



NETAVIS Observer 4.8.0 and 4.7.2

# **Supported Video Sources**

Version 1.0



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## 1 Introduction

This manual provides a concise specification of the supported IP cameras of NETAVIS Observer.

If you have questions that are not answered here, please contact your NETAVIS distribution partner, or direct to our Product management team by e-mail [info@netavis.net](mailto:info@netavis.net).

We wish you interesting and productive experience with NETAVIS.

Your NETAVIS Team.

### 1.1 Multi streaming from the camera

Some cameras are capable of providing multiple parallel video streams to Observer. This can be helpful, for example, when online viewing and recording is to be done in different formats (e.g. different sizes and frame rates) or for optimizing iCAT video analytics performance.

Usually MJPEG cameras can deliver several MJPEG streams while MPEG (MPEG-4, H.264, and MxPEG) cameras usually can deliver only 1 MPEG stream and some camera types can deliver several MJPEG streams in addition to the MPEG stream.

However there are a few important restrictions with multi streaming:

Some cameras have restrictions in providing multiple streams depending on streaming format, resolution and frame rate. We found out that some cameras just stop streaming when the streaming processors of the camera get overloaded by certain resolution and frame rates settings. Please refer to the camera data sheet and documentation.

In the current version Observer supports 1 format setting for MPEG streams (MPEG-4, H.264, and MxPEG) and multiple format settings for MJPEG streams.

When a camera can do multi-streaming and in the **Camera Admin** dialog the setting **Multi-stream allowed** is enabled but the camera can only provide a single MJPEG stream (see column **M-JPEG streams** in the camera tables below) then the streams can only have one resolution and quality setting as defined in the **Camera Admin** dialog **Default settings**.

### 1.2 Generic RTSP Driver

Since NETAVIS Observer 4.5.0 a generic RTSP driver enables MJPEG, H.264, and MPEG-4 streaming for many cameras whose drivers are not integrated in NETAVIS Observer. It is necessary that the camera makes these streams available via RTSP and that the configuration (stream resolution, fps, etc.) is done in the camera itself. Please see the “Generic RTSP” section below for further information.

## 2 Supported IP cameras

### 2.1 Explanations of the IP camera table columns

<b>Tested firmware:</b>	The camera has been tested together with Observer with this firmware revision.
<b>Stream formats:</b>	Observer supports M-JPEG / MPEG-4 / H.264 and MxPEG streams depending on the camera's capabilities.
<b>M-JPEG streams:</b>	Indicates the maximum number of parallel M-JPEG streams of different formats that can be streamed by the camera.
<b>Audio:</b>	Shows which audio direction is supported by Observer: <ul style="list-style-type: none"> <li>• mic: audio from camera to Observer</li> <li>• spk: audio from Observer to camera</li> </ul>
<b>I/O:</b>	Shows how many input and/or output contacts Observer supports.
<b>PTZ:</b>	Indicates which PTZ features are supported by Observer.
<b>Resolutions:</b>	Selectable image sizes are camera dependent. In early releases of Observer it only supported only three sizes (small, medium, large). From R1.12 on all sizes supported by a given camera will be selectable. <p><b>Note:</b> There is one speciality with the IQeye cameras. The selectable image sizes in Observer for these cameras works differently compared to other cameras, because IQeye has a so called "Crop window" feature which can be set in the camera's web interface. The size of the video frames received from the camera depends on the size of the crop window. Thus, there is no way to show explicit image size values in Observer, only the ratio of the down-sampling factor.</p>
<b>FTP/HTTP:</b>	Shown whether Observer supports alarm picture transport via FTP/HTTP upload (refer to <i>Camera setup for in-camera motion detection (FTP-based)</i> below).
<b>Comment:</b>	Additional information regarding the device, e.g. since which Observer release it is supported.

## 2.2 ABUS

[www.abus.com](http://www.abus.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
IPCS10020	V5.1.9 build 160328	M-JPEG, H.264	1	mic	1/1	-	352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1280x960	- / -	R4.7.1, I/O output since 4.8.0, please use Abus type A I/O driver
IPCB42551	V5.3.2 build 161207	M-JPEG, H.264	1	mic	1/1	-	352x240, 352x288, 640x360, 1280x720, 1280x960, 1920x1080	- / -	R4.7.1, I/O output since 4.8.0, please use Abus type A I/O driver
IPCA62520	V5.3.0 build 160906	MJPEG, MPEG-4, H.264	1	-	-	-	640x480, 704x480, 704x576, 1280x720, 1280x960, 1920x1080	- / -	R4.7.1
IPCA72500	V2.2.25	M-JPEG, H.264	1	mic	1/1	-	320x184, 640x360, 720x408, 800x456, 1280x720, 1920x1080	- / -	R4.8.0
IPCB72501	V5.4.1 build 161207	M-JPEG, H.264	1	-	-	-	352x240, 352x288, 640x360, 1280x720, 1280x960, 1920x1080	- / -	R4.7.1
IPCA73500	V5.4.1 build 170421	M-JPEG, H.264	1	mic	1/1	-	160x90, 160x120, 320x180, 320x240, 400x300, 640x360, 640x480, 800x600, 1280x720, 1280x960, 1920x1080, 2048x1536	- / -	R4.7.1, I/O output 4.8.0, please use Abus type A I/O driver
IPCB74500	V1.1.16	M-JPEG, H.264	1	-	-	-	320x240, 640x360, 640x480, 800x600, 1280x720, 1280x960, 1600x1200, 1920x1080, 2048x1536, 2592x1520	- / -	R4.8.0

### Notes:

- If WDR is enabled in image settings the maximum framerate may be limited on some resolutions. For more information please refer to the camera's user manual.
- Cameras are not supporting all resolution combinations. For details please check the camera's documentation.

## 2.3 ACTi

[www.acti.com](http://www.acti.com)

Device	Tested Firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
ACD-2200	A4D-R2N-V2.04.01-AC	MPEG-4	1	-	-	-	176x120, 176x144, 352x240, 352x288, 640x480, 720x480, 720x576	-/-	R3.4.0
ACM-3701	AD1-220-V3.13.16-AC	M-JPEG, MPEG-4	1	-	-	-	160x112, 320x240, 640x480, 1280x720, 1280x1024	-/-	R4.3.12/R4.4.0
ACM-4200	A1D-220-V3.08.08-AC	MPEG-4	1	L16	-	-	640x480, 1280x720, 1280x1024	-/-	R3.3.0
ACM-5601	A1D-220-V3.08.08-AC	MPEG-4	1	mic	-	-	160x120, 320x240, 640x480, 1280x720, 1280x1024	-/-	R3.0.0
B25	A1D-500-V6.06.16-AC	M-JPEG, H.264	1	mic	1/1	zoom	320x240, 640x480, 1280x720, 1920x1080	-/-	R4.5.3
B45	A1D-500-V6.07.24-AC	M-JPEG, H.264	1	mic	1/1	zoom	320x240, 640x480, 1280x720, 1920x1080	-/-	R4.5.3
B410	A1D-500-V6.09.06-AC	M-JPEG, H.264	1	mic	1/1	zoom	320x240, 640x480, 800x600, 1280x720, 1920x1080, 2048x1536, 2592x1944, 3648x2160, 3648x2736	-/-	R4.5.5
B94	A1D-500-V6.07.24-AC	M-JPEG, H.264	1	mic	1/1	pan-tilt, zoom	320x240, 640x480, 800x600, 1280x720, 1280x960	-/-	R4.5.3
B96	A1D-500-V6.07.24-AC	M-JPEG, H.264	1	mic	1/1	pan-tilt, zoom	320x240, 640x480, 800x600, 1280x720, 1920x1080, 2048x1536, 2592x1944	-/-	R4.5.5



CAM-6510	A1D-M2N-V2.05.12-AC A1D-M2N-V2.08.11-AC	MPEG-4	1	L16	-	-	176x144, 352x288, 720x576, 352x240, 720x480,160x112	- / -	
D31	A1D-500-V6.03.15-AC	M-JPEG, H.264	1	-	-	-	640x360, 1280x720	- / -	R4.4.6
E21	A1D-500-V6.03.15-AC	M-JPEG, H.264	1	-	-	-	640x360, 1280x720	- / -	R4.3.14/R4.4.6
E22	A1D-500-V6.03.09-AC	M-JPEG, H.264	1	-	-	-	640x480, 1280x720, 1920x1080, 2048x1536, 2592x1944	- / -	R4.4.8
E31	A1D-500-V6.03.09-AC	M-JPEG, H.264	1	-	-	-	640x480, 1280x720,	- / -	R4.4.8
E32	A1D-500-V6.03.15-AC	M-JPEG, H.264	1	-	-	-	640x480, 1280x720, 1920x1080, 2048x1536	- / -	R4.4.8
E42	A1D-500-V6.03.07-AC	M-JPEG, H.264	1	-	-	-	640x480, 1280x720, 1920x1080, 2048x1536	- / -	R4.4.8
E62	A1D-500-V6.03.09-AC	M-JPEG, H.264	1	-	-	-	640x480, 1280x720, 1920x1080, 2048x1536	- / -	R4.3.14/R4.4.6
E92	A1D-500-V6.03.09-AC	M-JPEG, H.264	1	-	-	-	640x480, 1280x720, 1920x1080, 2048x1536	- / -	R4.4.8
E923	A1D-500-V6.07.24-AC	M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 800x600, 1280x960, 1440x1080, 2048x1536, 2592x1944, 3648x2736	- / -	R4.5.5
I45	A1D-500-V6.07.24-AC	M-JPEG, H.264	1	mic	1/1	zoom	320x240, 640x480, 800x600, 1280x720, 1920x1080	- / -	R4.5.3

SED-2120	A1D-M2N-V2.05.12-AC	MPEG-4	1	-	-	-	176x144, 352x288, 720x576, 352x240, 720x480, 176x112	- / -	1 channel, R1.9.0
TCM-3111	AD1-310-V4.12.02-AC	M-JPEG, MPEG-4, H.264	1	-	-	-	160x112, 320x240, 640x480, 1280x720, 1280x1024	- / -	R4.3.12/R4.4.0
TCM-7411	AD1-310-V4.12.02-AC	M-JPEG, MPEG-4, H.264	1	L16	1 / 1	-	160x112, 320x240, 640x480, 1280x720, 1280x1024	- / -	R4.3.12/R4.4.0
TCM-7811	4.09.12beta	M-JPEG, MPEG-4, H.264	1	L16	1 / 1	-	160x112, 320x240, 640x480, 1280x720, 1280x960	- / -	R3.4.31

**Note:**

TCM 7811 requires firmware 4.09.12(which is currently in beta) or above.

## 2.4 Alinking

[www.alinking.com](http://www.alinking.com)

Device	Tested Firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
ALC-9751		M-JPEG, MPEG-4	1	mic	-	pan-tilt, stored positions	160x120, 320x240, 640x480	- / -	R3.4.40, PTZ since R3.4.41/R4.3.8
ALC-9852	V2.08 STD-1	M-JPEG, MPEG-4	1	mic	-	-	320x240, 640x480, 1024x768,	- / -	R3.4.40

## 2.5 Allnet

[www.allnet.de](http://www.allnet.de)

Device	Tested Firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
ALL-2205	MG.1.6.01P2	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 640x480, 1280x720, 1280x1024	- / -	R3.4.27
ALL-2272	LM.1.6.16.03P5	M-JPEG, MPEG-4	1	mic	-	-	160x120, 320x240, 640x480	- / -	R3.4.9, MPEG-4 and audio since 3.4.13
ALL-2281	1.0.0 build:22	M-JPEG, MPEG-4	1	mic	-	-	160x120, 320x240, 640x480	- / -	R3.4.9, MPEG-4 and audio since 3.4.13
ALL-2282	1.0.0 build:12	M-JPEG, MPEG-4	1	mic	-	-	160x120, 320x240, 640x480	- / -	R3.4.9, MPEG-4 and audio since 3.4.13
ALL-2288	a20100923NS	M-JPEG, H.264	1	mic	-	-	352x288, 720x576, 1280x720, 1920x1080	- / -	R3.4.27
ALL-2295	a20110221BNS	M-JPEG, H.264	1	mic	-	-	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1280x1024, 1920x1080	- / -	R4.3.9/R4.4.0
ALL-2296	a20110802BNS	M-JPEG, H.264	1	mic	-	-	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1280x1024, 1920x1080	- / -	R4.3.9/R4.4.0
ALL-2297	1A46-1003-1020-1001-B7	M-JPEG, MPEG-4	1	mic	-	-	352x240, 352x288, 704x480, 704x576	- / -	R3.4.13

ALL-2298	a20101203NS	M-JPEG, H.264	1	mic	-	pan-tilt, zoom, continuous PT	352x288, 720x576	- / -	R3.4.27
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**Note:**

MJPEG and H264 stream Resolutions are dependent on each other. For details please check the camera's documentation. In case multi stream is enabled, Observer will use H264-MJPEG mode otherwise it will use the mode corresponding to the selected stream encoding.

## 2.6 Arecont

[www.arecontvision.com](http://www.arecontvision.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
AV-3100M	64116	M-JPEG	>2	-	-	-	1024x768, 2048x1536	-/-	R3.1.0

## 2.7 Axis

[www.axis.com](http://www.axis.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
205(+)	4.04	M-JPEG	20	-	-	-	160x120, 320x240, 640x480	- / -	
206(+) 206W(+)	4.21	M-JPEG	10	-	-	-	160x120, 320x240, 640x360, 640x480	- / -	
206M(+)	4.20	M-JPEG	10	-	-	-	320x240, 640x360, 640x480, 1280x720, 1280x960, 1280x1024	- / -	
207/207W	4.22	M-JPEG, MPEG-4	10	mic	1 / 1	-	160x120, 176x144, 240x180, 320x240, 352x288, 480x360, 640x480	✓ / -	R1.9.0
207MW	4.40	M-JPEG, MPEG-4	20	mic <sup>1</sup>	1 / 1	-	160x90, 160x120, 176x144, 240x135, 240x180, 320x180, 320x240, 352x288, 480x270, 480x360, 640x360, 640x480, 1280x720, 1280x960, 1280x1024	✓ / -	R1.8.6
209FD-R	4.43	M-JPEG, MPEG-4	20	-	-	-	160x120, 176x144, 240x180, 320x240, 352x288, 480x360, 640x480	✓ / -	R1.9.5
209MFD	4.47	M-JPEG, MPEG-4	20	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x144, 240x135, 240x180, 320x180, 320x240, 352x288, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 704x576, 1024x768, 1280x720, 1280x960, 1280x1024	✓ / -	R3.4.3, digital PTZ

<sup>1</sup> Supported formats: G711 ulow, G726 24bit, G726 32bit, AAC 16bit. It is the responsibility of the user to set the audio format manually in the camera's Web interface.

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
210	4.30	M-JPEG, MPEG-4	20	-	1 / 1	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	
210A	4.30	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	
211	4.20	M-JPEG, MPEG-4	20	-	1 / 1	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	
211A	4.30	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	
211M	4.40	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	-	160x90, 160x120, 176x144, 240x135, 240x180, 320x180, 320x240, 352x288, 480x270, 480x360, 640x360, 640x480, 1280x720, 1280x960, 1280x1024	✓ / -	R1.9.5
211W	4.40	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	R1.9.5
212	4.34, 4.35	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x144, 240x180, 320x240, 480x360, 640x480	✓ / -	R1.9.0
213	4.30	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 3	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	Mic + spk + I/O via connection module only



Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
214	4.32	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	
215PTZ	4.40	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	R1.9.5
216FD	4.34	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	-	160x120, 176x144, 240x180, 320x240, 480x360, 640x480	✓ / -	
216MFD		M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	-	160x120, 176x144, 240x180, 320x240, 480x360, 640x480	✓ / -	
221	4.20	M-JPEG, MPEG-4	20	-	1 / 1	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	R1.5.4
223M	4.41	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	1 / 1	-	160x120, 176x144, 240x135, 240x180, 320x180, 320x240, 352x288, 480x270, 480x360, 640x360, 640x480, 1280x720, 1280x960, 1280x1024, 1600x900, 1600x1200	✓ / -	R1.9.0
225FD	4.31	M-JPEG, MPEG-4	20	-	1 / 1	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	
231D(+)		M-JPEG	20	-	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	- / -	

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
232D/D+ (+)	4.30	M-JPEG, MPEG-4	20	-	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	D+ MPEG can only be streamed via Multicast, R1.8.0
233D	4.40	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	R1.9.5
2100(+)	2.40	M-JPEG	10	-	1 / 1	-	320x240, 640x480	- / -	
2110(+)		M-JPEG	10	-	1 / 1	-	320x240, 640x480	- / -	
2120(+)	2.43	M-JPEG	10	-	1 / 1	-	352x288, 704x576, 352x240, 704x480	- / -	
2130(+)	2.43	M-JPEG	10	-	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 176x112, 352x240, 704x240, 704x480	- / -	
2400(+)		M-JPEG	10	-	4 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	352x288, 704x576	- / -	4 channels, QCIF only at (+) models ?
2401(+)		M-JPEG	10	-	4 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	352x288, 704x576	- / -	1 channel, QCIF only at (+) models ?

