

IS-IP290

User's Manual

Ver 2.4

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1. Overview

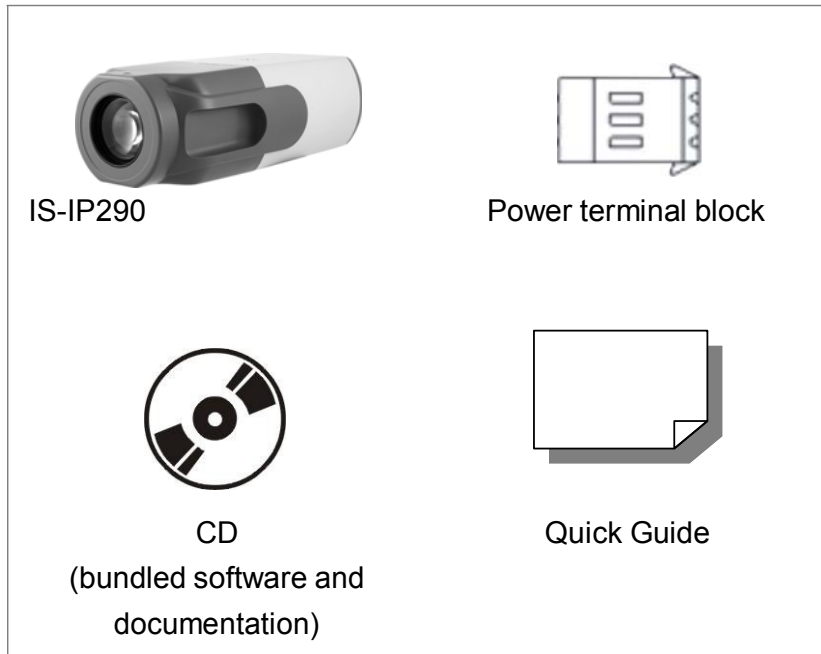
The IS-IP290 integrates superior Sony Progressive CMOS sensor with 3x/18x auto-focus zoom lens. The IS-IP290 is capable of delivering Multi-streaming Full HD 1080P real-time video. In addition to MJPEG real-time streaming, the camera develops superior H.264 codec to smoothly deliver Full HD video streaming over the internet without distortion. The camera is also featured with WDR, 3D Noise Reduction, RS-485 support, etc. The IS-IP290 offers strengthened support for surveillance application that demands consistent precision zoom control while high resolution and superior video quality are requisite.

1.1 Features

- Sony Progressive CMOS Sensor
- 3x/18x Optical Zoom with AF
f= 3~9 mm (3x)/ 4.7~84.6mm (18x)
- Quad Streams support
- Dual Streams, Full HD 1080P real-time + D1 real-time
- Quad Streams Compression:
H.264 Baseline / Main / High Profile + MJPEG
- Multi-language support
- Tampering Alarm
- Wide Dynamic Range
- Motion Detection
- Privacy Masks
- Smart Picture Quality / 3D Noise Reduction
- Vertical View Mode (Image rotation by 90 degrees)
- Smart IR Mode
- Network Failure Detecion
- Day / Night (ICR)
- Micro SD support
- BNC Analog Output
- RS-485 support
- ONVIF Support

1.2 Package Contents

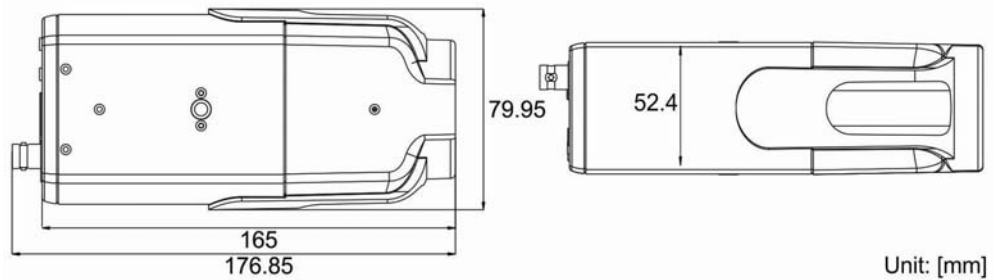
Please check the package contains the following items listed below.



