

**Full HD Ultra WDR
Speed Dome IP Camera
User's Manual**

Indoor / Outdoor

Ver. 1.1

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1. Overview

The Full HD Ultra WDR Speed Dome IP 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 H.264 Full HD resolution. Simultaneous Quad Codecs, H.264 Baseline / Main / High Profile, MJPEG, are available for various network applications via speeding or limited bandwidth. Better image quality and high resolution are delivered by IP support. 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.

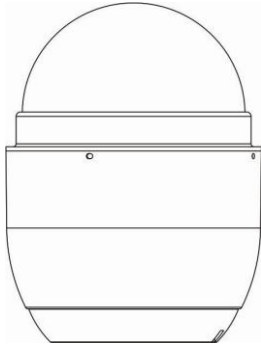
1.1 Features

- Sony Progressive Scan CMOS Sensor
- 18x / 20x / 30x Optical Zoom
- 12x Digital Zoom
- Ultra Wide Dynamic Range (>96dB)
- Dual Streams, Full HD 1080P Real-time + D1 Real-time
- Noise Reduction
- Electronic Image Stabilizer
- IP66 International (Outdoor Models Only)
- ONVIF Support

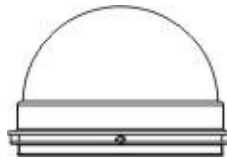
1.2 Package Contents

The package should contain the items listed below. If any item is missing or has defects, contact the dealer for assistance.

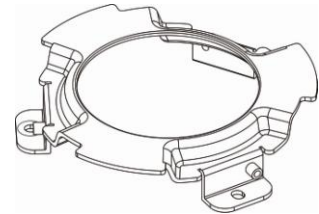
Indoor



Camera Body



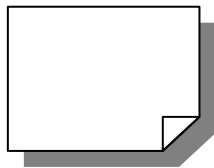
Optical Cover



Hard Ceiling Mount

M4 Screw (x5)

Plastic Anchors (x5)

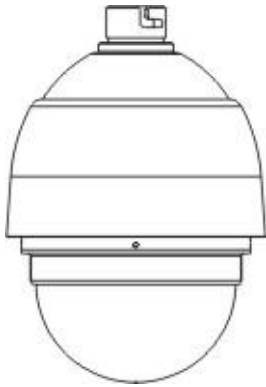


Quick Guide



CD: Operation Manuals

Outdoor



Dome Camera with
Outdoor Mount Kit

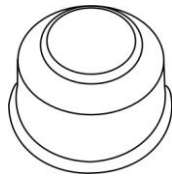


M3 Standard Screw (x1)

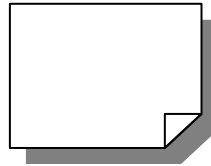
M3 Security Screw (x1)*

M5 Standard Screw (x1)

