IP Camera API Parameter Specification

Revision: 3.0

Date: 2013-July-18

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DOCUMENT HISTORY

Version	Date	Comment
2.01	2009-Aug-27	Initial version.
2.02	2009-Dec-18	**HD WDR Camera:** Add motion group parameter Add time parameter **HD IP Camera:** Add resolution Add motion group parameter Add time parameter Add sensor parameter **V Series:** Add motion group parameter Add time parameter Add sensor parameter **IP PTZ:** Add resolution Add sensor parameter
2.03	2010-Apr-12	Add 2.1.9 UPnP Add 2.1.10 UPnP NATTraversal Update 2.2.2 Image.I0.Appearance Update 2.2.5 Image.I0.RateControl Update 2.12.2 AudioSource.A0 Add 2.1.3 Network.PPPoE Add 2.2.6 Image.I0.Text Add 2.6.3 Time.DST Add 2.13 Recording
2.04	2010-Dec-3	Add model names: V2 (NA222, NV222), V3 (NA322, NV322), V5 (NA052, NV052) Add 2.1.11 Network.Filter Add 2.1.12 Network.IPv6 Add 2.1.13 Network.Interface.I0.dot1x Add 2.1.14 Network.QoS Add 2.1.18 SNMP Add 2.1.19 HTTPS Add 2.4.9 Event HTTP notification function

		Add 2.17 Tampering Add 2.19 RS-485 Control
2.05	2011-June-1	Update camera firmware version Add model: Full HD Multiple Streams Series IP Camera Update 2.2.2 Image.I0.Appearance Update 2.2.3 Image.I0.Overlay.MaskWindows Update 2.2.4 Image.I0.Overlay.MaskWindows.M# Update 2.2.7 ImageSource.I0.Sensor Update 2.15.1 Frame skip Add 2.15.2 Frame rate Add 2.20 Storage Management
2.06	2011-Sep-28	Add model: Full HD IP PTZ Update 2.2.2 Image.I0.Appearance Update 2.2.3 Image.I0.Overlay.Maskwindows Update 2.2.4 Image.I0.Overlay.MaskWindows.M# Update 2.2.5 Image.I0.RateControl Update 2.2.7 ImageSource.I0.Sensor Update 2.3 I/O Update 2.4.7 Event activated function(PTZ Camera exclusive) Update 2.6.3 Time.DST Update 2.9 Autopan(PTZ Camera exclusive) Update 2.10 Cruise (PTZ Camera exclusive) Update 2.11 Guard Tour (PTZ Camera exclusive) Update 2.15.2 Frame rate (Full HD Multiple Streams Series/Full HD IP PTZ exclusive) Update 2.16 Motion Add Section 2.18 Network Failure Detection Update 2.19 IR
2.07	2012-Apr-23	**Add 2.1.4** Network.eth0.IPv6.IPAddresses= **Add 2.1.7** Network.RTP.R0.H264VideoPort3=0, 1024…65535 Network.RTP.R0.H264VideoPort4=0, 1024…65535 **Update 2.1.10** Network.UPnP.NATTraversal default value to 'no' **Add 2.1.16**

SMTP.MailServer#.SSLEnabled=yes, no

Add 2.2.2

Image.IO.Appearance.H264_3Compression=0…1

Image.IO.Appearance.H264_4Compression=0…1

Image.IO.Appearance.H264_3Bitrate=64…2048

Image.IO.Appearance.H264_4Bitrate=64…2048

Image.IO.Appearance.H264_3VideoKeyFrameInterval=2…64

Image.IO.Appearance.H264_4VideoKeyFrameInterval=2…64

Image.IO.Appearance.H264Profile=main, high, baseline

Image.IO.Appearance.H264_2Profile=main, high, baseline

Image.IO.Appearance.H264_3Profile=main, high, baseline

Image.IO.Appearance.H264_4Profile=main, high, baseline

Image.IO.Appearance.Resolution has been updated and 2M/3M/5M model are added into the resolution mix. Please refer to the section for more details.

Add 2.2.3

Image.I0.Overlay.MaskWindows.Switch

Add 2.2.4

Image.I0.Overlay.MaskWindows.M#.XPos

Image.I0.Overlay.MaskWindows.M#.YPos

For 5M model

Add 2.2.5

Image.I0.RateControl default value to 'cbr'

Image.I0.RateControl.H264_3Mode=vbr, cbr

Image.I0.RateControl.H264_4Mode=vbr, cbr

Update 2.2.7

ImageSource.I0.Sensor.Exposure valid values

ImageSource.I0.Sensor.Exposure.MinShutterSpeed valid values

ImageSource.I0.Sensor.Backlight for Full HD Multiple Streams series

ImageSource.I0.Sensor.Brightness=0…**250**

ImageSource.I0.Sensor.Contrast=0…**250**

ImageSource.I0.Sensor.ColorLevel=0…**250**

ImageSource.I0.Sensor.Hue=0…**250**

ImageSource.I0.Sensor.Digitalzoom=off, **2**…8

for Full HD Multiple Streams series

Add 2.2.9

Image.I0.ROI.InputWindows.S#: Add new section for ROI setting

			Update 2.4.8
			Event.E#.Actions.A6.BestEffortDuration=0…99999
			Event.E#.Actions.A7
			Update 2.13.1
			Recording.R# default value
			Add 2.15.2
			Framerate.H264_3=1…30(NTSC), 1…25(PAL)
			Framerate.H264_4=1…30(NTSC), 1…25(PAL)
			Update 2.17.1
			Tampering Alarm title
			Add 2.19.1
			IR.Active=on, off
			Add 2.22
			Add section for Fisheye Setting
			Add Appendix A
3.0	2013-July-18		**Remove information regarding N3&A2 devices**
			Update the supported software version
			Add 2.1.15 Network.Authentication
			Update 2.2.2 Image.I0.Appearance
			Add Full HD WDR IP Camera information
			Add Image.I0.Appearance.MaxFPSbyResolution
			Update 2.2.3
			Image.I0.Overlay.MaskWindows.color
			Image.I0.Overlay.MaskWindows.type
			Update 2.2.4
			Image.I0.Overlay.MaskWindows.M#
			Update 2.2.6
			Add Image.IO.Text.Color
			Add Image.IO.Text.BGColor
			Update 2.2.7
			ImageSource.IO.Sensor
			Add ImageSource.IO.Sensor.DIS
			Update 2.3.4 Output.O#
			For Full HD IP PTZ,
			Output.O#.Name=Output1, Output2
			Add 2.4.1 Event.E#. Schedule
			Update 2.4.1 Event.E#

		Add the reference number of periodical event
		Update 2.4.8 Event recording function
		Event.E#.Actions.A7 description
		Add 2.8.3 PTZ.Home
		Update 2.9.1 Autopan.A#
		Add Autopan.A#.State
		Remove Autopan.A#.Running
		Update 2.15.1
		Framerate
		Add 2.16.3 Motion1.M#
		Add 2.16.4 Motion2.M#
		Add 2.16.5 Motion3.M#
		Update 2.19 IR
		Add IR.LightCompensation
		Update 2.20.1 RS-485 Control
		RS485Control.Mode valid values
		Add RS485Control.BaudrateType
		Add 2.20.2 RS-485 universal protocol control
		Add 2.23 Schedule
		Add section for Schedule Setting
		Add 2.24 Periodical event

1 OVERVIEW

This document specifies the parameters and configuration files for the H.264 IP cameras/device mentioned below:

Classification	Model name
Full HD Multiple Streams IP Camera	NH223
	NH323
	NH053
	NH063
	NH073
	W1(NV103, NA103)
	W2(NV223, NA223)
	W3(NV323, NA323)
	W5(NV053, NA053)
	W6(NV063, NA063)
	W8(NA083)
	WA(Wxxx-A)
	WB(Wxxx-B)
	WC(Wxxx-C)
	WH(Wxxx-H)
	WJ(Wxxx-J)
	WM(Wxxx-M)
	WN(Wxxx-N)
	WL(Wxxx-L)
Full HD IP PTZ	NH720-18N1
	NH820-18N1
	NH720-18N7
	NH820-18N7
	NH720-20N2
	NH820-20N2
	NH720-20N8
	NH820-20N8
	NH720-30N9
	NH820-30N9
	NH720-18F1
	NH820-18F1
	NH720-20F2
	NH820-20F2

	NH720-30F3
	NH820-30F3
Full HD WDR IP Camera	X1(X0Sx-1)
	X6(X0Sx-6)
	X7(X0Sx-7)
	XA(X0Sx-A)
	XB(X0Sx-B)
	XC(X0Sx-C)
	XJ(X0Sx-J)
	XM(X0Sx-M)
	XN(X0Sx-N)
	XL(X0Sx-L)

x: 0~9, A~Z

Model List of PTZ Camera Modules

Model name
N1: 18x
N2: 20x
N7: 18x
N8: 20x
N9: 30x
F1: 18x
F2: 20x
F3: 30x

1.1 Product and firmware versions

The support for the parameters specified in this document is highly product and release dependent.
Please refer to the parameter list for the actual product. This API version is compatible with the following firmware and after.

Classification	Firmware Version
Full HD Multiple Streams IP Camera	z120130606NSA/ z120130607NSA
Full HD IP PTZ	z120130606NSA/ z120130607NSA
Full HD WDR IP Camera	z120130613NSX

1.2 Valid values

The following valid values are used in this document:

Valid values	Description
An integer	Any number between -2147483647 (-2^{31}-1) and 2147483647 (2^{31}-1).
An unsigned integer	Any number between 0 and 4294967295 (2^{32}-1).
<m>	Any number starting from number m.
<m> ... <n>	Any number between number m and number n.

A string		Any string (valid characters: ISO 8859-1).
A domain name		A string limited to contain a domain name.
A host name		A string limited to contain a host name.
An IP address		A string limited to contain an IP address of the format xxx.xxx.xxx.xxx, where xxx is a number between 0 and 255. Example: 192.168.0.250
A MAC Address		A string limited to contain a MAC address of the format xx:xx:xx:xx:xx:xx, where xx is a hexadecimal value. Example: 00:D0:89:00:AC:01
An e-mail address		A string limited to contain an e-mail address.
A URL/URI		A sting limited to contain a URL/URI.
A path		A string limited to contain a path.
A time		A string limited to contain a time of the format hh:mm:ss. Example: 23:01:14
A date		A string limited to contain a date of the format yyyy-mm-dd. Example: 2007-01-01
<value 1> <value 2> <value 3> ...		Enumeration, only the given values are valid. Example: yes no
<m><value> ... <n><value>	<value><m> ... <value><n>	Any number between m and n together with value. Example: 1Mbit ... 100Mbit
Read only		Only the default value is valid as value.
Auto generated		Automatically generated value should not be changed manually.
Hardware dependent		The hardware decides the default value/the valid values.
Everything inside brackets		Description.

2 PARAMETER GROUPS

2.1 General

2.1.1 Brand

Description: Contains information about the brand, name and type of the product.

Configuration file: /etc/sysconfig/brand.conf

[Brand]

Parameter name	Default value	Valid values	Description
Brand	non brand	A string (Auto generated)	The brand of the product.
ProdFullName	IP Camera	A string (Auto generated)	The full name of the product.
ProdNbr	Product dependent	A string (Auto generated)	The product number.
ProdShortName	Product dependent	A string (Auto generated)	The short name of the product.
ProdType	network camera	video server, network camera, network video recorder (Auto generated)	The product type.
WebURL		A string (Auto generated)	The URL to visit for support and information about the product.

2.1.2 Network

Description: Network interface settings. The parameters in this group (as opposed to the subgroups of this group) are static network settings. If the Network.BootProto parameter is "dhcp" these parameters may not be in use so always use the read-only parameters in the subgroups to retrieve actual network settings in use by the operating system.

Configuration file: /etc/sysconfig/network.conf

[Network]

Parameter name	Default value	Valid values	Description
BootProto	none	dhcp, none	Enable/disable dynamic IP address assignment to the device.
IPAddress	192.168.0.250	An IP address	IP Address. The physical address of the device on the network.
SubnetMask	255.255.255.0	An IP address	Subnet mask. Divides the network.
Broadcast	192.168.0.255	An IP address	Broadcast address. Used to disseminate information to several recipients simultaneously.
DefaultRouter	192.168.0.254	An IP address	Default router/gateway used for connecting devices attached to different networks and network segments.
HostName	MegaPixelCamera	A host name	The name of the device on the network, usually the same as the DNS name.
DNSServer1	0.0.0.0	An IP address	Primary Domain Name System server.
DNSServer2	0.0.0.0	An IP address	Secondary Domain Name System server.
Port	80	80 1024 ... 65535	The port of web server.

2.1.3 Network.PPPoE

Description: PPPoE setting for authorized connecting to internet.

Configuration file: /etc/sysconfig/network.conf

[Network.PPPoE]

Parameter name	Default value	Valid values	Description
UserName		A string	User name for PPPoE authorization.
Password		A string	Password for PPPoE authorization.
IPAddress	0.0.0.0	0.0.0.0	A dummy IP address This parameter is read only.
SubnetMask	255.255.255.255	255.255.255.255	A dummy Subnet Mask This parameter is read only.

2.1.4 Network.eth0

Description: Network settings of the first Ethernet interface. Use these parameters to retrieve the network settings actually in use by the operating system.

Configuration file: /etc/sysconfig/network.conf

[Network.eth0]

Parameter name	Default value	Valid values	Description
MACAddress	00:D0:89:xx:xx:xx *	A MAC address (Auto generated)	MAC address. The unique identity of the device. This parameter is read only.
IPv6.IPAddresses			
IPAddresses	192.168.0.250	An IP address (Auto generated)	IP Address. The physical address of the device on the network.

			This parameter is read only.
SubnetMask	255.255.255.0	An IP address (Auto generated)	Subnet mask. Divides the network. This parameter is read only.
Broadcast	192.168.0.255	An IP address (Auto generated)	Broadcast address. Used to disseminate information to several recipients simultaneously. This parameter is read only.

* The MAC address of the device is unique for every single product. The first part of the address is however always the same; 00:D0:89. The MAC address is the same as the serial number, which can be found on the product's label.

2.1.5 Network.Routing

Description: Routing table actually in use by the operating system.

Configuration file: /etc/sysconfig/network.conf

[Network.Routing]

Parameter name	Default value	Valid values	Description
DefaultRouter	192.168.0.254	Auto generated	This parameter is read only.

2.1.6 Network.RTSP

Description: Parameters needed by the RTSP daemon.

Configuration file: /etc/sysconfig/network.conf

[Network.RTSP]

Parameter name	Default value	Valid values	Description
Enabled	yes	yes	RTSP support. This parameter is read only.
Port	554	554, 1024 ... 65535	The port number for the RTSP daemon.

2.1.7 Network.RTP.R0

Description: Parameters related to multicast RTP.

Configuration file: /etc/sysconfig/network.conf

[Network.RTP.R0]

Parameter name	Default value	Valid values	Description
VideoAddress	0.0.0.0	An IP address	The IP address to which the multicast RTP video stream is transmitted. The default value 0.0.0.0 indicates that the multicast is disabled. IP address range is from 224.0.0.0 to 239.255.255.255
MpegVideoPort	0	0, 1024 ... 65535	The port number for the RTP mpeg-4 video stream. 0 means no distribution.
H264VideoPort	0	0, 1024 ... 65535	The port number for the RTP H.264 video stream. 0 means no distribution.

Parameter name	Default value	Valid values	Description
H264VideoPort2	0	0, 1024 ... 65535	The port number for the RTP H.264-2 video stream. 0 means no distribution.
H264VideoPort3	0	0, 1024 ... 65535	The port number for the RTP H.264-3 video stream. 0 means no distribution.
H264VideoPort4	0	0, 1024 ... 65535	The port number for the RTP H.264-4 video stream. 0 means no distribution.
MjpegVideoPort	0	0, 1024 ... 65535	The port number for the RTP mjpeg video stream. 0 means no distribution.
AudioAddress	0.0.0.0	An IP address	The IP address to which the multicast RTP audio stream is transmitted. Read only and depends on VideoAddress.
AudioPort	0	0, 1024 ... 65535	The port number for the RTP audio stream. 0 means no distribution.
TTL	1	1 ... 255	The Time To Live for each UDP packet. This indicates the number of routers/switches that the packet may traverse before being discarded.

2.1.8 Network.HTTP

Description: Parameters needed by the HTTP daemon.

Configuration file: /etc/sysconfig/network.conf

[Network.HTTP]

Parameter name	Default value	Valid values	Description

MjpegPort	8008	1024 ... 65535	The port number for the MJPEG stream over HTTP. This parameter is read only.

2.1.9 Network.UPnP

Description: Enable/disable Universal Plug and Play and set the name to be displayed in UPnP-clients.

Configuration file: /etc/conf/libupnp.conf

[Network.UPnP]

Parameter name	Default value	Valid values	Description
Enabled	yes	yes, no	Enable/disable Universal Plug and Play.
FriendlyName	<product name> - <serial number>	A string	The name of the UPnP device.

2.1.10 Network.UPnP.NATTraversal

Description: The parameters control NAT traversal functionality. NAT traversal is a technique that can be used to open up routers and firewalls to make devices on a LAN accessible from the Internet.

Configuration file: /etc/sysconfig/nat_traversal.conf

[Network.UPnP.NATTraversal]

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable NAT traversal.

2.1.11 Network.Filter

Description: Allowing/denying the listed IP addresses to access the IP Camera.