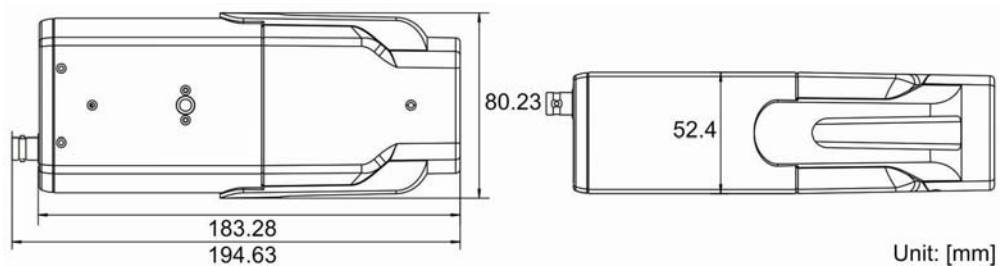
1.3 Dimensions

The IS-IP290's dimensions are shown below.

3x Camera

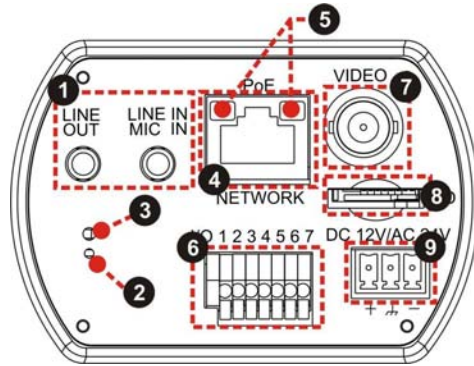


18x Camera



1.4 Connectors

The diagram below shows the IS-IP290's reset button and various connectors. Definition for each connector will be given as follows.



No	Definition	Remarks
1	LINE OUT & LINE IN / MIC IN	Two-way audio transmission
2	Power LED	Power connection indication (green light).
3	Reset button	Reset to factory default
4	NETWORK (with PoE)	RJ-45 connector
5	Network LEDs	Network connection and activity indication
6	I/O	1 Output + 5 GND
		2 Output - 6 D-
		3 Input + 7 D+
		4 Input -
7	VIDEO (BNC connector)	For video output
8	SD (Micro SD Card slot)	For video recording storage
9	AC 24V/DC 12V connector	+ AC 24V: Power-1 DC 12V: Power
		AC 24V: Earth GND DC 12V: Reserved
		- AC 24V: Power-2 DC 12V: GND

2 Camera Cabling

Please follow the instructions below to complete IS-IP290 connection.

2.1 Connect Power

Please refer to [Section: Connectors](#). Alternatively, connect the Ethernet cable to the camera's PoE port and plug the other end of the cable into a PoE switch.



NOTE: If using PoE, make sure Power Sourcing Equipment (PSE) is in use in the network.

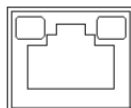
2.2 Connect Ethernet Cable

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 RJ-45 connector of the IS-IP290, 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 IS-IP290 directly to the PC.

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

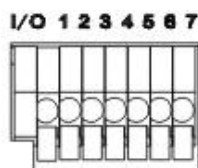


Green Link Light indicates good network connection.

Orange Activity Light flashes for network activity indication.

2.3 Connect Alarm I/O

The camera equips one alarm input and one relay output for alarm application. Refer to alarm pin definition below to connect alarm devices to the IS-IP290 if needed.



1. Output+
2. Output-
3. Input+
4. Input-

3. System Requirements

To perform the IS-IP290 via web browser, please ensure your PC is in good network connection, and meet system requirements as described below.

Items	System Requirement
Personal Computer	1. Intel® Pentium® M, 2.16 GHz or Intel® Core™2 Duo, 2.0 GHz 2. 2 GB RAM or more
Operating System	Windows VISTA/ Windows XP/ Windows 7
Web Browser	Microsoft 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 IS-IP290, users can search the camera through the installer program: DeviceSearch.exe, which can be found in “DeviceSearch” folder in the supplied CD.

DeviceSearchSoftwareSetup

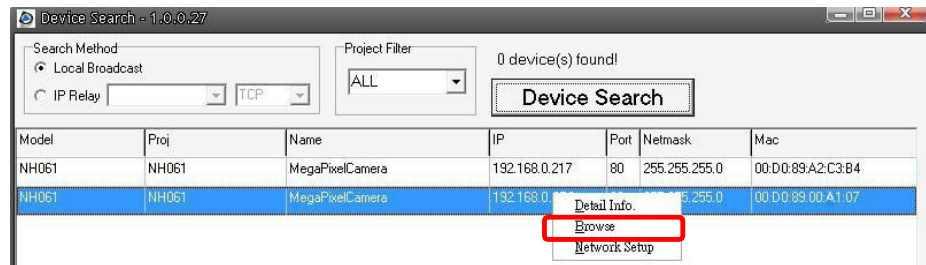
Step 1: Double click on the program Device Search.exe. After its window appears, click on the <Device Search> button on the top side.