M5 Security Screw (x1)*



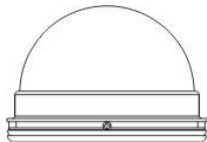
Waterproof Rubber



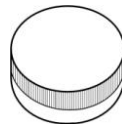
Quick Guide



CD: Operation Manuals



Optical Cover



Lubricant

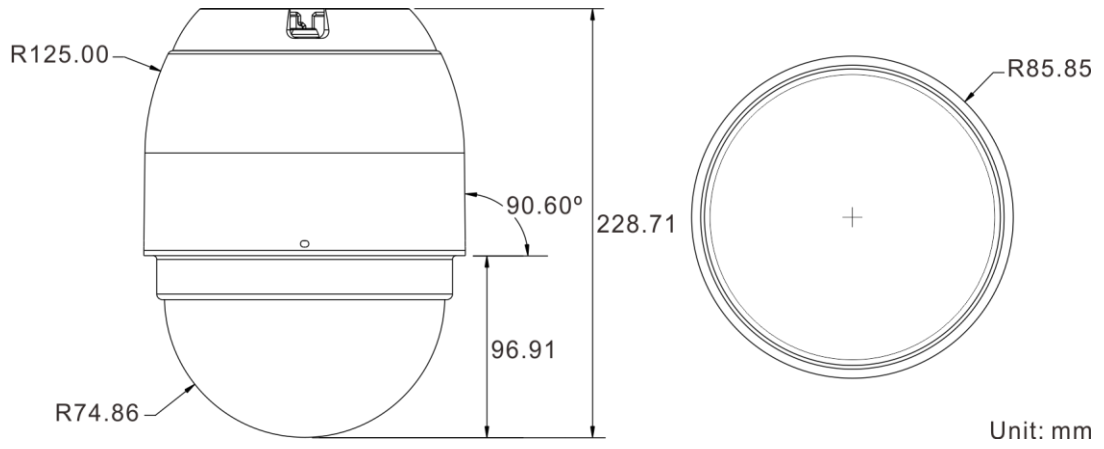


Security Torx*

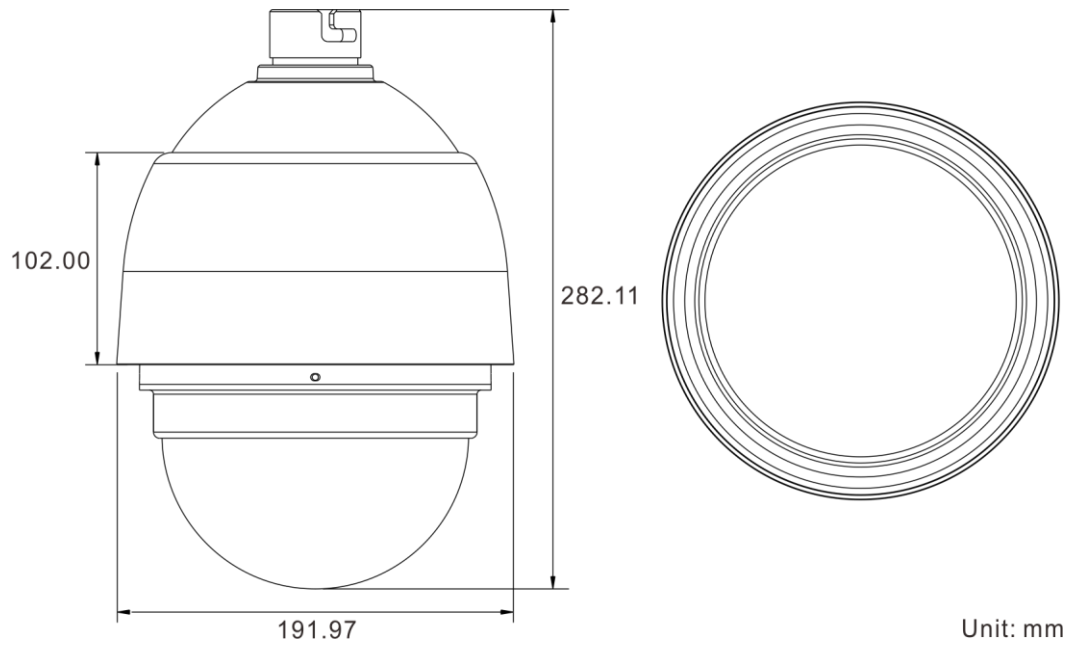
*Optional: For Vandal Proof Cover only.

1.3 Dimensions

Indoor

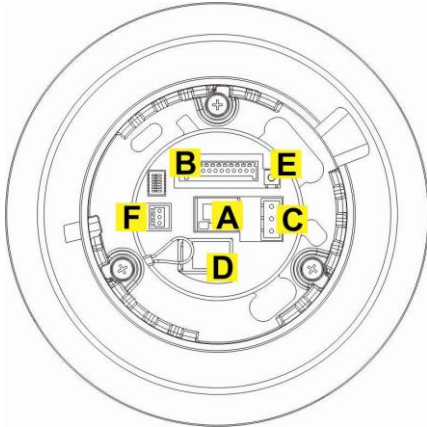


Outdoor

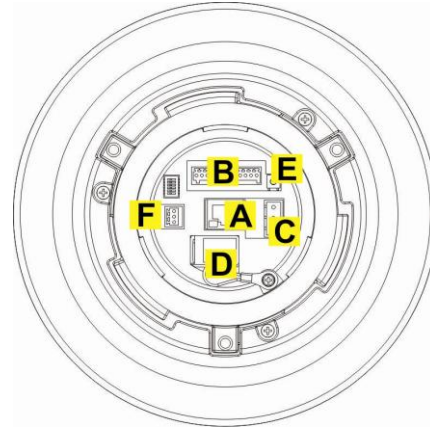


1.4 Switch / Connector Definition

Refer to the diagrams and the tables below for the use of each switch / connector.



Indoor



Outdoor

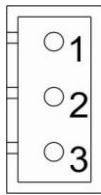
A	RJ-45 Connector
B	Alarm I/O
C	Power
D	microSD Card Slot
E	Factory Reset Button
F	Audio I/O

2. Camera Cabling

Follow the instructions below to complete IP Camera connection.

2.1 Connect Power

Refer to the illustration and the pin definition table below to connect the power core through the supplied power adaptor to the camera.



Pin	Definition
1	AC 24_1
2	FG
3	AC 24_2

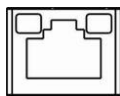
2.2 Connect Ethernet Cable

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 camera's RJ-45 connector, and plug the other end of the cable to the network switch or PC.



NOTE: In some cases, Ethernet Crossover Cable might be needed when connecting the camera to the PC.

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

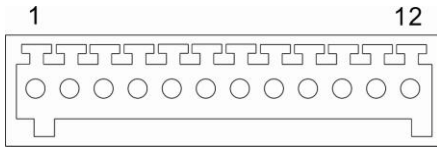


Green Link Light indicates good network connection.

Orange Activity Light flashes for network activity indication.

2.3 Apply Alarm I/O

The camera supports 4 digital alarm inputs and 2 digital alarm outputs. Please refer to the illustration and the pin definition table below for alarm system wiring.

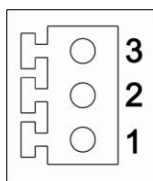


Pin	Definition
1	ALARM_OUT_NO_1
2	ALARM_OUT_NC_1
3	ALARM_OUT_COM_1
4	GND
5	ALARM_OUT_NO_2
6	ALARM_OUT_NC_2

Pin	Definition
7	ALARM_OUT_COM_2
8	GND
9	ALARM_IN_4
10	ALARM_IN_3
11	ALARM_IN_2
12	ALARM_IN_1

2.4 Apply Audio

Please refer to the illustration and the pin definition table below for audio connection.



Pin	Definition
1	LINE_OUT
2	GND
3	LINE_IN

3. System Requirements

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

Items	Minimum Requirement
Personal Computer	1. Intel® Pentium® IV, 3 GHz or higher, Intel® Core2 Duo, 2 GHz or higher 2. 1 GB RAM or more 3. AGP graphics card 64 MB RAM, DirectDraw
Operating System	Windows VISTA / Windows XP / Windows 7
Web Browser	Internet Explorer 6.0 or later, Firefox, Chrome, Safari
Network Card	10Base-T (10 Mbps) or 100Base-TX (100 Mbps) operation
Viewer	ActiveX control plug-in for Microsoft IE

4. Access Camera

For initial access to the IP Camera, users can search the camera through the installer program: DeviceSearch.exe, which can be found in “Device Search” folder in the supplied CD.