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
2411(+)	3.13	M-JPEG	10	-	1 / 1	-	176x144, 352x288, 704x576, 176x112, 352x240, 704x480	- / -	1 channel
2420(+)		M-JPEG	10	-	1 / 1	-	352x288, 704x576, 352x240, 704x480	- / -	
240Q	4.30	M-JPEG	20	-	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	4 channels, R1.9.0
241Q	4.30	M-JPEG, MPEG-4	20	-	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	4 channels
241QA	4.30	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	4 channels
241S		M-JPEG, MPEG-4	20	-	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	1 channel
241SA(+)	4.30	M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	1 channel

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
243SA		M-JPEG, MPEG-4	20	mic, spk <sup>1</sup>	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	1 channel, R1.9.0
243Q		M-JPEG, MPEG-4	20	-	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	4x1 channel, R1.10.0
247S	4.40	M-JPEG, MPEG-4	20	mic <sup>1</sup>	1 / 1	-	176x144, 352x288, 704x288, 704x576, 176x120, 352x240, 704x240, 704x480	✓ / -	1 channel, R1.9.5
292	-	M-JPEG	-	-	-	-	-	- / -	Video decoder, R1.10.0
A8004-VE	5.65.1	M-JPEG, H.264	1	mic, spk <sup>1</sup>	4/4	-	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x960	✓ / -	R4.5.5
A8004-VE	1.58.2.1	M-JPEG, H.264	1	mic, spk <sup>1</sup>	4/4	-	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x960	✓ / -	R4.6.7
A8105-E	1.58.2.1	M-JPEG, H.264	1	mic, spk <sup>1</sup>	2/2	-	160x90, 160x100, 160x120, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 480x640, 600x800, 640x360, 640x400, 640x480, 720x1280, 800x450, 800x500, 800x600, 854x480, 960x1280, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1600x1200, 1920x1080, 1920x1200	✓ / -	R4.6.7

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
F34	-	M-JPEG, H.264	1	-	-	-	480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 960x540, 1024x640, 1024x768, 1280x720, 1400x1050, 1920x1080	✓ / -	R4.6.5, 4 + 1 channel (quad view), NT Resolution 1400x1050 and 1920x1080 are only available when using a 1080P sensor module Requires a license per attached camera and for the quad view also.
F41		M-JPEG, H.264	1	mic, spk <sup>1</sup>	4/4	-	160x90, 160x100, 160x120, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1600x1200, 1920x1080, 1920x1200	✓ / -	R4.5.3
F44	5.65.1.1	M-JPEG, H.264	1	-	4/4	-	480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1920x1080	✓ / -	R4.5.4, 4 + 1 channel (quad view) Requires a license per attached camera and for the quad view also.
M1004[-W]	5.40.5	M-JPEG, H.264	1	-	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 480x360, 640x360, 640x400, 640x480, 800x600, 1024x640, 1280x720, 1280x800	✓ / -	R4.3.14/R4.4.5, digital PTZ
M1011	5.00.1	M-JPEG, MPEG-4, H.264	1	-	- / -	-	160x120, 176x144, 240x180, 320x240, 480x360, 640x480	✓ / -	R3.4.19
M1011[-W]		M-JPEG, H.264	1	-	- / -	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	R3.2.0
M1013	5.40.5	M-JPEG, H.264	1	-	-	-	320x240, 352x240, 352x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600	✓ / -	R4.3.12/R4.4.0

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M1014		M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 480x360, 640x360, 640x400, 640x480, 800x600, 1024x640, 1280x720, 1280x800	✓ / -	R4.3.14/R4.4.5, digital PTZ, NT
M1025		M-JPEG, H.264	1	-	-	-	160x100, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024, 1920x1080	✓ / -	R4.5.2
M1031-W	5.00	M-JPEG, H.264	1	mic,spk	- / -	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	R3.2.0, spk since R3.4.40
M1033[-W]	5.40.5.1	M-JPEG, H.264	1	mic,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 480x360, 640x360, 640x400, 640x480, 800x600	✓ / -	R4.3.14/R4.4.1, digital PTZ
M1034[-W]		M-JPEG, H.264	1	mic,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 480x360, 640x360, 640x400, 640x480, 800x600, 1024x640, 1280x720, 1280x800	✓ / -	R4.3.14/R4.4.5, digital PTZ, NT
M1054	5.16	M-JPEG, H.264	1	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x144, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768, 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x800	✓ / -	R3.4.19, digital PTZ, spk since R3.4.40

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M1065-LW	6.15.6	M-JPEG, H.264	1	mic <sup>1</sup> ,spk	-	-	1920x1080, 1280x960, 1280x720, 1024x768, 1024x576, 800x600, 640x480, 640x360, 352x240, 320x240	✓ / -	R4.6.9
M1103	5.09	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600	✓ / -	R3.4.37, digital PTZ
M1104	5.09	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x800	✓ / -	R3.4.37, digital PTZ
M1113	5.08.1	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x144, 240x180, 320x240, 480x360, 640x480, 800x600 160x90, 320x180, 480x270, 640x360, 800x450	✓ / -	R3.4.19, digital PTZ
M1114	5.09	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x144, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x800	✓ / -	R3.4.19, digital PTZ
M1124	5.75.2	M-JPEG, H.264	3	-	-	-	160x90, 160x100, 160x120, 176x120, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 640x400, 640x480, 704x240, 704x480, 768x576, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720	✓ / -	R4.6.2

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M1125	5.75.3.3	M-JPEG, H.264	3	-	-	-	160x90, 160x100, 160x120, 240x135, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1600x1200, 1920x1080	✓ / -	R4.6.8
M1143		M-JPEG, H.264	1	-	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 384x288, 480x360, 640x360, 640x400, 640x480, 704x480, 704x576, 768x576, 800x600	✓ / -	R4.4.8/R4.5.0, digital PTZ, NT
M1144	5.40beta18	M-JPEG, H.264	3	-	1 / 1	-	352x240, 352x288, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x800	✓ / -	R3.4.41/R4.3.8
M1145-L	5. 5.55.3.1	M-JPEG, H.264	3	-	1 / 1	-	160x90, 160x100, 160x120, 176x144, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024, 1920x1080	✓ / -	R4.5.1
M2014		M-JPEG, H.264	1	-	1 / 1	-	160x90, 160x100, 160x120, 176x120, 176x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720	✓ / -	R4.4.8/R4.5.0, NT
M2026-LE	6.15.4	M-JPEG, H.264	3	-	-	-	320x240, 352x240, 640x360, 640x480, 800x600, 1024x576, 1024x768, 1280x720, 1280x960, 1920x1080, 2560x1440*, 2688x1520*	✓ / -	R4.6.7 * the correct capture mode must be selected on the cameras web interface



Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M3004	5.40.5	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x800	✓ / -	R4.3.12/R4.4.0, digital PTZ
M3005		M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	352x240, 352x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024, 1920x1080	✓ / -	R4.3.13/R4.4.0, digital PTZ
M3006	5.40.13	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 160x120, 240x180, 320x240, 480x360, 640x480, 800x600, 024x768 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x960, 1280x1024 1600x1200, 1920x1080, 2048x1536	✓ / -	R4.3.14/R4.4.2, digital PTZ
M3007*	5.40.13	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 240x180, 320x120, 320x180, 320x240, 480x180, 480x270, 480x360, 640x240, 640x360, 640x480, 800x450, 800x600, 960x360, 1024x768, 1280x480, 1280x960, 1600x600, 1600x1200, 2048x1536, 2592x1944	✓ / -	R4.3.14/R4.4.2, digital PTZ, Panoramic camera added as a 8 port video server
M3011	5.01	M-JPEG, MPEG-4, H.264	3	-	-	-	160x120, 176x144, 240x180, 320x240, 480x360, 640x480	✓ / -	R3.3.0

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M3014		M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x100, 160x120, 176x120, 176x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x800	✓ / -	R4.4.8/R4.5.0, digital PTZ, NT
M3024		M-JPEG, H.264	1	-	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 384x288, 480x360, 640x360, 640x400, 640x480, 704x480, 704x576, 768x576, 800x600, 1024x640, 1024x768, 1280x720, 1280x800	✓ / -	R4.4.8/R4.5.0, digital PTZ, NT
M3025	5.40.5	M-JPEG, H.264	1	-	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 480x360, 640x360, 640x480, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	✓ / -	R4.4.7, digital PTZ
M3026		M-JPEG, H.264	1	-	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 240x135, 240x180, 320x180, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x480, 704x240, 704x288, 704x480, 704x576, 768x576, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2048x1536	✓ / -	R4.4.8/R4.5.0, digital PTZ, NT
M3026*	5.55.1.1	M-JPEG, H.264	1	-	1/1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768, 1280x960, 1600x1200, 2048x1536, 2592x1944	✓ / -	R4.5.1, digital PTZ, Panoramic camera added as a 8 port video server

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M3027*	5.55.1.1	M-JPEG, H.264	1	-	1/1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768, 1280x960, 1600x1200, 2048x1536, 2592x1944	✓ / -	R4.5.1, digital PTZ, Panoramic camera added as a 8 port video server
M3027*	5.75.1.1	M-JPEG, H.264	1	-	1/1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 240x135, 240x180, 320x120, 320x180, 320x240, 384x288, 480x180, 480x270, 480x360, 640x240, 640x360, 640x480, 768x288, 768x576, 800x450, 800x600, 960x360, 1024x768, 1280x480, 1280x720, 1280x960, 1600x600, 1600x1200, 1920x720, 1920x1080, 1920x1440, 2048x1536, 2560x1920, 2592x1944	✓ / -	R4.6.5, digital PTZ, Panoramic camera added as a 11 port video server. Available only over 5.75.1.1 firmware
M3027*	6.30.1	M-JPEG, H.264	1	-	1/1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 192x72, 192x144, 240x135, 240x180, 320x120, 320x180, 320x240, 384x144, 384x288, 480x180, 480x270, 480x360, 640x240, 640x360, 640x480, 704x576, 768x288, 768x576, 800x450, 800x600, 960x360, 1024x768, 1280x480, 1280x720, 1280x960, 1600x600, 1600x1200, 1920x720, 1920x1080, 1920x1440, 2048x1536, 2560x1920, 2592x1944	✓ / -	R4.6.6, digital PTZ, Panoramic camera added as a 11 port video server. Available only over 6.30.1 firmware New resolutions: 192x72, 192x144, 384x144, 704x576
M3037 *	5.75.1	M-JPEG, H.264	1	mic <sup>1</sup> ,spk	1/1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 240x180, 320x120, 320x180, 320x240, 480x180, 480x270, 480x360, 640x240, 640x360, 640x480, 800x450, 800x600, 960x360, 1024x768, 1280x480, 1280x720, 1280x960, 1600x600, 1600x1200, 1920x720, 1920x1080, 1920x1440, 2048x1536, 2592x1944	✓ / -	R4.6.2, digital PTZ, Panoramic camera added as a 8 port video server Some resolutions are only supported since R4.6.6
M3045-V	7.40.1	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 384x288, 640x360, 640x480, 704x480, 704x576, 768x576, 800x600, 1024x576, 1024x768, 1280x720, 1280x960, 1920x1080	✓ / -	R4.8.0, digital PTZ

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M3046-V	7.40.1	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 384x288, 640x360, 640x480, 704x480, 704x576, 768x576, 800x600, 1024x576, 1024x768, 1280x720, 1280x960, 1920x1080, 2560x1440, 2688x1520	✓ / -	R4.8.0, digital PTZ
M3046-V – 1.8MM	7.40.1	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 352x240, 352x288, 384x288, 640x360, 640x480, 704x480, 704x576, 768x576, 800x600, 1024x576, 1024x768, 1280x720, 1280x960, 1920x1080, 2016x1512, 2304x1296	✓ / -	R4.8.0, digital PTZ
M3047 *	7.15.2.2	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	480x360, 480x480, 640x240, 640x360, 640x480, 640x640, 720x720, 768x288, 768x576, 800x600, 960x360, 960x720, 1024x576, 1024x768, 1200x1200, 1280x360, 1280x480, 1280x720, 1280x960, 1440x1080, 1440x1440, 1600x600, 1600x1200, 1728x648, 1728x1296, 1728x1728, 1920x720, 1920x1080, 1920x1440, 1920x1920, 2048x576, 2048x1152, 2048x2048, 2304x648, 2304x1296	✓ / -	R4.7.1, digital PTZ, Panoramic camera added as a 12 port video server
M3048 *	7.15.2.2	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	480x360, 480x480, 640x240, 640x320, 640x360, 640x480, 640x640, 720x720, 768x288, 768x576, 800x600, 960x360, 960x720, 1024x576, 1024x768, 1200x1200, 1280x360, 1280x480, 1280x720, 1280x960, 1440x720, 1440x1080, 1440x1440, 1600x600, 1600x1200, 1728x648, 1728x864, 1728x1296, 1728x1728, 1920x720, 1920x1080, 1920x1440, 1920x1920, 2016x1512, 2048x576, 2048x1152, 2048x1536, 2048x2048, 2304x864, 2304x1728, 2560x720, 2560x1440, 2880x2880	✓ / -	R4.7.1, digital PTZ, Panoramic camera added as a 12 port video server
M3106-L	6.15.4	M-JPEG, H.264	3	-	-	-	2688x1520, 2560x1440, 1920x1080, 1280x960, 1280x720, 1024x768, 1024x576, 640x480, 640x360, 352x240, 320x240	✓ / -	R4.6.9

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M3113	5.12	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600	✓ / -	R3.4.37, digital PTZ
M3114	5.12	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x144, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x800	✓ / -	R3.4.19, digital PTZ
M3203		M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x480, 704x576, 768x576, 800x450, 800x500, 800x600	✓ / -	R4.4.8/R4.5.0, digital PTZ, NT
M3204		M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x100, 160x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x800	✓ / -	R3.4.19, digital PTZ
M5013	5.25.2	M-JPEG, H.264	3	mic	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 480x360, 640x480, 800x600 320x180, 480x270, 640x360, 800x450	✓ / -	R3.4.40, digital PTZ

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M5014		M-JPEG, H.264	3	mic	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x240, 480x360, 640x480, 800x600 320x180, 480x270, 640x360, 800x450, 1280x720	✓ / -	R3.4.40, digital PTZ
M7001	5.02	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 720x576, 176x120, 352x240, 704x240, 704x480, 720x480	✓ / -	1 channel, R3.3.0, PTZ support since 3.4.3
M7010	5.40.6	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	4x4 channel, R3.4.40
M7011	5.75.1	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x120, 176x144, 352x240, 352x288, 704x240, 704x288, 720x480, 720x576	✓ / -	1 channel, R4.6.1
M7014		M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	4 channel, R3.4.41/R4.3.8, NT
M7016		M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	4x4 channel, R4.4.8/R4.5.0, NT

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P1204	5.40.12	M-JPEG, H.264	3	-	1 / 1	-	800x600,640x480,480x360, 320x240, 1280x720,800x450, 640x360,480x270,320x180	✓ / -	R4.3.14/R4.4.2
P1214		M-JPEG, H.264	3	-	1 / 1	-	160x90, 160x100, 160x120, 176x120, 176x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720	✓ / -	R4.4.8/R4.5.0, NT
P1244	6.15.1.1	M-JPEG, H.264	3	-	-	-	480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720	✓ / -	R4.6.9
P1254	6.15.1.1	M-JPEG, H.264	3	-	-	-	480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720	✓ / -	R4.6.9
P1264	6.15.1.1	M-JPEG, H.264	3	-	-	-	480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720	✓ / -	R4.6.9
P1311	5.01	M-JPEG, MPEG-4, H.264	3	mic <sup>1</sup> ,spk	1 / 1	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	R3.3.0, spk since R3.4.40
P1343	5.06	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions	160x120, 176x144, 240x180, 320x240, 480x360, 640x480,800x600 160x90, 176x120, 320x180, 480x270, 640x360, 800x450	✓ / -	R3.4.8, digital PTZ, spk since R3.4.40

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P1344	5.06	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions	160x120, 176x144, 240x180, 320x240, 480x360, 640x480,800x600, 1024x768 160x90, 176x120, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x800	✓ / -	R3.4.8, digital PTZ, spk since R3.4.40
P1346	5.06	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x144, 240x180, 320x240, 480x360, 640x480,800x600, 1024x768, 1280x1024, 1600x1200, 2048x1536 160x90, 176x120, 320x180, 480x270, 640x360, 800x450, 1280x720, 1920x1080	✓ / -	R3.4.13, digital PTZ, spk since R3.4.40
P1347	5.11	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 160x120, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x960, 1280x1024 1600x1200, 1920x1080, 2048x1536, 2560x1920	✓ / -	R3.4.31, spk since R3.4.40, digital PTZ since R4.3.9/R4.4.0
P1353	5.40.14	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	800x600,640x480,480x360,320x240, 240x180,160x120,800x450,640x360, 480x270,320x180,160x90,176x144	✓ / -	R4.3.14/R4.4.2, digital PTZ
P1354		M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions	160x90, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x800, 1280x960	✓ / -	R4.3.13/R4.4.4, digital PTZ



Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P1355		M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions	160x90, 160x100, 160x120, 176x120, 176x144, 240x135, 240x180, 320x180, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x600, 1024x768, 1280x800, 1280x960, 1920x1080	✓ / -	R4.4.8/R4.5.0, digital PTZ, NT
P1357		M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions	160x90, 160x120, 176x120, 176x144, 240x135, 240x180, 320x180, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x480, 704x240, 704x288, 704x480, 704x576, 768x576, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2048x1536, 2560x1440, 2560x1920, 2592x1944	✓ / -	R4.4.8/R4.5.0, digital PTZ, NT
P1365	5.75.2	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1/1		160x90, 160x100, 160x120, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1600x1200, 1920x1080, 1920x1200	✓ / -	R4.6.1
P1405-LE MkII	6.35.2.3	M-JPEG, H.264	3	-	-	-	160x90, 160x100, 160x120, 240x135, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1920x1080	✓ / -	R4.6.9
P1425-LE		M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	zoom	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x800, 1280x960, 1920x1080	✓ / -	R4.5.3
P1427-LE		M-JPEG, H.264	3	-	1 / 1	zoom	160x90, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2048x1536, 2592x1944	✓ / -	R4.5.3

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P1428-E		M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	zoom	320x240, 352x240, 352x288, 640x360, 640x480, 800x600, 1024x768, 1280x720, 1920x1080, 3840x2160	✓ / -	R4.5.3
P1435-LE	5.85.4	M-JPEG, H.264	3	-	1 / 1	zoom	160x90, 160x100, 160x120, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1600x1200, 1920x1080	✓ / -	R4.6.3
P3214-VE	6.50.1.1	M-JPEG, H.264	3	-	1 / 1	zoom	80x50, 160x90, 160x120, 176x120, 176x144, 192x144, 240x135, 240x180, 320x180, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x600, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050	✓ / -	R4.6.9
P3215		M-JPEG, H.264	3	-	-	zoom	160x90, 160x120, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1920x1080	✓ / -	R4.5.2
P3224-LV	6.55.2	M-JPEG, H.264	3	-	-	zoom	80x50, 160x90, 160x100, 160x120, 176x120, 176x144, 192x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1280x960	✓ / -	R4.6.9
P3225-LVE	5.75.3	M-JPEG, H.264	3	-	-	zoom	160x90, 160x100, 160x120, 176x120, 176x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1600x1200, 1920x1080, 1920x1200	✓ / -	R4.6.2

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P3227	7.15.1.2	M-JPEG, H.264	3	-	-	-	80x50, 80x60, 96x64, 160x90, 160x100, 160x120, 176x120, 176x144, 192x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 854x480, 960x540, 960x720, 1024x576, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1440x900, 1440x1080, 1600x900, 1600x1200, 1728x1296, 1920x1080, 1920x1200, 1920x1440, 2048x1152, 2048x1536, 2304x1296, 2304x1728, 2560x1440, 2560x1600, 2592x1458, 2816x1584, 3072x1728	✓ / -	R4.7.1 the correct capture mode must be selected on the cameras web interface
P3228	7.40.1	M-JPEG, H.264	3	-	-	-	80x50, 80x60, 96x64, 160x90, 160x100, 160x120, 176x120, 176x144, 192x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 854x480, 960x540, 960x720, 1024x576, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1440x900, 1440x1080, 1600x900, 1600x1200, 1728x1296, 1920x1080, 1920x1200, 1920x1440, 2048x1152, 2048x1536, 2304x1296, 2304x1728, 2432x1824, 2560x1440, 2560x1600, 2560x1920, 2592x1458, 2592x1944, 2816x1584, 3072x1728, 3840x2160	✓ / -	R4.7.1 the correct capture mode must be selected on the cameras web interface
P3301	5.01	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	-	160x120, 240x180, 320x240, 480x360, 640x480	✓ / -	R3.1.0, spk since R3.4.40
P3304	5.12	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x144, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x800	✓ / -	R3.4.20, digital PTZ, spk since R3.4.40