Configuration file: /etc/sysconfig/network.conf

[Network.Filter]

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable IP filtering function.
Input.Policy	deny	allow deny	Allow or deny access for the IP addresses in the list
Input.AcceptAddresses		An IP address	

2.1.12 Network.IPv6

Description: Enables/disables IPv6 protocol with 128-bit addressing.

Configuration file: /etc/sysconfig/network.conf

[Network.IPv6]

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable IPv6 support

2.1.13 Network.Interface.I0.dot1x

Description: Parameters configurations for network system with EAP-TLS authentication support.

Configuration file: /etc/sysconfig/network.conf

[Network.Interface.I0.dot1x]

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable EAP-TLS support.
EAPTLS.Identity	admin	A string	Identity for EAP-TLS authentication
EAPTLS.PrivateKeyPassword	12345	A string	Private Key password for EAP-TLS authentication

2.1.14 Network.QoS

Description: Classification and Differentiated Services Code Point (DSCP) values for Quality of Service (QoS) configurations.

Configuration file: /etc/sysconfig/network.conf

[Network.QoS]

Parameter name	Default value	Valid values	Description
Class1.Desc	LiveVideo	LiveVideo	Class1 represents video service which consists of applications that stream MJPEG video streams over HTTP, RTP/RTSP and RTSP/HTTP.
Class1.DSCP	0	0 … 63	DSCP value for video service. DSCP=0 indicates that DSCP is disabled for video service. Applications belong to Class 1 receive the same forwarding

			treatment from routers
Class2.Desc	LiveAudio	LiveAudio	Class2 represents audio service, which is only available in the products that support audio.
Class2.DSCP	0	0 ... 63	DSCP value for audio service. DSCP=0 indicates that DSCP is disabled for audio service.
Class4.Desc	Management	Management	Class4 consists of HTTP traffic.
Class4.DSCP	0	0 ... 63	DSCP value for management traffic. DSCP=0 indicates that DSCP is disabled for management traffic.

2.1.15 Network.Authentication

Description: Parameter for enable the RTSP authentication

Configuration file: /etc/sysconfig/network.conf

[Network.Authentication]

Parameter name	Default value	Valid values	Description
Authentication.Streaming	disable	**Full HD WDR IP Camera:** disable, basic, digest	When the client send a RTSP command to server, the authorization information is required. Currently, we support two different mechanisms: basic and digest.

2.1.16 SMTP

Description: Parameters for the Simple Mail Transfer Protocol, for sending e-mail messages between mail servers.

Configuration file: /etc/sysconfig/smtp.conf

[SMTP]

Parameter name	Default value	Valid values	Description
FromEmail		An email address	Sender e-mail address
MailServer1		An IP address or a host name	Primary mail server.
MailServer1port	25	1 … 65535	Mail Server-1's SMTP port
MailServer2		An IP address or a host name	Secondary mail server.
MailServer2port	25	25, 1024 … 65535	Mail Server-2's SMTP port

2.1.17 SMTP.MailServer#

Description: Parameters for the Simple Mail Transfer Protocol, for sending e-mail messages between mail servers.

Configuration file: /etc/sysconfig/smtp.conf

[SMTP.MailServer#]*

Parameter name	Default value	Valid values	Description
EmailTo		An email address	Receiver e-mail address
SSLEnabled	no	yes, no	

* **Note:** The # is replaced with a group number 1 and 2, e.g. SMTP.MailServer1.

2.1.18 SMTP.Authentication.A#

Description: Parameters for SMTP authentication.

Configuration file: /etc/sysconfig/smtp_auth.conf

[SMTP.Authentication.A#]*

Parameter name	Default value	Valid values	Description
UserName		A string	The user name for the mail server or the POP server.
Password		A string	The password for the mail server or the POP server.

* **Note:** The # is replaced with a group number 1 and 2, e.g. SMTP.Authentication.A1.

2.1.19 SNMP

Description: Configure the SNMP agent that resides on the managed device in SNMP-managed network.

Configuration file: /etc/sysconfig/snmp.conf

[SNMP]

Parameter name	Default value	Valid values	Description
V1	no	no, yes	Enables/disables SNMPv1
V2c	no	no, yes	Enables/disables SNMPv2
V1ReadCommunity	public	A string	SNMPv1 read-only community name used by the SNMP agent
V1WriteCommunity	private	A string	SNMPv1 read-write community name used by the SNMP agent
Trap.Enabled	no	no, yes	Enable/disable the device to send the trap message back to the management station.
Trap.T0.Address		An IP address	The IP address of the management station.
Trap.T0.Community	public	A striing	Trap Community name
Trap.T0.WarmStart.Enabled	no	no, yes	A Warm Start SNMP trap signifies that the SNMP device, i.e. IP Camera, performs software reload.

2.1.20 HTTPS

Description: Parameters for Hypertext Transfer Protocol Secure (HTTPS)

Configuration file: /etc/sysconfig/https.conf

[HTTPS]

Parameter name	Default value	Valid values	Description
Port	443	1024 … 65535	HTTPS port The HTTPS mode ensures camera settings and Username/Password info from snooping

2.2 H.264/MJPEG

2.2.1 Image

Description: Common image parameters used for all image configurations.

Configuration file: /etc/sysconfig/image_global.conf

[Image]

Parameter name	Default value	Valid values	Description
MaxViewers	20	20	Max number of simultaneous viewers (does not affect multicast delivery). This parameter is read only.
TimeFormat	24	24	Time format used in text overlay. This parameter is read only.
DateFormat	YYYY-MM-DD	YYYY-MM-DD	Date format used in text overlay. This parameter is read only.

2.2.2 Image.I0.Appearance

Description: Image appearance parameters (resolution, compression, rotation) for each image configuration.

Configuration file: /etc/sysconfig/image_appearance.conf

[Image.I0.Appearance]

Parameter name	Default value	Valid values	Description
Compression	1	0 … 2	The level of MJPEG image compression. High compression reduces the file size. Low compression produces optimum picture quality, but larger file size.
MjpegCompression	1	0 … 2	The level of MJPEG image compression. High compression reduces the file size. Low compression produces optimum picture quality, but larger file size.
MjpegQfactor	35	1 … 70	The value of MJPEG image compression. Higher value means lower compression and higher quality and larger file size.
H264Compression	**Full HD Multiple Streams series:** 2 **Full HD IP PTZ:** 2 **Full HD WDR IP Camera:**	**Full HD Multiple Streams series:** 0 … 4 **Full HD IP PTZ:** 0 … 4 **Full HD WDR IP Camera:**	The level of H.264 image compression. High compression reduces the file size. Low compression produces optimum picture quality, but larger file sizes

	2	0 ... 4	
H264_2Compression	**Full HD Multiple Streams series:** 0 **Full HD IP PTZ:** 0 **Full HD WDR IP Camera:** 0	**Full HD Multiple Streams series:** 0 ... 1 **Full HD IP PTZ:** 0 ... 1 **Full HD WDR IP Camera:** 0 ... 4	The level of H.264-2 image compression. High compression reduces the file size. Low compression produces optimum picture quality, but larger file size.
H264_3Compression	**Full HD Multiple Streams series:** 0 **Full HD IP PTZ:** 0 **Full HD WDR IP Camera:** 0	**Full HD Multiple Streams series:** 0 ... 1 **Full HD IP PTZ:** 0 ... 1 **Full HD WDR IP Camera:** 0 ... 4	The level of H.264-3 image compression. High compression reduces the file size. Low compression produces optimum picture quality, but larger file size.
H264_4Compression	**Full HD Multiple Streams series:** 0 **Full HD IP PTZ:** 0 **Full HD WDR IP Camera:** 0	**Full HD Multiple Streams series:** 0 ... 1 **Full HD IP PTZ:** 0 ... 1 **Full HD WDR IP Camera:** 0 ... 4	The level of H.264-4 image compression. High compression reduces the file size. Low compression produces optimum picture quality, but larger file size.
H264Bitrate	**Full HD Multiple Streams series:** 4096 **Full HD IP PTZ:**	**Full HD Multiple Streams series:** 64 ... 8192 **Full HD IP PTZ:**	The value of H.264 image compression. Higher value means lower compression and higher quality and larger file

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	4096 **Full HD WDR IP Camera:** 4096	64 … 8192 **Full HD WDR IP Camera:** 64 … 8192	size.
H264_2Bitrate	**Full HD Multiple Streams series:** 1024 **Full HD IP PTZ:** 1024 **Full HD WDR IP Camera:** 1024	**Full HD Multiple Streams series:** 64 … 2048 **Full HD IP PTZ:** 64 … 2048 **Full HD WDR IP Camera:** 64 … 8192	The value of H.264-2 image compression. Higher value means lower compression and higher quality and larger file size. NOTE: Under the condition Resolution H.264_2 QVGA (30fps Baseline), the maximum value is 1024 kbit/s
H264_3Bitrate	**Full HD Multiple Streams series:** 1024 **Full HD IP PTZ:** 1024 **Full HD WDR IP Camera:** 1024	**Full HD Multiple Streams series:** 64 … 2048 **Full HD IP PTZ:** 64 … 2048 **Full HD WDR IP Camera:** 64 … 8192	The value of H.264-3 image compression. Higher value means lower compression and higher quality and larger file size.
H264_4Bitrate	**Full HD Multiple Streams series:** 1024 **Full HD IP PTZ:** 1024 **Full HD WDR IP Camera:** 1024	**Full HD Multiple Streams series:** 64 … 2048 **Full HD IP PTZ:** 64 … 2048 **Full HD WDR IP Camera:** 64 … 8192	The value of H.264-4 image compression. Higher value means lower compression and higher quality and larger file size.
DisplayCompression	yes	yes, no	The compression information shows in the homepage or not.

Resolution	**Full HD Multiple Streams series:** 2M: disable,1080p,720p, disable, disable 2M real-time/ 3M/ 5M (exclude fisheye): disable, 1080p, d1, disable, disable Fisheye: disable, 5m, d1, disable, disable **Full HD IP PTZ:** disable, 1080p, d1 **Full HD WDR IP Camera:** 60fps: disable,1080p60,d1, disable, disable 50fps: disable, 1080p50, d150, disable, disable 30fps,25fps: disable,1080p,d1, disable, disable	**Full HD Multiple Streams series:** 2M model: Combination of 1080p, sxga, 720p, xga, svga, d1, vga, cif and disable The format is \<resolution_MJPEG\>, \<resolution_H.264\>, \<resolution_H.264_2 \>,\<resolution_H.264 _3\>,\<resolution_H.2 64_4\> 3M model: 3m \<resolution_H.264\>; Combination of 1080p, sxga, 720p, xga, svga, d1, vga , cif and disable The format is \<resolution_MJPEG\>, \<resolution_H.264\>, \<resolution_H.264_2 \>,\<resolution_H.264 _3\>,\<resolution_H.2 64_4\> 5M model: 3m, 5m \<resolution_H.264\> ; Combination of 1080p, sxga, 720p, xga, svga, d1, vga, cif and disable The format is \<resolution_MJPEG\>,	The image resolution. **Full HD Multiple Streams series/Full HD IP PTZ:** The first parameter shows the resolution in MJPEG stream, follow by the second parameter in H.264 stream-1, the third one in H.264 stream-2, the fourth one in H.264 stream-3 and the last one H.264 stream-4. 3m= 2048x1536 5m= 2592x1944 1080p= 1920x1080 quadvga=1280x960 sxga=1280x1024 720p=1280x720 xga=1024x768 svga=800x600 d1=720x480(NTSC) d1=720x576(PAL) vga=640x480 qvga=320x240 cif=352x240(NTSC) cif=352x288(PAL) qcif=176x144 disable= not supported **Full HD WDR IP Camera:** 1080p= 1920x1080 1080p60= 1920x1080@60fps 1080p50= 1920x1080@50fps 1080p15= 1920x1080@15fps 1080p13=1920x1080@13fps quadvga= 1280x960 quadvga60 =1280x960@60fps quadvga50

		<resolution_H.264>, <resolution_H.264_2>,<resolution_H.264_3>,<resolution_H.264_4>	=1280x960@50fps sxga=1280x1024 sxga60=1280x1024@60fps sxga50=1280x1024@50fps sxga15=1280x1024@15fps sxga13=1280x1024@13fps
		Full HD IP PTZ: Combination of 1080p, sxga, 720p, xga, svga, d1, vga, cif, and disable The format is <resolution_MJPEG>, <resolution_H.264>, <resolution_H.264_2>,<resolution_H.264_3>,<resolution_H.264_4>	720p=1280x720 720p60=1280x720@60fps 720p50=1280x720@50fps 720p15=1280x720@15fps 720p13=1280x720@13fps xga=1024x768 xga60=1024x768@60fps xga50=1024x768@50fps svga=800x600 svga60=800x600@60fps svga50=800x600@50fps
		Full HD WDR IP Camera: NTSC: Combination of 1080p , 1080p60, 1080p15, sxga, sxga60, sxga15, 720p, 720p60, 720p15, xga, xga60, svga, svga60, d1, d160, vga, vga60, cif, cif60, qcif, qcif60, and disable PAL: Combination of 1080p, 1080p50, 1080p13, sxga, sxga50, sxga13, 720p, 720p50, 720p13, xga, xga50, svga, svga50, d1,	d1=720x480(NTSC) d160=720x480(NTSC)@60fps d1=720x576(PAL) d150=720x576(PAL)@50fps vga=640x480 vga60=640x480@60fps vga50=640x480@50fps qvga=320x240 qvga60=320x240@60fps qvga50=320x240@50fps cif=352x240(NTSC) cif60=352x240(NTSC)@60fps cif=352x288(PAL) cif50=352x288(PAL)@50fps qcif=176x144 qcif60=176x144@60fps qcif50=176x144@50fps disable= not supported Note: 1) sxga is not available for

		d150, vga, vga50, cif, cif50, qcif, qcif50, and disable The format is <resolution_MJPEG>, <resolution_H.264>, <resolution_H.264_2>,<resolution_H.264_3>,<resolution_H.264_4>	Full HD Multiple Streams 10x/18x Zoom AF IP Camera.
Rotation	**Full HD Multiple Streams series:** 0 **Full HD IP PTZ:** 0 **Full HD WDR IP Camera:** 0	**Full HD Multiple Streams series:** 0, flip, mirror, rotate, clockwise, counterclockwise **Full HD IP PTZ:** 0, flip, mirror, rotate, clockwise, counterclockwise **Full HD WDR IP Camera:** 0, flip, mirror, rotate, counterclockwise	Rotates the image. 0 = Normal. flip = up/down inversion. mirror = left/right inversion rotate = both up/down and left/right inversion clockwise/counterclockwise = 90 degree rotation Note : For Full HD Multiple Streams series and Full HD IP PTZ, 1) Clockwise and counterclockwise are not available under Video format : H.264+MJPEG, H.264+H.264+MJPEG, H.264+H.264+ H.264+MJPEG, MJPEG only 2) Clockwise and counterclockwise are not available under stream using cif resolution. For Full HD WDR IP Camera, 1) Counterclockwise are not

			available under Video format : H.264+MJPEG, H.264+H.264+MJPEG, H.264+H.264+ H.264+MJPEG, MJPEG only 2) counterclockwise are not available under stream using qcif resolution (NTSC) 3) Please refer to the Appendix B for the resolution which support counterclockwise rotation
H264VideoKeyFram eInterval	**Full HD Multiple Streams series:** 60 (NTSC) 50 (PAL) **Full HD IP PTZ:** 60 (NTSC) 50 (PAL) **Full HD WDR IP Camera:** 60 (NTSC) 50 (PAL)	**Full HD Multiple Streams series:** 2 … 64 **Full HD IP PTZ:** 2 … 64 **Full HD WDR IP Camera:** 1 … 255	This is the H.264 streaming GOV Length, the frame interval between 2 intra-coded picture, which is the start of decoding. The default value depends on the TV system user choose.
H264_2VideoKeyFra meInterval	**Full HD Multiple Streams series:** 60 (NTSC) 50 (PAL) **Full HD IP PTZ:** 60 (NTSC) 50 (PAL) **Full HD WDR IP Camera:** 60 (NTSC) 50 (PAL)	**Full HD Multiple Streams series:** 2 … 64 **Full HD IP PTZ:** 2 … 64 **Full HD WDR IP Camera:** 1 … 255	This is the 2nd H.264 streaming GOV Length, the frame interval between 2 intra-coded picture, which is the start of decoding. The default value depends on the TV system user choose.

H264_3VideoKeyFra meInterval	**Full HD Multiple Streams series:** 30 (NTSC) 25 (PAL) **Full HD WDR IP Camera:** 30 (NTSC) 25 (PAL)	**Full HD Multiple Streams series:** 2 … 64 **Full HD IP PTZ:** 2 … 64 **Full HD WDR IP Camera:** 1 … 255	This is the 3rd H.264 streaming GOV Length, the frame interval between 2 intra-coded picture, which is the start of decoding. The default value depends on the TV system user choose.
H264_4VideoKeyFra meInterval	**Full HD Multiple Streams series:** 30 (NTSC) 25 (PAL) **Full HD WDR IP Camera:** 30 (NTSC) 25 (PAL)	**Full HD Multiple Streams series:** 2 … 64 **Full HD IP PTZ:** 2 … 64 **Full HD WDR IP Camera:** 1 … 255	This is the 4th H.264 streaming GOV Length, the frame interval between 2 intra-coded picture, which is the start of decoding. The default value depends on the TV system user choose.
H264Profile	**Full HD Multiple Streams series:** main **Full HD WDR IP Camera:** main	**Full HD Multiple Streams series:** main, high, baseline **Full HD IP PTZ:** main, high, baseline **Full HD WDR IP Camera:** main, high, baseline	
H264_2Profile	**Full HD Multiple Streams series:** main **Full HD WDR IP Camera:** main	**Full HD Multiple Streams series:** main, high, baseline **Full HD IP PTZ:** main, high, baseline **Full HD WDR IP Camera:** main, high, baseline	

H264_3Profile	**Full HD Multiple Streams series:** main **Full HD WDR IP Camera:** main	**Full HD Multiple Streams series:** main, high, baseline **Full HD IP PTZ:** main, high, baseline **Full HD WDR IP Camera:** main, high, baseline	
H264_4Profile	**Full HD Multiple Streams series:** main **Full HD WDR IP Camera:** main	**Full HD Multiple Streams series:** main, high, baseline **Full HD IP PTZ:** main, high, baseline **Full HD WDR IP Camera:** main, high, baseline	
MaxFPSbyResolution			To list the combination of resolution with the corresponding maximum frame rate.