Accessing Device Search Software

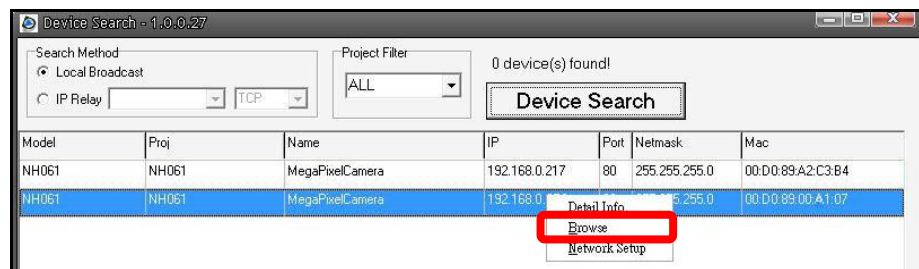
Step 1: Double click on the program Device Search.exe. After its window will appear, click on the <Device Search> button on the top side.

Step 2: The security alert window will pop up. Click on <Unblock> to continue.

Device Search

Step 3: Click on <Device Search> again, and all the finding IP devices will be listed in the page. The camera’s default IP address is: **192.168.0.250**.

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



Step 5: A login window will pop up. Enter the administrator’s default login ID and password shown below to login to the camera.

Login ID	Password
Admin	1234



NOTE: ID and password are case sensitive.



NOTE: It is strongly advised to alter the administrator’s password for security concerns. Refer to [Full HD Speed Dome IP Camera Menu Tree](#) for further details.

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

Example of Changing IP Camera's Network Property

Step 1: In the finding device list, click on the camera that is wished to change its network property. On the selected item, right click and select <Network Setup>. Meanwhile, record the camera's MAC address, for future identification.

Step 2: The Network Setup page will come out. Select <DHCP>, and click on <Apply> button down the page.

Step 3: Click on <OK> on the Note of setting change. Wait for one minute to re-search the camera.

Step 4: Click on the <Device Search> button to re-search all the devices. Then double click on the camera with the correct MAC address.

Step 5: The login window will come out. Enter username and password to access the camera.

Installing DC Viewer Software Online

For the initial access to the camera, a client program, DC Viewer, will be automatically installed to the PC when connecting to the camera.

If the Web browser doesn't allow DC Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (refer to chapter [Appendix C: Setup Internet Security](#)) 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. Right click on the Information Bar and select <Install ActiveX Control...> to allow the installation. A security warning window will pop up. Click on <Install> to carry on software installation.

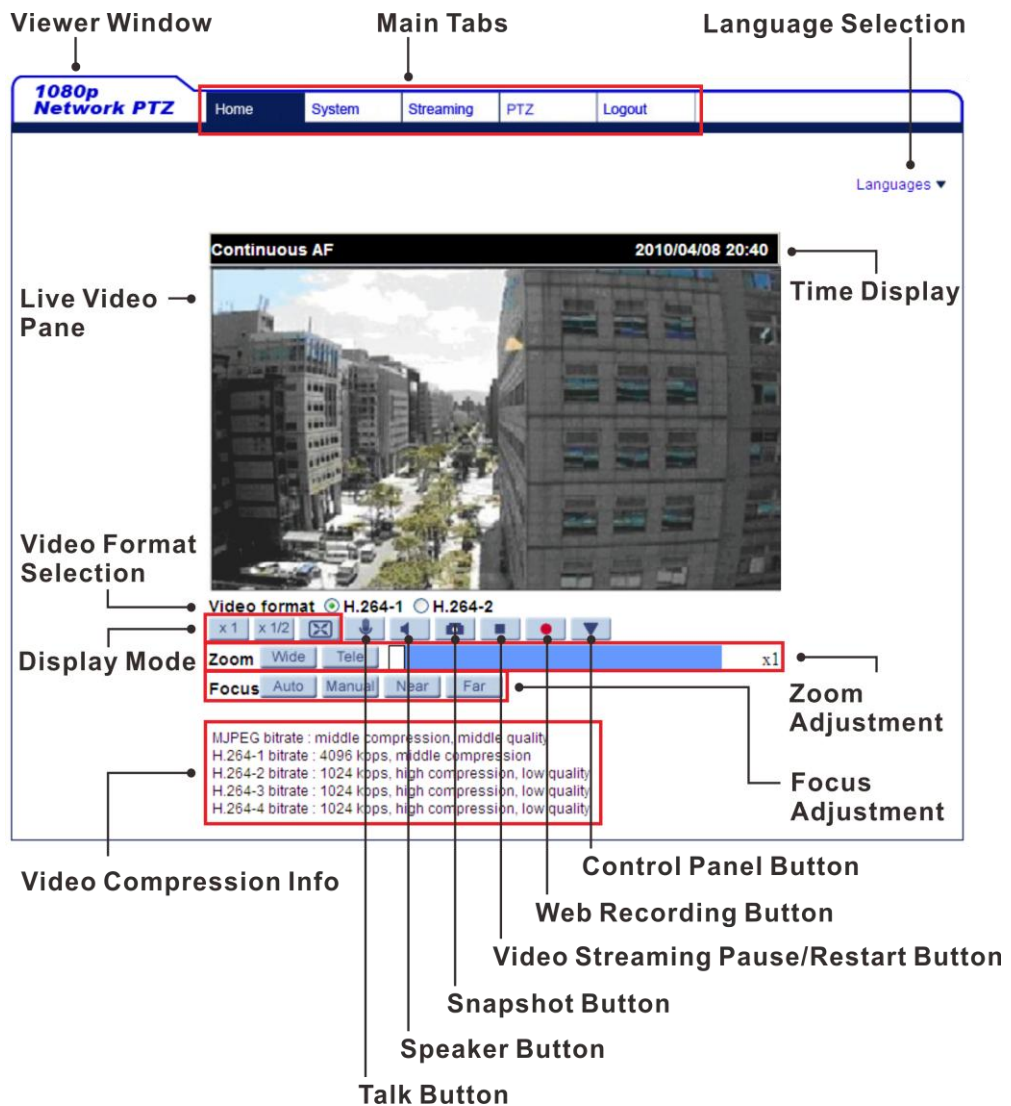
The download procedure of DC Viewer software is specified as follows.