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P3343	5.07	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions	160x120, 240x180, 320x240, 480x360, 640x480,800x600 160x90, 320x180, 480x270, 640x360, 800x450, 176x144, 176x120	✓ / -	R3.4.14, digital PTZ, spk since R3.4.40
P3344	5.06	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions	160x120, 240x180, 320x240, 480x360, 640x480,800x600, 1024x768 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x800	✓ / -	R3.4.3, digital PTZ, spk since R3.4.40
P3346	5.20	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 160x120, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x960, 1280x1024 1920x1080, 1600x1200, 2048x1536	✓ / -	R3.4.30, digital PTZ, spk since R3.4.40
P3353		M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 240x135, 240x180, 320x180, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x480, 704x240, 704x288, 704x480, 704x576, 768x576, 800x450, 800x600	✓ / -	R4.4.8/R4.5.0, digital PTZ, NT
P3354	5.40beta18	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960	✓ / -	R3.4.41/R4.3.8, digital PTZ pan-tilt, direct PT, stored positions, continuous PT since R4.3.12/R4.4.0

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P3363	5.40.10.2	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600	✓ / -	R4.3.12/R4.4.0, digital PTZ
P3364	5.40.10.2	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960	✓ / -	R4.3.12/R4.4.0, digital PTZ, audio since R4.4.8
P3365	5.40.10.2	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	-	zoom	160x90, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960	✓ / -	R4.5.2
P3367	5.40.3	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 160x120, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x960, 1280x1024, 1920x1080, 1600x1200, 2048x1536, 2592x1944	✓ / -	R3.4.40
P3374	7.25.1	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	80x50, 160x90, 160x100, 160x120, 176x120, 176x144, 192x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720	✓ / -	R4.8.0, digital PTZ

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P3375	7.25.1	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	80x50, 160x90, 160x100, 160x120, 176x120, 176x144, 192x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1920x1080	✓ / -	R4.8.0, digital PTZ
P3384	5.40.11	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x100, 160x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x960	✓ / -	R4.3.14/R4.4.2, digital PTZ
P3707-PE	5.95.1	M-JPEG, H.264	10	-	-	-	160x90, 160x120, 240x180, 320x180, 320x240, 480x360, 640x360, 640x480, 800x450, 800x600, 854x480, 1024x768, 1280x720, 1280x960, 1400x1050, 1920x1080	✓ / -	R4.6.6 - 4 port video server R4.6.8 – 5 port video server (including quad view)
P3905-R	6.40.1.1	M-JPEG, H.264	3	-	-	-	160x90, 160x120, 240x180, 320x180, 320x240, 480x360, 640x360, 640x480, 800x450, 800x600, 854x480, 1024x768, 1280x720, 1280x960, 1400x1050, 1920x1080	✓ / -	R4.6.9
P5414	5.55.1	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	240x135, 480x270, 800x450, 1280x720	✓ / -	R4.4.8
P5415		M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	240x135, 480x270, 800x450, 1280x720	✓ / -	R4.4.8/R4.5.0, NT

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P5512	5.25	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x120, 176x144, 352x240, 352x288, 704x240, 704x576, 704x480	✓ / -	R3.4.39, spk since R3.4.40
P5515	5.85.1	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x180, 480x270, 800x450, 1280x720, 1920x1080	✓ / -	R4.6.2
P5522	5.25	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	R3.4.39, spk since R3.4.40, NTSC Resolutions since R4.3.12/R4.4.0
P5532	5.15	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	R3.4.22, spk since R3.4.40, NTSC Resolutions since R4.3.12/R4.4.0
P5534	5.15.1	M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x180, 480x270, 800x450, 1280x720	✓ / -	R3.4.15, spk since R3.4.40

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P5544		M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x180, 480x270, 800x450, 1280x720	✓ / -	R4.3.12/R4.4.0
P5624-E MkII	6.20.1.3	M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x180, 480x270, 800x450, 1280x720	✓ / -	R4.6.8
P5635-E	5.75.1	M-JPEG, H.264	3	mic <sup>1</sup> , spk	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x100, 160x120, 176x120, 176x144, 240x135, 240x180, 320x180, 320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x600, 1024x576, 1024x640, 1024x768, 1280x720, 1280x960, 1400x1050, 1920x1080	✓ / -	R4.6.1
P5635-E MkII	6.35.1	M-JPEG, H.264	3	mic <sup>1</sup> , spk	4 / 4	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 192x144, 240x180, 320x180, 320x200, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x600, 1024x576, 1024x768, 1280x720, 1280x960, 1920x1080	✓ / -	R4.6.7
P7210		M-JPEG, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	4x4 channel, R3.4.41/R4.3.8, NT



Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
P7214	5.40.6	M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	4 channel, R3.4.40
P7216		M-JPEG, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	4x4 channel, R4.4.8/R4.5.0, Audio since R4.4.9/R4.5.1
P7224		M-JPEG, H.264	1	mic <sup>1</sup> , spk	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x120, 176x144, 352x240, 352x288, 640x480, 704x240, 704x288, 704x480, 704x576, 720x480, 720x576, 1024x768, 1280x960	✓ / -	4 channel, R4.4.8/R4.5.0, NT
P8513		M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600	✓ / -	R4.3.13/R4.4.0, digital PTZ, NT
P8514		M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x144, 240x180, 320x240, 480x360, 640x480, 800x600, 1024x768, 160x90, 320x180, 480x270, 640x360, 800x450, 1280x720, 1280x800	✓ / -	R4.3.13/R4.4.0, digital PTZ, NT
Q1602	5.40.3	M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	-	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 720x480, 720x576, 768x576	✓ / -	R3.4.40

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
Q1604	5.40.3.1	M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	-	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 720x480, 720x576, 768x576, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x960	✓ / -	CP V1
Q1614		M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	-	160x90, 160x100, 160x120, 176x120, 176x144, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 720x480, 720x576, 768x576, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x960	✓ / -	R4.4.8/R4.5.0, NT
Q1615		M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	-	160x90, 160x100, 160x120, 240x180, 320x180, 320x200, 352x240, 352x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1920x1080, 1920x1200	✓ / -	R4.5.3
Q1615 MkII	6.25.2.1	M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	-	160x90, 160x120, 176x120, 176x144, 192x144, 240x135, 240x180, 320x180, 320x240, 352x240, 384x288, 480x270, 480x360, 640x360, 640x480, 704x480, 704x576, 768x576, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1400x1050, 1600x1200, 1920x1080	✓ / -	R4.6.7
Q1635	5.55.6	M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	-	160x90, 160x100, 160x120, 240x180, 320x180, 320x200, 320x240, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1600x1200, 1920x1080, 1920x1200	✓ / -	R4.5.4
Q1659	6.55.1	M-JPEG, H.264	3	mic <sup>1</sup> , spk	1 / 1	-	320x240, 480x320, 480x360, 640x360, 640x480, 720x480, 800x600, 854x480, 960x640, 1024x768, 1152x768, 1280x720, 1620x1080, 1920x1080, 2560x1440, 3240x2160, 3840x2160, 4080x2720, 5472x3648*	✓ / -	R4.6.9 *the correct capture mode must be selected on the cameras web interface

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
Q1755	5.02	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	zoom	320x180, 480x270, 800x450, 1280x720, 1920x1080	✓ / -	R3.3.0, spk since R3.4.40
Q1765	5.55.1	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	zoom	160x90, 160x100, 160x120, 176x144, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x800, 1280x960, 1920x1080	✓ / -	R4.4.8
Q1775	5.85.1	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	1 / 1	zoom	160x90, 160x120, 240x180, 320x180, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x500, 800x600, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1920x1080	✓ / -	R4.6.3
Q1910-E	5.11	M-JPEG, H.264	3	mic <sup>1</sup>	1 / 1	-	160x120, 176x144, 240x180, 320x240, 480x360, 640x480, 720x576	✓ / -	R3.4.19, digital PTZ
Q1921	5.11.1	M-JPEG, H.264	3	mic <sup>1</sup>	2 / 2	-	160x120, 160x128, 176x120, 176x144, 240x180, 320x240, 320x256, 384x288, 480x360, 640x480, 640x512, 720x480, 720x576, 768x576	✓ / -	R3.4.37
Q1922		M-JPEG, H.264	3	mic <sup>1</sup> ,spk	2 / 2	-	160x120, 160x128, 176x120, 176x144, 240x135, 240x180, 320x240, 320x256, 352x240, 352x288, 384x288, 480x360, 640x480, 640x512, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x600	✓ / -	R4.4.8/R4.5.0, NT
Q1942-E		M-JPEG, H.264	3	mic <sup>1</sup> ,spk	2 / 2	-	80x60, 160x120, 160x128, 176x120, 176x144, 192x144, 240x135, 240x180, 320x240, 320x256, 352x240, 352x288, 384x288, 480x360, 640x480, 640x512, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x600	✓ / -	R4.6.9
Q2901	6.50.1	M-JPEG, H.264	3	mic <sup>1</sup> ,spk	2 / 2	-	80x60, 160x120, 160x128, 176x120, 176x144, 192x144, 240x135, 240x180, 320x240, 320x256, 336x256, 352x240, 352x288, 384x288, 480x360, 640x480, 640x512, 672x512, 720x576	✓ / -	R4.6.9

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
Q3505		M-JPEG, H.264	3	mic <sup>1</sup> ,spk	2 / 2	zoom	160x90, 160x100, 160x120, 240x180, 320x180, 320x200, 352x240, 352x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 800x450, 800x500, 800x600, 854x480, 1024x640, 1024x768, 1280x720, 1280x800, 1280x960, 1400x1050, 1920x1080, 1920x1200	✓ / -	R4.5.3
Q3709-PVE	5.75.1	M-JPEG, H.264	3	-	-	-	320x240, 480x360, 640x360, 640x480, 768x576, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1600x1200, 1920x1080, 3840x2160, 3840x2880	✓ / -	R4.6.2, 3 sensor video server on 3 different IP addresses
Q6000-E	5.65.1	M-JPEG, H.264	3	-	-	-	480x270, 640x480, 800x450, 800x600, 960x720, 1280x720, 1280x960, 1440x1080, 1920x1080, 1920x1440	✓ / -	R4.5.4
Q6032-E	5.06	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 176x120, 352x240, 704x480	✓ / -	R3.4.3
Q6034	5.15	M-JPEG, H.264	3	mic <sup>1</sup> , spk	4 / 0	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x180, 480x270, 800x450, 1280x720	✓ / -	R3.4.36, spk since R3.4.40
Q6035	5.25	M-JPEG, H.264	3	-	0 / 0	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x180, 480x270, 800x450, 1280x720, 1920x1080	✓ / -	R3.4.37

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
Q6042		M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x120, 176x144, 320x240, 352x240, 352x288, 384x288, 640x240, 704x240, 704x288, 704x480, 704x576, 720x480, 720x576, 768x288, 768x576	✓ / -	R4.4.8/R4.5.0, NT
Q6042-E		M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x120, 176x120, 176x144, 320x240, 352x240, 352x288, 384x288, 640x240, 704x240, 704x288, 704x480, 704x576, 720x480, 720x576, 768x288, 768x576	✓ / -	R4.5.1
Q6044		M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x600, 1024x576, 1024x768, 1280x720	✓ / -	R4.4.8/R4.5.0, NT
Q6045		M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x600, 1024x576, 1024x768, 1280x720, 1280x960, 1920x1080	✓ / -	R4.4.8/R4.5.0, NT
Q6045-E MK II	5.55.6	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x180, 480x270, 800x450, 1280x720, 1920x1080	✓ / -	R4.5.4
Q6055	6.25.1.1	M-JPEG, H.264	3	mic <sup>1</sup> , spk	4 / 0	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x180, 480x270, 800x450, 1280x720, 1920x1080	✓ / -	R4.6.7

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
Q6115-E	5.65.2	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 240x180, 320x180, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x600, 1024x576, 1024x768, 1280x720, 1280x960, 1920x1080	✓ / -	R4.6.1
Q6128-E	5.85.2.1	M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	320x200, 320x240, 352x240, 352x288, 384x288, 480x270, 480x300, 480x360, 640x360, 640x400, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x500, 800x600, 854x480, 1024x576, 1024x640, 1024x768, 1280x720, 1280x960, 1280x1024, 1440x1080, 1920x1080, 3840x2160	✓ / -	R4.6.6
Q7401	5.01	M-JPEG, H.264	3	mic <sup>1</sup>	4 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 720x576, 176x120, 352x240, 704x240, 704x480, 720x480	✓ / -	1 channel, R3.0.0, PTZ support since R3.3.0
Q7404	5.02	M-JPEG, H.264	3	mic <sup>1</sup>	4 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	4 channel, R3.4.3
Q7406	5.01	M-JPEG, H.264	3	-	6 / 1	-	176x144, 352x288, 704x288, 704x576, 720x576, 176x120, 352x240, 704x240, 704x480, 720x480	✓ / -	6 channel, R3.1.0
Q7411	5.40.13.1	M-JPEG, H.264	3	-	1 / 1	-	176x144, 352x288, 704x288, 704x576, 720x576, 176x120, 352x240, 704x240, 704x480, 720x480	✓ / -	1 channel, R4.3.14/R4.4.2

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
Q7414		M-JPEG, H.264	3	mic <sup>1</sup>	4 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	4 channel, R4.3.13/R4.4.0, NT
Q7424	5.40.10	M-JPEG, H.264	3	mic <sup>1</sup>	4 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x576, 720x576, 176x120, 352x240, 704x480, 720x480	✓ / -	4 channel, R4.3.13/R4.4.0
Q7436		M-JPEG, H.264	3	-	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576, 720x576, 176x120, 352x240, 704x240, 704x480, 720x480	✓ / -	6 channel, R4.4.8/R4.5.0, NT
V5915		M-JPEG, H.264	3	mic <sup>1</sup> , spk	1/1	pan-tilt, zoom, direct PT, stored positions, continuous PT	160x90, 160x120, 176x120, 176x144, 192x144, 240x180, 320x180, 320x240, 352x240, 352x288, 384x288, 480x270, 480x360, 640x360, 640x480, 704x240, 704x288, 704x480, 704x576, 720x576, 768x576, 800x450, 800x600, 1024x576, 1024x768, 1280x720, 1280x960, 1920x1080	✓ / -	R4.8.0

**Note:**

Using HTTPS encryption is not supported when using a custom HTTP port *not* configured on the camera (e.g.: via port forwarding).

On some digital PTZ cameras (e.g. P3343, P3344) the maximum achievable resolution depends on the current zoom value. This behaviour can influence your image archive.

The I/O and audio feature of Q6034 haven't been tested.

The actual resolution received from the cameras may differ from the selected one cause certain camera settings (for example aspect ratio correction) might affect it.

\*This single lens camera is added as a video server and the different views (panorama, overview, etc.) are available via the port selected in Observer's camera admin. The sequence of the available views are represented in the same order as on the camera's website.



## 2.8 Basler

[www.baslerweb.com](http://www.baslerweb.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
BIP-640C		M-JPEG, MPEG-4, H.264	1	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.2.0
BIP-1000C	BIP/2008-11-27 21:01:00	M-JPEG, MPEG-4, H.264	1	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.1.0, MPEG-4 and H.264 since 3.2.0 I/O support from 3.4.24
BIP-1000C-DN		M-JPEG, MPEG-4, H.264	1	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.4.20
BIP2-1280C-DN	3.3.1	M-JPEG, MPEG-4, H.264	1	-	3	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.4.40
BIP-1300C		M-JPEG, MPEG-4, H.264	1	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.2.0
BIP-1300C-DN	BIP-D1300c-dn- 1.6-1	M-JPEG, MPEG-4, H.264	1	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.4.20

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
BIP-1600C	BIP/2008-11-27 21:01:00	M-JPEG, MPEG-4, H.264	1	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.1.0, MPEG-4 and H.264 since 3.2.0 I/O support from 3.4.24
BIP2-1600C-DN	BIP2-3.0.1	M-JPEG, MPEG-4, H.264	1	-	3	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.4.40
BIP2-1920C		M-JPEG, MPEG-4, H.264	1	-	3	-	Crop window (Cw) ,Cw/2, Cw/4	- / -	R4.3.13/R4.4.0, NT
BIP2-1920C-DN	3.9.0	M-JPEG, MPEG-4, H.264	1	-	3	-	Crop window (Cw) ,Cw/2, Cw/4	- / -	R4.3.13/R4.4.0
BIP2-D1920C-DN		M-JPEG, MPEG-4, H.264	1	-	2	-	Crop window (Cw) ,Cw/2, Cw/4	- / -	R3.4.40
BIP2-2500C-DN		M-JPEG, MPEG-4, H.264	1	-	3	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.4.40

## 2.9 Bosch

[www.boschsecurity.com](http://www.boschsecurity.com) (special restrictions for multi-streaming apply, please see *Multi streaming from the camera* on page 5).

Device	Tested firmware	Stream formats	M-JPEG	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
NBC-255	27500400	M-JPEG, H.264	1	mic	-	-	320x240, 640x480	- / -	R3.4.9, H.264 since 3.4.10, audio since 3.4.11
NUC-51022-F2	5.92.0090	M-JPEG, H.264	1	-	-	-	256x144, 352x240, 512x288, 640x480, 768x432, 1280x720, 1920x1080	- / -	R4.5.2
NTI-50022-V3	26510590	M-JPEG, H.264	1	mic	1/1	-	256x144, 352x240, 512x288, 640x480, 768x432, 1280x720	- / -	R4.5.2
VG4	19500410	M-JPEG, H.264	1	-	-	pan-tilt, zoom, stored positions, continuous PT	176x144, 352x288, 704x288, 704x576 176x120, 352x240, 704x480, 704x240	- / -	R3.4.14, PTZ since 3.4.16
XFM4	43500400	M-JPEG	1	-	-	-	176x144, 352x288, 704x288, 704x576 176x120, 352x240, 704x480, 704x240	- / -	R3.4.9, four port server
NBN-733V-IP	16500585	M-JPEG, H.264	1	mic	2/1	-	256x144, 352x240, 512x288, 640x480, 768x432, 1280x720	- / -	R4.5.1
NIN-50051-V3	16500585	M-JPEG, H.264	1	mic	-	-	256x144, 640x480, 1024x768, 1280x720, 1440x1080, 2592x1944	- / -	R4.5.2
NIN-932-V03IPS	16500585	M-JPEG, H.264	1	mic	-	-	256x144, 352x240, 512x288, 640x480, 768x432, 1280x720, 1920x1080	- / -	R4.5.2

Device	Tested firmware	Stream formats	M-JPEG	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
NIN-733-V3IP	16500585	M-JPEG, H.264	1	mic	2/1	-	256x144, 512x288, 768x432, 1280x720	- / -	R4.5.1
NIN-733-V03IPS	16500585	M-JPEG, H.264	1	mic	2/1	-	256x144, 352x240, 512x288, 640x480, 768x432, 1280x720	- / -	R4.5.2
NUC-50022-F2	73500580	M-JPEG, H.264	1	-	-	-	256x144, 352x240, 512x288, 640x480, 768x432, 1280x720, 1920x1080	- / -	R4.5.1
VG5-7220-EPC4	75500580	M-JPEG, H.264	1	mic	7/4	pan-tilt, zoom, stored positions, continuous PT	256x144, 352x240, 512x288, 640x480, 768x432, 1280x720, 1920x1080	- / -	R4.5.1

