <Enable> or <Prompt>.

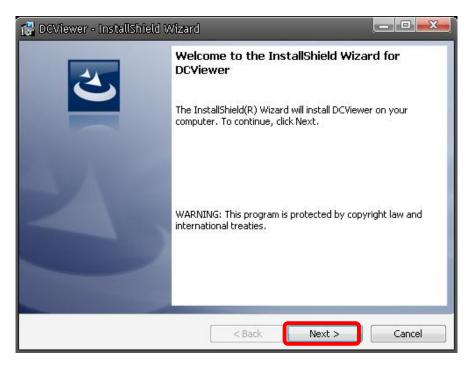
ActiveX controls and plug-ins settings:
Automatic prompting for ActiveX controls
Binary and scrip behaviors
Download signed ActiveX controls
Download using ActiveX controls
Initialize and script ActiveX not marked
as safe
Run ActiveX controls and plug-ins
Script ActiveX controls marked safe for
scripting

- **Step 6:** Click <OK> to accept the settings and close the <Security> screen.
- **Step 7:** Click <OK> to close the Internet Options screen.
- Step 8: Close the browser window, and restart a new one later for accessing the IP Camera.

Appendix C: DC Viewer Download Procedure

The procedure of DC Viewer software download is specified as follows.

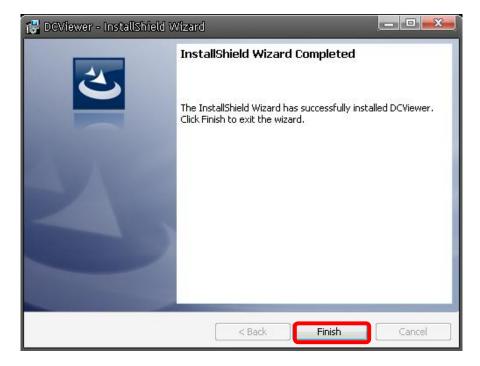
Step 1: In the DC Viewer installation page, click "Next" for starting installing.



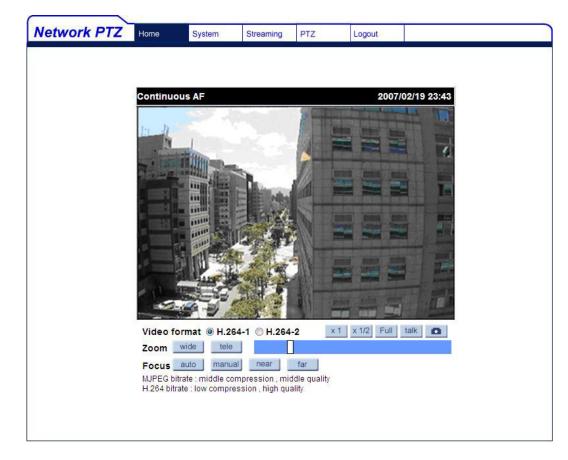
Step 2: Setup starts. Please wait for a while until the loading bar runs out.

🔁 DCView	er - InstallShield Wizard	
	D CViewer gram features you selected are being installed.	L L
ß	Please wait while the InstallShield Wizard installs DCViewer. This several minutes. Status:	: may take
InstallShield -	<back next=""></back>	Cancel

Step 3: Click "Finish" to close the DC Viewer installation page.



Then, the network Speed Dome Camera's Home page will display as follows:



Appendix D: Upgrade the DC Viewer

For users who have installed the DC Viewer in the PC previously and would like to upgrade the new one, please first remove the existing DC Viewer from the PC before accessing to the IP Camera.

Remove the Existing DC Viewer

Click "Control Panel", and then double click "Add or Remove Programs." In the "Currently installed programs" list, select "DCViewer" and click the button "Remove" to uninstall the existing DC Viewer as shown in the figure below.