Step 1: In the DC Viewer installation window, click on <Next> to start the installation.

Step 2: A status bar will be displayed to show the installation progress. After the installation is completed, click on <Finish> to exit the installation process.

Step 3: Click on <Finish> to close the DC Viewer installation page.

Once the DC Viewer is successfully installed, the Home page of the camera will be shown as the figure below.



NOTE: Refer to [Full HD Speed Dome IP Camera Menu Tree](#) for further button / function details.

5. Setup Video Resolution

Users can setup Video Resolution on Video Format page of the user-friendly browser-based configuration interface.

Video Format can be found under this path: **Streaming> Video Format**.

The screenshot shows the configuration interface for a 1080p Network PTZ camera. The 'Streaming' menu item is highlighted in red. The 'Video Format' page is active, showing the following settings:

- Video Resolution :**
 - H.264 + H.264 (dropdown)
 - H.264-1 format : 1920 x 1080 (30 fps) (dropdown)
 - H.264-2 format : 720 x 480 (30 fps) (dropdown)
 - BNC support : N/A
 - Save button
- Note :**

Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected.
- Text Overlay Settings :**
 - Include date
 - Include time
 - Include text string: [input field]
 - Save button
- Video Rotate Type :**
 - Normal video (dropdown)
 - Save button
- GOV Settings :**
 - H.264-1 GOV Length : 60
 - H.264-2 GOV Length : 60
 - H.264-3 GOV Length : 30
 - H.264-4 GOV Length : 30
 - Save button
- H.264 Profile :**
 - H.264-1 : Main profile (dropdown)
 - H.264-2 : Main profile (dropdown)
 - H.264-3 : Main profile (dropdown)
 - H.264-4 : Main profile (dropdown)
 - Save button

The default values of the Video Resolution are as below.

2M	H.264 1920 x 1080 (30 fps) + H.264 720 x 480 (30 fps)
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For more Video Resolution combination detail, please refer to chapter [Appendix D: Video Resolution](#).

Appendix A: Technical Specifications

Items	F1	F2	F3
Camera			
Image Sensor	1/2.8" Sony Progressive CMOS		
Optical Zoom	18x	20x	30x
Digital Zoom	12x		
Focal Length	4.7 ~ 84.6 mm	4.7 ~ 94.0 mm	4.3 ~ 129.0 mm
Wide Dynamic Range	Shutter WDR (>96dB)		
Focus Mode	Auto / Manual		
White Balance	Auto / Indoor / Outdoor / ATW / Manual		
Iris Control	Auto / Manual		
Electronic Shutter	1/1 ~ 1/10k sec.		
AGC Control	Auto / Manual		
Backlight Compensation	On / Off		
Operation			
Pan Travel	360° endless		
Tilt Travel	-10° ~ 190°		
Manual Speed	0.5° ~ 90° /s		
Presets	256		
Preset Accuracy	0.225°		
Preset Speed	5° ~ 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 Power loss	Support		
Home Function	Preset / Sequence / Auto Pan / Cruise		
Auto Flip	Image / Mechanical / Off		
Motion Detection	Motion Detection Window x 4 Sets		
Day / Night: IR Cut Filter	Auto / On / Off		
Image Rotation	Flip / Mirror / Inverse		
Electronic Image Stabilizer	On / Off		
Digital Noise Reduction	2D	On / Off	
	3D	On / Off	
Network			
Networking	10 / 100 Mb Ethernet (RJ-45)		
Video Compression	H.264 / MJPEG		
Video Streaming	Dual Streams	H.264 + MJPEG / H.264 + H.264	
	Quad Streams	H.264 x 4 / MJPEG + H.264 x 3	
Video Resolution	H.264	Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF	
	MJPEG	Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF	
Frame Rate	Dual Streams	1080P (30/25 fps) + D1 (30/25 fps)	
Audio Compression	G.711 / G.726		
Audio Streaming	Two-way Audio		
Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, IEEE 802.1x, QoS, ONVIF		
Security	HTTPS / IP Filter / IEEE 802.1x		
Alarm	Input	4 Sets	
	Output	2 Sets	
Alarm Reaction	Preset / Sequence / Auto Pan / Cruise		
microSD	microSDHC 32GB Support		
Supported Web Browser	Internet Explorer (6.0+) / Chrome / Firefox / Safari		
Password Levels	User and Administrator		

General		
Environment		Indoor / Outdoor
Operating Temperature	Indoor	0°C ~ 40°C (32°F ~ 104°F)
	Outdoor	-40°C ~ 50°C (-40°F ~ 122°F)
Dimension	Indoor	∅ 171.70 x 228.71 mm (∅ 6.76 x 9.00 in.)
	Outdoor	∅ 191.97 x 282.11 mm (∅ 7.55 x 11.10 in.) w/ Sunshield
Weight	Indoor	1.60 kg (3.53 lbs)
	Outdoor	2.30 kg (5.07 lbs) w/ Sunshield
Power Source	Indoor	802.3 at PoE+ (30 W) / AC 24V ± 10%
	Outdoor	802.3 at PoE+ (60 W) / AC 24V ± 10%
Power Consumption	Indoor	22 W
	Outdoor	52 W (w/ Heater)
Regulatory		CE / FCC / RoHS / IP66 (Outdoor)

Appendix B: Delete the Existing DC Viewer

For users who have installed the DC Viewer in the PC previously, please remove the existing DC Viewer from the PC before accessing to the IP Camera.