## 2.10 Brickcom

[www.brickcom.co.uk.com](http://www.brickcom.co.uk.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
CB-100Ap	v3.1.0.0	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x176, 320x192, 320x240, 640x352, 640x400, 640x480, 1280x720, 1280x800	- / -	R3.4.36
FB-100Ap	v3.1.0.0	M-JPEG, MPEG-4, H.264	1	mic	1 / 1	-	320x176, 320x192, 320x240, 640x352, 640x400, 640x480, 1280x720, 1280x800	- / -	R3.4.36
FB-130Np	v3.1.0.0	M-JPEG, MPEG-4, H.264	1	mic	1 / 1	-	320x176, 320x240, 320x256 640x352, 640x480, 640x512 1280x720, 1280x1024	- / -	R3.4.36
FD-100Ap	v3.1.0.0	M-JPEG, MPEG-4, H.264	1	mic	1 / 1	-	320x192, 640x400, 1280x800	- / -	R3.4.36
MD-100Ap	v3.1.0.0	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x176, 320x192, 320x240, 640x352, 640x400, 640x480, 1280x720, 1280x800	- / -	R3.4.36
OB-100Ap	v3.1.0.0	M-JPEG, MPEG-4, H.264	1	mic	1 / 1	-	320x192, 640x400, 1280x800	- / -	R3.4.36

<b>Device</b>	<b>Tested firmware</b>	<b>Stream formats</b>	<b>M-JPEG streams</b>	<b>Audio</b>	<b>I/O</b>	<b>PTZ</b>	<b>Resolutions</b>	<b>FTP/HTTP</b>	<b>Comment and supported since release</b>
OSD-040E	v3.1.0.0	M-JPEG, MPEG-4, H.264	1	mic	1 / 1	pan-tilt, zoom, direct PT, stored positions, continuous PT	352x288, 352x240, 720x480, 720x576	- / -	R3.4.36
VD-130Ap	v3.1.0.0	M-JPEG, MPEG-4, H.264	1	mic	1 / 1	-	320x176, 320x240, 320x256 640x352, 640x480, 640x512 1280x720, 1280x1024	- / -	R3.4.36

## 2.11 Canon

[www.canon.com](http://www.canon.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VB-C60	1.1.0	M-JPEG, MPEG-4	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	160x120, 320x240, 640x480	- / -	R3.4.37, MPEG-4 since 3.4.39, I/O and audio since R3.4.41/R4.3.8, WebView*
VB-C300PA	1.1.0	M-JPEG	1	-	-	pan-tilt, zoom, stored positions, continuous PT	160x120, 320x240, 640x480	- / -	R3.4.38, WebView*
VB-C500D	1.1.0	M-JPEG, MPEG-4	1	-	2 / 2	-	160x120, 320x240, 640x480	- / -	R3.4.38, MPEG-4 since 3.4.39, I/O since R3.4.41/R4.3.8
VB-C500VD	1.1.0	M-JPEG, MPEG-4	1	-	2 / 2	-	160x120, 320x240, 640x480	- / -	R3.4.38, MPEG-4 since 3.4.39, I/O since R3.4.41/R4.3.8 WebView*
VB-H41		M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x240, 480x270, 960x540, 1920x1080	- / -	R4.4.8, NT
VB-H41B	1.0.0	M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x240, 480x270, 960x540, 1920x1080	- / -	R4.4.8

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VB-H43		M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.5.3
VB-H43		M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, WebView*
VB-H610D		M-JPEG, H.264	1	mic	2 / 2	-	320x240, 480x270, 960x540, 1920x1080	- / -	R4.4.8, NT
VB-H610VE		M-JPEG, H.264	1	mic	2 / 2	-	320x240, 480x270, 960x540, 1920x1080	- / -	R4.4.8, NT
VB-H630D		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.5.3
VB-H630D		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, WebView*
VB-H630VE		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.5.3
VB-H630VE		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, WebView*
VB-H710F	1.1.0	M-JPEG, H.264	1	mic	2 / 2	-	320x240, 480x270, 960x540, 1920x1080	- / -	R4.4.8



Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VB-H730F		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.5.3
VB-H730F		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, WebView*
VB-M40	1.0.1	M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	160x120, 320x240, 640x480, 1280x960	- / -	R3.4.38, PTZ since 3.4.40, I/O and audio since R3.4.41/R4.3.8 WebView*
VB-M42		M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.5.3
VB-M42		M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.3, WebView*
VB-M50B		M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.6, WebView*
VB-M600D	1.0.2	M-JPEG, H.264	1	mic	2 / 2	-	160x120, 320x240, 640x480, 1280x960	- / -	R3.4.41/R4.3.8, WebView*
VB-M600VE	1.0.2	M-JPEG, H.264	1	mic	2 / 2	-	160x120, 320x240, 640x480, 1280x960	- / -	R3.4.41/R4.3.8, WebView*

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VB-M620D		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.5.3
VB-M620D		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.3, WebView*
VB-M620VE		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.5.3
VB-M620VE		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.3, WebView*
VB-M640V	1.0.0	M-JPEG, H.264	1	-	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.1, NT, WebView*
VB-M640VE	1.0.0	M-JPEG, H.264	1	-	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.1, NT, WebView*
VB-M641V	1.0.0	M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.5.5, WebView*
VB-M641VE	1.0.0	M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.5.5, WebView*
VB-M700F	1.0.2	M-JPEG, H.264	1	mic	2 / 2	-	160x120, 320x240, 640x480, 1280x960	- / -	R3.4.41/R4.3.8, WebView*
VB-M720F		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.5.3

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VB-M720F		M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.3, WebView*
VB-M740E	1.0.0	M-JPEG, H.264	1	-	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.1, WebView*
VB-M741LE	1.0.0	M-JPEG, H.264	1	mic	2 / 2	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.5.5, WebView*
VB-R10VE	1.0.0	M-JPEG, H.264	1	-	-	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.1, NT, WebView*
VB-R11	1.0.0	M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.5.5, WebView*
VB-R11VE	1.0.0	M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.1, NT, WebView*
VB-R13	1.0.0	M-JPEG, H.264	1	mic	2 / 2	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.6.6, WebView*
VB-S30D	1.0.0	M-JPEG, H.264	1	mic	1 / 1	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.4.8

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VB-S30D	1.0.0	M-JPEG, H.264	1	mic	1 / 1	pan-tilt, zoom, stored positions, continuous PT	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, WebView*
VB-S31D		M-JPEG, H.264	1	mic	1 / 1	pan-tilt, stored positions, continuous PT	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.4.8, NT
VB-S31D		M-JPEG, H.264	1	mic	1 / 1	pan-tilt, stored positions, continuous PT	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, WebView*
VB-S800D	1.0.0	M-JPEG, H.264	1	mic	1 / 1	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.4.8
VB-S800D	1.0.0	M-JPEG, H.264	1	mic	1 / 1	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, WebView*
VB-S805D	1.0.0	M-JPEG, H.264	1	mic	1 / 1	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960	- / -	R4.5.2
VB-S805D	1.0.0	M-JPEG, H.264	1	mic	1 / 1	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960	- / -	R4.6.3, WebView*
VB-S900F		M-JPEG, H.264	1	mic	1 / 1	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.4.8, NT

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VB-S900F		M-JPEG, H.264	1	mic	1 / 1	-	320x180, 320x240, 480x270, 640x360, 640x480, 960x540, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, WebView*
VB-S905F		M-JPEG, H.264	1	mic	1 / 1	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.5.2
VB-S905F		M-JPEG, H.264	1	mic	1 / 1	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.3, WebView*

**Note:**

- For C and M series it is not possible to change any MPEG-4, H264 stream setting and audio enabling from Observer, it must be set on the camera's own page.
- NT – not tested
- \*Driver is using WebView API
- Some cameras has more than one video size sets what's selection is handled dynamically by Observer. If "Use these settings" are disabled in both encoding, no changing will be carried out on the unit, only requesting a stream what has been defined on the camera's web interface.

## 2.12 Cellinx

[www.cellinx.co.kr](http://www.cellinx.co.kr)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
MR310	MR310 2.0 Build at 2011-05-11	M-JPEG, H.264	1	mic	-	-	160x120, 176x120, 176x144, 320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 720x480, 720x576	-/-	R3.4.32, MJPEG and audio since 3.4.36

### Note:

- MR310 camera's supported Resolutions depends on the firmware, so it is possible that some of these Resolutions can't be applied on the camera.
- MR310 camera must have firmware version MR310 2.0 Build at 2011-05-11 or newer in order to work with Observer.

**2.13 CNB**<http://www.cnbtec.com>

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
IPM3063N	XNET.A1-1.1.10.126	MJPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, continuous PT	352x240, 352x288, 704x480, 704x576	- / -	R3.4.33

## 2.14 D-Link

<http://www.dlink.com>

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
DCS-2130	1.00.00	MJPEG, MPEG-4, H.264	1	mic	1 / 1	-	176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x800	- / -	R4.5.1
DCS-2210	1.10.02_onvif_test	MJPEG, MPEG-4, H.264	1	mic	1 / 1	-	176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1440x1080, 1920x1080	- / -	R4.3.14/R4.4.4, Rev A1
DCS-2230	1.00.02	MJPEG, MPEG-4, H.264	1	mic	1 / 1	-	176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1440x1080, 1920x1080	- / -	R4.3.14/R4.4.4, Rev A1
DCS-3112	1.00.00	MJPEG, MPEG-4, H.264	1	mic	2 / 1	-	176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024	- / -	R4.3.14/R4.4.4, Rev A1
DCS-3710	2.01.01	MJPEG, MPEG-4, H.264	1	mic	2 / 1	-	176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024	- / -	R4.3.14/R4.4.4, Rev B1
DCS-3716	1.00.00	MJPEG, MPEG-4, H.264	1	mic	2 / 1	-	176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1600x1200, 1920x1080, 2048x1536	- / -	R4.3.14/R4.4.4, Rev A1



Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
DCS-4602 EV	1.01.02	MJPEG, H.264	1	-	-	-	320x176, 320x240, 480x272, 480x352, 640x360, 640x480, 800x448, 800x592, 960x720, 1024x768, 1280x720, 1280x960, 1440x1080, 1920x1080	- / -	R4.6.1 does not support dual stream
DCS-4701E	1.01.02	MJPEG, H.264	1	-	-	-	320x176, 320x240, 480x272, 480x352, 640x360, 640x480, 800x448, 800x592, 960x720, 1280x720	- / -	R4.6.1 does not support dual stream
DCS-6113	1.10	MJPEG, MPEG-4, H.264	1	-	1 / 1	-	176x120, 176x144, 384x216, 640x360, 1280x720, 1360x768, 1600x904, 1920x1080	- / -	R4.3.14/R4.4.4, Rev A1
DCS-6314	1.00.00	MJPEG, MPEG-4, H.264	1	mic	1 / 1	-	176x120, 176x144, 320x176, 320x240, 480x270, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1440x1080, 1920x1080	- / -	R4.5.1
DCS-6511	1.00.04	MJPEG, MPEG-4, H.264	1	mic	1 / 1	-	160x120, 320x240, 640x480, 1280x720, 1280x1024	- / -	R4.3.14/R4.4.4, Rev A1
DCS-6616	2.00.02	MJPEG, MPEG-4, H.264	1	mic	8 / 1	pan-tilt, zoom, stored positions	176x120, 176x144, 352x288, 352x240, 720x576, 720x480	- / -	R4.3.14/R4.4.4, Rev A1
DCS-6815	2.00.02	MJPEG, MPEG-4, H.264	1	mic	8 / 1	pan-tilt, zoom, continuous PT, stored positions	176x120, 176x144, 352x288, 352x240, 720x576, 720x480	- / -	R4.3.14/R4.4.5, Rev B1, continuous PT since 4.4.8/4.5.0

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
DCS-6915	V1.10.04	MJPEG, H.264	1	mic	4 / 2	pan-tilt, zoom, continuous PT, stored positions, direct PT	352x240, 352x288, 640x480, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080	- / -	R4.4.9/R4.5.0, Rev A2
DCS-7110	1.20	MJPEG, MPEG-4, H.264	1	-	1 / 1	-	320x200, 640x400, 1280x800	- / -	R4.3.14/R4.4.4, Rev A3
DCS-7413	1.00.02	MJPEG, MPEG-4, H.264	1	mic	1 / 1	-	176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1440x1080, 1920x1080	- / -	R4.3.14/R4.4.4, Rev A1
DCS-7513		MJPEG, MPEG-4, H.264	1	mic	1 / 1	-	176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1600x1200, 1920x1080	- / -	R4.4.9/R4.5.0, Rev A1

**Note:**

For multiple aspect ratio cameras it is only possible to get streams with Resolutions corresponding to the actually selected aspect ratio (it can be changed on the camera's webpage).

## 2.15 Dallmeier

<http://www.dallmeier.com>

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
Dallmeier IP camera		MJPEG, H.264	1	mic	-	-	-	- / -	R4.4.8

### Note:

Dallmeier IP camera driver can be used for any camera which provides the streams on the *rtsp://ip/encoder1* and *rtsp://ip/encoder2* rtsp urls. Configuration must be done on the camera's webpage. Encoder 1 codec must be H.264 and encoder 2 codec must be MJPEG (in case if it is used).

## 2.16 Dynacolor

<http://www.dynacolor.com.tw>

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
NH-820-20N1	z120130208NSA	MJPEG, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	352x240, 352x288, 640x480, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080	- / -	R4.3.14/R4.4.5
NV-063	z1201301111NSA	MJPEG, H.264	1	mic	-	-	352x240, 352x288, 640x480, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080	- / -	R4.3.14/R4.4.5
NV-223	z120121212NSA	MJPEG, H.264	1	mic	-	-	352x240, 352x288, 640x480, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080	- / -	R4.3.14/R4.4.5

## 2.17 Eneo

[www.eneo-security.com](http://www.eneo-security.com) (special restrictions for multi-streaming apply, please see *Multi streaming from the camera* on page 5).

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
FXC-1201M	v2.0 110119	M-JPEG, H.264	1	mic	-	-	176x120, 176x144, 352x240, 352x288, 528x384, 640x480, 704x288, 704x576, 800x600, 1280x720, 1600x1200, 1600x912	- / -	R3.4.40, audio since R3.4.41/R4.3.8
GLC-0501		M-JPEG	1	-	-	-	320x240, 352x288, 640x480, 720x576	- / -	R3.0.0
GLC-1401	1.28	M-JPEG	1	-	-	-	320x240, 352x288, 640x480, 720x576	- / -	R1.9.5
GLC-1601	1.37	M-JPEG, MPEG-4	1	mic	-	-	320x240, 352x288, 640x480, 720x576	- / -	R3.0.0, MPEG-4 and audio since R3.4.33
GLS-2101	1.34	M-JPEG	1	-	-	-	320x240, 352x288, 640x480, 720x576	- / -	1 channel, R3.0.0
GLS-2104	1.60	M-JPEG	1	-	-	-	176x144, 352x288	- / -	4 channel, R3.0.0
GLS-2302		M-JPEG, MPEG-4, H.264	1	mic	-	-	176x120, 176x144, 352x240, 352x288, 720x480, 720x576	- / -	1 channel, R4.3.13/R4.4.0
GXB-1710M		M-JPEG, MPEG-4, H.264	1	mic	-	-	160x120, 176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1440x1080, 1920x1080	- / -	R4.3.9/R4.4.0

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
GXC-1606M	1.00	M-JPEG, MPEG-4, H.264	1	mic			160x120, 320x240, 640x480, 1280x720, 1280x1024	- / -	R3.4.34
GXC-1710M		M-JPEG, MPEG-4, H.264	1	mic	-	-	160x120, 176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1440x1080, 1920x1080	- / -	R4.3.9/R4.4.0
GXD-1710M		M-JPEG, MPEG-4, H.264	1	mic	-	-	160x120, 176x120, 176x144, 320x176, 320x240, 480x270, 480x360, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1440x1080, 1920x1080	- / -	R4.3.9/R4.4.0
NTC-2101	4.1.2-12VT	MPEG-4	1	-	-	-	160x120, 320x240, 640x480, 720x576	- / -	R1.9.5
NTC-4101	4.1.2-18VT	MPEG-4	1	-	-	zoom	160x120, 320x240, 640x480, 720x576	- / -	R1.11.0
NTD-2101	4.1.2-12VT	MPEG-4	1	mic	-	-	160x120, 320x240, 640x480, 720x576	- / -	R1.11.0
NTD-4101	4.1.2-39VT	MPEG-4	1	L16, mic	-	pan-tilt, zoom	160x120, 320x240, 640x480, 720x576	- / -	R1.11.0, PTZ since 3.4.0
NTD-6101/18	4.1.2-47VT	MPEG-4	1	L16, mic	-	pan-tilt, zoom, stored positions, continuous PT	160x120, 320x240, 640x480, 720x576	- / -	R1.9.5, PTZ + audio since R1.11.0
NTS-2101	4.1.2-4	MPEG-4	1	L16, mic	-	-	160x120, 320x240, 640x480, 720x576	- / -	1 channel, R1.9.5, audio since R1.11.0
NTS-2104	4.1.2-17VT	MPEG-4	1	mic	-	-	176x144, 352x288, 720x576, 640x480 160x120, 352x240, 720x480	- / -	4 channel, R3.2.0

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
NXB-980IR37M	1.4.41-T8_release	M-JPEG, H.264	1	-	-	-	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1280x1024, 1920x1080	- / -	R4.5.4
NXC-1401M	2.1.1	M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 720x480, 720x576, 1280x720, 1152x864, 1280x1024, 1600x1200	- / -	R3.4.28, See note at the end of the table
NXC-1402M	2.1.1	M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 720x480, 720x576, 1280x720	- / -	R3.4.28, See note at the end of the table
NXC-1502M		M-JPEG, H.264	1	mic	-	-	320x240, 352x240, 52x288, 640x480, 704x480, 04x576, 1280x720, 1280x1024, 1920x1080	- / -	R4.3.14/R4.4.2
NXD-980IR37M	1.4.41-T8_release	M-JPEG, H.264	1	-	-	-	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1280x1024, 1920x1080	- / -	R4.5.4
PXD-2018PTZ180	vr20121016NSA	MJPEG, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	352x240, 352x288, 640x480, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080	- / -	R4.3.14/R4.4.5
PXD-2030PTZ180	vr20140416NSA	MJPEG, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions, continuous PT	352x240, 352x288, 640x480, 704x480, 704x576, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080	- / -	R4.5.4

**Note:**

- NXC-1401M, NXC-1402M limitations:
  - It takes a really long time to setup stream before start up

- Setting the H.264 stream resolution to 320x240 limits the MJPEG stream resolution to 320x240
- The camera can limit certain streaming settings (resolution, frame rate) based on its actual CPU load
- The MJPEG stream is only a cropped region of the H.264 stream (can be configured on the camera's webpage)
- Selecting 320x240 as H.264 resolution actually delivers 426x240, selecting 640x480 as H.264 resolution delivers 853x480 and selecting 720x576 as H.264 resolution actually delivers 1024x576
- The camera sometimes does not deliver audio, independent of the selected audio codec (U-LAW or A-LAW). This behaviour has also been tested with VLC. It is also possible that the camera does not deliver audio at all, even if it is enabled.