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

DeviceSearch

Step 3: Click on <Device Search> again, and all the finding IP devices will be listed in the page. The IS-IP290’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: Then the prompt window of request for entering default username and password will appear for logging in to the IS-IP290.

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 [Full HD Multiple StreamsIS-IP290MenuTree](#) for further details.

Additionally, users can change the IS-IP290's network property, either DHCP or Static IP, directly in the device finding list. Refer to the following section for changing the IS-IP290's network property.

Example of Changing IS-IP290's Network Property

Users can directly change an IS-IP290's network property, ex. from static IP to DHCP, in the finding device list. The way to change the IS-IP290's network property is specified below:

Step 1: In the finding device list, click on the IS-IP290 that you would like to change its network property. On the selected item, right click and select "Network Setup." Meanwhile, record the IS-IP290's MAC address, for future identification.

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

Step 3: Click on <OK> on the Note of setting change. Wait for one minute to re-search the IS-IP290.

Step 4: Click on the <Device Search> button to search all the devices. Then select the IS-IP290 with the correct MAC address. Double click on the IS-IP290, and the login window will come out.

Step 5: Enter User name and Password to access the IS-IP290.

Installing DC Viewer Software Online

For the initial access to the IS-IP290, a client program, DC Viewer, will be automatically installed to your PC when connecting to the IS-IP290.

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 [Section: 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.

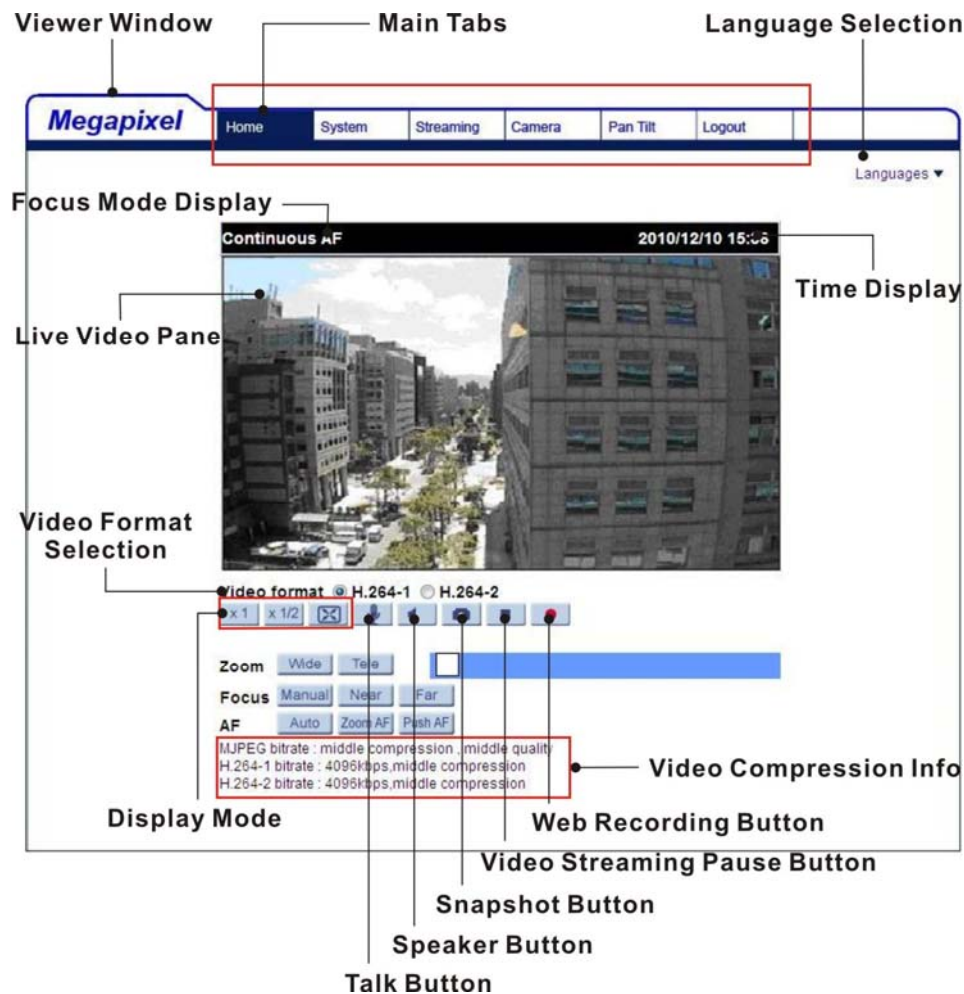
The download procedure of DC Viewer software is specified as follows.