Deleting the DC Viewer

In the Windows <Start Menu>, activate <Control Panel>, and then double click on <Add or Remove Programs>. In the <Currently installed programs> list, select <DC Viewer> and click on the button <Remove> to uninstall the existing DC Viewer.

Deleting Temporary Internet Files

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: In the web browser, click on the <Tools> tab on the menu bar and select the <Internet Options>.

Step 2: Click on <Delete> button under the <Browsing history> section. In the appeared window tick the box beside the <Temporary Internet files>.

Step 3: Click on <Delete> to start deleting the files.

Appendix C: Setup Internet Security

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: Click on the <Tools> tab on the menu bar and select <Internet Options>.

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

Step 4: Down the page, click on the <Default Level> button and click on <OK> to confirm the setting. Close the browser window, and restart a new one later to access the camera.

ActiveX Controls and Plug-ins Settings

Step 1: Repeat **Steps 1 ~ 3** of the previous section above.

Step 2: Down the page, click on the <Custom Level> button to change ActiveX controls and plug-ins settings. The Security Settings window will pop up.

Step 3: Under <ActiveX controls and plug-ins>, set **ALL** items (as listed below) to <Enable> or <Prompt>. Please note that the items vary by IE version.

ActiveX controls and plug-ins settings:

1. Binary and script behaviors.
2. Download signed ActiveX controls.
3. Download unsigned ActiveX controls.
4. Allow previously unused ActiveX controls to run without prompt.
5. Allow Scriptlets.
6. Automatic prompting for ActiveX controls.
7. Initialize and script ActiveX controls not marked as safe for scripting.
8. Run ActiveX controls and plug-ins.
9. Only allow approved domains to use ActiveX without prompt.
10. Script ActiveX controls marked safe for scripting*.
11. Display video and animation on a webpage that does not use external media player.

Step 4: Click on <OK> to accept the settings. A prompt window will appear for confirming the setting changes, click <Yes(Y)> to close the Security Setting window.

Step 5: Click on <OK> to close the Internet Options screen.

Step 6: Close the browser window, and restart a new one later to access the camera.

Appendix D: Video Resolution

Quad Stream

H.264 + H.264 + H.264 + H.264 / MJPEG				
H.264-1	H.264-2	H.264-3	H.264-4 / MJPEG	
1920 x 1080 (15 fps)	1280 x 1024 (15 fps)	1280 x 720 (15 fps)	720 x 480 (15 fps)	
			640 x 480 (15 fps)	
			352 x 240 (30 fps)	
		800 x 600 (15 fps)	720 x 480 (30 fps)	720 x 480 (30 fps)
				640 x 480 (30 fps)
				352 x 240 (30 fps)
			720 x 480 (15 fps)	720 x 480 (30 fps)
				640 x 480 (30 fps)
		720 x 480 (30 fps)	640 x 480 (30 fps)	
			352 x 240 (30 fps)	
			352 x 240 (30 fps)	
		1280 x 720 (15 fps)	1280 x 720 (15 fps)	720 x 480 (30 fps)
				640 x 480 (30 fps)
				352 x 240 (30 fps)
	800 x 600 (30 fps)		720 x 480 (30 fps)	720 x 480 (30 fps)
				640 x 480 (30 fps)
			720 x 480 (30 fps)	720 x 480 (30 fps)
				640 x 480 (30 fps)
	640 x 480 (30 fps)		640 x 480 (30 fps)	
			352 x 240 (30 fps)	
			352 x 240 (30 fps)	
	1280 x 720 (30 fps)	720 x 480 (30 fps)		
		640 x 480 (30 fps)		
		352 x 240 (30 fps)		
	1024 x 768 (15 fps)	800 x 600 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
			352 x 240 (30 fps)	
		720 x 480 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
			352 x 240 (30 fps)	
	1024 x 768 (30 fps)	800 x 600 (30 fps)		
		720 x 480 (30 fps)		
		640 x 480 (30 fps)		
		352 x 240 (30 fps)		
		352 x 240 (30 fps)		
	800 x 600 (30 fps)	800 x 600 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
			352 x 240 (30 fps)	
		720 x 480 (30 fps)	720 x 480 (30 fps)	720 x 480 (30 fps)
				640 x 480 (30 fps)
			640 x 480 (30 fps)	640 x 480 (30 fps)
				352 x 240 (30 fps)
352 x 240 (30 fps)		352 x 240 (30 fps)		
		352 x 240 (30 fps)		
		352 x 240 (30 fps)		
720 x 480 (30 fps)	720 x 480 (30 fps)	720 x 480 (30 fps)		
		640 x 480 (30 fps)		
		352 x 240 (30 fps)		
	640 x 480 (30 fps)	640 x 480 (30 fps)		
		352 x 240 (30 fps)		
	352 x 240 (30 fps)	352 x 240 (30 fps)		
		352 x 240 (30 fps)		
640 x 480 (30 fps)	640 x 480 (30 fps)			
	352 x 240 (30 fps)			
	352 x 240 (30 fps)			
1920 x 1080 (30 fps)	352 x 240 (30 fps)	352 x 240 (30 fps)	352 x 240 (30 fps)	