## 2.18 Fitivision

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
CS103A	1.1.0 build: 115	M-JPEG	1	-	-	-	160x120, 320x240, 640x480	- / -	R3.4.37
CS2330	1.0.0 build: 26	M-JPEG, MPEG-4, H.264	1	-	-	pan-tilt	160x120, 320x240, 640x480, 1280x1024	- / -	R3.4.37, MPEG-4 and H.264 since 3.4.39
CS7120	1.0.0 build: 245	M-JPEG, MPEG-4, H.264	1	mic	-	-	160x120, 320x240, 640x480	- / -	R4.3.12/R4.4.0
CS7220		M-JPEG, MPEG-4, H.264	1	mic	-	-	160x120, 320x240, 640x480, 1280x1024	- / -	R4.3.12/R4.4.0, NT
CS7232	1.0.0 build: 2	M-JPEG, MPEG-4, H.264	1	mic	-	-	160x120, 320x240, 640x480, 1280x1024	- / -	R4.3.12/R4.4.0

### Note:

Camera reboots on every stream parameter change

## 2.19 Generic

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
HTTP MJPEG demo		MJPEG	1	-	-	-	-	-/-	R4.5.4
Generic RTSP		MJPEG, MPEG-4, H.264	1	mic	-	-	-	-/-	R4.5.0

### Note:

The HTTP MJPEG demo driver has been successfully tested with WebcamXP.

The generic RTSP driver can be used for many cameras which provide its streams via RTSP URLs. Configuration (stream resolution, fps, etc.) must be done on the camera's webpage. As it is a generic driver, NETAVIS cannot guarantee that each URL will work with Observer. Please test the driver with the required cameras first.

## 2.20 Hikvision

<http://www.hikvision.com/en/eindex.asp>

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
DS-2CD7153	V3.0 100929	M-JPEG, H.264	1	-	-	-	320x240, 352x288, 640x480, 704x576, 800x600, 1280x720, 1280x960, 1600x900, 1600x1200	- / -	R3.4.19, M-JPEG since 3.4.20
DS-2CD752MF-E	V2.0 100909	H.264	1	-	-	-	176x144, 352x288, 528x384, 640x480, 704x288, 704x576, 800x600, 1280x720, 1600x1200, 1600x912	- / -	R3.4.21
DS-2CD852F-E		M-JPEG, H.264	1	-	-	-	176x120, 176x144, 352x240, 352x288, 528x384, 640x480, 704x288, 704x576, 800x600, 1280x720, 1600x1200, 1600x912	- / -	R3.4.40
DS-2CD852MF-E	V2.0 100909	H.264	1	-	-	-	176x144, 352x288, 528x384, 640x480, 704x288, 704x576, 800x600, 1280x720, 1600x1200, 1600x912	- / -	R3.4.21
DS-2CD886BF-E	V2.0 100830	M-JPEG, H.264	1	-	-	-	640x480, 1280x720, 1920x1080, 2048x1536, 2560x1920	- / -	R3.4.21
DS-2CD2122FWD-I	V5.3.6 build 151022	M-JPEG, H.264	1	-	-	-	352x240, 352x288, 640x360, 1280x720, 1920x1080	- / -	R4.6.3
DS-2CD2042-WDI*	V5.4.5 build 170124	M-JPEG, H.264	1	-	-	-	352x288, 640x360, 1280x720, 1920x1080, 2304x1296, 2688x1520	- / -	R4.6.9
DS-2CD2142FWD-I	V5.3.3 build 150630	M-JPEG, H.264	1	-	-	-	352x240, 352x288, 640x360, 1280x720, 1920x1080, 2688x1520	- / -	R4.6.3
DS-2CD2542-FWDI*	V5.4.5 build 170124	M-JPEG, H.264	1	-	-	-	352x288, 640x360, 1280x720, 1920x1080, 2304x1296, 2688x1520	- / -	R4.6.9

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
DS-2CD2722FWD-IZS	V5.3.3 build 150806	M-JPEG, H.264	1	mic	1/1	-	352x240, 352x288, 640x360, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, I/O output since 4.8.0
DS-2CD4A26FWD-IZHS	V5.3.0 build 150326	MJPEG, MPEG-4, H.264	1	mic	-	-	640x480, 704x480, 704x576, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3
DS-2CD2642FWD-IZHS	V5.3.3 build 150806	M-JPEG, H.264	1	mic	1/1	-	352x240, 352x288, 640x360, 1280x720, 1920x1080, 2688x1520	- / -	R4.6.3, I/O output since 4.8.0
DS-2CD2522FWD-I	V5.3.3 build 150630	M-JPEG, H.264	1	-	-	-	352x240, 352x288, 640x360, 1280x720, 1920x1080	- / -	R4.6.3
DS-2CD6362F-I*	V5.3.3 build 150630	M-JPEG, H.264	1	mic	-	continuous PT	320x240, 640x480, 704x480, 704x576, 720x720, 1024x768, 1024x1024, 1280x1280, 1920x720, 1920x1080, 2048x1536, 2048x2048, 3072x2048	- / -	R4.6.5, digital PT, Panoramic camera, added as 5 channel video server
DS-2CD6412FWD-C2	V5.3.3 build 150630	M-JPEG, H.264	1	mic	1/1	-	352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1280x960	- / -	R4.6.5, I/O output since 4.8.0
DS-2CD4A85F-IZS	V5.3.3 build 150806	M-JPEG, H.264	1	mic	-	-	352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1920x1080, 2560x1440, 3072x1728, 3840x2160, 4096x2160	- / -	R4.6.5
DS-2CD4526FWD-IZH	V5.3.3 build 150630	M-JPEG, H.264	1	mic	-	-	352x240, 640x480, 704x480, 1280x720, 1280x960, 1920x1080	- / -	R4.6.5
DS-2CD6026FHWD-A	V5.3.0 build 150513	M-JPEG, H.264	1	mic	1/1	-	352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1280x960, 1920x1080	- / -	R4.6.3, I/O output since 4.8.0
DS-2DE4220IW-D	V5.3.3 build 150630	M-JPEG, H.264	1	mic	-	pan-tilt, zoom, stored positions, continuous PT	352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1280x960, 1920x1080	- / -	R4.6.5

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
DS-2DE7230IW-AE	V5.4.0 build 160418	M-JPEG, H.264	1	mic	2/1	pan-tilt, zoom, stored positions, continuous PT	352x240, 352x288, 640x480, 704x480, 704x576, 1280x720, 1280x960, 1920x1080	- / -	R4.6.6, I/O output since 4.8.0
DS-2DF7286-AEL	V5.1.8 build 140616	MJPEG, MPEG-4, H.264	1	mic	7/2	pan-tilt, zoom, stored positions, continuous PT	176x120, 176x144, 352x240, 352x288, 704x480, 704x576, 1280x720, 1280x960, 1920x1080	- / -	R4.6.7, I/O output since 4.8.0
DS-2DF8236I-AEL	V5.4.0 build 160613	MJPEG, MPEG-4, H.264	1	mic	7/2	pan-tilt, zoom, stored positions, continuous PT	176x120, 176x144, 352x240, 352x288, 704x480, 704x576, 1280x720, 1280x960, 1920x1080	- / -	R4.6.7, I/O output since 4.8.0

These cameras might have a feature called “Illegal login lock” which means if you try to access the camera with the wrong password 5 times, then you have to wait 30 minutes or restart the unit. As Observer will retry to open the connection multiple times, this will happen in a very short time.

\* DS-2CD6362F-I: Available stream formats and resolutions may differ on individual channels. For supported formats and resolutions per channel, please refer to the cameras user manual.

\* DS-2CD2042-WDI, DS-2CD2542-FWDI: Using the same resolution for H264 and MJPEG at the same time is not supported. For the available resolutions for each stream, please see the user manual.

## 2.21 iPux

[www.ipux.net](http://www.ipux.net)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
ICS1033	1.1.0 build:5	M-JPEG, MPEG-4	1	mic	-	-	160x120, 320x240, 640x480	- / -	R3.4.40
ICS1330	1.1.0 build:6	M-JPEG, MPEG-4	1	mic	-	pan-tilt	160x120, 320x240, 640x480	- / -	R3.4.40
ICS2330	1.1.0 build:13	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt	160x120, 320x240, 640x480, 1280x720, 1280x1024	- / -	R3.4.40

### Note:

All cameras require restart to apply any parameter changes, so they will be automatically restarted on setting change.

The ICS 2330 camera has the following limitations:

- In case MJPEG and H264 streams are acquired in parallel and the resolution is set to 1280x1024 or 1280x720 for any of them, then the other must be set to the same resolution (otherwise the streams will start and stop continuously).
- In case a stream with resolution 1280x1024 or 1280x720 is acquired from the camera then the framerate maximum is 15fps for that stream.

## 2.22 IQeye

[www.iqeye.com](http://www.iqeye.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
IQeye-040	V3.0/2	M-JPEG	>2	-	-	-	Crop window (Cw)	- / -	R3.3.0
IQeye-041	V3.0/2	M-JPEG	>2	-	-	-	Crop window (Cw)	- / -	R3.3.0
IQeye-042	V3.0/2	M-JPEG	>2	-	-	-	Crop window (Cw)	- / -	R3.3.0
IQeye-510	V2.8/2	M-JPEG	>2	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R1.12.0
IQeye-511	V2.7/3	M-JPEG	>2	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R1.12.0
IQeye-701		M-JPEG	>2	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.3.0
IQeye-702		M-JPEG	>2	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.3.0
IQeye-703		M-JPEG	>2	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.3.0
IQeye-705	V2.7/3	M-JPEG	>2	-	-	-	Crop window (Cw), Cw/2, Cw/4, Cw/8, Cw16	- / -	R1.12.0
IQeye-752		M-JPEG	>2	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.3.0
IQeye-753		M-JPEG	>2	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.3.0
IQeye-755	V2.8/6	M-JPEG	>2	-	-	-	Crop window (Cw), Cw/2, Cw/4, Cw/8, Cw16	- / -	R1.12.0

**Note:** IQeye has a generic camera API uniform for all IQeye cameras. We have tested the cameras listed above, but other IQeye cameras will most probably work fine as well. The resolution setup for IQeye cameras works different compared to other cameras. IQeye implemented a feature "Crop window", which can be set in the camera's Web interface. The size of the video frames received from the camera depends on the size of the "Crop window". Thus, there is no way to show explicit resolution values in Observer, only the ratio of the down-sampling factor.





## 2.23 JVC

[www.jvc.com](http://www.jvc.com) (special restrictions for multi-streaming apply, please see *Multi streaming from the camera* on page 5).

Device	Tested Firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VN-25U		M-JPEG	1	-	-	-	320x240, 640x480	- / -	R3.0.0
VN-26U	1.01	M-JPEG	1	-	-	-	320x240, 640x480	- / -	R3.0.0
VN-V225U		M-JPEG MPEG-4	1	mic	-	-	320x240, 640x480	- / -	R3.4.9
VN-686U	1.01	M-JPEG MPEG-4	1	-	-	pan-tilt, zoom, stored positions, continuous PT	320x240, 640x480	- / -	R3.0.0 MPEG-4 R3.1.0
VN-C215	1.01	M-JPEG	1	-	-	-	320x240, 640x480	- / -	R3.1.0
VN-H137U		M-JPEG MPEG-4, H.264	1	-	-	-	320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080	- / -	R4.3.13/R4.4.0, NT
VN-H157WPU		M-JPEG MPEG-4, H.264	1	mic	-	-	320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080	- / -	R4.3.13/R4.4.0, NT
VN-H237U		M-JPEG MPEG-4, H.264	1	-	-	-	320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080	- / -	R4.3.13/R4.4.0, NT

Device	Tested Firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VN-H237VPU		M-JPEG MPEG-4, H.264	1	-	-	-	320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080	- / -	R4.3.13/R4.4.0, NT
VN-H257U		M-JPEG MPEG-4, H.264	1	mic	-	-	320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080	- / -	R4.3.13/R4.4.0, NT
VN-H257VPU		M-JPEG MPEG-4, H.264	1	mic	-	-	320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080	- / -	R4.3.13/R4.4.0, NT
VN-H37U		M-JPEG MPEG-4, H.264	1	-	-	-	320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080	- / -	R4.3.13/R4.4.0
VN-H57U		M-JPEG MPEG-4, H.264	1	mic	-	-	320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080	- / -	R4.3.13/R4.4.0
VN-H557U	2.01.827 SPL2841	M-JPEG H.264	1	mic	-	pan-tilt, zoom, stored positions, continuous PT	320x240, 352x240, 640x360, 640x480, 720x480, 720x576, 1280x720, 1920x1080	- / -	R4.5.1
VN-H657	SPL2841 2.01.872	M-JPEG H.264	1	-	-	pan-tilt, zoom, stored positions, continuous PT	320x240, 352x240, 352x288, 640x360, 640x480, 1280x720, 1280x960, 1920x1080	- / -	R4.3.14/R4.4.5, NT

Device	Tested Firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VN-H657U	2.01.827 SPL2841	M-JPEG H.264	1	-	-	pan-tilt, zoom, stored positions, continuous PT	320x240, 352x240, 640x360, 640x480, 720x480, 720x576, 1280x720, 1920x1080	- / -	R4.5.1
VN-T16U		M-JPEG MPEG-4, H.264	1	mic	-	-	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 720x480, 720x576, 1280x720, 1920x1080	- / -	R4.3.14/R4.4.2, NT
VN-T216U	j.2.2.1980	M-JPEG MPEG-4, H.264	1	mic	-	-	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 720x480, 720x576, 1280x720, 1920x1080	- / -	R4.3.14/R4.4.2
VN-T216VPRU		M-JPEG MPEG-4, H.264	1	mic	-	-	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 720x480, 720x576, 1280x720, 1920x1080	- / -	R4.3.14/R4.4.2, NT
VN-X235		M-JPEG MPEG-4	1	mic	-	pan-tilt, zoom, stored positions, continuous PT	320x240, 640x480, 1280x960	- / -	R3.4.13, megapixel since 3.4.30
VN-X35	1.02	M-JPEG MPEG-4	1	-	-	-	320x240, 640x480, 1280x960	- / -	R3.1.0

**Note:**

For valid parameter combinations please consult the relevant camera documentation. For cameras which support multiple aspect ratios, the user have to select Resolutions according to the actual aspect ratio.

VN-T series require setup on the camera's webpage in some cases in order to make sure the camera delivers streams

**2.24 LG**[www.lg.com](http://www.lg.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
LW-6424	09071001 Software version: 516.0.0.1104060	M-JPEG, H.264	1	mic	-	-	352x240,352x288,704x480,704x576, 1280x720,1920x1080	- / -	R3.4.35

**Note:**

The LW-6424 camera has the following limitations:

- In case the multi-stream allowed flag is enabled in Observer, then the available Resolutions for H264 streams are 1080p and 720p and for the MJPEG streams the CIF and 4CIF Resolutions
- Whenever bandwidth limit is specified for the H264 stream, the camera stops delivering stream, so this feature doesn't work with the tested firmware
- In case 1080p resolution selected for H264 stream and the frame rate is higher than 20 fps, the camera disables the MJPEG stream with the tested firmware.

## 2.25 Lumenera

[www.lumenera.com](http://www.lumenera.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
LE-175C	r3727hw 1.2.1.6.0.6	M-JPEG	1	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.1.0
LE-275C	r5565hw 1.2.8.0.16	M-JPEG	1	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.1.0
LE-375C	r5565hw 1.2.8.0.16	M-JPEG	1	-	-	-	Crop window (Cw) ,Cw/2, Cw/4, Cw/8	- / -	R3.1.0

## 2.26 Robotix

[www.robotix.com](http://www.robotix.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
D22M	MX-V3.4.5.10	M-JPEG, MxPEG	1	-	-	-	160x120, 320x240, 352x288, 384x288, 640x480, 704x576, 768x576, 800x600, 1024x768, 1280x960, 2048x1536	✓ / -	R3.4.0
M1	3.1.2	M-JPEG	2	-	-	-	160x120, 320x240, 640x480	- / -	
M10	4.0.3	M-JPEG	1	-	-	-	160x120, 320x240, 640x480, 1280x960	✓ / -	R3.4.3
M12	5.3.10	M-JPEG, MxPEG	1	mic	-	-	160x120, 320x240, 352x288, 384x288, 640x480, 704x576, 768x576, 800x600, 1024x768, 1280x960, 2048x1536	✓ / -	R1.8.6, MxPEG since R3.0.0, new Resolutions since 3.3.0
M12D	5.4.7.1	M-JPEG, MxPEG	1	mic	-	-	160x120, 320x120, 320x240, 352x288, 384x288, 640x240, 640x480, 704x288, 704x576, 768x288, 768x576, 800x600, 1024x768, 1280x480, 1280x960, 1408x576, 1536x576, 1600x600, 2048x768, 2048x1536, 2560x960, 4096x1536	✓ / -	R4.5.4
M15D	7.1.0.0	M-JPEG, MxPEG	1	mic	-	-	160x120, 320x240, 352x240, 352x288, 384x288, 640x480, 704x480, 704x576, 768x576, 800x600, 1024x768, 1280x720, 1280x960, 1920x1080, 2048x1536	✓ / -	R4.5.2
M22	5.2.2, 5.2.3	M-JPEG, MxPEG	1	mic	-	-	160x120, 320x240, 352x288, 384x288, 640x480, 704x576, 768x576, 800x600, 1024x768, 1280x960, 2048x1536	✓ / -	MxPEG since R3.0.0, new Resolutions since 3.3.0

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
M24	MX-V4.0.4.18	M-JPEG, MxPEG	1	mic	-	-	160x120, 320x240, 352x288, 384x288, 640x480, 704x576, 768x576, 800x600, 1024x768, 1280x960, 2048x1536	✓ / -	R3.4.34
Q22M	MX-V3.4.5.10	M-JPEG, MxPEG	1	mic	-	-	160x120, 320x240, 352x288, 384x288, 640x480, 704x576, 768x576, 800x600, 1024x768, 1280x960, 2048x1536	✓ / -	R3.4.0
Q24M	MX-V4.0.1.7	M-JPEG, MxPEG	1	mic	-	-	160x120, 320x240, 352x288, 384x288, 640x480, 704x576, 768x576, 800x600, 1024x768, 1280x960, 2048x1536	✓ / -	R3.4.1
Q25M	MX-V4.1.10.35	M-JPEG, MxPEG	1	mic	-	VPTZ, direct PT	160x120, 320x240, 352x240, 352x288, 384x288, 640x480, 704x480, 704x576, 768x576, 800x600, 1024x768, 1280x720, 1280x960, 1920x1080, 2048x1536	✓ / -	R4.5.4
S15D	MX-V4.4.1.55	M-JPEG, MxPEG	1	mic	-	VPTZ, direct PT	160x120, 320x120, 320x240, 352x288, 384x288, 640x240, 640x480, 704x288, 704x576, 768x576, 800x600, 1024x768, 1280x480, 1280x720, 1280x960, 1408x576, 1536x576, 1600x600, 1920x1080, 2048x768, 2048x1536, 2560x720, 2560x960, 2592x1944, 3072x2048, 3840x1080, 4096x1536, 5184x1944, 6144x2048	✓ / -	R4.6.9
T24	MX-V4.1.1.24	M-JPEG, MxPEG	1	mic	2 / 0	-	160x120, 320x240, 352x288, 384x288, 640x480, 704x576, 768x576, 800x600, 1024x768, 1280x960, 2048x1536	✓ / -	R4.4.6

**Note:**

When using dual lens cameras, you can assign the left, right, both, or auto lens modes when selecting port 1, 2, 3, 4 respectively in the Observer **Camera Admin** dialog. When selecting both eyes you can also use double width image Resolutions. Display mode has to be set on the camera's web page.