💭 🔺 📑 🕨 Control Panel			+ ++ Sea	ch	
🔹 Tree 🔣 Thumbnails 🚦	Icons	📲 Details 🏢 Tile 📔 Folder Options 🔻 🐡 New Folder »			_
ontroi Panel 🔶	Accessibility Opti Add Hardware Add or Remove P Administrative To	Programs			
	🐹 Add or Rem	ove Programs			- 0 -
e Also 🔶		Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	
Help and Support	Change or Remove	🕲 μTorrent		Size	0.21MB
	Programs	掲 Alky for Applications (Windows XP)		Size	2.65MB
		Atomic Alarm Clock 5.4		Size	5.14MB
	Add New	CCleaner (remove only)		Size	0.98MB
	Programs	🔂 DCViewer		Size	5.91MB
	6	Click here for support information.		Used	rarely
	Add/Remove Windows	To remove this program from your computer, click Remove.			Remove
	Components	😭 Gadget Installer		Size	0.41MB
		🥮 IconPackager		Size	88.62MB
		1 IZArc 3.81		Size	9.30MB
	Set Pr <u>og</u> ram Access and	🍰 Java(TM) 6 Update 5		Size	137.00MB
	Defaults	🕮 Microsoft .NET Framework 1.1			
		闘 Microsoft .NET Framework 2.0 Service Pack 2		Size	185.00MB
		闘 Microsoft .NET Framework 3.0 Service Pack 2		Size	178.00MB
		🔀 Microsoft .NET Framework 3.5 SP1		Size	28.22MB
		📴 Microsoft Office 2007 Recent Documents Gadget		Size	0.46MB
		📴 Microsoft Office Professional Edition 2003		Size	204.00MB
1	1	🐻 Microsoft User-Mode Driver Framework Feature Pack 1.0			
		📳 Microsoft Visual C++ 2005 Redistributable		Size	5.21MB

<u>Remove Temporary Internet Files</u> To improve browser performance, it is suggested to clean up the all the files in the Temporary Internet Files. The procedure is as follows:

STEP 1: Click the "Tools" tab and select the option "Internet Options."

File Edit View Favorites	Tools Help	
🚖 🕸 🛃 Google	Delete Browsing History	
a sa ang	Pop-up Blocker Phishing Filter Manage Add-ons	Coorle
	Subscribe to this Feed Feed Discovery Windows Update	Google
	Diagnose Connection Problems Sun Java Console	
	Internet Options	
	Find o	Google Search I'm Feeling Lucky
	Advertising Programs	Business Solutions About Google Go to Goo

STEP 2: Click on "Delete", then tap the "Delete Files" in the "Temporary Internet files" section.

muqen	net Optio	(III)				
General	Security	Privacy	Content	Connections	Programs	Advanced
Home p	age					
	To cre	ate home	page tabs,	type each ado	ress on its a	own line.
-11	http:	//www.g	oogle.com	И		*
						-
		Use cu	rrent	Use default		blank
Browsi	ng history	000 20		030 00[0010		<u>Digun</u>
		temporar	v files, hist	ory, cookies, s	aved nassw	ords.
			formation.	,,, .	aroa passii	0,00,
				<u>D</u> elete	<u>S</u> et	tings
Search	ç				0.541	
C) Chang	e search c	defaults.		Set	tings
Tabs -	-			- And I am a first	r	1
	tabs.	e now wei	opages are	e displayed in	Set	tings
	_					
Annea	rance —			-		
Appea		1	1	Easte		
- <u>-</u>	rance C <u>o</u> lors] [Lang	guages	Fonts	Acce	ssibility
- <u>-</u>) (<u>L</u> ang	juages	Fo <u>n</u> ts	Acce	ssibility



The popup window for confirmation will come out as shown below. Click "Yes" to start deleting the files.

Dele	te Files 📃		x
⚠	Are you sure you want to del temporary Internet Explorer		
	Yes	No	

Appendix E: Install UPnP Components

Please follow the instructions below to install UPnP components.

Step 1: Go to "Start", click on "Control Panel", and then double click "Add or Remove

Programs".



Step 2: Click on "Add/Remove Windows Components" in the Add or Remove Programs page.