2.2.3 Image.I0.Overlay.MaskWindows

Description: The group is for the setting of mask color and mask type.

Configuration file: /etc/sysconfig/image_overlay.conf

[Image.I0.Overlay.MaskWindows]

Parameter name	Default value	Valid values	Description
Switch	**Full HD IP PTZ:** off	**Full HD IP PTZ:** on,off	
Color	**Full HD Multiple Streams series:** black	**Full HD Multiple Streams series:** black, white, yellow,	The color of mask.

	Full HD IP PTZ: black **Full HD WDR IP Camera:** black	red, green, blue, cyan, magenta **Full HD IP PTZ:** black, white, yellow, red, green, blue, cyan, magenta **Full HD WDR IP Camera:** black, white, yellow, red, green, blue, cyan, magenta	
Type	**Full HD IP PTZ:** solid **Full HD WDR IP Camera:** solid	**Full HD IP PTZ:** solid, transparency **Full HD WDR IP Camera:** solid, transparency	The type of mask.

2.2.4 Image.I0.Overlay.MaskWindows.M#

Description: The group is for enabling mask.

Configuration file: /etc/sysconfig/image_overlay.conf

[Image.I0.Overlay.MaskWindows.M#] *

Parameter name	Default value	Valid values	Description
Enabled	**Full HD Multiple Streams series:** no **Full HD WDR IP Camera:** no	**Full HD Multiple Streams series:** no, yes **Full HD WDR IP Camera:** no, yes	Enable/ disable the mask.
XPos	**Full HD Multiple Streams series:** 10, when#=0; 25, when#=1; 40, when#=2; 55, when#=3; 70, when#=4 5m 40, when#=0; 55, when#=1; 70, when#=2; 85, when#=3; 100, when#=4 **Full HD WDR IP Camera:** 40, when#=0; 60, when#=1 80, when#=2 100, when#=3 120, when#=4	**Full HD Multiple Streams series:** 2M Model: 0 … 119 3M Model: 0 … 127 5M Model: 0 … 161 **Full HD WDR IP Camera:** IMX139, ICX692: 0 … 159 IMX140: 0 … 239	The X position of mask

YPos	**Full HD Multiple Streams series:** 10, when#=0; 10, when#=1; 10, when#=2; 10, when#=3; 10, when#=4 5m 40, when#=0; 40, when#=1; 40, when#=2; 40, when#=3; 40, when#=4 **Full HD WDR IP Camera:** 30, when #=0; 30, when #=1 30, when #=2 30, when #=3 30, when #=4	**Full HD Multiple Streams series:** 2M Model: 0 … 66 3M Model: 0 …95 5M Model: 0 … 120 **Full HD WDR IP Camera:** IMX139: 0 … 127 IMX140: 0 … 134 ICX692: 89	The Y position of mask.
Width	**Full HD Multiple Streams series:** 8 **Full HD IP PTZ:** 8 **Full HD WDR IP Camera:** 16	**Full HD Multiple Streams series:** 1/3" YOI lens: 0 … 80 2M Model: 0 … 120 3M Model: 0 … 128 5M Model: 0 … 162 **Full HD IP PTZ:** 1… 80 **Full HD WDR IP Camera:** IMX139, ICX692: 0 … 160 IMX140:	The width of mask.

		0 ... 240	
Height	**Full HD Multiple Streams series:** 5 **Full HD IP PTZ:** 5 **Full HD WDR IP Camera:** 10	**Full HD Multiple Streams series:** 1/3" YOI lens: 0 ... 64 2M Model: 0 ... 67 3M Model: 0 ... 96 5M Model: 0 ... 121 **Full HD IP PTZ:** 1…60 **Full HD WDR IP Camera:** IMX139: 0 ... 128 IMX140: 0 ... 140 ICX692: 0 ... 90	The height of mask.

* Note: the # is replaced with a group number starting from 0 to 4 for Full HD Multiple Streams series,

0 to 15 for Full HD Multiple Streams Series Camera and Full HD IP PTZ;

2.2.5 Image.I0.RateControl

Description: Parameters to control the bit rate (bandwidth) from the server.

Configuration file: /etc/sysconfig/image_ratecontrol.conf

[Image.I0.RateControl]

Parameter name	Default value	Valid values	Description
H264Mode	cbr	vbr, cbr	Specifies whether the 1st H.264 streaming rate controller operates in Variable Bit Rate (VBR) or constant bit rate (CBR) mode.
H264_2Mode	cbr	vbr, cbr	Specifies whether the 2nd H.264 streaming rate controller operates in Variable Bit Rate (VBR) or constant bit rate (CBR) mode.
H264_3Mode	cbr	vbr, cbr	Specifies whether the 3rd H.264 streaming rate controller operates in Variable Bit Rate (VBR) or constant bit rate (CBR) mode.
H264_4Mode	cbr	vbr, cbr	Specifies whether the 4th H.264 streaming rate controller operates in Variable Bit Rate (VBR) or constant bit rate (CBR) mode.
MaxFPS	30	**Full HD Multiple Streams series:** 30 **Full HD IP PTZ:** 30 **Full HD WDR IP Camera:** IMX139/140: 60 ICX692:	The rate controller will not produce streams with a frame rate higher than this value. This parameter is read only. **Note :** These parameters Image.I#.RateControl.H264Mode, Image.I#.RateControl.H264_2Mode, Image.I#.RateControl.H264_3Mode,

		30	Image.I#.RateControl.H264_4Mode must be set to cbr for this parameter to take effect.
MinFPS	1	1	The rate controller will try not to produce streams with a frame rate lower than this value. This parameter is read only.

2.2.6 Image.I0.Text

Description: Image text overlay parameters for each image configuration.

Configuration file: /etc/sysconfig/image_text.conf

[Image.I0.Text]

Parameter name	Default value	Valid values	Description
DateEnabled	no	yes, no	Shows the date at the Position in the image.
ClockEnabled	no	yes, no	Shows the time at the Position in the image.
TextEnabled	no	yes, no	Shows the String at the Position in the image.
String		A string	The text to show at the Position in the image.
Color	**Full HD WDR IP Camera:** black	**Full HD WDR IP Camera:** black, white, red, transparent	Text color.
BGColor	**Full HD WDR IP Camera:** transparent	**Full HD WDR IP Camera:** black,	Text background color.

		white, red, transparent	

2.2.7 ImageSource.I0.Sensor

Description: Parameters for each CCD/CMOS image source. This parameter group is product dependent and only available in network cameras. Check the product specification for supported parameters, default values and valid values.

Configuration file: /etc/sysconfig/image_source.conf

[ImageSource.I0.Sensor]

Parameter name	Default value	Valid values	Description
Exposure	**Full HD Multiple Streams series:** auto **Full HD IP PTZ:** Piris9 **Full HD WDR IP Camera:** auto (The TV system mode is non-shutter WDR) multipleshutter (The TV system mode is shutter WDR)	**Full HD Multiple Streams series:** NTSC: auto, autoiris, shutterpriority(1_30, 1_60, 1_90, 1_100, 1_120, 1_180, 1_250, 1_350, 1_500) fixedshutter(10000, 5000, 2500, 1250, 667, 333, 167, 111, 100, 83, 56, 40, 28, 20, 14, 10, 5, 3, 1) PAL: auto, autoiris, shutterpriority(1_25, 1_50, 1_75, 1_100, 1_120, 1_150, 1_215, 1_300, 1_425) fixedshutter(6666,	The image exposure **Full HD Multiple Streams series:** NTSC: fixedshutter <10000>: 1 sec., <5000>: 1/2 sec., <2500>: 1/4 sec., <1250>: 1/8 sec., <667>: 1/15 sec., <333>: 1/30 sec., <167>: 1/60 sec., <111>: 1/90 sec., <83>: 1/120 sec., <56>: 1/180 sec., <40>: 1/250 sec., <28>: 1/350 sec., <20>: 1/500 sec., <14>: 1/725 sec., <10>: 1/1000 sec., <5>: 1/2000 sec.,

		3333, 1666, 833, 400, 200, 133, 100, 83, 66, 46, 33, 23, 16, 8, 4, 2, 1)	<3>: 1/3000 sec., <1>: 1/10000 sec.
			PAL: fixedshutter
		Full HD IP PTZ: auto, shutterpriority5 … 21, irispriority1 … 17, piris7 … 11, manualpreset	<6666>: 1/1.5 sec., <3333>: 1/3 sec., <1666>: 1/6 sec., <833>: 1/12 sec., <400>: 1/25 sec., <200>: 1/50 sec., <133>: 1/75 sec., <100>: 1/100 sec.,
		Full HD WDR IP Camera:	<83>: 1/120 sec., <66>: 1/150 sec.,
		(The TV system mode is non-shutter WDR) NTSC: auto, autoiris, shutterpriority(1_30, 1_60, 1_90, 1_100, 1_125, 1_180, 1_250, 1_350, 1_500) flickerless, manual PAL: auto, autoiris, shutterpriority(1_25, 1_50, 1_75, 1_100, 1_120, 1_150, 1_215, 1_300, 1_425) flickerless, manual (The TV system mode is shutter WDR) multipleshutter	<46>: 1/215 sec., <33>: 1/300 sec., <23>: 1/425 sec., <16>: 1/600 sec., <8>: 1/1250 sec., <4>: 1/2500 sec., <2>: 1/3500 sec., <1>: 1/10000 sec. **Full HD IP PTZ:** NTSC: shutterpriority <21>: 1/10000 sec., <20>: 1/6000 sec., <19>: 1/4000 sec., <18>: 1/3000 sec., <17>: 1/2000 sec., <16>: 1/1500 sec., <15>: 1/1000 sec., <14>: 1/725 sec., <13>: 1/500 sec., <12>: 1/350 sec., <11>: 1/250 sec., <10>: 1/180 sec., <9>: 1/125 sec., <8>: 1/100 sec., <7>: 1/90 sec.,

			<6>: 1/60 sec., <5>: 1/30 sec. PAL: shutterpriority <21>: 1/10000 sec., <20>: 1/6000 sec., <19>: 1/3500 sec., <18>: 1/2500 sec., <17>: 1/1750 sec., <16>: 1/1250 sec., <15>: 1/1000 sec., <14>: 1/600 sec., <13>: 1/425 sec., <12>: 1/300 sec., <11>: 1/215 sec., <10>: 1/150 sec., <9>: 1/120 sec., <8>: 1/100 sec., <7>: 1/75 sec., <6>: 1/50 sec., <5>: 1/25 sec.
Exposure.MinShutterSpeed	**Full HD Multiple Streams series:** 8 **Full HD IP PTZ:** 5 **Full HD WDR IP Camera:** 8	**Full HD Multiple Streams series:** NTSC: 1_500, 1_350, 1_250, 1_180, 1_120, 1_100, 1_90, 1_60, 1_50, 1, 2, 4, 8, 15, 30 PAL: 1_425, 1_300, 1_215, 1_150, 1_120, 1_100, 1_75, 1_50,1, 2, 4, 8, 25 **Full HD IP PTZ:** 0 … 5 **Full HD WDR IP Camera:**	The image max shutter speed. **Full HD Multiple Streams series:** NTSC: <1>: 1/30 sec., <2>: 1/15 sec., <4>: 1/8 sec., <8>: 1/4 sec., <15>: 1/2 sec., <30>: 1 sec. PAL: <1>: 1/25 sec., <2>: 1/12 sec., <4>: 1/6 sec., <8>: 1/3 sec., <25>: 1/1.5 sec.,

		NTSC: 1_500, 1_350, 1_250, 1_180, 1_125, 1_100, 1_90, 1_60, 1, 2, 4, 8, 15, 30 PAL: 1_425, 1_300, 1_215, 1_150, 1_120, 1_100, 1_75, 1_50,1, 2, 4, 8, 25	**Full HD IP PTZ:** NTSC: <5>: Off, <4>: 1/15 sec., <3>: 1/8 sec., <2>: 1/4 sec., <1>: 1/2 sec., <0>: 1 sec. PAL: <5>: Off, <5>: 1/12 sec., <3>: 1/6 sec., <2>: 1/3 sec., <1>: 1/1.5 sec., <0>: 1 sec., **Full HD WDR IP Camera:** NTSC: <1>: 1/30 sec., <2>: 1/15 sec., <4>: 1/8 sec., <8>: 1/4 sec., <15>: 1/2 sec., <30>: 1 sec. PAL: <1>: 1/25 sec., <2>: 1/12 sec., <4>: 1/6 sec., <8>: 1/3 sec., <25>: 1/1.5 sec.,
Exposure.MaxShutterGain	**Full HD IP PTZ:** 8 **Full HD WDR IP Camera:** 80	**Full HD IP PTZ:** 0 … 19 **Full HD WDR IP Camera:** 0 … 240	

Exposure.Multipleshutter.Mode	**Full HD WDR IP Camera:** wdrfirst	**Full HD WDR IP Camera:** wdrfirst, normal	multipleshtter mode
Exposure.Manual.Shutter	**Full HD WDR IP Camera:** 56	**Full HD WDR IP Camera:** NTSC:1,2,3,5,6,10,14,20,28,40,56,80,100,111,166,333,667,1250,2500,5000,10000 PAL:1,2,4,5,8,10,16,23,33,46,66,83,100,133,200,400,833,1666,3333,5000,10000	**Full HD WDR IP Camera:** NTSC: <1>: 1/10000 sec., <2>: 1/4000 sec., <3>: 1/3000 sec., <5>: 1/2000 sec., <6>: 1/1500 sec., <10>: 1/1000 sec., <14>: 1/725 sec., <20>: 1/500 sec., <28>: 1/350 sec., <40>: 1/250 sec., <56>: 1/180 sec., <80>: 1/125 sec., <100>: 1/100 sec., <111>: 1/90 sec., <166>: 1/60 sec., <333>: 1/30 sec., <667>: 1/15 sec., <1250>: 1/8 sec., <2500>: 1/4 sec., <5000>: 1/2 sec., <10000>: 1 sec., PAL: <1>: 1/10000 sec., <2>: 1/3500 sec., <4>: 1/2500 sec., <5>: 1/1750 sec., <8>: 1/1250 sec., <10>: 1/1000 sec., <16>: 1/600 sec., <23>: 1/425 sec.,

			<33>: 1/300 sec., <46>: 1/215 sec., <66>: 1/150 sec., <83>: 1/120 sec., <100>: 1/100 sec., <133>: 1/75 sec., <200>: 1/50 sec., <400>: 1/25 sec., <833>: 1/12 sec., <1666>: 1/6 sec., <3333>: 1/3 sec., <5000>: 1/2 sec., <10000>: 1 sec.,
Exposure.Manual.Gain	**Full HD WDR IP Camera:** 0	**Full HD WDR IP Camera:** 0 … 240	
Exposure.ManualPreset.Sh utter	**Full HD IP PTZ:** 6	**Full HD IP PTZ:** 5 … 21	
Exposure.ManualPreset.AG CGain	**Full HD IP PTZ:** 6	**Full HD IP PTZ:** 1 … 17	
Exposure.ManualPreset.Iris	**Full HD IP PTZ:** 6	**Full HD IP PTZ:** 1 … 15	
WhiteBalance	auto	auto, fixed_indoor, fixed_outdoor, ATW, manual	The image white balance.
WhiteBalance.Rgain	**Full HD Multiple Streams series:** 57	**Full HD Multiple Streams series:** 0 … 127	Rgain value when whitebalance mode is manual, only available

	Full HD IP PTZ: 57 **Full HD WDR IP Camera:** 239	**Full HD IP PTZ:** 0 ... 255 **Full HD WDR IP Camera:** 0 ... 255	in IP PTZ.
WhiteBalance.Bgain	**Full HD Multiple Streams series:** 54 **Full HD IP PTZ:** 54 **Full HD WDR IP Camera:** 239	**Full HD Multiple Streams series:** 0 ... 127 **Full HD IP PTZ:** 0 ... 255 **Full HD WDR IP Camera:** 0 ... 255	Bgain value when whitebalance mode is manual, only available in IP PTZ.
Backlight	off	on, off	Enable/Disable Backlight Compensation.
Brightness	**Full HD Multiple Streams series:** 128 **Full HD WDR IP Camera:** 0	**Full HD Multiple Streams series::** 0 ... 255 **Full HD WDR IP Camera:** 0 ... 255	The image brightness.
Sharpness	**Full HD Multiple Streams series:** 4 **Full HD IP PTZ:** 6 **Full HD WDR IP Camera:** 150	**Full HD Multiple Streams series:** 0 ... 15 **Full HD IP PTZ:** 1 ... 15 **Full HD WDR IP Camera:** 0 ... 255	The image sharpness.
Contrast	**Full HD Multiple Streams series:**	**Full HD Multiple Streams series:**	The image contrast.