When using single lens cameras, you can assign the full image, normal, surround, panorama, panorama/focus, double panorama display mode when selecting 1, 2, 3, 4, 5, 6 respectively in the Observer **Camera Admin** dialog.

Only one port can be used on the same camera at the same time.



**2.27 Moxa**[www.moxa.com](http://www.moxa.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VPort 16	1.1	M-JPEG, H.264	1	-	-	-	176x120, 176x144, 352x240, 352x288, 640x480, 704x480, 704x576, 720x480, 720x576, 800x600	- / -	R3.4.40
VPort 16P		M-JPEG, H.264	1	-	-	-	176x120, 176x144, 352x240, 352x288, 640x480, 704x480, 704x576, 720x480, 720x576, 800x600, 1280x720, 1280x800	- / -	R4.3.9/R4.4.0

## 2.28 Panasonic

[www.panasonic.com/bps\\_sec\\_cameras](http://www.panasonic.com/bps_sec_cameras)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
BB-HCM311	1.28B	M-JPEG	1	-	-	pan-tilt, stored positions	160x120, 320x240, 640x480	✓ / -	
BB-HCM381	1.28B	M-JPEG	1	-	-	pan-tilt, zoom, direct PT, stored positions	160x120, 320x240, 640x480	✓ / ✓	R1.5.0
WJ-GXE-500E*	1.03	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 640x480, 720x480, 720x575	✓ / -	4 channel , R3.4.40
WV-NF284	1.00E4	M-JPEG, MPEG-4	1	-	-	zoom	320x240, 640x480	✓ / -	Digital zoom only, R1.9.5
WV-NF284	1.60	M-JPEG, MPEG-4	1	-	-	zoom	320x240, 640x480	✓ / -	R4.4.2, re-integrated
WV-NF302	1.10EA_1.03	M-JPEG	1	-	-	-	320x240, 640x480, 1280x960	- / -	R3.0.0
WV-NP244	1.092, 1.22E2	M-JPEG, MPEG-4	1	mic	-	zoom	320x240, 640x480	✓ / -	Digital zoom only, R1.8.0
WV-NP472	2.20/P	M-JPEG	1	-	-	-	160x120, 320x240, 640x480, 640x240	✓ / ✓	R1.8.0

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
WV-NS202	1.10PB	M-JPEG, MPEG-4		-	-	pan-tilt, zoom, direct PT, stored positions	320x240, 640x480	✓ / -	R1.9.0
WV-NS202	1.60	M-JPEG, MPEG-4		-	-	pan-tilt, zoom, direct PT, stored positions	320x240, 640x480	✓ / -	R4.4.2, re-integrated
WV-NS324	2.20EE	M-JPEG	1	-	-	pan-tilt, zoom, direct PT, stored positions	160x120, 320x240, 640x480, 640x240	✓ / ✓	R1.8.0
WV-NP1004	1.07E3, 1.21PO	M-JPEG, MPEG-4	1	mic	-	zoom	320x240, 640x480, 960x720, 1280x960	✓ / -	Digital zoom only, R1.8.0
WV-NW484	1.02E1	M-JPEG, MPEG-4	1	-	-	zoom	320x240, 640x480	✓ / -	Digital zoom only, R1.9.5
WV-NW502	1.04	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 640x480, 1280x960, 2048x1536	✓ / -	R3.4.9, MPEG-4, H.264, audio and 2048x1536 resolution since 3.4.13
WV-NW960	1.06E0	M-JPEG	1	-	-	pan-tilt, zoom, direct PT, stored positions	320x240, 640x480	- / -	R3.0.0
WV-NW964		M-JPEG, MPEG-4	1	mic	3 / 0	pan-tilt, zoom, direct PT, stored positions	320x240, 640x480	- / -	R4.3.14/R4.4.4

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
WV-SC385	1.08, 1.22, 1.16	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x180, 320x240, 640x360, 640x480, 800x600, 1280x720, 1280x960	- / -	R3.4.40
WV-SC386	1.42, 1.11, 1.04	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x180, 320x240, 640x360, 640x480, 800x600, 1280x720, 1280x960	- / -	R4.3.10/R4.4.0
WV-SF135		M-JPEG, H.264	1	-	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	✓ / -	R4.3.13/R4.4.0,NT
WV-SF138	1.60	M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080, 2048x1536	- / -	R4.5.3
WV-SF332		M-JPEG, MPEG-4, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x600	- / -	R3.4.40, NT
WV-SF335	1.06, 1.06	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R3.4.40
WV-SF335	2.00E	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.1, re-integrated

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
WV-SF336E	2.10, 1.05	M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.1
WV-SF346PJ	2.10, 2.03	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.6.1
WV-SF438E**	1.60	M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080, 2048x1536	- / -	R4.5.3
WV-SFN310A	2.54	M-JPEG, H.264	1	mic	3 / 0	-	160x90, 160x120, 320x180, 320x240, 400x300, 640x360, 640x480, 800x600, 1280x720, 1280x960, 1920x1080	- / -	R4.6.9
WV-SFN631L	1.71	M-JPEG, H.264	1	mic	-	-	160x90, 160x120, 320x240, 400x300, 640x480, 800x600, 1280x720, 1280x960, 1600x1200, 1920x1080, 2048x1536	- / -	R4.5.3
WV-SFV631L	2.50	M-JPEG, H.264	1	mic	3 / 0	-	160x90, 160x120, 320x240, 400x300, 640x480, 800x600, 1280x720, 1280x960, 1600x1200, 1920x1080, 2048x1536	- / -	R4.8.0
WV-SP102E	1.01, 1.03	M-JPEG, H.264	1	-	-	-	320x180, 320x240, 640x360, 640x480	✓ / -	R3.4.25
WV-SP105E	1.01, 1.03	M-JPEG, H.264	1	-	-	-	320x180, 320x240, 640x360, 640x480, 1280x720 1280x960	✓ / -	R3.4.25
WV-SP509		M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080, 2048x1536	- / -	R4.3.11/R4.4.0, NT

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
WV-SP306E	1.01, 1.03	M-JPEG, MPEG-4, H.264	1	mic	3 / 0	-	320x180, 320x240, 640x360, 640x480, 1280x720 1280x960	✓ / -	R3.4.24
WV-SP306E	2.00E	M-JPEG, MPEG-4, H.264	1	mic	3 / 0	-	320x180, 320x240, 640x360, 640x480, 1280x720 1280x960	✓ / -	R4.6.1, re-integrated
WV-SPW631L	2.50	M-JPEG, H.264	1	mic	3 / 0	-	160x90, 160x120, 320x240, 400x300, 640x480, 800x600, 1280x720, 1280x960, 1600x1200, 1920x1080, 2048x1536	- / -	R4.8.0
WV-ST165	1.42, 1.03	M-JPEG, H.264	1	mic	-	pan-tilt, direct PT, stored positions	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.3.11/R4.4.0
WV-SW316	1.44, 1.01	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960	- / -	R4.3.10/R4.4.0
WV-SW352		M-JPEG, MPEG-4, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x600	- / -	R4.3.14/R4.4.5
WV-SW355	1.04, 1.04	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 1280x720 1280x960	- / -	R3.4.40

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
WV-SW395	2.10, 1.39, 1.21	M-JPEG, MPEG-4, H.264	1	mic	3/0	pan-tilt, zoom, direct PT, stored positions	320x180, 320x240, 640x360, 640x480, 800x600, 1280x720, 1280x960	- / -	R4.6.1
WV-SW458**	2.43, 1.21, 1.01	M-JPEG, H.264	1	mic	3/0	-	320x180, 320x240, 640x360, 640x480, 1280x720, 1280x960, 1920x1080, 2048x1536	- / -	R4.8.0

**Note:**

\*The video server WJ-GXE-500E has two selectable modes via its web frontend: VGA and D1. QVGA and VGA resolution are selectable from Netavis only in VGA mode, in D1 mode only the highest resolution is available. Audio works only on CH1.

For most cameras the user have to select the aspect ratio on the camera's webpage. MPEG-4 only works in 4:3 mode and only with resolution 320x240 and 640x480. For further resolution availability read the camera documentation, please.

\*\*WV-Sx4x8: The user has to select the desired image capture mode on the camera's web page. If two streams (e.g.: "Double Panorama + Fisheye") are selected then only the first stream can be used by Observer and the second stream is neglected.

In "VGA Quad streams" mode, the camera behaves like a 4 port video server: the individual streams are available from ports 1-4. In this mode, only H.264 is supported. Digital PTZ can only be used in the camera's Single PTZ mode.

## 2.29 Planet

<http://www.planet.com.tw>

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
ICA-HM620	pla20120525NSA	M-JPEG, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	352x240, 352x288, 640x480, 704x480, 720x576, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080	- / -	R4.3.12/R4.4.0

### Note:

MJPEG and H264 stream Resolutions are dependent on each other. For details please check the camera's documentation. In case multi stream is enabled, Observer will use H264-MJPEG mode otherwise it will use the mode corresponding to the selected stream encoding



## 2.30 Samsung

[www.samsung-security.com](http://www.samsung-security.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
B2315	V 2.02	M-JPEG, MPEG-4	1	-	-	-	352x240, 352x288, 640x480, 720x576, 720x480	- / -	R3.3.0
B5368		M-JPEG, MPEG-4	1	-	-	-	352x240, 352x288, 640x480, 720x576, 720x480	- / -	R3.4.8
B5395	V 2.02	M-JPEG, MPEG-4	1	-	-	-	352x240, 352x288, 640x480, 720x576, 720x480	- / -	R3.3.0
B5399		M-JPEG, MPEG-4	1	-	-	-	352x240, 352x288, 640x480, 720x576, 720x480	- / -	R3.4.8
M300	V 2.02	M-JPEG, MPEG-4	1	-	-	-	1280x1024, 1600x1200, 2048x1536	- / -	R3.3.0
PND-9080RP	1.00_160620	M-JPEG, H.264	1	mic	1/1	-	320x240, 640x360, 640x480, 720x480, 720x576, 800x448, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2592x1464, 2592x1944, 3840x2160, 4096x2160	- / -	R4.6.8
QNV-7020RP	1.02_160712	M-JPEG, H.264	1	mic	1/1	-	320x240, 640x360, 640x480, 720x480, 720x576, 800x448, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080, 2304x1296, 2560x1440, 2592x1520	- / -	R4.6.8

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNB-5000	2.00-110727	M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R4.3.12/R4.4.0
SNB-5001		M-JPEG, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R4.5.2
SNB-5004P		M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R4.5.3
SNB-6003		M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.5.2
SNB-6004	1.00_130412	M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.4.6
SNB-7004		M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2048x1536	- / -	R4.5.3
SNB-8000P	1.00_141113	M-JPEG, H.264	1	mic	1/1	-	320x240, 640x480, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2592x1944	- / -	R4.6.1
SNB-9000	1.00_150617	M-JPEG, H.264	1	mic	2/1	-	320x240, 640x360, 640x480, 704x576, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2048x1536, 2592x1944, 3840x2160, 4000x3000, 4096x2160	- / -	R4.6.6

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SND-3080	SND-3080P_v1.10_100312	M-JPEG, MPEG-4, H.264	1	-	-	-	352x288, 640x480, 704x576	- / -	R3.4.30
SND-3082	2.00_121024	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 352x240, 352x288, 640x480, 704x576, 704x480	- / -	R4.3.14/R4.4.1
SND-5061		M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R4.5.2
SND-5083		M-JPEG, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R4.5.2
SND-5084P		M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R4.5.3
SNO-5080	2.10-111227	M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R4.3.12/R4.4.0
SND-6011		M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.5.3
SND-L6083N		M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 720x576, 800x600, 1024x768, 1280x720, 1280x960, 1920x1080	- / -	R4.6.6, NT
SND-6084R	v2.22_131218	M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.5.1

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SND-7084R	V3.00_140915	M-JPEG, H.264	1	mic	1/1	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2048x1536	- / -	R4.6.2
SNO-6011		M-JPEG, H.264	1	-	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.5.3
SNO-L6083R	1.01_150918	M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 720x576, 800x600, 1024x768, 1280x720, 1280x960, 1920x1080	- / -	R4.6.6
SNO-6084R	v2.22_131218	M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.5.1
SNO-7082R		M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2048x1536	- / -	R4.5.2
SNO-7084R		M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2048x1536	- / -	R4.5.2
SNP-5430H		M-JPEG, H.264	1	mic	4/2	pan-tilt, zoom, continuous PT, stored positions	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R4.6.6, NT
SNP-L5233H	1.00_160304	M-JPEG, H.264	1	mic	4/2	pan-tilt, zoom, continuous PT, stored positions	320x180, 320x240, 640x360, 640x480, 720x576, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024	- / -	R4.6.6
SNP-L6233H	1.00_160304	M-JPEG, H.264	1	mic	4/2	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.6.6

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNP-6320HP		M-JPEG, H.264	1	mic	4/2	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.6.6, NT
SNV-5080	V 1.32	M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R3.4.38
SNV-5080R		M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x720, 1280x1024	- / -	R4.3.14/R4.4.5
SNV-6084	2.00_130816	M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.4.6
SNV-6084R	1.00_130412	M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R4.4.6
SNV-7084R		M-JPEG, H.264	1	mic	-	-	320x180, 320x240, 640x360, 640x480, 800x450, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024, 1600x1200, 1920x1080, 2048x1536	- / -	R4.5.2
SPE-100		M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 352x240, 352x288, 640x480, 720x576, 720x480	- / -	1 channel, R3.4.41/R4.3.8, NT
SPE-400	1.20_110929	M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 352x240, 352x288, 640x480, 720x576, 720x480	- / -	4 channel, R3.4.41/R4.3.8

**Note:**

- The RTSP timeout option must be disabled for the cameras in order to function normally.
- 60fps mode is not supported (only 30 fps mode).
- Capture mode have to be selected on the camera's webpage

## 2.31 Sanyo

[www.sanyosecurity.com](http://www.sanyosecurity.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VCC-HD2100		M-JPEG, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x960, 1600x1200, 2282x1712 320x180, 640x360, 1280x720, 1920x1080	- / -	R3.4.5, 4Mpixel since 3.4.10, H.264 since 3.4.13
VCC-HD2300		M-JPEG, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x960, 1600x1200, 2282x1712 320x180, 640x360, 1280x720, 1920x1080	- / -	R3.4.5, 4Mpixel since 3.4.10, H.264 since 3.4.13
VCC-HD2500		M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 800x600, 1024x768, 1280x960, 1600x1200 320x180, 640x360, 1280x720, 1920x1080	- / -	R3.4.5, H.264 and audio since 3.4.13
VDC-HD3100		M-JPEG, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x960, 1600x1200, 2282x1712 320x180, 640x360, 1280x720, 1920x1080	- / -	R3.4.5, 4Mpixel since 3.4.10, H.264 since 3.4.13
VDC-HD3300		M-JPEG, H.264	1	-	-	-	320x240, 640x480, 800x600, 1024x768, 1280x960, 1600x1200, 2282x1712 320x180, 640x360, 1280x720, 1920x1080	- / -	R3.4.5, 4Mpixel since 3.4.10, H.264 since 3.4.13
VDC-HD3500		M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 800x600, 1024x768, 1280x960, 1600x1200 320x180, 640x360, 1280x720, 1920x1080	- / -	R3.4.5, H.264 and audio since 3.4.13

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
VCC-HD4000		M-JPEG	1	-	-	-	320x240, 640x360, 640x480, 800x600, 1024x768, 1280x720, 1280x960, 1600x1200	- / -	R3.4.9
VCC-HD4600		M-JPEG	1	-	-	-	320x240, 640x360, 640x480, 800x600, 1024x768, 1280x720, 1280x960, 1600x1200, 1920x1080	- / -	R3.4.9
VCC-HD5400		M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT	320x240, 640x480, 800x600, 1024x768, 1280x960, 1600x1200 320x180, 640x360, 1280x720, 1920x1080	- / -	R3.4.5, H.264 since 3.4.13, PTZ since 3.4.33
VCC-HD5600		M-JPEG, H.264	1	-	-	pan-tilt, zoom, direct PT	320x240, 640x480, 800x600, 1024x768, 1280x960, 1600x1200 320x180, 640x360, 1280x720, 1920x1080	- / -	R3.4.5, PTZ since 3.4.10, H.264 since 3.4.13



## 2.32 Shany

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-10000	5.0.2.4437	M-JPEG, MPEG-4, H.264	1	mic	-	-	176x120, 176x144, 352x240, 352x288, 704x480, 720x576	- / -	R3.4.36
SNC-WD2112	SW1.21	M-JPEG, MPEG-4, H.264	1	mic	-	-	640x480, 720x480, 720x576, 1280x720, 1280x960, 1280x1024	- / -	R3.4.36

### Note:

SNC-WD2112: In case the multi-stream flag is enabled in the camera, then Observer set the camera into dual codec mode, and the resolution is determined by the stream resolution and the MJPEG resolution is ignored. In case the multi-stream option is disabled, then Observer set the device into single codec mode. For supported Resolutions in different modes, please consult the camera documentation.

## 2.33 Siqua

[www.siqua.com](http://www.siqua.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
C60		MPEG-4, H.264	-	-	-	pan-tilt, zoom, continuous PT, stored positions	All Resolutions supported by the device	- / -	R4.3.14/R4.4.5, 1 channel, stored positions since 4.4.8
BC840	4.22.0	MJPEG, H.264	1	mic	-	-	352x240, 352x288, 640x480, 720x240, 720x288, 720x480, 720x576, 960x544, 1280x720, 1440x1080, 1920x1080	- / -	R4.6.8
Eve One		MJPEG, H.264	1	-	-	pan-tilt, zoom, continuous PT, stored positions	176x144, 320x240, 352x288, 640x480, 704x576, 720x576	- / -	R4.5.0/R4.4.9, 1 channel
Eve Four		MJPEG, H.264	1	mic	-	pan-tilt, zoom, continuous PT, stored positions	176x144, 320x240, 352x288, 640x480, 704x576, 720x576	- / -	R4.5.0/R4.4.9, 4 channel
HSD620	4.0.1	MJPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, continuous PT, stored positions	176x144, 320x240, 352x288, 640x480, 704x288, 704x576, 720x576	- / -	R4.5.0/R4.4.9
HSD820	nk20130510 NSA	MJPEG, H.264	1	mic	-	pan-tilt, zoom, continuous PT	352x240, 352x288, 640x480, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x1024, 1920x1080	- / -	R4.5.0/R4.4.9

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
S60	4.6.3	MJPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, continuous PT, stored positions	176x144, 320x240, 352x288, 640x480, 704x288, 704x576, 720x576	- / -	R4.5.0/R4.4.9, 1 channel
S64	4.12.0	MJPEG, H.264	1	-	-	pan-tilt, zoom, continuous PT, stored positions	176x144, 320x240, 352x288, 640x480, 704x288, 704x576, 720x576	- / -	R4.5.0/R4.4.9, 4 channel
S68	4.12.0	MJPEG, H.264	1	-	-	pan-tilt, zoom, continuous PT, stored positions	176x144, 320x240, 352x288, 640x480, 704x288, 704x576, 720x576	- / -	R4.5.2, 8 channel

**Note:**

C60: Streams must be configured on the camera's page

HSD620, S60 - MJPEG+H264, or MPEG4 only. Encoder1 on the webpage has to be set either to MJPEG or MPEG4 depending on the desired mode. Audio have to be enabled on the web interface in order to use audio.