H.264 + H.264 + H.264 + H.264 / MJPEG				
H.264-1	H.264-2	H.264-3	H.264-4 / MJPEG	
1280 x 1024 (15 fps)	1280 x 1024 (15 fps)	1280 x 720 (15 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
		1280 x 720 (30 fps)	352 x 240 (30 fps)	
		800 x 600 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
			352 x 240 (30 fps)	
	720 x 480 (30 fps)	720 x 480 (30 fps)		
		640 x 480 (30 fps)		
		640 x 480 (30 fps)		
	640 x 480 (30 fps)	720 x 480 (30 fps)		
		640 x 480 (30 fps)		
		352 x 240 (30 fps)		
	1280 x 1024 (30 fps)	1280 x 1024 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
			352 x 240 (30 fps)	
	1280 x 720 (15 fps)	1280 x 720 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
			352 x 240 (30 fps)	
	1280 x 1024 (15 fps)	1280 x 720 (30 fps)	800 x 600 (30 fps)	
			720 x 480 (30 fps)	720 x 480 (30 fps)
				640 x 480 (30 fps)
				352 x 240 (30 fps)
			640 x 480 (30 fps)	640 x 480 (30 fps)
				352 x 240 (30 fps)
352 x 240 (30 fps)				
1024 x 768 (30 fps)		800 x 600 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
			352 x 240 (30 fps)	
		720 x 480 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
	352 x 240 (30 fps)			
800 x 600 (30 fps)	800 x 600 (30 fps)	720 x 480 (30 fps)		
		640 x 480 (30 fps)		
		720 x 480 (30 fps)		
		640 x 480 (30 fps)		
1280 x 1024 (30 fps)	1024 x 768 (30 fps)	352 x 240 (30 fps)		
	800 x 600 (30 fps)	800 x 600 (30 fps)		
		720 x 480 (30 fps)		
		640 x 480 (30 fps)		
		352 x 240 (30 fps)		
	720 x 480 (30 fps)	720 x 480 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	
			352 x 240 (30 fps)	
		640 x 480 (30 fps)	640 x 480 (30 fps)	
			352 x 240 (30 fps)	
			352 x 240 (30 fps)	
	640 x 480 (30 fps)	640 x 480 (30 fps)	640 x 480 (30 fps)	
352 x 240 (30 fps)				
352 x 240 (30 fps)	352 x 240 (30 fps)			
1280 x 720 (15 fps)	1280 x 720 (15 fps)	1280 x 720 (30 fps)		
		640 x 480 (30 fps)		
	1280 x 720 (30 fps)	1280 x 720 (30 fps)		
		800 x 600 (30 fps)		
		720 x 480 (30 fps)		
		640 x 480 (30 fps)		
	1024 x 768 (30 fps)	800 x 600 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	

H.264 + H.264 + H.264 + H.264 / MJPEG					
H.264-1	H.264-2	H.264-3	H.264-4 / MJPEG		
1280 x 720 (30 fps)	1280 x 720 (30 fps)	800 x 600 (30 fps)	352 x 240 (30 fps)		
		720 x 480 (30 fps)	352 x 240 (60 fps)		
		640 x 480 (30 fps)	352 x 240 (60 fps)		
		352 x 240 (60 fps)	352 x 240 (60 fps)		
	1024 x 768 (30 fps)	800 x 600 (30 fps)	800 x 600 (30 fps)	352 x 240 (30 fps)	
			720 x 480 (30 fps)	720 x 480 (30 fps)	
			640 x 480 (30 fps)	640 x 480 (30 fps)	
		640 x 480 (30 fps)	640 x 480 (30 fps)	352 x 240 (60 fps)	
			352 x 240 (60 fps)	352 x 240 (60 fps)	
			352 x 240 (60 fps)	352 x 240 (60 fps)	
	800 x 600 (30 fps)	800 x 600 (30 fps)	800 x 600 (30 fps)	720 x 480 (30 fps)	
			720 x 480 (30 fps)	640 x 480 (30 fps)	
			720 x 480 (60 fps)	352 x 240 (60 fps)	
			640 x 480 (30 fps)	640 x 480 (60 fps)	
		720 x 480 (30 fps)	720 x 480 (30 fps)	720 x 480 (30 fps)	352 x 240 (60 fps)
				640 x 480 (30 fps)	640 x 480 (60 fps)
			640 x 480 (60 fps)	640 x 480 (60 fps)	352 x 240 (60 fps)
				352 x 240 (60 fps)	352 x 240 (60 fps)
		640 x 480 (30 fps)	640 x 480 (30 fps)	640 x 480 (30 fps)	640 x 480 (60 fps)
				352 x 240 (60 fps)	352 x 240 (60 fps)
640 x 480 (60 fps)			640 x 480 (60 fps)	352 x 240 (60 fps)	
			352 x 240 (60 fps)	352 x 240 (60 fps)	
1024 x 768 (30 fps)	1024 x 768 (30 fps)	800 x 600 (30 fps)	720 x 480 (30 fps)		
			640 x 480 (30 fps)		
			352 x 240 (30 fps)		
		800 x 600 (30 fps)	720 x 480 (30 fps)	720 x 480 (30 fps)	
				640 x 480 (30 fps)	
			640 x 480 (30 fps)	640 x 480 (30 fps)	
				352 x 240 (30 fps)	
				352 x 240 (30 fps)	
	720 x 480 (30 fps)	720 x 480 (30 fps)	720 x 480 (30 fps)		
			640 x 480 (30 fps)		
			352 x 240 (30 fps)		
		640 x 480 (30 fps)	640 x 480 (30 fps)	640 x 480 (30 fps)	
				352 x 240 (30 fps)	
			352 x 240 (30 fps)	352 x 240 (30 fps)	
				352 x 240 (30 fps)	
	352 x 240 (30 fps)	640 x 480 (30 fps)	640 x 480 (30 fps)		
			352 x 240 (30 fps)		
		352 x 240 (30 fps)	352 x 240 (30 fps)		
			352 x 240 (30 fps)		