	64 **Full HD WDR IP Camera:** 128	0 ... 255 **Full HD WDR IP Camera:** 0 ... 255	
ColorLevel	**Full HD Multiple Streams series:** 64 **Full HD WDR IP Camera:** 128	**Full HD Multiple Streams series:** 0 ... 255 **Full HD WDR IP Camera:** 0 ... 255	
Hue	**Full HD Multiple Streams series:** 128 **Full HD WDR IP Camera:** 0	**Full HD Multiple Streams series:** 0 ... 255 **Full HD WDR IP Camera:** 0 ... 128	
Digitalzoom	**Full HD Multiple Streams series** 1 **Full HD IP PTZ:** off **Full HD WDR IP Camera:** 1	**Full HD Multiple Streams series** off, 2 ... 8 **Full HD IP PTZ:** on,off **Full HD WDR IP Camera:** off, 2 ... 16	The image digital zoom Note : Full HD IP PTZ: 1) Only the first stream has digital zoom function. 2) Digital zoom is only available under resolution combinations listed in Appendix A.
Expcomp	**Full HD IP PTZ:** 8	**Full HD IP PTZ:** 1 ... 15	Exposure compensation
Flip	**Full HD IP PTZ:** off	**Full HD IP PTZ:** off ME image	

Wdr	**Full HD Multiple Streams series:** off **Full HD IP PTZ:** off **Full HD WDR IP Camera:** off	**Full HD Multiple Streams series:** off, 1 … 3 **Full HD IP PTZ:** off, on **Full HD WDR IP Camera:** off, on	Enable/Disable WDR function. (Gamma WDR function is only supported in non-shutter WDR mode.)
NoiseReduction	**Full HD Multiple Streams series:** spq **Full HD IP PTZ:** off **Full HD WDR IP Camera:** off	**Full HD Multiple Streams series:** off, low, middle, high, spq, spq,3dnrlow, spq,3dnrmiddle, spq,3dnrhigh **Full HD IP PTZ:** off, on **Full HD WDR IP Camera:** off,low,middle,high	Enable/Disable Noise Reduction function. <spq> stands for "smart picture quality". SPQ function drastically minimums motion blur and provides clear images
2DNR	**Full HD IP PTZ:** off **Full HD WDR IP Camera:** off	**Full HD IP PTZ:** on, off **Full HD WDR IP Camera:** off, low, middle, high	Enable/Disable 2D Noise Reduction function.

SpeedByZoom	**Full HD IP PTZ:** off	**Full HD IP PTZ:** on, off	
AutoCalibration	**Full HD IP PTZ:** off	**Full HD IP PTZ:** on, off	
DIS	off	on, off	Digital image stabilization

2.2.8 ImageSource.I0.Video

Description: Parameters for each video image source. This parameter group is product dependent.

Check the product specification for supported parameters, default values and valid values.

Configuration file: /etc/sysconfig/image_source.conf

[ImageSource.I0.Video]

Parameter name	Default value	Valid values	Description
DetectedType	ntsc	ntsc, pal	Which type of TV system is used. (Read only) Note: The value is product dependent

2.2.9 Image.I0.ROI.InputWindows.S#

Description: Enable ROI function and set ROI region.

Configuration file: /etc/sysconfig/image_roi.conf

[Image.I0.ROI.InputWindows.S#]*

Parameter name	Default value	Valid values	Description

Enabled	no	yes no	

Pos	0_0_0_0	X_Y_W_H
		2M Models (Fig. 1):
		    X: 0~480
		    Y: 0~270
		    W: 88~480
		    H: 60~270(NTSC)
		      72~270(PAL)
		3M Models (Fig. 2):
		    X: 0~512
		    Y: 0~384
		    W: 88~512
		    H: 60~384(NTSC)
		      72~384(PAL)
		5M Models (Fig. 3):
		    X: 0~648
		    Y: 0~486
		    W: 88~648
		    H: 60~486(NTSC)
		      72~486(PAL)
			1. ROI only supports when the streaming is set to Triple stream or Quad stream.
			2. Only "stream 4" ROI can be enabled when the resolution is 3M or 5M.
			3. For 3M and 5M models, the region will be smaller (R1→R2) when the resolution is changed from larger to smaller (5M→2M) and the original region is not 100% in the new resolution area. (Fig 1)
			4. The diminished region will not be back when the resolution changed back to larger one.

* Note: **the # is replaced with a group number starting from 1 to 3 for Full HD Multiple Streams IP Camera.**
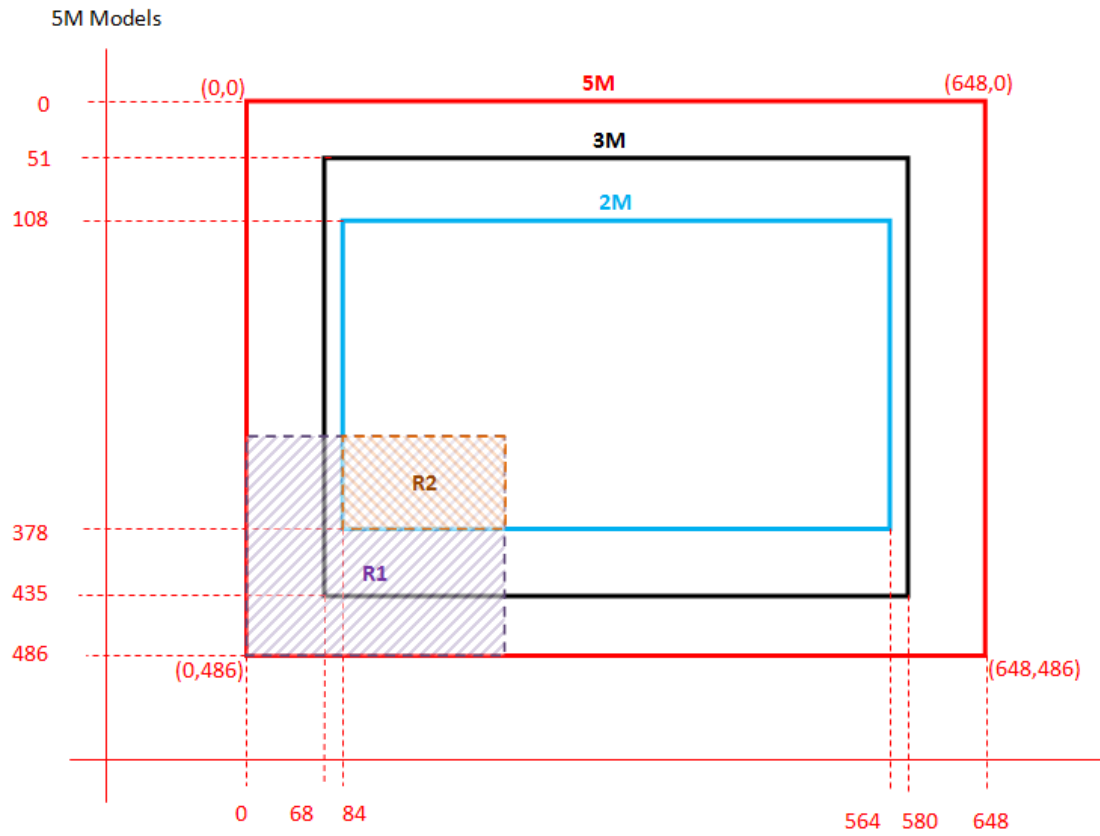
Fig.1
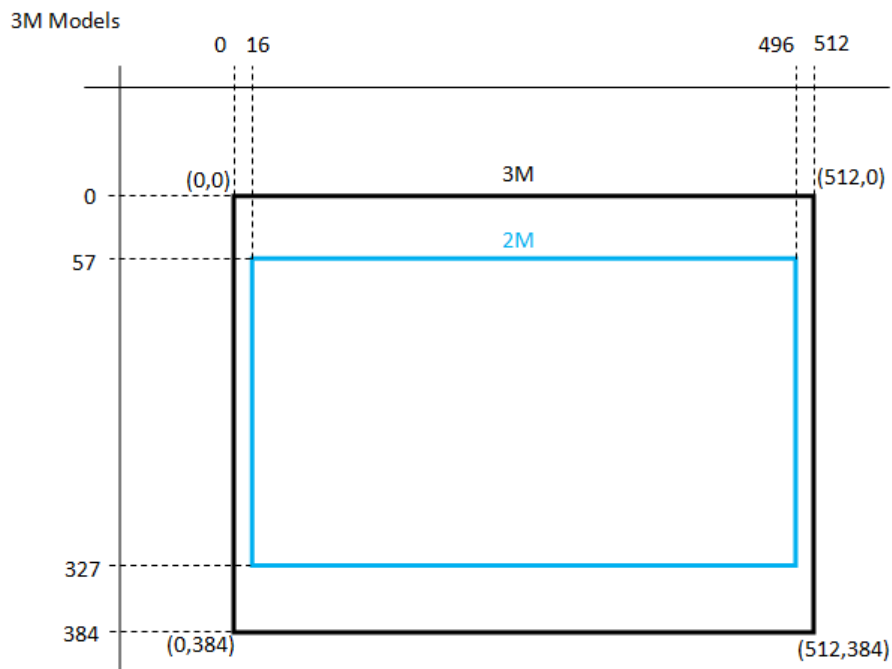
Fig. 2

2M Models
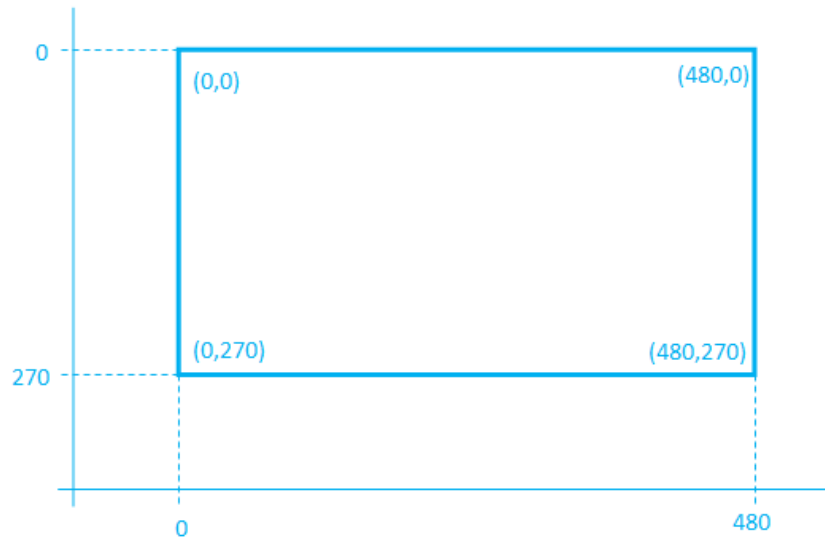
Fig. 3

2.3 I/O

2.3.1 Input

Description: Parameters for hardware input(s).

Configuration file: /etc/sysconfig/inputs.conf

[Input]

Parameter name	Default value	Valid values	Description
NbrOfInputs	Hardware specific	An unsigned integer (Read only)	Number of inputs. Read only.

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2.3.2 Input.I#

Description: Parameters for hardware input(s).

Configuration file: /etc/sysconfig/inputs.conf

[Input.I#]*

Parameter name	Default value	Valid values	Description
Name	**Full HD Multiple Streams series:** Input 1 **Full HD IP PTZ:** Input 1 Input 2 Input 3 Input 4 **Full HD WDR IP Camera:** Input 1	A string	The name of the input. This parameter is read only.
Trig	closed	open, closed	Determines when to trigger.

* **Note:** The # is replaced with a group number starting from 0, e.g. Input.I0.

2.3.3 Output

Description: Parameters for hardware output(s).

Configuration file: /etc/sysconfig/outputs.conf

[Output]

Parameter name	Default value	Valid values	Description
NbrOfOutputs	Hardware specific	An unsigned integer (Read only)	Number of outputs.

2.3.4 Output.O#

Description: Parameters for hardware output(s).

Configuration file: /etc/sysconfig/outputs.conf

[Output.O#]

Parameter name	Default value	Valid values	Description
Name	**Full HD Multiple Streams series:** Output 1 **Full HD IP PTZ:** Output 1 Output 2 **Full HD WDR IP Camera:** Output 1	A string	The name of the output. Read only
Active	open	**Full HD Multiple Streams series:** open, closed **Full HD IP PTZ:** open **Full HD WDR IP Camera:** open, closed	The active state of the output. **Full HD IP PTZ:** open(Read only)

2.4 Events

2.4.1 Event.E#

Description: This group defines an event, which is a set of parameters describing how and when the product performs certain actions.

Configuration file: /etc/sysconfig/event.conf

[Event.E#] *

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no scheduled	1) Event enabled (disabled events are never triggered). 2) Enable event [0-6, 10-12] by schedule.
Schedule		S0-S9	1) S0 refers to schedule 1, S1 refers to schedule 2 and so on. 2) Only available for event [0-6, 10-12]
FileName	image.jpg	A string	Base filename for uploaded image files.
Suffix	0	0-3	Suffix to base name for uploaded image files.
MaxSequenceNumber	0	0 … 9999999	The maximum value of when using a sequence number as file suffix. At this value the counter will wrap to 0.

* Note: the # is replaced with a group number, e.g. 0 means triggered by digital input, 1 means triggered by motion detection, 2 Enabled means triggered by tampering activity, 3,4 &5 means triggered by digital input for IP PTZ, 6 means triggered by Network Failure Detection. 9 means periodical event 10-12 means motion 1-3.

2.4.2 Event HW Actions

Description: This group defines an action that controls a digital output.

Configuration file: /etc/sysconfig/event.conf

[Event.E#.Actions.A0] *

Parameter name	Default value	Valid values	Description
Enabled	yes	yes, no	Enable/disable the HW output
Type	N	N	Type of action. N = Notification.
Protocol	HW	HW	Protocol.
Output	1	1	Output number to activate.

[Event.E#.Actions.A9] *

Parameter name	Default value	Valid values	Description
Enabled	yes	yes, no	Enable/disable the HW output
Type	N	N	Type of action. N = Notification.
Protocol	HW	HW	Protocol.
Output	2	2	Output number to activate.

* Note: Event.E#.Actions.A9 is only for Full HD IP PTZ. the # is replaced with a group number, e.g. 0 means triggered by digital input, 1 means triggered by motion detection, 2 Enabled means triggered by tampering activity, 3,4 &5 means triggered by digital input for IP PTZ, 6 means triggered by Network Failure Detection.

2.4.3 Event FTP Actions

Description: This group defines an action that uploads message files to an FTP server.

Configuration file: /etc/sysconfig /event.conf

[Event.E#.Actions.A1] *

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable the ftp notification
Type	N	N	Type of action. N = Notification. This parameter is read only.
Protocol	FTP	FTP	Protocol. This parameter is read only.
Server	F0	F0 ... Fn (n = number of FTP event servers - 1)	Primary FTP server ID. Refers to a parameter group under root.EventServers.FTP. Example: "F0" refers to the parameter group root.EventServers.FTP.F0.
Server2	F1	F0 ... Fn (n = number of FTP event servers - 1)	Secondary FTP server ID.

* Note: the # is replaced with a group number, e.g. 0 means triggered by digital input, 1 means triggered by motion detection, 2 Enabled means triggered by tampering activity, 3, 4 &5 means triggered by digital input for IP PTZ, 6 means triggered by Network Failure Detection.

2.4.4 Event SMTP Actions

Description: This group defines an action that sends message mail to a mail server.

Configuration file: /etc/sysconfig/event.conf

[Event.E#.Actions.A2] *

Parameter name	Default value	Valid values	Description
Enabled	no	yes,	Enable/disable the smtp

		no	notification
Type	N	N,	Type of action. N = Notification.
Protocol	SMTP	SMTP	Protocol.
EmailTo	E0	E0, E1	Refers to SMTP.MailServer1.EmailTo Primary SMTP consignee. Refers to a parameter group under root.SMTP. The parameter is read only. Example: "E0" refers to the parameter group root.SMTP.MailServer1.EmailTo
EmailTo2	E1	E0, E1	Refers to SMTP.MailServer1.EmailTo Primary SMTP consignee. Refers to a parameter group under root.SMTP Example: "E0" refers to the parameter group root.SMTP.MailServer1.EmailTo

* Note: the # is replaced with a group number, e.g. 0 means triggered by digital input, 1 means triggered by motion detection, 2 Enabled means triggered by tampering activity, 3,4 &5 means triggered by digital input for IP PTZ, 6 means triggered by Network Failure Detection.

2.4.5 Event Upload Image by FTP Actions

Description: This group defines an action that uploads image files to an FTP server.

Configuration file: /etc/sysconfig/event.conf

[Event.E#.Actions.A3] *

Parameter name	Default value	Valid values	Description

Enabled	no	yes, no	Enable/disable the ftp notification
Type	U	U	Type of action. U = Upload.
Protocol	FTP	FTP	Protocol. This parameter is read only.
Server	F0	F0 ... Fn (n = number of FTP event servers - 1)	Primary FTP server ID. Refers to a parameter group under root.EventServers.FTP. Example: "F0" refers to the parameter group root.EventServers.FTP.F0.
PreFrame	5	1 ... 20	Number of pre-trigger frames.
PostFrame	5	1 ... 20	Number of post-trigger frames.
IncludeBestEffort	no	yes, no	Use best effort duration (continue image upload)
BestEffortDuration	0	0 ... 99999	Best effort duration (in number of seconds). If IncludeBestEffort = yes and BestEffortDuration = 0, the duration will be as long as the event is triggered.
BestEffortInterval	0	0 ... 15	Image frequency during best effort.