HSD820 - Appropriate video codec mode (which allows the desired combination) have to be selected on the webpage.

BC840: Appropriate video codec mode (which allows the desired combination) have to be selected on the webpage. MJPEG quality settings can only be changed on the webpage.

Audio have to be enabled on the web interface in order to use audio.

Eve One, Eve Four - Appropriate video codec have to be selected on the webpage.

Audio have to be enabled on the web interface in order to use audio.

## 2.34 Sony

[www.pro.sony.eu/Videosecurity](http://www.pro.sony.eu/Videosecurity) (special restrictions for multi-streaming apply, please see *Multi streaming from the camera* on page 5).

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-CH110		M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x240, 352x288, 384x288, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 1024x576, 1024x768, 1280x720, 1280x960	✓ / -	R3.4.32, NT
SNC-CH120	1.12.02	M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 384x288, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 1024x576, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024	✓ / -	R3.4.20, See note at the end of the table
SNC-CH140	1.07.00	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 384x288, 640x480, 704x576, 768x576, 800x480, 1024x576, 1280x720, 1280x800, 1280x960, 1280x1024	✓ / -	R3.4.11
SNC-CH160		M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 384x288, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 1024x576, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024	✓ / -	R3.4.32, NT
SNC-CH180		M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 384x288, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 1024x576, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024	✓ / -	R3.4.32, NT

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-CH210	1.12.00	M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x240, 352x288, 640x480, 800x480, 1024x576, 1280x720, 1280x800, 1440x912, 1920x1080, 384x288, 704x576, 720x480, 720x576, 768x576, 1024x768, 1280x960, 1280x1024, 1600x1200	✓ / -	R3.4.20, See note at the end of the table
SNC-CH220		M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 640x480, 800x480, 1024x576, 1280x720, 1280x800,1440x912, 1920x1080, 384x288, 704x576, 720x480, 720x576, 768x576, 1024x768, 1280x960, 1280x1024, 1600x1200, 1920x1440	✓ / -	R3.4.32, NT
SNC-CH240		M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 384x288, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 1024x576, 1280x720, 1280x800, 1280x960, 1280x1024, 1440x912, 1600x1200, 1920x1080, 1920x1440	✓ / -	R3.4.14, NT
SNC-CH260		M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 640x480, 800x480, 1024x576, 1280x720, 1280x800,1440x912, 1920x1080, 384x288, 704x576, 720x480, 720x576, 768x576, 1024x768, 1280x960, 1280x1024, 1600x1200, 1920x1440	✓ / -	R3.4.32, NT
SNC-CH280		M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 640x480, 800x480, 1024x576, 1280x720, 1280x800,1440x912, 1920x1080, 384x288, 704x576, 720x480, 720x576, 768x576, 1024x768, 1280x960, 1280x1024, 1600x1200, 1920x1440	✓ / -	R3.4.32, NT

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-CM120	1.00	M-JPEG, MPEG-4	1	mic	1 / 0	-	320x240, 384x288, 640x480, 960x720, 1280x960	✓ / -	R3.1.0
SNC-CS3	1.04	M-JPEG	1	-	-	-	160x120, 320x240, 640x480, 763x480, 736x544	- / -	R1.5.0
SNC-CS10	1.01	M-JPEG	1	-	1 / 0	-	160x120, 320x240, 480x360, 640x480, 252x192, 384x288	- / -	R1.8.0
SNC-CS11	1.01	M-JPEG, MPEG-4	1	mic	1 / 0	-	160x120, 320x240, 480x360, 640x480, 252x192, 384x288	- / -	R1.8.0, MPEG since R3.0.0
SNC-CS20	1.00	M-JPEG, MPEG-4	1	mic	1 / 0	-	320x240, 384x288, 640x480, 768x576	✓ / -	R3.1.0
SNC-CS50	1.03	M-JPEG, MPEG-4, H.264	1	mic	1 / 0	-	160x120, 320x240, 640x480	✓ / -	Transmits only one image per event, R1.8.0
SNC-CX600	1.7.0	M-JPEG, H.264	1	-	-	-	320x184, 352x240, 352x288, 640x360, 640x480, 704x480, 704x576, 720x480, 720x576, 1024x576, 1280x720	✓ / -	R4.5.1
SNC-DF40		M-JPEG, MPEG-4	1	mic <sup>2</sup>	1 / 0	-	160x120, 320x240, 480x360, 640x480, 252x192, 384x288	- / -	R1.6.1, MPEG since R3.0.0

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<sup>2</sup> Supported formats: G711 ulow.

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-DF70	1.04	M-JPEG, MPEG-4	1	mic <sup>2</sup>	1 / 0	-	160x120, 320x240, 480x360, 640x480, 252x192, 384x288	- / -	R1.6.1, MPEG since R3.0.0
SNC-DF85	1.10	M-JPEG, MPEG-4, H.264	1	mic <sup>2</sup>	1 / 0	-	160x120, 320x240, 384x288, 640x480	✓ / -	R3.4.9, Transmits only one image per event
SNC-DH110		M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x240, 352x288, 384x288, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 1024x576, 1024x768, 1280x720, 1280x960	✓ / -	R3.4.32, NT
SNC-DH120	1.13.00	M-JPEG, MPEG-4, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 1024x576, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024	✓ / -	R3.4.20, See note at the end of the table
SNC-DH140	1.05.00	M-JPEG, MPEG-4, H.264	1	mic	-	zoom	320x240, 384x288, 640x480, 704x576, 768x576, 800x480, 1024x576, 1280x720, 1280x800, 1280x960, 1280x1024	✓ / -	R3.4.11
SNC-DH160	1.13.00	M-JPEG, MPEG-4, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 1024x576, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024	✓ / -	R3.4.21

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-DH180	1.07.00	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 384x288, 640x480, 704x576, 768x576, 800x480, 1024x576, 1280x720, 1280x800, 1280x960, 1280x1024	✓ / -	R3.4.14
SNC-DH210	1.27.00	M-JPEG, MPEG-4, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions	176x144, 320x240, 352x288, 640x480, 800x480, 1024x576, 1280x720, 1280x800, 1440x912, 1920x1080 384x288, 704x576, 720x480, 720x576, 768x576, 1024x768, 1280x960, 1280x1024, 1600x1200	✓ / -	R3.4.27, See note at the end of the table, transmits only one image per event
SNC-DH220		M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 640x480, 800x480, 1024x576, 1280x720, 1280x800, 1440x912, 1920x1080, 384x288, 704x576, 720x480, 720x576, 768x576, 1024x768, 1280x960, 1280x1024, 1600x1200, 1920x1440	✓ / -	R3.4.32, NT
SNC-DH240		M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 384x288, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 1024x576, 1280x720, 1280x800, 1280x960, 1280x1024, 1440x912, 1600x1200, 1920x1080, 1920x1440	✓ / -	R3.4.14, NT
SNC-DH260		M-JPEG, MPEG-4, H.264	1	-	-	-	320x240, 640x480, 800x480, 1024x576, 1280x720, 1280x800, 1440x912, 1920x1080, 384x288, 704x576, 720x480, 720x576, 768x576, 1024x768, 1280x960, 1280x1024, 1600x1200, 1920x1440	✓ / -	R3.4.32, NT
SNC-DH280		M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x240, 640x480, 800x480, 1024x576, 1280x720, 1280x800, 1440x912, 1920x1080, 384x288, 704x576, 720x480, 720x576, 768x576, 1024x768, 1280x960, 1280x1024, 1600x1200, 1920x1440	✓ / -	R3.4.32, NT



Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-DM110	1.01	M-JPEG, MPEG-4	1	mic	1 / 0	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 1280x960	✓ / -	R3.1.0
SNC-DM160		M-JPEG, MPEG-4	1	mic	1 / 0	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 1280x960	✓ / -	R3.1.14, NT
SNC-DS10	1.01	M-JPEG, MPEG-4	1	mic	1 / 0	-	320x240, 384x288, 640x480	✓ / -	R3.1.0
SNC-DS60	1.00	M-JPEG, MPEG-4	1	mic <sup>2</sup>	1 / 0	-	320x240, 384x288, 640x480, 768x576	✓ / -	R3.4.9, Transmits only one image per event
SNC-EB520	1.52.0	M-JPEG, MPEG-4, H.264	1	-	1 / 0	-	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 720x480, 720x576, 800x600	✓ / -	R4.5.1
SNC-EB600B	1.9.0	M-JPEG, H.264	1	-	-	-	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024	✓ / -	R4.5.2
SNC-EB630	1.6.0	M-JPEG, H.264	1	-	-	-	320x184, 352x240, 352x288, 640x360, 640x480, 704x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	✓ / -	R4.5.1
SNC-EM521	1.52.0	M-JPEG, MPEG-4, H.264	1	-	1 / 0	zoom	320x240, 352x240, 352x288, 640x480, 704x480, 704x576, 720x480, 720x576, 800x600	✓ / -	R4.5.1
SNC-EM600	1.6.0	M-JPEG, H.264	1	-	-	zoom	320x240, 352x288, 640x480, 704x576, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024	✓ / -	R4.5.1

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-EM630	1.6.0	M-JPEG, H.264	1	-	-	-	320x184, 352x240, 352x288, 640x360, 640x480, 704x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	✓ / -	R4.5.1
SNC-EM632R	1.8.0	M-JPEG, H.264	1	-	-	zoom	320x184, 352x240, 352x288, 640x360, 640x480, 704x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	- / -	R4.5.2
SNC-EP521	1.42.00	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 720x576	✓ / -	R3.4.40
SNC-EP550		M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x192, 320x240, 384x288, 640x368, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 800x600, 1024x576, 1280x720	✓ / -	R3.4.40
SNC-EP580	1.42.00	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x192, 320x240, 384x288, 640x368, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 800x600, 1024x576, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024, 1376x768, 1440x912, 1680x1056, 1920x1080	✓ / -	R3.4.40
SNC-ER521	1.42.00	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 720x576	✓ / -	R3.4.40
SNC-ER550		M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x192, 320x240, 384x288, 640x368, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 800x600, 1024x576, 1280x720	✓ / -	R3.4.40

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-ER580	1.42.00	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x192, 320x240, 384x288, 640x368, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 800x600, 1024x576, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024, 1376x768, 1440x912, 1680x1056, 1920x1080	✓ / -	R3.4.40
SNC-M		M-JPEG	1	-	-	-	160x120, 320x240, 640x480	- / -	R1.5.0
SNC-P1		M-JPEG, MPEG-4	1	mic <sup>2</sup>	1 / 0	-	160x120, 320x240, 480x360, 640x480, 252x192, 384x288	- / -	R1.5.0, MPEG since R3.0.0
SNC-P5	1.03, 1.02	M-JPEG, MPEG-4	1	mic <sup>2</sup>	1 / 0	pan-tilt, zoom, direct PT, stored positions	160x120, 320x240, 480x360, 640x480, 252x192, 384x288	- / -	MPEG since R3.0.0
SNC-RH124	1.02.00	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 768x576, 800x480, 1024x576, 1280x720	- / -	R3.4.11
SNC-RH164		M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 768x576, 800x480, 1024x576, 1280x720	- / -	R3.4.14, NT
SNC-RS44	1.02.00	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 720x480, 720x576	- / -	R3.4.11
SNC-RS46	1.02.00	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 720x480, 720x576	- / -	R3.4.11

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-RS84		M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 720x480, 720x576	- / -	R3.4.14, NT
SNC-RS86		M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, stored positions	320x240, 384x288, 640x480, 704x576, 720x480, 720x576	- / -	R3.4.14, NT
SNC-RX530	3.00	M-JPEG, MPEG-4, H.264	1	mic	1 / 0	pan-tilt, zoom, direct PT, stored positions	160x120, 320x240, 384x288, 640x480	✓ / -	Transmits only one image per event , R3.1.0
SNC-RX550	1.03, 3.00	M-JPEG, MPEG-4, H.264	1	mic	1 / 0	pan-tilt, zoom, direct PT, stored positions	160x120, 320x240, 384x288, 640x480	✓ / -	Transmits only one image per event
SNC-RX570		M-JPEG, MPEG-4, H.264	1	mic	1 / 0	pan-tilt, zoom, direct PT, stored positions	160x120, 320x240, 384x288, 640x480	✓ / -	R3.4.14, NT, Transmits only one image per event
SNC-RZ25	1.03	M-JPEG, MPEG-4	1	mic <sup>2</sup>	1 / 0	pan-tilt, zoom, direct PT, stored positions	160x120, 320x240, 480x360, 640x480, 252x192, 384x288	- / -	R1.5.1, MPEG since R3.0.0
SNC-RZ30	3.03	M-JPEG	1	-	-	pan-tilt, zoom, direct PT, stored positions	160x120, 320x240, 640x480, 763x480, 736x544	✓ / -	

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-RZ50	2.10	M-JPEG, MPEG-4, H.264	1	mic	1 / 0	pan-tilt, zoom, direct PT, stored positions	160x120, 320x240, 640x480	✓ / -	Transmits only one image per event , R3.1.0
SNC-XM631	2.2.0.alpha2	M-JPEG, H.264	1	-	-	-	320x184, 352x288, 640x360, 640x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	- / -	R4.5.2
SNC-XM632	1.12.0	M-JPEG, H.264	1	-	-	-	320x184, 352x240, 352x288, 640x360, 640x480, 704x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	- / -	R4.5.2
SNC-VB600	1.7.0	M-JPEG, H.264	1	mic	2 / 0	-	320x240, 352x288, 640x480, 704x576, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024	- / -	R4.4.6
SNC-VB600B	1.7.0	M-JPEG, H.264	1	mic	2 / 0	-	320x240, 352x288, 640x480, 704x576, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024	- / -	R4.4.6
SNC-VB630	1.7.0	M-JPEG, H.264	1	mic	2 / 0	-	352x288, 640x360, 640x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	- / -	R4.4.6
SNC-VB635	1..11..0	M-JPEG, H.264	1	mic	-	-	320x184, 352x240, 352x288, 640x360, 640x480, 704x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	- / -	R4.5.2
SNC-VM600B	1.7.0	M-JPEG, H.264	1	mic	-	-	320x240, 352x288, 640x480, 704x576, 720x480, 720x576, 800x600, 1024x768, 1280x720, 1280x960, 1280x1024	- / -	R4.4.6
SNC-VM630	1.7.0	M-JPEG, H.264	1	mic	-	-	352x288, 640x360, 640x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	- / -	R4.4.6
SNC-VM632R	1.8.0	M-JPEG, H.264	1	mic	-	zoom	320x184, 352x240, 352x288, 640x360, 640x480, 704x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	- / -	R4.5.2

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
SNC-WR600	1.12.0	M-JPEG, H.264	1	mic	-	PTZ	320x184, 352x240, 352x288, 640x360, 640x480, 704x480, 704x576, 720x480, 720x576, 1024x576, 1280x720	- / -	R4.5.2
SNC-WR630	2.2.0	M-JPEG, H.264	1	mic	-	PTZ	320x184, 352x240, 352x288, 640x360, 640x480, 704x480, 704x576, 720x480, 720x576, 1024x576, 1280x720, 1920x1080	- / -	R4.5.2
SNC-Z20	1.02	M-JPEG	1	-	-	zoom	160x120, 320x240, 640x480, 763x480, 736x544	- / -	R1.5.0
SNC-ZM550	1.72.01	M-JPEG, MPEG-4, H.264	1	-	-	zoom	320x192, 320x240, 384x288, 640x368, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 800x600, 1024x576, 1024x768, 1280x720, 1280x800, 1280x960, 1280x1024	- / -	R4.4.6
SNC-ZP550	1.72.01	M-JPEG, MPEG-4, H.264	1	-	-	pan-tilt, zoom, direct PT, stored positions	320x192, 320x240, 384x288, 640x368, 640x480, 704x576, 720x480, 720x576, 768x576, 800x480, 800x600, 1024x576, 1280x720	- / -	R4.4.6
SNT-EX101	1.02.00	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 384x288, 640x480, 704x576, 720x480, 720x576	- / -	1 channel, R3.4.11
SNT-EX104	1.02.00	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 384x288, 640x480, 704x576, 720x480, 720x576	- / -	4x1 channel, R3.4.11
SNT-V501		M-JPEG	1	-	-	-	320x240, 640x480	- / -	1 channel, R1.5.0
SNT-V704	1.28	M-JPEG	4 x 1	-	-	-	320x240, 640x480, 720x576, 720x480	- / -	4 channel

NT – not tested

**Note:**

- SNC-CH120, SNC-DH120, SNC-CH210, SNC-DH210: PTZ is available only in single stream H.264 or MPEG mode
- Stream parameter changes take effect only after a few seconds of the stream setup, so whenever we start a stream with new parameters, the camera first delivers the stream with the old settings and it changes the stream setup only after a few secs.
- Video out feature have to be turned off on the cameras webpage in order to use the second stream(MJPEG)
- 60fps mode is not supported (only 30 fps mode).
- In Observer we get H.264 (or MPEG4) stream on codec 1 and MJPEG stream on codec 2. There are numerous limitations in Sony cameras regarding the available codec setup combinations. These limitations are unique to each camera type. Whenever we send a setup command to a Sony camera it might or might not apply the settings to the image codec (depending on the mentioned camera specific limitations). In case one parameter is out of the actually possible range, then the camera ignores the whole setup command or in some cases turns the second image codec off. Unfortunately there's no feedback from the camera about the success (or failure) of the setup. Whenever the user receives „Digital Camera Failure“ event from Observer on getting MJPEG stream or whenever the user experiences that the camera delivers stream with not desired settings then the following actions should be taken:
  - Make sure the current setup in Observer conform to the camera's stream limitation documentation.
  - Stop all streams from the camera in Observer (both archive and online).
  - Setup the first image codec on the cameras page to H.264 and to the desired resolution and framerate.
  - Turn off the second image codec.

After this (in case the setup is conform to the camera limitations) Observer will deliver the streams correctly.

**2.35 TRENDnet**[www.trendnet.com](http://www.trendnet.com)

<b>Device</b>	<b>Tested firmware</b>	<b>Stream formats</b>	<b>M-JPEG streams</b>	<b>Audio</b>	<b>I/O</b>	<b>PTZ</b>	<b>Resolutions</b>	<b>FTP/HTTP</b>	<b>Comment and supported since release</b>
TV-IP200		M-JPEG	1	-	-	-	160x120, 320x240, 640x480	- / -	



## 2.36 Uniview

[www.uniview.com](http://www.uniview.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
IPC222ER-F36	IPC_8101-F5018P07D1603	M-JPEG, H.264	1	mic	-	-	352x288, 704x288, 720x576, 1280x720, 1920x1080	- / -	R4.6.7
IPC2322EBR-P	IPC_E5101-B5012P07D1603	M-JPEG, H.264	1	mic	-	-	352x288, 704x288, 720x576, 1280x720, 1920x1080	- / -	R4.6.7
IPC242E-DLIR-IN	IPC_5202-F5022P08D1603	M-JPEG, H.264	1	mic	-	-	352x288, 704x288, 720x576, 1280x720, 1920x1080	- / -	R4.6.7

### Note:

- If multistreaming is enabled the available resolutions for the MJPEG stream are limited, affected by the H264 stream settings (resolution, framerate). For valid combinations see the cameras web user interface.