H.264 + H.264 + H.264 + H.264 / MJPEG				
H.264-1	H.264-2	H.264-3	H.264-4 / MJPEG	
800 x 600 (30 fps)	800 x 600 (30 fps)	800 x 600 (60 fps)	352 x 240 (60 fps)	
		720 x 480 (60 fps)	720 x 480 (60 fps)	
		640 x 480 (60 fps)	640 x 480 (60 fps)	
	800 x 600 (60 fps)	800 x 600 (60 fps)	720 x 480 (60 fps)	352 x 240 (60 fps)
			640 x 480 (60 fps)	352 x 240 (60 fps)
	720 x 480 (30 fps)	720 x 480 (30 fps)	720 x 480 (60 fps)	720 x 480 (60 fps)
			640 x 480 (60 fps)	640 x 480 (60 fps)
	720 x 480 (60 fps)	720 x 480 (60 fps)	720 x 480 (60 fps)	352 x 240 (60 fps)
			640 x 480 (60 fps)	640 x 480 (60 fps)
	640 x 480 (60 fps)	640 x 480 (60 fps)	640 x 480 (60 fps)	640 x 480 (60 fps)
640 x 480 (60 fps)			640 x 480 (60 fps)	
800 x 600 (60 fps)	800 x 600 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)	
	720 x 480 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)	
	640 x 480 (60 fps)	640 x 480 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)
		352 x 240 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)
	352 x 240 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)
720 x 480 (30 fps)	720 x 480 (60 fps)	720 x 480 (60 fps)	720 x 480 (60 fps)	
		640 x 480 (60 fps)	640 x 480 (60 fps)	
	640 x 480 (60 fps)	640 x 480 (60 fps)	640 x 480 (60 fps)	640 x 480 (60 fps)
720 x 480 (60 fps)	720 x 480 (60 fps)	720 x 480 (60 fps)	352 x 240 (60 fps)	
		640 x 480 (60 fps)	352 x 240 (60 fps)	
		352 x 240 (60 fps)	352 x 240 (60 fps)	
	640 x 480 (60 fps)	640 x 480 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)
		352 x 240 (30 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)
352 x 240 (60 fps)	352 x 240 (30 fps)	352 x 240 (30 fps)	352 x 240 (60 fps)	
640 x 480 (30 fps)	640 x 480 (60 fps)	640 x 480 (60 fps)	640 x 480 (60 fps)	
640 x 480 (60 fps)	640 x 480 (60 fps)	640 x 480 (60 fps)	352 x 240 (60 fps)	
		352 x 240 (60 fps)	352 x 240 (60 fps)	
	352 x 240 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)
352 x 240 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)	

Triple Stream

H.264-1 + H.264-2 + H.264-3 / MJPEG		
H.264-1	H.264-2	H.264-3 / MJPEG
1920 x 1080 (15 fps)	1280 x 1024 (15 fps)	1280 x 720 (15 fps)
		800 x 600 (30 fps)
		720 x 480 (30 fps)
		640 x 480 (30 fps)
		352 x 240 (30 fps)
	1280 x 720 (15 fps)	1280 x 720 (30 fps)
		800 x 600 (30 fps)
	1280 x 720 (30 fps)	720 x 480 (30 fps)
		640 x 480 (30 fps)
		352 x 240 (30 fps)
	1024 x 768 (30 fps)	800 x 600 (30 fps)
		720 x 480 (30 fps)
		640 x 480 (30 fps)
		352 x 240 (30 fps)
800 x 600 (30 fps)	800 x 600 (30 fps)	
	720 x 480 (30 fps)	
	640 x 480 (30 fps)	
	352 x 240 (30 fps)	
720 x 480 (30 fps)	720 x 480 (30 fps)	
	640 x 480 (30 fps)	
	352 x 240 (30 fps)	
640 x 480 (30 fps)	640 x 480 (30 fps)	
	352 x 240 (30 fps)	
1920 x 1080 (30 fps)	352 x 240 (30 fps)	352 x 240 (30 fps)
1280 x 1024 (15 fps)	1280 x 1024 (15 fps)	1280 x 720 (30 fps)
		800 x 600 (30 fps)
	1280 x 1024 (30 fps)	720 x 480 (30 fps)
		640 x 480 (30 fps)
		352 x 240 (30 fps)
	1280 x 720 (15 fps)	1280 x 720 (30 fps)
	1280 x 720 (30 fps)	800 x 600 (30 fps)
720 x 480 (30 fps)		
1024 x 768 (30 fps)	640 x 480 (30 fps)	
1280 x 1024 (30 fps)	1280 x 720 (30 fps)	800 x 600 (30 fps)
		720 x 480 (30 fps)
		640 x 480 (30 fps)
	1024 x 768 (30 fps)	352 x 240 (30 fps)
		800 x 600 (30 fps)
		720 x 480 (30 fps)
	720 x 480 (30 fps)	800 x 600 (30 fps)
		720 x 480 (30 fps)
640 x 480 (30 fps)	640 x 480 (30 fps)	
	352 x 240 (30 fps)	
352 x 240 (30 fps)	352 x 240 (30 fps)	352 x 240 (30 fps)
1280 x 720 (15 fps)	1280 x 720 (30 fps)	1280 x 720 (30 fps)