* Note: the # is replaced with a group number, 0 means triggered by digital input, 1 means triggered by motion detection input. 2 means triggered by tampering alarm input. e.g. Event.E0.Actions.A3.

2.4.6 Event Upload Image by SMTP Actions

Description: This group defines an action that uploads image files to an SMTP server

Configuration file: /etc/sysconfig /event.conf

[Event.E#.Actions.A4] *

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable upload image by SMTP
Type	U	U	Type of action. U = Upload.
Protocol	SMTP	SMTP	Protocol. This parameter is read only.
EmailTo	E0	E0, E1	Primary SMTP server ID. Refers to a parameter group under root.SMTP.MailServer# Example: "E0" refers to the parameter group root. SMTP.MailServer1
PreFrame	5	1 … 20	Number of pre-trigger frames.
PostFrame	5	1 … 20	Number of post-trigger frames.
IncludeBestEffort	no	yes, no	Use best effort duration (continue image upload)
BestEffortDuration	0	0 … 99999	Best effort duration (in number of seconds). If IncludeBestEffort = yes and BestEffortDuration = 0, the duration will be as long as the event is triggered.
BestEffortInterval	0	0 … 15	Image frequency during best effort.

* Note: the # is replaced with a group number, 0 means triggered by digital input, 1 means triggered by motion detection input. 2 means triggered by tampering alarm input .e.g. Event.E0.Actions.A4.

2.4.7 Event activated function (PTZ Camera exclusive)

Description: This group defines an action that proceed PTZ function like

Preset/Autopan/Sequence/Cruise.

Configuration file: /etc/sysconfig /event.conf

[Event.E#.Actions.A5] *

Parameter name	Default value	Valid values	Description
Enabled	no	**Full HD IP PTZ:** yes, no	Enable/disable upload image
Function	**Full HD IP PTZ:** 1	**Full HD IP PTZ:** 1 … 4	1: preset 2: sequence 3: autopan 4: cruise
FunctionLine		**Full HD IP PTZ:** An unsigned integer	Depends on PTZ function
DwellTime	**Full HD IP PTZ:** 0	**Full HD IP PTZ:** 0 … 127	Only for preset function. The dwell time from start point to end point.

* Note: the # is replaced with a group number, 0 means triggered by digital input, 1 means triggered by

motion detection input. 2 means triggered by tampering alarm input .e.g. Event.E0.Actions.A5.

2.4.8 Event recording function

Description: This group defines an action that proceed recording function when event occurs.

Configuration file: /etc/sysconfig /event.conf

[Event.E#.Actions.A6] *

Parameter name	Default value	Valid values	Description

Enabled	no	yes, no	Enable/disable event recording function
Type	R	R	Type of action. R = Recording This parameter is read only
Protocol	RECORD	RECORD	Protocol of action. This parameter is read only
PreTime	1	1 … 3	Number of pre-trigger time (in seconds).
BestEffortDuration	0	0 … 99999	Time interval between frames during best effort (in milliseconds).

* Note: the # is replaced with a group number, e.g. 0 means triggered by digital input, 1 means triggered by motion detection, 2 Enabled means triggered by tampering activity, 3,4 &5 means triggered by digital input for IP PTZ, 6 means triggered by Network Failure Detection.

[Event.E#.Actions.A7] *

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable IR cut filter remove
Type	I	I	Type of action. N = This parameter is read only
Protocol	HW		 This parameter is read only

* Note: the # is replaced with a group number, 0 means triggered by digital input, 1 means triggered by motion detection input. e.g. Event.E0.Actions.A7.

2.4.9 Event HTTP notification function

Description: This group defines an action that sends notifications to an HTTP server.

Configuration file: /etc/sysconfig /event.conf

[Event.E#.Actions.A8] *

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable HTTP notification function
Type	N	N	Type of action. N = HTTP Notification This parameter is read only
Protocol	HTTP	HTTP	Protocol of action. This parameter is read only
Server	H0	H0, H1	HTTP server ID. Refers to a parameter group under root.EventServers.HTTP. Example: "H0" refers to the parameter group root.EventServers.HTTP.H0.
CustomParams		A string	Custom parameters to add to URL. Example: "foo=bar". Spaces are not allowed in this field and all text must be URI-encoded (RFC2396). Example: to set the CGI parameter 'example' to 'Y & Z' enter example=Y+%26+Z in this field.

* The parameters mentioned above are currently available for Full HD Multiple Streams Series Camera and Full HD IP PTZ.

2.5 Event servers

2.5.1 EventServers.FTP.F#

Description: This group defines an FTP server that can be used by an event to upload files to.

Configuration file: /etc/sysconfig/eventservers.conf

[EventServers.FTP.F#] *

Parameter name	Default value	Valid values	Description
Address		An IP address or a host name	IP address or host name of the server
Login		A string	FTP user name
Password		A string	FTP password.
UploadPath		A string	Directory where uploaded files go.
Port	21	0 ... 65535	FTP port.
Passive	no	yes, no	Use passive FTP.

* Note: the # is replaced with a group number starting from 0 to 1, e.g. EventServers.FTP.F0.

2.5.2 EventServers.HTTP.H#

Description: This group defines an HTTP server that can be used by an event to send notification messages to.

Configuration file: /etc/sysconfig/eventservers.conf

[EventServers.HTTP.H#] *

Parameter name	Default value	Valid values	Description
Address		An IP address or a	URL to the server, including

		host name	name of CGI script to handle the request. Example: "http://192.168.254.10/cgi-bin/ upload.cgi".
Login		A string	HTTP user name
Password		A string	HTTP password.

Note: the # is replaced with a group number starting from 0 to 1, e.g. EventServers.HTTP.H0.

*The parameters mentioned above are currently available for Full HD Multiple Streams Series Camera, Full HD IP PTZ and Full HD WDR IP Camera.

2.6 Time

2.6.1 Time

Description: Common time information which tell the time zone, how date and time is synchronized.

Configuration file: /etc/sysconfig/systime.conf

[Time]

Parameter name	Default value	Valid values	Description
SyncSource	None	PC, NTP, None	The source to synchronize the time with; PC, NTP or None (manually).
TimeZone	GMT	GMT-12, ... GMT-1, GMT, GMT+1, ... GMT+12	Time zone.

2.6.2 Time.NTP

Description: Contain parameters required when setting time and date with the NTP protocol.

Configuration file: /etc/sysconfig/time_handler.conf

[Time.NTP]

Parameter name	Default value	Valid values	Description
Server	0.0.0.0	An IP address or a host name	The NTP server to connect to when synchronizing the time in the IP Camera
Update	hour	hour, day, week	Time interval between connections to the NTP server.

2.6.3 Time.DST

Description: Contain parameters required to manage Daylight Saving Time, DST.

Configuration file: /etc/sysconfig/time_handler.conf

[Time.DST]

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable DST (Daylight Saving Time)
Offset	01:00:00	00:00:00 … 23:59:59	The amount of time the clock should be turned back/forward (hh:mm:ss), due to DST.
StartDay	1	1 … 31, or 0 … 6	The meaning of StartDay depends on StartTypeOfDate. If StartTypeOfDate is 0 (exact date), the StartDay should be interpreted as the day of the

			month. Otherwise StartDay indicates the day of a week, e.g. 0=Sunday, 1=Monday, etc.
StartMonth	0	0 … 11	The number of months since January in the range 0 to 11.
StartTime	00:00:00	A time	Indicates the time (hh:mm:ss) when DST should be enabled. StartTime = 02:00:00 means that DST should be enabled two hours after midnight.
StartTypeOfDate	0	-1, 0, 1, 2, 3, 4	DST can be set as either start from an exact date or from a specific weekday of a month. StartTypeOfDate determines how to interpret StartDay. If 0, then StartDay is an exact date, otherwise it is a day of a week. 0 = StartDay is the exact date as specified (1-31). -1 = The weekday specified in StartDay is the last one of the month. 1: The weekday specified in StartDay is the first one of the month. 2: The weekday specified in StartDay is the second one of the month. 3: The weekday specified in StartDay is the third one of the month. 4: The weekday specified by StartDay is the fourth one of the month. Example1:

			StartTypeOfDate = 0
			StartDay = 12
			The 12th of the month
			Example2:
			StartTypeOfDate = -1
			StartDay = 0
			The last Sunday of the month
			Example 3:
			StartTypeOfDate = 1
			StartDay = 5
			The first Friday of the month
StopDay	1	1 … 31, or 0 … 6	The meaning of StopDay depends on StopTypeOfDate. If StopTypeOfDate is 0 (exact date) then StopDay should be interpreted as the day of the month. Otherwise StopDay indicates the number of days since Sunday in the range 0 to 6.
StopMonth	0	0 … 11	The number of months since January in the range 0 to 11.
StopTime	00:00:00	A time	Indicates the time (hh:mm:ss) when DST should be disabled. StopTime = 02:00:00 means that DST should be disabled two hours after midnight.
StopTypeOfDate	0	-1, 0, 1, 2, 3, 4	DST can be set as either end on an exact date, or a specific weekday of the month. See the description of StartTypeOfDate above for further details.

2.7 Properties

Description: Contains information about the firmware and system of the product. It also contains information about product dependent functionality and functionality that have no ordinary parameters. All user levels should be able to access the property parameters.

Note: The Properties parameters are product dependent. If a parameter does not exist, the functionality is not supported.

2.7.1 Properties.API

Configuration file: /etc/sysconfig/properties.conf

[Properties.API.HTTP]

Parameter name	Default value	Valid values	Description
Version		An unsigned integer	The supported HTTP API version (only the first digit).

2.7.2 Properties.Audio

Configuration file: /etc/sysconfig/properties.conf

[Properties.Audio]

Parameter name	Default value	Valid values	Description
Audio		yes, no	The product has audio support.
Format	g711,g726	A string	The supported formats separated by commas, e.g. g711,g726.

2.7.3 Properties.Firmware

Configuration file: /etc/sysconfig/properties.conf

[Properties.Firmware]

Parameter name	Default value	Valid values	Description
BuildNumber		An unsigned integer	The build number for the current firmware in use.
BuildDate		A string	The build date for the current firmware in use.
Version		A string	The firmware version in use.

2.7.4 Properties.Image

Configuration file: /etc/sysconfig/properties.conf

[Properties.Image]

Parameter name	Default value	Valid values	Description
Rotation		A string	The supported image rotations separated by commas. E.g. 0,flip,mirror,rotate. For products not supporting image rotation the value is 0.
Resolution		A string	The supported resolutions separated by commas. E.g. quadvga, vga, qvga, cif, qcif.
Format		A string	The supported image format. E.g. mjpeg

2.7.5 Properties.PTZ

Configuration file: /etc/sysconfig/properties.conf

[Properties.PTZ]

Parameter name	Default value	Valid values	Description
PTZ		P/T/Z cam, P/T cam, Z/F cam, fixed cam	Function type of the product support. Read only.

2.8 PTZ

2.8.1 PTZ.PresetPos

A dynamic parameter group PTZ.PresetPos.P# is created for each new preset position.# merely denotes the number of the dynamic parameter group and has no connection to any preset position numbers mentioned below.

Description: Dynamic parameter groups, each respresenting a preset position

Configuration file: /etc/dynamic/ptz.conf

[PTZ.PresetPos.P#]

Parameter name	Default value	Valid values	Description
Pos		<zoom>,<pan>,<tilt>	Preset position. This parameter is read only.
Label		A string	Preset name. This parameter is read only.

2.8.2 PTZ.Limit

Configuration file: /etc/dynamic/ptz.conf

[PTZ.Limit.L0]

Parameter name	Default value	Valid values	Description
Mintilt	0	-10 … 10	Lower limit for tilt position
Maxtilt	90	80 … 100 If image flip 170… 190	Upper limit for tilt position

2.8.3 PTZ.Home

Configuration file: /etc/dynamic/ptz.conf

[PTZ.Home]

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/ disable the home function
Function	preset	preset sequence autopan cruise	To set the home function.
FunctionNbr	1	1-MaxNbr	MaxNbr= 256 (preset), 8 (sequence), 4 (autopan), 8 (cruise)
DelayTime	1	1-128	The 1-128 refers to minutes. After specified time, the PTZ will go back for predefined home function.

2.9 Autopan(PTZ Camera exclusive)

2.9.1 Autopan.A#

Description: Contain parameters to create PTZ autopan

Configuration file: /etc/ sysconfig /autopan.conf

[Autopan.A#]

Parameter name	Default value	Valid values	Description
State	Idle	setting, Idle	The state of the Autopan function. This parameter is read only.
StartPan		-180 … 180	Start pan position. This parameter is read only.
EndPan		-180 … 180	End pan position. This parameter is read only.
Direction		left, right	Direction of PTZ autopan function. This parameter is read only.
Speed		0 … 3	Speed of PTZ autopan function. This parameter is read only.

* Note: the # is replaced with a group number starting from zero, e.g. Autopan.A0

2.10 Cruise (PTZ Camera exclusive)

2.10.1 Cruise.C#

Description: Contain parameters to create PTZ cruise

Configuration file: /etc/sysconfig/cruise.conf

[Cruise.C#]

Parameter name	Default value	Valid values	Description
State	idle	idle,	Cruise setting state. This

		setting	parameter is read only.

* Note: the # is replaced with a group number starting from zero, e.g. Cruise.C0

2.11 Guard Tour (PTZ Camera exclusive)

2.11.1 GuardTour.G#

Description: Contains parameters to create PTZ guard tours

Configuration file: /etc/dynamic/guardtour.conf

[GuardTour.G#]

Parameter name	Default value	Valid values	Description
Running	no	yes, no	Enable/disable the guardtour

* Note: the # is replaced with a group number starting from zero, e.g. GuardTour.G0

2.11.2 GuardTour.G#.Tour.T#

Description: The PTZ preset positions that are included in the guard tour.

Configuration file: /etc/dynamic/ guardtour.conf

[GuardTour.G#.Tour.T#]

Parameter name	Default value	Valid values	Description
PresetNbr	1	1 … 256	The number of the PTZ preset position.
MoveSpeed	10	0 … 14	The speed at which to move camera to this preset position.
WaitTime	1	0 … 255	The view time for this preset position in seconds.

2.12 Audio

2.12.1 Audio

Description: Common audio parameters used for all audio configurations.

Configuration file: /etc/sysconfig/audio.conf

[Audio]

Parameter name	Default value	Valid values	Description
DuplexMode	disable	full, half, post, get disable	The way audio should be transferred. full = Full duplex - simultaneous two-way audio. Transmit and receive audio at the same time. half = Half duplex - non simultaneous two-way audio. Audio only allowed in one direction at a time.

			post = Simplex. Audio to the server.
			get = Simplex. Audio from the server.
			disable=Disable the Audio function.

2.12.2 AudioSource.A0

Description: Parameters for each audio source (audio input/chip).

Configuration file: /etc/sysconfig/audio_source.conf

[AudioSource.A0]

Parameter name	Default value	Valid values	Description
BitRate	Encoder dependent	ulaw , alaw, 16000, 24000, 32000, 40000	The output bit rate (bits per second) from the encoder. **G711 Standard** ulaw , alaw (64000) **G726 Standard** 16000, 24000, 32000, 40000
InputGain	3	0 … 10	Gain setting level for sound received from client.
OutputGain	3	0 … 6	Gain setting level for sound transmitted to client(s).

2.13 Recording

2.13.1 Recording.R#

Description: Recording parameters used for recording schedule.

Configuration file: /etc/sysconfig/recording.conf

[Recording.R#]

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable recording function
Weekdays	0000000	0000000 … 1111111 (Only 0 or 1 is valid for each digit)	Enable recording on specific weekdays. The maximum significant bit stands for Sunday, and second digit for Monday etc… 0 is disable, and 1 is enable
Starttime	00:00	00:00 … 23:59	Indicates the time (hh:mm) when recording should be enabled. Starttime = 02:00 means that recording should be started two hours after midnight.
Duration	00:00	00:00 … 168:00	Time interval for recording.

* Note: **the # is replaced with a group number starting from 0 to 9 Full HD Multiple Streams Series Camera.**

2.14 DDNS

2.14.1 DDNS

Description: Common DDNS parameters used for all DDNS configurations.

Configuration file: /etc/sysconfig/ddns.conf

[DDNS]

Parameter name	Default value	Valid values	Description
Enabled	no	yes, no	Enable/disable DDNS function
Provider	1	**Full HD Multiple Streams series/ Full HD IP PTZ/ Full HD WDR IP Camera:** 1,2,3,4	The provider list contains four hosts that provide DDNS services. Please connect to the service provider's website to make sure the service charges.
Hostname		A string	Please input the hostname that is registered in the DDNS server.
Login		A string	The username for logging on to the DDNS server
Password		A string	The password for logging on to the DDNS server

2.15 Frame skip

2.15.1 Frame rate (Full HD Multiple Streams Series/Full HD IP PTZ/ Full HD WDR IP Camera exclusive)

Description: Common frame rate parameters used for all frame rate configurations.