## 2.37 Vision Hitech

[www.visionhitech.co.kr](http://www.visionhitech.co.kr)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
IPVM13	IP VISION 1.1.0.10	M-JPEG, H.264	1	mic	-	-	320x240, 640x480, 1280x720	- / -	R3.4.40

### Note:

- In case H264 set to 1280x720, then the valid MJPEG Resolutions are 320x240, 640x480, 1280x720
- In case H264 set to 640x480, then the valid MJPEG resolution is 640x480
- In case H264 set to 320x240, then the valid MJPEG resolution is 320x240

## 2.39 Vivotek

[www.vivotek.com](http://www.vivotek.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
FD7132	v0300a	M-JPEG, MPEG-4	1	-	-	-	176x144, 360x240, 640x480	- / -	R3.4.23
FD7141	v0101b	M-JPEG, MPEG-4	1	-	-	-	176x144, 360x240, 720x480	- / -	R3.4.20
FD8133	v0101b	M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x240, 640x400, 1280x720, 1280x800	- / -	R3.4.39
FD8134	v0102b	M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x240, 640x400, 1280x720, 1280x800	- / -	R3.4.39
FD8161	v0100h	M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x240, 640x480, 800x600, 1280x960, 1600x1200	- / -	R3.4.19, H.264 since 3.4.40
FD8361	v0100f	M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x240, 640x480, 800x600, 1280x960, 1600x1200	- / -	R3.4.20

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
IP7133	v0202a	M-JPEG, MPEG-4	1	-	-	-	176x144, 320x240, 640x480	- / -	R3.4.39
IP7134	v0201a	M-JPEG, MPEG-4	1	-	-	-	176x144, 320x240, 640x480	- / -	R3.4.20
IP7139	v0201b	M-JPEG, MPEG-4	1	-	-	-	176x144, 320x240, 640x480, 800x600, 1280x1024	- / -	R3.4.18
IP7142	v0300c	M-JPEG, MPEG-4	1	-	-	-	176x144, 352x240, 720x480	- / -	R3.4.20
IP7151	v0200g	M-JPEG, MPEG-4	1	-	-	-	176x144, 320x240, 640x480	- / -	R3.4.20
IP7153		M-JPEG, MPEG-4	1	-	-	-	176x144, 176x120, 320x240, 640x480	- / -	R3.4.40, NT
IP7154	v0100b	M-JPEG, MPEG-4	1	-	-	-	176x144, 176x120, 320x240, 640x480	- / -	R3.4.14
IP7160	v0103c	M-JPEG, MPEG-4	1	-	-	-	176x144, 176x120, 320x240, 640x480, 800x600, 1280x960, 1600x1200	- / -	R3.4.36
IP7161	v0102h102h	M-JPEG, MPEG-4	1	-	-	-	176x144, 320x240, 640x480, 800x600, 1280x960, 1600x1200	- / -	R3.4.18
IP7330	v0201b	M-JPEG, MPEG-4	1	-	-	-	176x144, 176x120, 320x240, 640x480	- / -	R3.4.36

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
IP7361	v0101d	M-JPEG, MPEG-4	1	-	-	-	176x144, 320x240, 640x480, 800x600, 1280x960, 1600x1200	- / -	R3.4.20
IP8151	v0100e	M-JPEG, MPEG-4, H.264	1	mic	-	-	176x144, 176x120, 320x240, 640x480, 800x600, 1280x1024	- / -	R3.4.36
IP8161	v0100m	M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x240, 640x480, 800x600, 1280x960, 1600x1200	- / -	R3.4.14, H.264 since 3.4.20
IP8162	v0100f	M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x180, 800x450, 1280x720, 1360x768, 1600x900, 1920x1080	- / -	R3.4.40
IP8330	v0100g	M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 320x240, 640x480	- / -	R3.4.23
IP8332	v0100i	M-JPEG, MPEG-4, H.264	1	-	-	-	320x200, 640x400, 1280x720, 1280x800	- / -	R3.4.23
IP8362	v0101b	M-JPEG, MPEG-4, H.264	1	-	-	-	176x144, 384x216, 640x360, 1280x720, 1360x768, 1600x904, 1920x1080	- / -	R3.4.39

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
MD7560	v0100e	M-JPEG, MPEG-4	1	-	-	-	176x144, 320x240, 640x480, 800x600, 1280x960, 1600x1200	- / -	R3.4.39
PZ71x2	v0104c	M-JPEG, MPEG-4	1	-	-	pan-tilt, zoom, direct PT, continuous PT	176x144, 176x120, 352x240, 352x288, 704x480, 704x576	- / -	R3.4.14
SD7313		M-JPEG, MPEG-4	1	-	-	pan-tilt, zoom, direct PT, continuous PT	176x144, 176x120, 352x240, 352x288, 704x480, 704x576	- / -	R4.3.13/R4.4.0, NT
SD7323	v0102a	M-JPEG, MPEG-4	1	-	-	pan-tilt, zoom, direct PT, continuous PT	176x144, 176x120, 352x240, 352x288, 704x480, 704x576	- / -	R3.4.18
SD8121	v0100g	M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, continuous PT	176x144, 176x120, 352x240, 352x288, 704x480, 704x576, 720x480, 720x576	- / -	R3.4.40
SD8312		M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, continuous PT	176x144, 176x120, 352x240, 352x288, 704x480, 704x576, 720x480, 720x576	- / -	R4.3.13/R4.4.0, NT
SD8322		M-JPEG, MPEG-4, H.264	1	mic	-	pan-tilt, zoom, direct PT, continuous PT	176x144, 176x120, 352x240, 352x288, 704x480, 704x576, 720x480, 720x576	- / -	R3.4.40

**Note:**

IP8162, IP8362 requires very high performance client computer to display high framerate high resolution H264 stream without glitches.

## 2.40 Zavio

[www.zavio.com](http://www.zavio.com)

Device	Tested firmware	Stream formats	M-JPEG streams	Audio	I/O	PTZ	Resolutions	FTP/HTTP	Comment and supported since release
F210A	LM.1.6.18P5_r1077	M-JPEG, MPEG-4	1	mic	-	-	160x120, 320x240, 640x480	- / -	R3.4.40
F3101	LM.1.6.03P3_r1072	M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 640x480, 1280x720, 1280x1024	- / -	R3.4.40
F3105		M-JPEG, MPEG-4, H.264	1	mic	-	-	320x240, 640x480, 1280x720, 1280x1024	- / -	R3.4.39, NT
F3201	M2.1.5.01	M-JPEG, MPEG-4, H.264	1	mic	-	-	160x120, 320x240, 640x480, 1024x768, 1280x720, 1280x960, 1280x1024, 1920x1080	- / -	R3.4.40
F531E	LM. 1.6.18	M-JPEG, MPEG-4	1	mic	-	-	160x120, 320x240, 640x480	- / -	R3.4.40
P5110		M-JPEG, MPEG-4	1	mic	-	-	160x120, 320x240, 640x480	- / -	R3.4.39, NT

### Note:

- F3101 produces the H264 and M-JPEG streams on the same channel. If you need to retrieve two streams in the same time (E.g recording and monitoring) select one of them as MPEG-4 and the second one as H264 or M-JPEG, please. Observer always applies the default settings for M-JPEG and H264 streams.
- 1280x1024 resolution is not supported in H264 mode for the F3101 camera.

### 3 Camera setup for in-camera motion detection (FTP-based)

Many IP cameras and video servers support in-camera motion detection and upload (push) of these event triggered images via FTP or HTTP to a video management system like Observer. Observer implements a general mechanism to handle this feature. However, the actual configuration of the motion detection algorithms must be done in the camera since each camera implements its own way of setting the parameters.

For setup of in-camera motion detection in Observer please refer to the *NETAVIS Observer User Manual*.

Below you find how to setup this feature in the camera so that it works together with Observer.

**Note:** After setting up the camera:

- Do not forget to check and set the date and time of the camera to reflect your current time.
- Configure Observer for in-camera motion detection by selecting the **Receive event images via FTP** in the **Camera Admin** dialog too.
- Please note that when you change the value of an alarm parameter in the camera Observer will have no notion about it. In this version of Observer to reflect your changes you have to force the software to reread these parameters. To do so please change the state of the **Receive event images via FTP** checkbox first to unchecked, save your changes. Then make your changes in the camera and save it. When you have finished change the state of the checkbox (in the Observer client) back to checked and save your changes again.

**Note:** In-camera motion detection cannot be used on a camera in parallel with other types of recordings!

#### 3.1 Axis

1. Start a browser connection to your camera and go to its setup page.
2. Select **Event Configuration**. In this step we will setup the FTP server. Please click on the **Event Servers** item. The right side of your screen contains the list of currently defined servers or the list should be empty. To enter a new server, please click on the **Add FTP...** right below the list. For **Name** enter the common name of your server. Into the **Network address** field please enter the IP address of the server where this camera is connected to (e.g. 192.168.6.2). For the **Upload path** enter **ftp**. In the login part use **ftp** for **Login name** and **a@b** for **Password**. Now you can test the connection. If the test was completed with success, save your changes by clicking the **OK** button.
3. In this step we define a motion detection window which will trigger events. To do it please click on the **Motion Detection** item on the left. Drag and resize the available windows to areas which you want to make sensitive for motion, or create new ones. Set the sensitivity and other parameter values to your needs and save it.
4. Now we define an action which binds the event to a server. To do it please select **Event Types** from the item list on the left. This action will transfer trigger frames to the FTP server we've defined above. To define a new action click on **Add triggered...** right below the list. Leave the top two parts and start your editing in the **Triggered by...** part. Select **Motion detection** from the drop-down list and the name of the window from the **In window** drop-down. Leave the **when motion detection on start**. In the next part check the **Upload images**. Set **FTP** for **Select upload type** and your server as **Primary**. Check the **Include pre-trigger buffer** and **Include post-trigger buffer** items and set values for your needs. For the **Base file name** enter **cameraID\_%s.%f.jpg** (substitute cameraID with the numeric ID assigned to the camera in Observer, e.g. 20) and below it the **Overwrite/Use Own file format** radio button. This will ensure that Observer can parse and identify the uploaded images. Entering the correct file name is very important, files having different names will be discarded! At the end of the definition click **OK** to save your changes.



### 3.2 Robotix

1. Start a browser, connect to your camera, and go to its setup page.
2. Select **Admin Menu**. In this step we will setup the FTP server and profile. Please click on the **FTP Profiles** item. Starting from the top please enter the IP address of the server where this camera is connected to (e.g. 192.168.6.2). In the login part use **ftp** for **User name** and **a@b** for **Password**. Leave the **Connection** on **Passive FTP**.
3. To setup a profile scroll down to **FTP Profile 2: FTP-AlarmClip**. For the **Directory Name** use **ftp**. Do not forget to include the "/" at the end! For **File Name** enter **cameraID\_\$(TMS.TIMET).jpg** (substitute **cameraID** with the numeric ID assigned to the camera in Observer, e.g. 20). For **File Type** select **MxPEG or JPEG clip** (or **Video Clip** for cameras with later firmware) and **Clip as JPEG file(s)** for **Clip File Type** (or **Single JPEG file(s)** for cameras with later firmware). For frame rate and pre/post times enter the values for your needs. Make sure that **File Options** is set to **Disabled**, else Observer will show an error event that the FTP directory setup is wrong. At the end of the definition click **Set** to save your changes.
4. Now we define a motion detection event and an action which binds the event to a server. To do it please select **Setup Menu**, then **Event Settings** from the item list. Check the **Video Motion Window** and define rectangles for your needs. Click **Set** to save your changes. To define the action click on **Actions**. Enable the profile and select **VM - Video Motion** from the **Event Selection** list. In the Actions part select **FTP-AlarmClip** from the **File Transfer Action** drop-down list. Click **Set** to save your changes. To turn on event generation go into **General Event Settings** and enable arming.

### 3.3 Sony

1. Start a browser connection to your camera and go to its setup page.
2. Select **Setting**. In this step we will setup the FTP server. Please click on the **FTP client** item. Starting from the top select **On** for the **FTP client function**, then enter the IP address of the server where this camera is connected to (e.g. 192.168.6.2). In the login part use **ftp** for **User name** and **a@b** for **Password**. Leave the **Passive mode** on **Off**. At the end of the definition click **OK** to save your changes.
3. Now change to the **Alarm sending** tab, turn **Alarm sending** on. For **Remote path** use **ftp**. For the **Image file name** enter cameraID\_ (substitute cameraID with the numeric ID assigned to the camera in Observer, e.g. 20). For **Suffix** use **Date & time**. For **Alarm** select **Object/Motion detection** and for **Effective period** **Always**. Leave the **Alarm buffer** unchecked. At the end of the definition click **OK** to save your changes.
4. To define a motion detection window please select **Object/Motion detection** from the item list. Define your motion windows tune detection parameters and save your changes.

### 3.4 Panasonic BB-HCM381, BB-HCM311

1. Start a browser connection to your camera and go to its **Setup** page.
2. Select **Trigger**. To setup a motion detection trigger with FTP please click on one of the numbers e.g. **1**. This will start a wizard which navigates you through the whole setup procedure. Please fill in at least the following:
  - Check **Enable Image Buffer/Transfer**, select **Motion Detection** for **Trigger**, then click on **Next>**.

- Check **Always**, then click on **Next>**.
  - Leave **Lens Position When Triggered** as it is, then click on **Next>**.
  - Leave **Image Setting** as it is, then click on **Next>**.
  - Check **Enable Pre-trigger Image Buffer** and set the number of images you wish to be included. Do the same for port-trigger images, then click on **Next>**.
  - Select **FTP** for **Transfer Method**, then click on **Next>**.
  - On the **FTP** page enter the IP address of the server where this camera is connected to (e.g. 192.168.6.2). In the login part use **ftp** for **Login ID** and **a@b** for **Password**. For **Upload File Name** use **ftp/cameraID\_** (substitute cameraID with the numeric ID assigned to the camera in Observer, e.g. 20). For **Overwrite Setting** select **Save as New File with Time Stamp**. For **Data Transfer Mode** use **Passive mode**. Leave all other fields unchanged. Now click on **Next>**.
  - Leave **E-mail notification when triggered** as it is, then click on **Next>**. On the last page please click **Save** to save our modifications.
3. To define motion detection and parameters please select **Motion detection** from the item list. After fine-tuning your motion detection parameters do not forget to save your changes.

### 3.5 Panasonic WV-NP472 and WV-NS324

1. Start a browser connection to your camera and go to its **Setup Menu** page.
2. First we will setup alarm recording and FTP client parameters. To do so please select **Alarm**. Scroll down to the **Recording Setup** section and enter the desired number of pre/post alarm frames and their frame rates. Click on **SET & REBOOT** to save your modifications.
3. Now select the **FTP Client** page. Fill out the **Common Setup** part as follows:
  - Enter the IP address of the server where this camera is connected to (e.g. 192.168.6.2). In the login part use **ftp** for **User Name** and **a@b** for **Password**. Leave **Passive Mode** checked. Set **FTP Enable Time 1** from **0:00** to **23:59** and check all days of the week.
  - Now scroll down to the **Alarm FTP Transmission Setup** section. Turn transmission **ON**. For **Directory** use **ftp**. For **File Name** enter cameraID\_ (substitute cameraID with the numeric ID assigned to the camera in Observer, e.g. 20). Click on **SET & REBOOT** to save your modifications.
4. To define motion detection and parameters return to the main page of your camera and select **Camera Setup**. Using the on-screen menu set motion windows and parameters. After fine-tuning the parameters do not forget to save your changes.

### 3.6 Panasonic WV-NP244 and WV-NP1004

1. Start a browser connection to your camera and go to its **Setup** page.
2. Now we will setup alarm recording parameters. To do so please select **Alarm Setup**. In the **Alarm setup** section enable the **VMD alarm** by selecting the **On** radio button. Click on **SET** to save your modifications.
3. Scroll down to the **Alarm image setup** section select **On** for **Alarm image FTP transmission**. For **Directory** use **ftp**. For **File Name** enter cameraID\_ (substitute cameraID with the numeric ID

assigned to the camera in Observer, e.g. 20). Enter the desired number of post alarm frames and their frame rates. Click on **SET** to save your modifications.

4. To define motion detection scroll up and select the **VMD area** tab. Fine-tuning the parameters and finally save your changes.
5. Now select the **Server setup** from the left-hand side menus. Then click on the **FTP** tab. Enter the IP address of the server where this camera is connected to (e.g. 192.168.6.2). In the login part use **ftp** for **User Name** and **a@b** for **Password**. Leave **Passive Mode** checked. Click on **SET** to save your modifications.

## 4 Camera setup for in-camera motion detection (HTTP-based)

Many IP cameras and video servers support in-camera motion detection and upload (push) of these event triggered images via FTP or HTTP to a video management system like Observer. Observer implements a general mechanism to handle this feature. However, the actual configuration of the motion detection algorithms must be done in the camera since each camera implements its own way of setting the parameters.

For setup of in-camera motion detection in Observer please refer to the *NETAVIS Observer User Manual*.

Below you find how to setup this feature in the camera so that it works together with Observer.

**Note:** After setting up the camera:

- Do not forget to check and set the date and time of the camera to reflect your current time.
- Configure Observer for in-camera motion detection by selecting the **Receive event images via HTTP** in the **Camera Admin** dialog too.
- Please note that when you change the value of an alarm parameter in the camera Observer will have no notion about it. In this version of Observer to reflect your changes you have to force the software to reread these parameters. To do so please change the state of the **Receive event images via HTTP** checkbox first to unchecked, save your changes. Then make your changes in the camera and save it. When you have finished change the state of the checkbox (in the Observer client) back to checked and save your changes again.

### 4.1 Panasonic BB-HCM381

1. Start a browser connection to your camera and go to its **Setup** page.
2. Select **Trigger**. To setup a motion detection trigger for HTTP you HAVE TO setup the FIRST trigger. Please click on number **1**. This will start a wizard which navigates you through the whole setup procedure. Please fill in at least the following:
  - Do not check **Enable Image Buffer/Transfer**, select **Motion Detection** for **Trigger**, then click on **Next>**.
  - Check **Always**, then click on **Next>**.
  - Leave **Lens Position When Triggered** as it is, then click on **Next>**.
  - Leave **Image Setting** as it is, then click on **Next>**.
  - Check **Enable Pre-trigger Image Buffer** and set the number of images you wish to be included. Do the same for port-trigger images, then click on **Next>**.
  - Select **No Transfer, No Memory Overwrite** for **Transfer Method**, then click on **Next>**.
  - On the next page simply click on **Next>**.

- Leave **E-mail notification when triggered** as it is, then click on **Next>**. On the last page please click **Save** to save our modifications.
3. To define motion detection and parameters please select **Motion detection** from the item list. After fine-tuning your motion detection parameters do not forget to save your changes.

## 4.2 Panasonic WV-NP472 and WV-NS324

1. Start a browser connection to your camera and go to its **Setup Menu** page.
2. First we will setup alarm recording parameters. To do so please select **Alarm**. Scroll down to the **Recording Setup** section and enter the desired number of pre/post alarm frames and their frame rates. Click on **SET & REBOOT** to save your modifications.
3. To define motion detection and parameters return to the main page of your camera and select **Camera Setup**. Using the on-screen menu set motion windows and parameters. After fine-tuning the parameters do not forget to save your changes.