H.264-1 + H.264-2 + H.264-3 / MJPEG			
H.264-1	H.264-2	H.264-3 / MJPEG	
1280 x 720 (30 fps)	1280 x 720 (30 fps)	800 x 600 (30 fps)	
		720 x 480 (30 fps)	
		640 x 480 (30 fps)	
	1280 x 720 (60 fps)	1024 x 768 (30 fps)	352 x 240 (60 fps)
			800 x 600 (30 fps)
	800 x 600 (30 fps)	800 x 600 (30 fps)	720 x 480 (30 fps)
			640 x 480 (30 fps)
			352 x 240 (30 fps)
	800 x 600 (60 fps)	800 x 600 (60 fps)	800 x 600 (60 fps)
			720 x 480 (60 fps)
			640 x 480 (60 fps)
	720 x 480 (60 fps)	720 x 480 (60 fps)	352 x 240 (60 fps)
			720 x 480 (60 fps)
			640 x 480 (60 fps)
352 x 240 (60 fps)			
640 x 480 (60 fps)	640 x 480 (60 fps)	640 x 480 (60 fps)	
		352 x 240 (60 fps)	
352 x 240 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)	
		352 x 240 (60 fps)	
1280 x 720 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)	
1024 x 768 (30 fps)	1024 x 768 (30 fps)	800 x 600 (30 fps)	
		720 x 480 (30 fps)	
		640 x 480 (30 fps)	
		352 x 240 (30 fps)	
	800 x 600 (30 fps)	800 x 600 (30 fps)	800 x 600 (30 fps)
			720 x 480 (30 fps)
			640 x 480 (30 fps)
			352 x 240 (30 fps)
	720 x 480 (30 fps)	720 x 480 (30 fps)	720 x 480 (30 fps)
			640 x 480 (30 fps)
			352 x 240 (30 fps)
			352 x 240 (30 fps)
	640 x 480 (30 fps)	640 x 480 (30 fps)	640 x 480 (30 fps)
			352 x 240 (30 fps)
352 x 240 (30 fps)	352 x 240 (30 fps)	352 x 240 (30 fps)	
		352 x 240 (30 fps)	
800 x 600 (30 fps)	800 x 600 (60 fps)	800 x 600 (60 fps)	
		720 x 480 (60 fps)	
		640 x 480 (60 fps)	
800 x 600 (60 fps)	800 x 600 (60 fps)	352 x 240 (60 fps)	
		720 x 480 (60 fps)	
		640 x 480 (60 fps)	
		352 x 240 (60 fps)	
		352 x 240 (60 fps)	
720 x 480 (60 fps)	720 x 480 (60 fps)	720 x 480 (60 fps)	
		640 x 480 (60 fps)	
		352 x 240 (60 fps)	
		640 x 480 (60 fps)	
		352 x 240 (60 fps)	
640 x 480 (60 fps)	640 x 480 (60 fps)	640 x 480 (60 fps)	
		352 x 240 (60 fps)	
		352 x 240 (60 fps)	
352 x 240 (60 fps)	352 x 240 (60 fps)	352 x 240 (60 fps)	

Dual Stream

H.264-1 + H.264-2 / MJPEG		
H.264-1	H.264-2 / MJPEG	BNC SUPPORT
1920 x 1080 (15 fps)	1920 x 1080 (15 fps)	-
	1280 x 1024 (30 fps)	-
	1280 x 720 (30 fps)	-
	1024 x 768 (30 fps)	-
	800 x 600 (30 fps)	-
1920 x 1080 (30 fps)	720 x 480 (30 fps)	-
	640 x 480 (30 fps)	-
	352 x 240 (30 fps)	-
1280 x 1024 (30 fps)	1280 x 1024 (15 fps)	-
	1280 x 720 (30 fps)	-
	1024 x 768 (30 fps)	-
	800 x 600 (30 fps)	-
	720 x 480 (30 fps)	-
	640 x 480 (30 fps)	-
1280 x 720 (30 fps)	352 x 240 (30 fps)	-
	1280 x 720 (30 fps)	-
	1024 x 768 (30 fps)	-
	800 x 600 (60 fps)	-
	720 x 480 (60 fps)	-
1280 x 720 (60 fps)	640 x 480 (60 fps)	-
	352 x 240 (60 fps)	-
	1024 x 768 (30 fps)	-
	800 x 600 (30 fps)	-
1024 x 768 (30 fps)	720 x 480 (30 fps)	-
	640 x 480 (30 fps)	-
	352 x 240 (30 fps)	-
	800 x 600 (60 fps)	-
800 x 600 (60 fps)	720 x 480 (60 fps)	-
	640 x 480 (60 fps)	-
	352 x 240 (60 fps)	-
	720 x 480 (60 fps)	-
720 x 480 (60 fps)	640 x 480 (60 fps)	-
	352 x 240 (60 fps)	-
	640 x 480 (60 fps)	-
640 x 480 (60 fps)	352 x 240 (60 fps)	-
	640 x 480 (60 fps)	-
352 x 240 (60 fps)	352 x 240 (60 fps)	-

Single Stream

H.264 Only	BNC SUPPORT
1920 x 1080 (30 fps) Low Latency	-
1920 x 1080 (30 fps)	-
1280 x 1024 (30 fps)	-
1280 x 720 (60 fps)	-
1024 x 768 (30 fps)	-
800 x 600 (60 fps)	-
720 x 480 (60 fps)	-
640 x 480 (60 fps)	-
352 x 240 (60 fps)	-

MJPEG Only	BNC SUPPORT
1920 x 1080 (30 fps)	-
1280 x 1024 (30 fps)	-
1280 x 720 (30 fps)	-
1024 x 768 (30 fps)	-
800 x 600 (60 fps)	-
720 x 480 (60 fps)	-
640 x 480 (60 fps)	-
352 x 240 (60 fps)	-