📩 Add or Rem	ove Riggrams				x
G	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	e	•
C <u>h</u> ange or Remove	🙂 µTorrent		Size	0.21MB	*
Programs	谒 Alky for Applications (Windows XP)		Size	2.65MB	
1	Atomic Alarm Clock 5.4		Size	5.14MB	
Add New	CCleaner (remove only)		Size	0.98MB	
Programs	🔗 Gadget Installer		Size	0.41MB	
F	🧐 IconPackager		Size	88.62MB	Е
Add/Remove	100 IZArc 3.81		Size	9.30MB	
<u>Windows</u> Components	📓 Java(TM) 6 Update 5		Size	137.00MB	
components	週 Microsoft .NET Framework 1.1				
	B Microsoft .NET Framework 2.0 Service Pack 2		Size	185.00MB	
Set Pr <u>og</u> ram Access and	B Microsoft .NET Framework 3.0 Service Pack 2		Size	178.00MB	
Defaults	B Microsoft .NET Framework 3.5 SP1		Size	28.22MB	
	📴 Microsoft Office 2007 Recent Documents Gadget		Size	0.46MB	
	📴 Microsoft Office Professional Edition 2003		Size	204.00MB	
	😼 Microsoft User-Mode Driver Framework Feature Pack 1.0				
	🕼 Microsoft Visual C++ 2005 Redistributable		Size	5.21MB	
	🚳 Microsoft Windows 筆記本檢視器		Size	3.77MB	
	🔤 Open Command Prompt Shell Extension				
	谩 PL-2303 USB-to-Serial		Size	1.04MB	
	Renesas Flash Development Toolkit (v4.05)		Size	78.67MB	Ŧ

Step 3: Select "Networking Services" from the Components list in the Windows Components Wizard window, and then click "Details".

oonents of Windows XP.		
	20.7 MB	*
	0.3 MB	
nd Print Services	0.0 MB	
	0.0 MB	
ites	0.0 MB	*
	ted convices and protoc	ole
ity of specialized, network-rela	ited services and protoc	5013.
ty of specialized, network-rela 56.5 MB	Details.	
	nt, click the checkbox. A sha installed. To see what's inclu id Print Services	nt, click the checkbox. A shaded box means that or installed. To see what's included in a component, cli 20.7 MB 0.3 MB id Print Services 0.0 MB 0.0 MB

Step 4: Select "UPnP User Interface" in the Networking Services' subcomponents list and then click "OK".

Network	ing Services				x
of the compo	nent will be inst	alled. To see what's	< box. A shaded box m s included in a compor		
	ents of Networki	ng Services: evice Discovery and	Control Client	0.0 MB	1.2
		evice Discovery and	S CONTROL CITERIC	0.0 MB	
				0.0 MB	
		1		100 St 100	
	le TCP/IP Serv P User Interface			0.0 MB 0.2 MB	
Description:			aces for UPnP devices d Windows Firewall por		ie
Total disk sp	ace required:	56.5 MB		Details.	
Space availa	ble on disk:	14365.1 MB			
			ОК	Cancel	

Step 5: Click "<u>N</u>ext" in the Windows Components Wizard page.

s XP.
box. A shaded box means that only hat's included in a component, click
20.7 MB
0.3 MB
0.0 MB
0.0 MB
etwork-related services and protocols.

Step 6: Click "Finish" to complete installation.



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Konformitätserklärung Declaration of Conformity

Hersteller / Manufacturer:	ALLNET GmbH
Produkt / Product:	High Speed Dome Camera
Тур / Туре:	ALL2298
CE	This device has been tested in accordance to essential protection requirements of Council Directive 2004/108/EC and found the test results indeed meet the limitation of the relevant test standards listed below:
	EN 50130-4 (1995+A1:1998+A2:2003)

Getestete Normen: tested norms:

(IEC/EN 61000-4-2 (1995+A1: 1998+A2: 2003)/ -3(2006+A1:2008)/-4/-5 (2006)/-6(2007)/-11(2004)) EN 55022 Class B (2006+A1:2007) AS/NZS CISPR 22:2006 IEC/EN 61000-3-2 (2006) IEC/EN 61000-3-3 (2008) EN55024 (1998+A1: 2001+A2: 2003) (IEC/EN61000-4-2(1995+A1:1998+A2:2001)/-3(2006+A1:2008)/4(2004)/-5(2006)/-6(2007)/ -11(2004))

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