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

Step 2: The status bar will 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 IS-IP290's Home page will be able to correctly display as the figure below.



ImageandFocusAdjustment

The image displays on the Home page when successfully accessing to the IS-IP290. Adjust zoom and focus as necessary to produce a clear image.



Note: Please refer to [FullHDMultipleStreamsIS-IP290MenuTree](#) for more button function detail.

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 Megapixel configuration interface. The top navigation bar includes 'Home', 'System', 'Streaming', 'Camera', and 'Logout'. The 'Streaming' menu is highlighted with a red box. On the left sidebar, the 'Video Format' menu item is highlighted with a red box. The main content area is titled 'Video Format' and contains the following sections:

- Video Resolution :** A dropdown menu is set to 'H.264 + H.264 + H.264 + H.264'. Below it are four rows for H.264-1, H.264-2, H.264-3, and H.264-4 formats, each with a resolution and frame rate dropdown. A 'Save' button is located below these settings.
- Note :** Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected.
- Text Overlay Settings :** Includes checkboxes for 'Include date', 'Include time', and 'Include text string' (with an adjacent text input field). A 'Save' button is below.
- Video Rotate Type :** A dropdown menu is set to 'Normal video'. A 'Save' button is below.
- GOV Settings :** Includes input fields for GOV Length for H.264-1, H.264-2, H.264-3, and H.264-4. A 'Save' button is below.
- H.264 Profile :** Includes dropdown menus for H.264-1, H.264-2, H.264-3, and H.264-4, all set to 'Main profile'. A 'Save' button is below.

The default value of Video Resolution is as below:

2M Real time H.264- 1920 x 1080 (30 fps) + H.264 720 x 480 (30 fps)

For more Video Resolution combination detail, please refer to [Appendix:Video Resolution](#). Click on <Save> to confirm the setting.

6. Configuration Files Export/ Import

To export/ import configuration files, users can access the Maintenance page on the user-friendly browser-based configuration interface.

The Maintenance setting can be found under this path: **System> Maintenance**.

Users can export configuration files to a specified location and retrieve data by uploading an existing configuration file to the IP Camera. It is especially convenient to make multiple cameras having the same configuration.

Export

Users can save the system settings by exporting the configuration file (.bin) to a specified location for future use. Click on the <Export> button, and the popup File Download window will come out. Click on <Save> and specify a desired location for saving the configuration file.

Upload

To copy an existing configuration file to the IS-IP290, please first click on <Browse> to select the configuration file, and then click on the <Upload> button for uploading.