Configuration file: /etc/sysconfig/framerate.conf

[Framerate]

Parameter name	Default value	Valid values	Description
Mjpeg	**Full HD Multiple Streams Series & Full HD IP PTZ:** **NTSC (30)** 30 **PAL (25)** 25 **Full HD WDR IP Camera:** **NTSC (30)** 30 **NTSC (60)** 60 **PAL (25)** 25 **PAL (50)** 50	**Full HD Multiple Streams Series & Full HD IP PTZ:** **NTSC (30)** 1 … 30 **PAL (25)** 1 … 25 **Full HD WDR IP Camera:** **NTSC (30):** 1 ,2,3,6,7.5,10,15,30 **NTSC (60):** 1. rate limit=60: 1,2,4,6,12,15,20,30,60 2. rate limit=30: 1,2,4,6,12,15,20,30 3. rate limit=15: 1,3,5,7.5,15 **PAL (25):** 1,5,13,25 **PAL (50):** 1. rate limit=50: 1,2,5,10,25,50 2. rate limit=25: 1,2,5,10,25 3. rate limit=13:	Setting frame rate to desired value. Beware the maximum frame rate of NTSC and PAL TV system are different Note. NTSC (30): TV system=30fps NTSC (60): TV system=60fps PAL (25): TV system=50fps PAL (50): TV system=50fps

		1,5,13	
H264	**Full HD Multiple Streams Series & Full HD IP PTZ:** **NTSC** 30 **PAL** 25 **Full HD WDR IP Camera:** **NTSC (30)** 30 **NTSC (60)** 60 **PAL (25)** 25 **PAL (50)** 50	**Full HD Multiple Streams Series & Full HD IP PTZ:** **NTSC** 1 … 30 **PAL** 1 … 25 **Full HD WDR IP Camera:** **NTSC (30):** 1 ,2,3,6,7.5,10,15,30 **NTSC (60):** 4. rate limit=60: 1,2,4,6,12,15,20,30,60 5. rate limit=30: 1,2,4,6,12,15,20,30 6. rate limit=15: 1,3,5,7.5,15 **PAL (25):** 1,5,13,25 **PAL (50):** 4. rate limit=50: 1,2,5,10,25,50 5. rate limit=25: 1,2,5,10,25 6. rate limit=13: 1,5,13	Setting frame rate to desired value Beware the maximum frame rate of NTSC and PAL TV system are different Note. NTSC (30): TV system=30fps NTSC (60): TV system=60fps PAL (25): TV system=50fps PAL (50): TV system=50fps
H264_2	**Full HD Multiple Streams Series & Full HD IP PTZ:** **NTSC** 30 **PAL** 25 **Full HD WDR IP**	**Full HD Multiple Streams Series & Full HD IP PTZ:** **NTSC** 1 … 30 **PAL** 1 … 25 **Full HD WDR IP**	Setting frame rate to desired value Beware the maximum frame rate of NTSC and PAL TV system are different Note. NTSC (30): TV system=30fps

	Camera: **NTSC (30)** 30 **NTSC (60)** 60 **PAL (25)** 25 **PAL (50)** 50	**Camera:** **NTSC (30):** 1 ,2,3,6,7.5,10,15,30 **NTSC (60):** 7.　rate limit=60: 1,2,4,6,12,15,20,30,60 8.　rate limit=30: 1,2,4,6,12,15,20,30 9.　rate limit=15: 1,3,5,7.5,15 **PAL (25):** 1,5,13,25 **PAL (50):** 7.　rate limit=50: 1,2,5,10,25,50 8.　rate limit=25: 1,2,5,10,25 9.　rate limit=13: 1,5,13	NTSC (60): TV system=60fps PAL (25): TV system=50fps PAL (50): TV system=50fps
H264_3	**Full HD Multiple** **Streams Series &** **Full HD IP PTZ:** **NTSC** 30 **PAL** 25 **Full HD WDR IP** **Camera:** **NTSC (30)** 30 **NTSC (60)** 60 **PAL (25)** 25 **PAL (50)** 50	**Full HD Multiple** **Streams Series & Full** **HD IP PTZ:** **NTSC** 1 … 30 **PAL** 1 … 25 **Full HD WDR IP** **Camera:** **NTSC (30):** 1 ,2,3,6,7.5,10,15,30 **NTSC (60):** 10.　rate limit=60: 1,2,4,6,12,15,20,30,60 11.　rate limit=30: 1,2,4,6,12,15,20,30 12.　rate limit=15: 1,3,5,7.5,15	Setting frame rate to desired value Beware the maximum frame rate of NTSC and PAL TV system are different Note. NTSC (30): TV system=30fps NTSC (60): TV system=60fps PAL (25): TV system=50fps PAL (50): TV system=50fps

		PAL (25): 1,5,13,25 **PAL (50):** 10. rate limit=50: 1,2,5,10,25,50 11. rate limit=25: 1,2,5,10,25 12. rate limit=13: 1,5,13	
H264_4	**Full HD Multiple** **Streams Series &** **Full HD IP PTZ:** **NTSC (30)** 30 **PAL (25)** 25 **Full HD WDR IP** **Camera:** **NTSC (30)** 30 **NTSC (60)** 60 **PAL (25)** 25 **PAL (50)** 50	**Full HD Multiple** **Streams Series & Full** **HD IP PTZ:** **NTSC (30)** 1 … 30 **PAL (25)** 1 … 25 **Full HD WDR IP** **Camera:** **NTSC (30):** 1 ,2,3,6,7.5,10,15,30 **NTSC (60):** 13. rate limit=60: 1,2,4,6,12,15,20,30,60 14. rate limit=30: 1,2,4,6,12,15,20,30 15. rate limit=15: 1,3,5,7.5,15 **PAL (25):** 1,5,13,25 **PAL (50):** 13. rate limit=50: 1,2,5,10,25,50 14. rate limit=25: 1,2,5,10,25 15. rate limit=13: 1,5,13	Setting frame rate to desired value Beware the maximum frame rate of NTSC and PAL TV system are different Note. NTSC (30): TV system=30fps NTSC (60): TV system=60fps PAL (25): TV system=50fps PAL (50): TV system=50fps

2.16 Motion

2.16.1 Motion.M#

Description: The group is for adding/deleting motion detection window.

Configuration file: /etc/sysconfig/motion.conf

[Motion.M#] *

Parameter name	Default value	Valid values	Description
Enabled	**Full HD Multiple Streams series:** yes, when #=0; no, when #=1 to 9 **Full HD IP PTZ:** yes, when #=0; no, when #=1 to 9 **Full HD WDR IP Camera:** yes, when #=0; no, when #=1 to 9	**Full HD Multiple Streams series:** yes, no **Full HD IP PTZ:** yes, no **Full HD WDR IP Camera:** yes, no	Enable/ disable Motion detection window
Left	**Full HD Multiple Streams series:** 5, when #=0,5; 10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9 **Full HD IP PTZ:** 5, when #=0,5; 10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9 **Full HD WDR IP Camera:** 5, when #=0,5;	**Full HD Multiple Streams series:** 0 … 39 **Full HD IP PTZ:** 0 … 39 **Full HD WDR IP Camera:** 0 … 39	Motion detection window left axis

	10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9		
Right	**Full HD Multiple Streams series:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9 **Full HD IP PTZ:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9 **Full HD WDR IP Camera:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9	**Full HD Multiple Streams series:** 0 … 39 **Full HD IP PTZ:** 0 … 39 **Full HD WDR IP Camera:** **0 … 39**	Motion detection window right axis
Top	**Full HD Multiple Streams series:** 6, when #=0 to 4 11, when # =5 to 9 **Full HD IP PTZ:** 6, when #=0 to 4 11, when # =5 to 9 **Full HD WDR IP Camera:** 6, when #=0 to 4 11, when # =5 to 9	**Full HD Multiple Streams series:** 0 … 29 **Full HD IP PTZ:** 0 … 29 **Full HD WDR IP Camera:** 0 … 29	Motion detection window top axis

Bottom	**Full HD Multiple Streams series:** 9, when #=0 to 4 14, when # =5 to 9 **Full HD IP PTZ:** 9, when #=0 to 4 14, when # =5 to 9 **Full HD WDR IP Camera:** 9, when #=0 to 4 14, when # =5 to 9	**Full HD Multiple Streams series:** 0 … 29 **Full HD IP PTZ:** 0 … 29 **Full HD WDR IP Camera:** 0 … 29	Motion detection window bottom axis
Pos		**Full HD Multiple Streams series/ Full HD IP PTZ/ Full HD WDR IP Camera:** val1,val2,val3,val4,val5,val6 val1 = h264 or h264_2 or jpeg val2 = width x height val3 = 0~ (width - 1) val4 = 0~ (width - 1) val5 = 0~ (height - 1) val6 = 0~ (height - 1)	val1：tells which stream is being connected val2：to divide the image into small rectangular grids. Ex:40(grids)x 30(grids) or 40x21 or others val3：to set the left point of the motion window val4：to set the right point of the motion window val5：to set the top point of the motion window val6：to set the bottom point of the motion window

* Note: the # is replaced with a group number starting from 0 to 9, e.g. Motion.M0.

2.16.2 Motion

Description: The group is for the setting of motion detection window.

Configuration file: /etc/sysconfig/motion.conf

[Motion]

Parameter name	Default value	Valid values	Description
SamplingInterval	**Full HD Multiple Streams series:** 1 **Full HD IP PTZ:** 1 **Full HD WDR IP Camera:** 1	**Full HD Multiple Streams series:** 1 … 10 **Full HD IP PTZ:** 1 … 10 **Full HD WDR IP Camera:** 1 … 10	Motion detection sampling pixel interval
DetectionLevel	**Full HD Multiple Streams series:** 10 **Full HD IP PTZ:** 10 **Full HD WDR IP Camera:** 10	**Full HD Multiple Streams series:** 1 … 100 **Full HD IP PTZ:** 1 … 100 **Full HD WDR IP Camera:** 1 … 100	Motion detection level
Sensitivity	**Full HD Multiple Streams series:** 80 **Full HD IP PTZ:** 80 **Full HD WDR IP Camera:** 80	**Full HD Multiple Streams series:** 1 … 100 **Full HD IP PTZ:** 1 … 100 **Full HD WDR IP Camera:** 1 … 100	The sensitivity of detection block
TimeInterval	**Full HD Multiple Streams series:** 10	**Full HD Multiple Streams series:** 0 … 7200	The time interval of detection

	Full HD IP PTZ:	**Full HD IP PTZ:**	
	10	0 … 7200	
	Full HD WDR IP	**Full HD WDR IP**	
	Camera:	**Camera:**	
	10	0 … 7200	

2.16.3 Motion1.M#

Description: The group is for adding/deleting motion detection window.

Configuration file: /etc/sysconfig/motion.conf

[Motion1.M#] *

Parameter name	Default value	Valid values	Description
Enabled	**Full HD Multiple Streams series:** yes, when #=0; no, when #=1 to 9 **Full HD IP PTZ:** yes, when #=0; no, when #=1 to 9 **Full HD WDR IP Camera:** yes, when #=0; no, when #=1 to 9	**Full HD Multiple Streams series:** yes, no **Full HD IP PTZ:** yes, no **Full HD WDR IP Camera:** yes, no	Enable/ disable motion detection window
Left	**Full HD Multiple Streams series:** 5, when #=0,5; 10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9 **Full HD IP PTZ:** 5, when #=0,5;	**Full HD Multiple Streams series:** 0 … 39 **Full HD IP PTZ:** 0 … 39 **Full HD WDR IP Camera:** 0 … 39	Motion detection window left axis

	10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9 **Full HD WDR IP Camera:** 5, when #=0,5; 10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9		
Right	**Full HD Multiple Streams series:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9 **Full HD IP PTZ:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9 **Full HD WDR IP Camera:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9	**Full HD Multiple Streams series:** 0 … 39 **Full HD IP PTZ:** 0 … 39 **Full HD WDR IP Camera:** 0 … 39	Motion detection window right axis
Top	**Full HD Multiple Streams series:** 6, when #=0 to 4 11, when # =5 to 9	**Full HD Multiple Streams series:** 0 … 29 **Full HD IP PTZ:**	Motion detection window top axis

		Full HD IP PTZ: 6, when #=0 to 4 11, when # =5 to 9 Full HD WDR IP Camera: 6, when #=0 to 4 11, when # =5 to 9	0 … 29 Full HD WDR IP Camera: 0 … 29	
Bottom		Full HD Multiple Streams series: 9, when #=0 to 4 14, when # =5 to 9 Full HD IP PTZ: 9, when #=0 to 4 14, when # =5 to 9 Full HD WDR IP Camera: 9, when #=0 to 4 14, when # =5 to 9	Full HD Multiple Streams series: 0 … 29 Full HD IP PTZ: 0 … 29 Full HD WDR IP Camera: 0 … 29	Motion detection window bottom axis

Pos			Full HD Multiple
			Streams series/
			Full HD IP PTZ/ Full
			HD WDR IP Camera
			:
			val1,val2,val3,val4,v
			al5,val6
			val1 = h264 or
			h264_2 or jpeg
			val2 = width x height
			val3 = 0~ (width - 1)
			val4 = 0~ (width - 1)
			val5 = 0~ (height - 1)
			val6 = 0~ (height - 1)
				val1：tells which stream is
				    being connected
				val2：to divide the image into
				    small rectangular grids.
				Ex:40(grids)x 30(grids) or
				    40x21 or others
				val3：to set the left point of
				    the motion window
				val4：to set the right point of
				    the motion window
				val5：to set the top point of
				    the motion window
				val6：to set the bottom point
				    of the motion window

* Note: the # is replaced with a group number starting from 0 to 9, e.g. Motion1.M0.

2.16.4 Motion2.M#

Description: The group is for adding/deleting motion detection window.

Configuration file: /etc/sysconfig/motion.conf

[Motion2.M#] *

Parameter name	Default value	Valid values	Description
Enabled	**Full HD Multiple Streams series:** yes, when #=0; no, when #=1 to 9 **Full HD IP PTZ:** yes, when #=0; no, when #=1 to 9 **Full HD WDR IP Camera:** yes, when #=0; no, when #=1 to 9	**Full HD Multiple Streams series:** yes, no **Full HD IP PTZ:** yes, no **Full HD WDR IP Camera:** yes, no	Enable/ disable motion detection window
Left	**Full HD Multiple Streams series:** 5, when #=0,5; 10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9 **Full HD IP PTZ:** 5, when #=0,5; 10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9 **Full HD WDR IP Camera:** 5, when #=0,5;	**Full HD Multiple Streams series:** 0 … 39 **Full HD IP PTZ:** 0 … 39 **Full HD WDR IP Camera:** 0 … 39	Motion detection window left axis

	10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9		
Right	**Full HD Multiple Streams series:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9 **Full HD IP PTZ:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9 **Full HD WDR IP Camera:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9	**Full HD Multiple Streams series:** 0 … 39 **Full HD IP PTZ:** 0 … 39 **Full HD WDR IP Camera:** 0 … 39	Motion detection window right axis
Top	**Full HD Multiple Streams series:** 6, when #=0 to 4 11, when # =5 to 9 **Full HD IP PTZ:** 6, when #=0 to 4 11, when # =5 to 9 **Full HD WDR IP Camera:** 6, when #=0 to 4 11, when # =5 to 9	**Full HD Multiple Streams series:** 0 … 29 **Full HD IP PTZ:** 0 … 29 **Full HD WDR IP Camera:** 0 … 29	Motion detection window top axis

Bottom	**Full HD Multiple Streams series:** 9, when #=0 to 4 14, when # =5 to 9 **Full HD IP PTZ:** 9, when #=0 to 4 14, when # =5 to 9 **Full HD WDR IP Camera:** 9, when #=0 to 4 14, when # =5 to 9	**Full HD Multiple Streams series:** 0 … 29 **Full HD IP PTZ:** 0 … 29 **Full HD WDR IP Camera:** 0 … 29	Motion detection window bottom axis
Pos		**Full HD Multiple Streams series/ Full HD IP PTZ/ Full HD WDR IP Camera:** val1,val2,val3,val4,val5,val6 val1 = h264 or h264_2 or jpeg val2 = width x height val3 = 0~ (width - 1) val4 = 0~ (width - 1) val5 = 0~ (height - 1) val6 = 0~ (height - 1)	val1：tells which stream is being connected val2：to divide the image into small rectangular grids. Ex:40(grids)x 30(grids) or 40x21 or others val3：to set the left point of the motion window val4：to set the right point of the motion window val5：to set the top point of the motion window val6：to set the bottom point of the motion window

* Note: the # is replaced with a group number starting from 0 to 9, e.g. Motion2.M0.

2.16.5 Motion3.M#

Description: The group is for adding/deleting motion detection window.