Appendix A: Technical Specifications

Camera		3x / 18x Zoom AF IS-IP290
Image Sensor		Sony Progressive CMOS
Picture Elements		1920(H) x 1080(V)
Shutter Speed		1~ 1/10000 sec.
Lens		
Lens		3x/18x Optical Zoom, Auto Focus
Focal Length		3x- 3.0 ~ 9.0 mm 18x- 4.7 ~ 84.6 mm
F Number		3x- F1.2 (Wide); F2.1 (Tele) 18x- F1.6 (Wide); F2.8 (Tele)
FOV		3x- 92.93° (Wide) ~ 30.9° (Tele) 18x- 61.5° (1x) ~ 3.3° (18x)
Operation		
Multiple Languages		English / French / German / Italian / Korean / Simplified Chinese / Traditional Chinese / Russian
Image Setting	Backlight Compensation	On / Off
	White Balance	Auto / Manual
	Noise Reduction (3D)	On / Off
	Wide Dynamic Range	On / Off
	Privacy Mask	On / Off
	Brightness	Manual
	Exposure	Auto / Manual
	Sharpness	Manual
	Contrast	Manual
	Saturation	Manual
	Hue	Manual
	Digital Zoom	Support
	Motion Detection	On / Off
	Privacy Mask Type	Color
ICR	Auto / On / Off / Smart	
Tampering Alarm	On/Off	
Audio	Two-way Audio	Line out, Line in / Mic in
	Compression	G.711 / G.726
Network		
Interface		RJ-45, 10/100 Mbps Ethernet
Video Compression		H.264 / MJPEG
Video Streaming		Dual Streams- H.264 + H.264 / MJPEG Quad Streams- H.264 + H.264 + H.264 / MJPEG
Video Resolution		H.264- Full HD 1080p/HD 720p/XGA/SVGA/D1/VGA/CIF MJPEG- Full HD 1080p/HD 720p/XGA/SVGA/D1/VGA/CIF
Protocol		IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF
Security		HTTPS / IP Filter / IEEE 802.1x
Alarm	Input	1 Set 5V 10kΩ pull up
	Output	1 Set Photo Relay Output 300V DC/AC
Event Notification		HTTP / FTP / SMTP
Micro SD		microSDHC 32GB support
Supported Web Browser		Internet Explorer (6.0+) / Chrome / Firefox / Safari
User Account		20
Password Levels		User and Administrator
Mechanical		
LED Indicator		Power / Link / ACT
Connectors	Auto Iris	DC Drive
	Alarm	4 Pin Terminal Block
	Power	3 Pin Terminal Block
	Ethernet	RJ-45
	Analog Video	1.0 Vp-p / 75 Ω, BNC
	RS-485	D+, D-
	Audio	Stereo Phone Jack, ∅ 3.5 mm

General	
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Humidity	10% ~ 90%, No Condensation
Dimension	3x: 165.0 x 80.0 x 52.4 mm (L x W x H) 18x: 183.3 x 80.2 x 52.4 mm (L x W x H)
Weight	3x: 360 g (0.80 lb) 18x: 450 g (1 lb)
Power Source	DC 12V / AC 24V / PoE
Power Consumption	6 W (500 mA)
Regulatory	CE / FCC / RoHS

(*) Optional

Appendix B: Delete the Existing DC Viewer

For users who have installed the DC Viewer in the PC previously, please first remove the existing DC Viewer from the PC before accessing to the IS-IP290.

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

Step 2: Click on the <Delete> button under <Browsing history> section. Then click on the <Delete Files> button under the <Temporary Internet files> section.

Step 3: A confirmation window will pop up. Click on <Yes> 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.

InternetSecurityLevel: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 IS-IP290.

ActiveXControlsandPlug-insSettings

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

Step 4: Click on <OK> to accept the settings and close the Security Settings 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 IS-IP290.

Appendix D: Video Resolution

Quad Streams

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 720 (15 fps)	1280 x 720 (15 fps)	720 x 480 (30 fps)	
			640 x 480 (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)		
		352 x 240 (30 fps)		
	1280 x 720 (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)	1024 x 768 (15 fps)	800 x 600 (30 fps)	
			720 x 480 (30 fps)	
			640 x 480 (30 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)		
1920 x 1080 (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)	720 x 480 (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)	
			640 x 480 (30 fps)	
	1024 x 768 (30 fps)	1024 x 768 (30 fps)	800 x 600 (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	
800 x 600 (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)	720 x 480 (30 fps)
			640 x 480 (30 fps)	640 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)
	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)
		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)	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)
640 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)
			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)	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)	
352 x 240 (30 fps)	352 x 240 (30 fps)	352 x 240 (30 fps)	352 x 240 (30 fps)	

Triple Streams

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 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)
720 x 480 (30 fps)	640 x 480 (30 fps)	
	352 x 240 (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)	
1920 x 1080 (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)
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)
		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)
	720 x 480 (30 fps)	640 x 480 (30 fps)
352 x 240 (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)	352 x 240 (30 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)
		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)
		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)	352 x 240 (30 fps)

H.264-1 + H.264-2 + H.264-3 / MJPEG			
H.264-1	H.264-2	H.264-3 / MJPEG	
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)
	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)
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)	
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)	352 x 240 (30 fps)	352 x 240 (30 fps)	

Dual Streams

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

Single Stream

H.264 Only	BNC SUPPORT
1920 x 1080 (30 fps) Low Latency*	-
1920 x 1080 (30 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)	√
352 x 240 (30 fps)	-

* 1920 x 1080 (30 fps) Low Latency does not support BNC, 3DNR, Motion Detection and digital zoom.

MJPEG Only	BNC SUPPORT
1920 x 1080 (30 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)	√
352 x 240 (30 fps)	-