Configuration file: /etc/sysconfig/motion.conf

[Motion3.M#] *

Parameter name	Default value	Valid values	Description
Enabled	**Full HD Multiple Streams series:** yes, when #=0; no, when #=1 to 9 **Full HD IP PTZ:** yes, when #=0; no, when #=1 to 9 **Full HD WDR IP Camera:** yes, when #=0; no, when #=1 to 9	**Full HD Multiple Streams series:** yes, no **Full HD IP PTZ:** yes, no **Full HD WDR IP Camera:** yes, no	Motion detection window enable or disable
Left	**Full HD Multiple Streams series:** 5, when #=0,5; 10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9 **Full HD IP PTZ:** 5, when #=0,5; 10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9 **Full HD WDR IP Camera:** 5, when #=0,5; 10, when #=1,6; 15, when #=2,7; 20, when #=3,8; 25, when #=4,9	**Full HD Multiple Streams series:** 0 … 39 **Full HD IP PTZ:** 0 … 39 **Full HD WDR IP Camera:** 0 … 39	Motion detection window left axis
Right	**Full HD Multiple Streams series:**	**Full HD Multiple Streams series:**	Motion detection window right axis

	8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9 **Full HD IP PTZ:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9 **Full HD WDR IP Camera:** 8, when #=0,5; 13, when #=1,6; 18, when #=2,7; 23, when #=3,8; 28, when #=4,9	0 … 39 **Full HD IP PTZ:** 0 … 39 **Full HD WDR IP Camera:** 0 … 39	
Top	**Full HD Multiple Streams series:** 6, when #=0 to 4 11, when # =5 to 9 **Full HD IP PTZ:** 6, when #=0 to 4 11, when # =5 to 9 **Full HD WDR IP Camera:** 6, when #=0 to 4 11, when # =5 to 9	**Full HD Multiple Streams series:** 0 … 29 **Full HD IP PTZ:** 0 … 29 **Full HD WDR IP Camera:** 0 … 29	Motion detection window top axis
Bottom	**Full HD Multiple Streams series:** 9, when #=0 to 4 14, when # =5 to 9 **Full HD IP PTZ:** 9, when #=0 to 4	**Full HD Multiple Streams series:** 0 … 29 **Full HD IP PTZ:** 0 … 29 **Full HD WDR IP**	Motion detection window bottom axis

	14, when # =5 to 9 **Full HD WDR IP Camera:** 9, when #=0 to 4 14, when # =5 to 9	**Camera:** 0 … 29	
Pos		**Full HD Multiple Streams series/ Full HD IP PTZ/ Full HD WDR IP Camera:** val1,val2,val3,val4,val5,val6 val1 = h264 or h264_2 or jpeg val2 = width x height val3 = 0∼ (width - 1) val4 = 0∼ (width - 1) val5 = 0∼ (height - 1) val6 = 0∼ (height - 1)	val1：tells which stream is being connected val2：to divide the image into small rectangular grids. Ex:40(grids)x 30(grids) or 40x21 or others val3：to set the left point of the motion window val4：to set the right point of the motion window val5：to set the top point of the motion window val6：to set the bottom point of the motion window

* Note: the # is replaced with a group number starting from 0 to 9, e.g. Motion3.M0.

2.17 Tampering

2.17.1 Tampering Alarm

Description: Minimum duration in the camera tampering settings determines the timing of identifying tampering events and reacting as prearranged.

Configuration file: /etc/sysconfig/tampering.conf

[Tampering.T0]

Parameter name	Default value	Valid values	Description
MinDuration	20	10 … 3600	**Full HD Multiple Streams Series Camera, Full HD IP**

			PTZ:
			Time for processing video analysis to decide whether camera tampering has occurred. Minimum duration time range is from 10 to 3600 seconds.
			Full HD WDR IP Camera:
			The minimum duration time between two trigger actions

* The parameter mentioned above is currently only available for Full HD Multiple Streams Series Camera, Full HD IP PTZ and Full HD WDR IP Camera.

2.18 Network Failure Detection

2.18.1 Network Failure Detection

Description: Network Failure Detection allows to ping another IP device in the network within a predetermined time interval.

Configuration file: /etc/sysconfig/network_failure.conf

[NetworkFailure]

Parameter name	Default value	Valid values	Description
DetectAddress	0.0.0.0	An IP Address	The IP address of the target IP device
DetectInterval	1	1 … 99	Interval of time, in minute, to ping another network IP address.

* The parameter mentioned above is currently only available Full HD Multiple Streams Series Camera, Full HD IP PTZ and Full HD WDR IP Camera.

2.19 IR

2.19.1 IR Mode

Description: Set different mode of IR

Configuration file: /etc/sysconfig/ir.conf

[IR]

Parameter name	Default value	Valid values	Description
Mode	auto	**Full HD Multiple Streams series, Full HD WDR IP Camera:** auto manualon manualoff smart Built-in IR LED model: manualon manualoff lightsensor, lighton, lightoff **Full HD IP PTZ:** auto manualon manualoff	auto: remove IR cut filter (ICR) automatically manualon/manualoff: remove ICR manually lightsensor: IR LEDs switched on/off automatically. When IR LEDs are turn on, ICR will be removed; when IR LEDs are turned off, ICR will be off. lighton: IR LEDs are forced on; ICR on lightoff: IR LEDs are forced off; ICR off smart: IR cut filter keeps open(night mode) in the scenario that IR illumination is dominant
Active	on	**Full HD Multiple Streams series, Full HD WDR IP Camera:** on,	Set IR mode, on or off, when alarm is triggered.

		off	
LightCompensation	off	on, off	Eliminates the white out effect and saturation on close objects, producing a clear and recognizable image

2.20 RS-485 Control

2.20.1 RS-485 Control

Description: This group defines an action that allows implementation of RS-485 control for the models with RS-485 control support.

Configuration file: /etc/sysconfig/rs485protocol.conf

[RS485Control]

Parameter name	Default value	Valid values	Description
Switch	**Full HD Multiple Streams series:** 0	**Full HD Multiple Streams series:** 0, 1	Enable/disable RS-485 control
Mode	**Full HD Multiple Streams series:** 0	**Full HD Multiple Streams series:** 0 … 6	Each number presents a protocol with specified baud rate. 0 = DSCP 9600 1 = PelcoD 2400 2 = PelcoD 4800 3 = PelcoD 9600 4 = PelcoP 2400 5 = PelcoP 4800 6 = PelcoP 9600 7= Universal protocol
Protocol	**Video Server:** dscp	**Video Server:** dscp	The protocol assigned for the Video Server

| | | Pelcod | |
		Pelcop	
Baudrate	**Video Server:** 9600	**Video Server:** 9600 4800 2400	
BaudrateType	9600, 8, n, 1	**Baudrate:** [2400/ 4800/ 9600/ 19200] **Databits:** [5-8] **Parity:** [n/e/o] **Stop bits:** [1-2]	Baudrate = It's the number of bits per second that are being transmitted or received Databits = Data is transmitted as a series of 5,6,7 or 8 bits with the LSB sent first. Parity= To check whether corruption has occurred. Stop bits = This bit tells us that the last character was just sent (This command must be set in mode 7.)

Example: To set the BaudrateType

http://myserver/cgi-bin/admin/param.cgi?action=update&RS485Control.BaudrateType=2400,8,n,1

2.20.2 RS-485 universal protocol control

Description: This group defines an action that transfer packets through RS-485 universal protocol

Configuration file: /etc/sysconfig/rs485protocol.conf

Method: GET/POST

Syntax:

http://<*servername*>/cgi-bin/com/ptz.cgi? *BypassCmd* =<*value*>[&<*parameter*>=<*value*>...]

With the following parameters and values

Parameter name	Default value	Valid values	Description
BypassCmd	None	Byte1, Byte2, …, Byte20	1. To transfer the packets 2. This command must be set in mode 7. 3. From Byte1 to Byte20 are all hexadecimal value 4. The value of Byte1 to Byte20 could be either representing with "0x" or not. For example, 0x2F or 2F

Example: To set the protocol mode to universal protocol.

http://myserver/cgi-bin/admin/param.cgi?action=update&RS485Control.Mode=7

Example: To send packets

http://myserver/cgi-bin/com/ptz.cgi?BypassCmd=12,aa,55,AB,88

2.21 Storage Management

2.21.1 Storage Management

Description: Describe the parameter for Micro SD card storage management feature.

Configuration file: /etc/sysconfig/storage.conf

[Storage.S0]

Parameter name	Default value	Valid values	Description
Cleanuplevel	85	1 … 99 (Unit: percentage)	If the value of CleanupPolicyActive is **yes**, the data stored in the memory card of an IP Camera will be deleted in two cases: 1. The capacity of stored data exceeds the preconfigured capacity percentage (Cleanuplevel) of the memory card. 2. The time data stored in memory card is larger than a specified number of days(CleanupMaxAge)
CleanupMaxAge	1	1 … 999 (Unit: day)	
CleanupPolicyActive	no	no, yes	

2.22 Fisheye Setting

2.22.1 Fisheye Location

Description: Wall and ceiling mount types for different fisheye camera installation way.

Configuration file: /etc/sysconfig/fisheye.conf

[Fisheye.F0]

Parameter name	Default value	Valid values	Description

Location	ceiling	ceiling wall	1. Change mounting type according to ceiling mount or wall mount for fisheye camera to have correct view mode.
Wall.Angle	0	0 … 359 (Unit: degree)	2. Wall.Angle only available when Location set to "wall" mount. Can adjust the horizontal level of image to calibrate unlevel installation.

2.22.2 Fisheye.F0

Description: Get fisheye related parameters to have 360-degree panorama view and dewarp view on backend software by utilizing Fisheye SDK.

*See also: The SDK of Fisheye IP Camera

Configuration file: /etc/sysconfig/fisheye.conf

[Fisheye.F0]

Parameter name	Value	Description
Projection	stereographic, equidistant	This parameter is read only.
View.Mjpeg	V#	Mjpeg Streaming fisheye original view (refer to View.V#). The # is replaced with a view number. This parameter is read only.
View.H264	V#	The # is replaced with a view number. This parameter is read only.
View.H264_2	V#	The # is replaced with a view number. This parameter is read only.

View.H264_3	V#	The # is replaced with a view number. This parameter is read only.
View.H264_4	V#	The # is replaced with a view number. This parameter is read only.
View.V#.Width	An integer	The width of fisheye original view. This parameter is read only.
View.V#.Height	An integer	The height of fisheye original view. This parameter is read only.
View.V#.CenterX	An integer	x coordinate of fisheye original view center. This parameter is read only.
View.V#.CenterY	An integer	y coordinate of fisheye original view center. This parameter is read only.
View.V#.Diameter	An integer	The diameter of fisheye original view. This parameter is read only.
View.V#.FocalLength	An integer	The focal length of the fisheye lens. This parameter is read only.

2.23 Schedule

2.23.1 Schedule.S#

Description: Schedule parameters used for event detection scheduling.

Configuration file: /etc/sysconfig/schedule.conf

[Schedule.S#]

Parameter name	Default value	Valid values	Description
Weekdays	0000000	0000000 … 1111111 (Only 0 or 1 is valid for each digit)	Event detection enabled on specific weekdays. The maximum significant bit stands for Sunday, and second digit for Monday etc… 0 is disable, and 1 is enabled
Starttime	00:00	00:00 … 23:59	Indicates the time (hh:mm) when event detection should be enabled. Starttime = 02:00 means that event detection should be started two hours after midnight.
Duration	00:00	00:00 … 168:00	Time interval for event detection.

2.24 Periodical event

Description: Upload image to FTP or email in a fixed time period

Configuration file: /etc/sysconfig/periodical.conf

[Periodical.P0]

Parameter name	Default value	Valid values	Description
Interval	60	60 … 3600	The time interval of uploading image

Note. This parameter is only available for Full HD WDR IP Camera.

Appendix A

- Resolution combination of Full HD Multiple Streams series/ Full HD IP PTZ

2M 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)	720 x 480 (15 fps)	352 x 240 (30 fps)
		640 x 480 (15 fps)	352 x 240 (30 fps)
		352 x 240 (30 fps)	352 x 240 (30 fps)
	1280 x 720 (15 fps)	800 x 600 (15 fps)	720 x 480 (15 fps)
			640 x 480 (15 fps)
			352 x 240 (30 fps)
		720 x 480 (15 fps)	720 x 480 (15 fps)
			640 x 480 (15 fps)
		720 x 480 (30 fps)	352 x 240 (30 fps)
		640 x 480 (15 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)
	1024 x 768 (15 fps)	800 x 600 (15 fps)	720 x 480 (15 fps)
			640 x 480 (15 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)	352 x 240 (30 fps)
		640 x 480 (15 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)
	800 x 600 (15 fps)	800 x 600 (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 (15 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)
	800 x 600 (30 fps)	720 x 480 (30 fps)	352 x 240 (30 fps)
		640 x 480 (30 fps)	352 x 240 (30 fps)
		352 x 240 (30 fps)	352 x 240 (30 fps)
	720 x 480 (15 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)	720 x 480 (30 fps)	352 x 240 (30 fps)
		640 x 480 (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)

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

2M 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)	800 x 600 (15 fps)
		720 x 480 (15 fps)
		640 x 480 (15 fps)
		352 x 240 (30 fps)
	1280 x 720 (15 fps)	1280 x 720 (15 fps)
		800 x 600 (15 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)
	1024 x 768 (30 fps)	352 x 240 (30 fps)
	800 x 600 (15 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)
	352 x 240 (30fps)	352 x 240 (30fps)
1280 x 1024 (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 (15 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)	720 x 480 (30 fps)
1280 x 1024 (30 fps)	800 x 600 (30 fps)	352 x 240 (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)
1280 x 720 (15 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)
		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.264-1 + 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)	352 x 240 (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)
		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)
1024 x 768 (15 fps)	1024 x 768 (30 fps)	800 x 600 (30 fps)
1024 x 768 (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 (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)
	352 x 240 (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)
		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)
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)
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)

2M Dual Stream

H.264-1 + H.264-2 / MJPEG		
H.264-1	**H.264-2 / MJPEG**	**BNC SUPPORT**
1920 x 1080 (15 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)	√
	352 x 240 (30 fps)	√
1280 x 1024 (30 fps)	1280 x 1024 (15 fps)	√
	1280 x 720 (15 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)	√
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)	√
	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)	√
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)	-

2M Single Stream

H.264 Only	BNC SUPPORT
1920 x 1080 (15 fps) Low Latency	-
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)	√
720 x 480 (30 fps)	√
640 x 480 (30 fps)	√
352 x 240 (30 fps)	-

MJPEG Only	BNC SUPPORT
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)	√
720 x 480 (30 fps)	√
640 x 480 (30 fps)	√
352 x 240 (30 fps)	-

2M Real time / 3M / 5M- Quad Streams

H.264 + H.264 + H.264 + H.264 / MJPEG			
H.264-1	H.264-2	H.264-3	H.264-4 / MJPEG
2592 x 1944 (12 fps)	720 x 480 (12 fps)	720 x 480 (12 fps)	352 x 240 (12 fps)
		640 x 480 (12 fps)	640 x 480 (12 fps)
			352 x 240 (12 fps)
		352 x 240 (12 fps)	352 x 240 (12 fps)
	640 x 480 (12 fps)	640 x 480 (12 fps)	640 x 480 (12 fps)
			352 x 240 (12 fps)
		352 x 240 (12 fps)	352 x 240 (12 fps)

*The resolution is for 5M Model only.

H.264 + H.264 + H.264 + H.264 / MJPEG			
H.264-1	H.264-2	H.264-3	H.264-4 / MJPEG
2048 x 1536 (15 fps)	1280 x 720 (15 fps)	720 x 480 (15 fps)	640 x 480 (15 fps)
			352 x 240 (15 fps)
		640 x 480 (15 fps)	640 x 480 (15 fps)
			352 x 240 (15 fps)
		352 x 240 (15 fps)	352 x 240 (15 fps)
	800 x 600 (15 fps)	800 x 600 (15 fps)	720 x 480 (15 fps)
			640 x 480 (15 fps)
			352 x 240 (15 fps)
		720 x 480 (15 fps)	720 x 480 (15 fps)
			640 x 480 (15 fps)
			352 x 240 (15 fps)
		640 x 480 (15 fps)	640 x 480 (15 fps)
			352 x 240 (15 fps)
		352 x 240 (15 fps)	352 x 240 (15 fps)
	720 x 480 (15 fps)	720 x 480 (15 fps)	720 x 480 (15 fps)
			640 x 480 (15 fps)
			352 x 240 (15 fps)
		640 x 480 (15 fps)	640 x 480 (15 fps)
			352 x 240 (15 fps)
		352 x 240 (15 fps)	352 x 240 (15 fps)
	640 x 480 (15 fps)	640 x 480 (15 fps)	640 x 480 (15 fps)

H.264 + H.264 + H.264 + H.264 / MJPEG			
H.264-1	H.264-2	H.264-3	H.264-4 / MJPEG
			352 x 240 (15 fps)
		352 x 240 (15 fps)	352 x 240 (15 fps)
	352 x 240 (15 fps)	352 x 240 (15 fps)	352 x 240 (15 fps)

*The resolution is for 3M & 5M Model only.

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

H.264 + H.264 + H.264 + H.264 / MJPEG			
H.264-1	**H.264-2**	**H.264-3**	**H.264-4 / MJPEG**
	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)

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)
			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)
	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)
	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)
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)
			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)
	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)
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)	352 x 240 (30 fps)

2M Real time / 3M / 5M- Triple Streams

H.264-1 + H.264-2 + H.264-3 / MJPEG		
H.264-1	**H.264-2**	**H.264-3 / MJPEG**
2592 x 1944 (12 fps)	720 x 480 (12 fps)	720 x 480 (12 fps)
		640 x 480 (12 fps)
		352 x 240 (12 fps)
	640 x 480 (12 fps)	640 x 480 (12 fps)
		352 x 240 (12 fps)

*The resolution is for 5M Model only.

H.264-1 + H.264-2 + H.264-3 / MJPEG		
H.264-1	**H.264-2**	**H.264-3 / MJPEG**
2048 x 1536 (15 fps)	1280 x 720 (15 fps)	720 x 480 (15 fps)
		640 x 480 (15 fps)
		352 x 240 (15 fps)
	800 x 600 (15 fps)	800 x 600 (15 fps)
		720 x 480 (15 fps)
		640 x 480 (15 fps)
		352 x 240 (15 fps)
	720 x 480 (15 fps)	720 x 480 (15 fps)
		640 x 480 (15 fps)
		352 x 240 (15 fps)
	640 x 480 (15 fps)	640 x 480 (15 fps)
		352 x 240 (15 fps)
	352 x 240 (15 fps)	352 x 240 (15 fps)

*The resolution is for 3M & 5M Model only.

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)

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

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)
		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)
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)
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)

2M Real time / 3M / 5M- Dual Streams

H.264-1 + H.264-2 / MJPEG		
H.264-1	**H.264-2 / MJPEG**	**BNC SUPPORT**
2592 x 1944 (12 fps)	720 x 480 (12 fps)	-
	640 x 480 (12 fps)	-
	352 x 240 (12 fps)	-

*The resolution is for 5M Model only.

H.264-1 + H.264-2 / MJPEG		
H.264-1	**H.264-2 / MJPEG**	**BNC SUPPORT**
2048 x 1536 (15 fps)	1280 x 720 (15 fps)	-
	800 x 600 (15 fps)	-
	720 x 480 (15 fps)	-
	640 x 480 (15 fps)	-
	352 x 240 (15 fps)	-

*The resolution is for 3M & 5M Model only.

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)	√
	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)	-

H.264-1 + H.264-2 / MJPEG		
H.264-1	**H.264-2 / MJPEG**	**BNC SUPPORT**
	720 x 480 (30 fps)	√
	640 x 480 (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)	√
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)	-

2M Real time / 3M / 5M- Single Streams

H.264 Only	**BNC SUPPORT**
2592 x 1944 (12 fps)*	-
2048 x 1536 (15 fps)**	-
1920 x 1080 (30 fps) Low Latency***	-
1920 x 1080 (30 fps)	√
1280 x 1024 (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)	-

* The resolution is for 5M Model only.
** The resolution is for 3M & 5M Model only.

*** 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 1024 (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)	-

Appendix B

- Resolution combination of Full HD WDR IP Camera

Quad Stream

IMX139@25/30 (BNC is not supported)

H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
1280 x 1024 (25 fps)	1280 x 720 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	1024 x 768 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
		352 x 288 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	800 x 600 (25fps)	720 x 576 (25fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		640 x 480 (25 fps)	640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
		352 x 288 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	720 x 576 (25fps)	720 x 576 (25fps)	640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
		640 x 480 (25 fps)	640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
		352 x 288 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	640 x 480 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)
1280 x 1024 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
1280 x 1024 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	800 x 600 (25 fps)	352 x 288 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	1024 x 768 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	640 x 480 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	1024 x 768 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		800 x 600 (25 fps)	720 x 576 (25 fps)
			640 x 480 (25 fps)

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H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
			352 x 288 (25 fps)
			176 x 144 (25 fps)
		720 x 576 (25 fps)	720 x 576 (25 fps)
			640 x 480 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
		640 x 480 (25 fps)	640 x 480 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	800 x 600 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)
			720 x 576 (25 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
			720 x 576 (25/30 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	176 x 144 (25/30 fps)
		176 x 144 (25/30 fps)	176 x 144 (25/30 fps)
1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)

H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
			720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)

H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps
			352 x 288 (25/30 fps)
720 x 576 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
640 x 480 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
352 x 288 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)

IMX140@25/30 (BNC is not supported)

H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
1920 x 1080 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
	352 x 288 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25 fps)	1280 x 720 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	1024 x 768 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
		352 x 288 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	800 x 600 (25fps)	720 x 576 (25fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		640 x 480 (25 fps)	640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
		352 x 288 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	720 x 576 (25fps)	720 x 576 (25fps)	640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
		640 x 480 (25 fps)	640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
		352 x 288 (25 fps)	352 x 288 (25 fps)

H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
			176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	640 x 480 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)
1280 x 1024 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	800 x 600 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		720 x 576 (25 fps)	640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
		640 x 480 (25 fps)	640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
1280 x 720 (25/30 fps)	1024 x 768 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	800 x 600 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)
			720 x 576 (25 fps)
			640 x 480 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
		720 x 576 (25 fps)	720 x 576 (25 fps)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
1024 x 768 (25 fps)	1024 x 768 (25 fps)	1024 x 768 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		800 x 600 (25 fps)	720 x 576 (25 fps)
			640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
		720 x 576 (25 fps)	720 x 576 (25 fps)
			640 x 480 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
		640 x 480 (25 fps)	640 x 480 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	800 x 600 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)
			720 x 576 (25 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)
			720 x 576 (25/30 fps)
1024 x 768 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)

H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
1024 x 768 (25 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	176 x 144 (25/30 fps)
		176 x 144 (25/30 fps)	176 x 144 (25/30 fps)
1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1024 x 768 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
			720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
800 x 600 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
720 x 576 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps
			352 x 288 (25/30 fps)
720 x 576 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
640 x 480 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
352 x 288 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)

ICX 692@25/30 (BNC is not supported)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
1280 x 720 (25 fps)	1280 x 720 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)
			176 x 144 (25 fps)
		640 x 480 (25 fps)	640 x 480 (25 fps)
			352 x 288 (25 fps)
			176 x 144 (25 fps)
1280 x 720 (25/30 fps)	1280 x 720 (25 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	1280 x 720 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
			720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)

H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
1280 x 720 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
			720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)

H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
800 x 600 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
			640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)

H.264 + H.264 + H.264 + H.264			
H.264	H.264	H.264	H.264-4
720 x 576 (25 fps)	720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
720 x 576 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
			352 x 288 (25/30 fps)
640 x 480 (25 fps)	640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
352 x 288 (25 fps)	352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)

H.264 + H.264 + H.264 + H.264			
H.264	**H.264**	**H.264**	**H.264-4**
		176 x 144 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)
176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)

Triple Stream

IMX139@25/30 (BNC is supported)

H.264 + H.264 + H.264		
H.264	**H.264**	**H.264**
1280 x 1024 (25 fps)	1280 x 720 (25 fps)	352 x 288 (25 fps)
		176 x 144 (25 fps)
	1024 x 768 (25 fps)	640 x 480 (25 fps)
		352 x 288 (25 fps)
		176 x 144 (25 fps)
	800 x 600 (25 fps)	800 x 600 (25 fps)
		720 x 576 (25 fps)
		640 x 480 (25 fps)
1280 x 1024 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25 fps)	1280 x 720 (25 fps)	800 x 600 (25 fps)
		720 x 576 (25 fps)

H.264 + H.264 + H.264		
H.264	H.264	H.264
		640 x 480 (25 fps)
1280 x 720 (25/30 fps)	1280 x 720 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	1280 x 720 (25 fps)	176 x 144 (25 fps)
	1024 x 768 (25 fps)	800 x 600 (25 fps)
1280 x 720 (25/30 fps)	1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
		720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	1024 x 768 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)
		720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)

H.264 + H.264 + H.264		
H.264	**H.264**	**H.264**
		720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1024 x 768 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
		720 x 576 (25/30 fps)
1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1024 x 768 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1024 x 768 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
		800 x 600 (25/30 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
		720 x 576 (25/30 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)

H.264 + H.264 + H.264		
H.264	H.264	H.264
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)

IMX140@25/30 (BNC is not supported)

H.264 + H.264 + H.264		
H.264	H.264	H.264
1920 x 1080 (25 fps)	640 x 480 (25 fps)	352 x 288 (25 fps)
		176 x 144 (25 fps)
	352 x 288 (25 fps)	352 x 288 (25 fps)
		176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25 fps)	1280 x 720 (25 fps)	352 x 288 (25 fps)
		176 x 144 (25 fps)

H.264 + H.264 + H.264		
H.264	**H.264**	**H.264**
	1024 x 768 (25 fps)	640 x 480 (25 fps)
		352 x 288 (25 fps)
		176 x 144 (25 fps)
	800 x 600 (25 fps)	800 x 600 (25 fps)
		720 x 576 (25 fps)
		640 x 480 (25 fps)
1280 x 1024 (25/30 fps)	800 x 600 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 1024 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25 fps)	1280 x 720 (25 fps)	800 x 600 (25 fps)
		720 x 576 (25 fps)
		640 x 480 (25 fps)
1280 x 720 (25/30 fps)	1280 x 720 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	1280 x 720 (25 fps)	176 x 144 (25 fps)
	1024 x 768 (25 fps)	800 x 600 (25 fps)
1280 x 720 (25/30 fps)	1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	1024 x 768 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)

H.264 + H.264 + H.264		
H.264	**H.264**	**H.264**
		720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	1024 x 768 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)
		720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1024 x 768 (25 fps)	1024 x 768 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
		720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1024 x 768 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1024 x 768 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)

H.264 + H.264 + H.264		
H.264	**H.264**	**H.264**
		352 x 288 (25/30 fps)
1024 x 768 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
		720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)

H.264 + H.264 + H.264		
H.264	**H.264**	**H.264**
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)

IMX140@50/60 (BNC is not supported)

H.264 + H.264 + H.264		
H.264	**H.264**	**H.264**
720 x 576 (50/60 fps)	720 x 576 (50/60 fps)	720 x 576 (50/60 fps)
		640 x 480 (50/60 fps)
		352 x 288 (50/60 fps)
720 x 576 (50 fps)	720 x 576 (50 fps)	176 x 144 (50 fps)
720 x 576 (50/60 fps)	640 x 480 (50/60 fps)	640 x 480 (50/60 fps)
		352 x 288 (50/60 fps)
720 x 576 (50 fps)	640 x 480 (50 fps)	176 x 144 (50 fps)
720 x 576 (50/60 fps)	352 x 288 (50/60 fps)	352 x 288 (50/60 fps)
720 x 576 (50 fps)	352 x 288 (50 fps)	176 x 144 (50 fps)
	176 x 144 (50 fps)	176 x 144 (50 fps)
640 x 480 (50/60 fps)	640 x 480 (50/60 fps)	640 x 480 (50/60 fps)
		352 x 288 (50/60 fps)
640 x 480 (50 fps)	640 x 480 (50 fps)	176 x 144 (50 fps)
640 x 480 (50/60 fps)	352 x 288 (50/60 fps)	352 x 288 (50/60 fps)
640 x 480 (50 fps)	352 x 288 (50 fps)	176 x 144 (50 fps)
	176 x 144 (50 fps)	176 x 144 (50 fps)

H.264 + H.264 + H.264		
H.264	H.264	H.264
352 x 288 (50/60 fps)	352 x 288 (50/60 fps)	352 x 288 (50/60 fps)
352 x 288 (50 fps)	352 x 288 (50 fps)	176 x 144 (50 fps)
	176 x 144 (50 fps)	176 x 144 (50 fps)
176 x 144 (50 fps)	176 x 144 (50 fps)	176 x 144 (50 fps)

ICX 692 (BNC is supported)

H.264 + H.264 + H.264		
H.264	H.264	H.264
1280 x 720 (25 fps)	1280 x 720 (25 fps)	720 x 576 (25 fps)
		640 x 480 (25 fps)
1280 x 720 (25/30 fps)	1280 x 720 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	1280 x 720 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
		720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
1280 x 720 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
		720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)

H.264 + H.264 + H.264		
H.264	**H.264**	**H.264**
		352 x 288 (25/30 fps)
800 x 600 (25 fps)	800 x 600 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
800 x 600 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
800 x 600 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
800 x 600 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
		640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
720 x 576 (25 fps)	720 x 576 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
720 x 576 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
720 x 576 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
		352 x 288 (25/30 fps)
640 x 480 (25 fps)	640 x 480 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)
	176 x 144 (25 fps)	176 x 144 (25 fps)
352 x 288 (25/30 fps)	352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
352 x 288 (25 fps)	352 x 288 (25 fps)	176 x 144 (25 fps)

H.264 + H.264 + H.264		
H.264	**H.264**	**H.264**
	176 x 144 (25 fps)	176 x 144 (25 fps)
176 x 144 (25 fps)	176 x 144 (25 fps)	176 x 144 (25 fps)

Dual Stream
IMX139@25/30 (BNC is supported)

H.264	**H.264**
1280 x 1024 (25 fps)	1024 x 768 (25 fps)
1280 x 1024 (25/30 fps)	800 x 600 (25/30 fps)
	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	1280 x 720 (25/30 fps)
	1024 x 768 (25/30 fps)
	800 x 600 (25/30 fps)
	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)
	800 x 600 (25/30 fps)
	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
800 x 600 (25 fps)	176 x 144 (25 fps)

H.264	H.264
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
720 x 576 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
640 x 480 (25 fps)	176 x 144 (25 fps)
352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
352 x 288 (25 fps)	176 x 144 (25 fps)
176 x 144 (25 fps)	176 x 144 (25 fps)

IMX139@50/60 (BNC is supported)

H.264	H.264
800 x 600 (50/60 fps)	352 x 288 (50/60 fps)
800 x 600 (50 fps)	176 x 144 (50 fps)
720 x 576 (50/60 fps)	352 x 288 (50/60 fps)
720 x 576 (50 fps)	176 x 144 (50 fps)
640 x 480 (50/60 fps)	352 x 288 (50/60 fps)
640 x 480 (50 fps)	176 x 144 (50 fps)
352 x 288 (50/60 fps)	352 x 288 (50/60 fps)
352 x 288 (50 fps)	176 x 144 (50 fps)
176 x 144 (50 fps)	176 x 144 (50 fps)

IMX140@25/30 (BNC is supported)

H.264	H.264
1920 x 1080 (25 fps)	720 x 576 (25 fps)
	640 x 480 (25 fps)
	352 x 288 (25 fps)
	176 x 144 (25 fps)
1280 x 1024 (25 fps)	1024 x 768 (25 fps)
1280 x 1024 (25/30 fps)	800 x 600 (25/30 fps)

H.264	H.264
	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
1280 x 1024 (25 fps)	176 x 144 (25 fps)
1280 x 720 (25/30 fps)	1280 x 720 (25/30 fps)
	1024 x 768 (25/30 fps)
	800 x 600 (25/30 fps)
	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	176 x 144 (25 fps)
1024 x 768 (25/30 fps)	1024 x 768 (25/30 fps)
	800 x 600 (25/30 fps)
	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
1024 x 768 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
800 x 600 (25 fps)	176 x 144 (25 fps)
720 x 576 (25/30 fps)	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
720 x 576 (25 fps)	176 x 144 (25 fps)
640 x 480 (25/30 fps)	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
640 x 480 (25 fps)	176 x 144 (25 fps)
352 x 288 (25/30 fps)	352 x 288 (25/30 fps)

H.264	H.264
352 x 288 (25 fps)	176 x 144 (25 fps)
176 x 144 (25 fps)	176 x 144 (25 fps)

IMX140@50/60 (BNC is not supported)

H.264	H.264
800 x 600 (50/60 fps)	800 x 600 (50/60 fps)
	720 x 576 (50/60 fps)
	640 x 480 (50/60 fps)
	352 x 288 (50/60 fps)
800 x 600 (50 fps)	176 x 144 (50 fps)
720 x 576 (50/60 fps)	720 x 576 (50/60 fps)
	640 x 480 (50/60 fps)
	352 x 288 (50/60 fps)
720 x 576 (50 fps)	176 x 144 (50 fps)
640 x 480 (50/60 fps)	640 x 480 (50/60 fps)
	352 x 288 (50/60 fps)
640 x 480 (50 fps)	176 x 144 (50 fps)
352 x 288 (50/60 fps)	352 x 288 (50/60 fps)
352 x 288 (50 fps)	176 x 144 (50 fps)
176 x 144 (50 fps)	176 x 144 (50 fps)

ICX 692 (BNC is supported)

H.264	H.264
1280 x 720 (25/30 fps)	1280 x 720 (25/30 fps)
	800 x 600 (25/30 fps)
	720 x 576 (25/30 fps)
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
1280 x 720 (25 fps)	176 x 144 (25 fps)
800 x 600 (25/30 fps)	800 x 600 (25/30 fps)
	720 x 576 (25/30 fps)

H.264	H.264
	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
800 x 600 (25 fps)	176 x 144 (25 fps)
	720 x 576 (25/30 fps)
720 x 576 (25/30 fps)	640 x 480 (25/30 fps)
	352 x 288 (25/30 fps)
720 x 576 (25 fps)	176 x 144 (25 fps)
	640 x 480 (25/30 fps)
640 x 480 (25/30 fps)	352 x 288 (25/30 fps)
640 x 480 (25 fps)	176 x 144 (25 fps)
352 x 288 (25/30 fps)	352 x 288 (25/30 fps)
352 x 288 (25 fps)	176 x 144 (25 fps)
176 x 144 (25 fps)	176 x 144 (25 fps)

Single Stream
IMX139@25/30 (BNC is supported)

H.264
1280 x 1024 (25/30 fps)
1280 x 720 (25/30 fps)
1024 x 768 (25/30 fps)
800 x 600 (25/30 fps)
720 x 576 (25/30 fps)
640 x 480 (25/30 fps)
352 x 288 (25/30 fps)
176 x 144 (25 fps)

IMX139@50/60 (BNC is not supported)

H.264
800 x 600 (50/60 fps)
720 x 576 (50/60 fps)
640 x 480 (50/60 fps)

H.264
352 x 288 (50/60 fps)
176 x 144 (50 fps)

IMX140@25/30 (BNC is supported)

H.264
1920 x 1080 (25/30 fps)
1280 x 1024 (25/30 fps)
1280 x 720 (25/30 fps)
1024 x 768 (25/30 fps)
720 x 576 (25/30 fps)
640 x 480 (25/30 fps)
352 x 288 (25/30 fps)
176 x 144 (25 fps)

IMX140@50/60 (BNC is not supported)

H.264
1280 x 720 (50/60 fps)
1024 x 768 (50/60 fps)
800 x 600 (50/60 fps)
720 x 576 (50/60 fps)
640 x 480 (50/60 fps)
352 x 288 (50/60 fps)
176 x 144 (50 fps)

ICX 692 (BNC is supported)

H.264
1280 x 720 (25/30 fps)
1024 x 768 (25/30 fps)
720 x 576 (25/30 fps)
640 x 480 (25/30 fps)
352 x 288 (25/30 fps)

H.264
176 x 144 (25 fps)