

# Axxon Intellect Enterprise 4.9.0

## Release Notes

28 February 2014 AxxonSoft releases version 4.9.0 of the Intellect PSIM.

Learn more about Intellect on the product page:

[http://www.axxonsoft.com/products/axxon\\_enterprise](http://www.axxonsoft.com/products/axxon_enterprise).

The list of changes in version 4.9.0 is available on

<https://doc.axxonsoft.com/confluence/display/Int490en/New+features+in+Intellect+4.9.0>.

## New features and improvements

1. Video and VMDA modules are now available in 64-bit versions, which allows increasing the number of cameras functioning on a single server thanks to elimination of the ceiling on application RAM use (2 GB for 32-bit applications).
2. Separate (different) streams can be used:
  - Default (used for displaying video on the local monitor and on remote clients).
  - Video analytics (for detection tools).
  - Archive.
3. GreenStream functionality (similar to video scaling) saves bandwidth by automatically switching to the most efficient multistreaming feeds. When a camera is displayed in a small viewing tile, a low-resolution stream is used; when the camera is displayed in a large viewing tile, a high-resolution stream is used. This option can be disabled.
4. When video from a camera is displayed in a Video Surveillance Monitor, it is now possible to get video directly from the device and not through the Server to which the camera is connected. This works best when a camera is multicasting and the camera driver supports this (see the list of cameras that support multicasting). If the camera is in multistreaming mode, a stream can be selected for display (see the list of cameras that support multistreaming).
5. Updated Intellect interface.
6. New OS support added: Windows 8.1 and Windows Storage Server 2008 R2 SP1.
7. Video capture cards have been rebranded. For existing video capture cards, it is now also possible to select the original name as the card type; for new cards, only the original name can be selected.



8. Integration has been implemented for video capture cards with software compression (SC230N4 (FS116), SC330N4, MS416) and with hardware compression (SC590N4).
9. Integration of PTZ protocols:
  - Bosch VG5 AutoDome 700 Series;
  - Bosch VG5 AutoDome 800 Series;
  - Bosch G3.
10. The Lilin PIH-800III and Bosch IntuiKey keyboards are now supported for controlling PTZ devices.
11. The EventProcessingThreads registry key has been added, which reserves the specified number of threads for event processing.
12. The ArchFreeMB registry key has been added, which allows specifying the amount of space that is not be used for deep archive storage on a partition that is used for loop recording of a deep archive.
13. New Video Surveillance Monitor interface has been developed for fisheye cameras.
14. It is now possible to replace an Operator password when system login is performed for the first time, when the password expires, and at operator request.
15. "Four eyes" system login is now supported: if this method is enabled, a user must receive confirmation from another user in order to log in to the system.
16. Pixelization / privacy masking of faces is now supported in Live Video mode.
17. Video can now be rotated in the Video Surveillance Monitor. Rotation is available in pre-specified increments of 90, 180, and 270 degrees.
18. PTZ commands can be assigned to joystick keys and mouse buttons from the Intellect interface, without needing to edit registry keys.
19. A Language Pack has been developed for automatically setting the Intellect interface language and adding system documentation.
20. Product language can be switched through the Tweaki advanced configuration utility.
21. New iOS client for Intellect.
22. New type of activation key (computer is hard-coded in the key). The key indicates the number of cameras allowed for each computer.
23. Recompression and codec can both be selected through the interface of the Camera object in Intellect.



24. New options (with opportunity to make a choice of codec or save in the original format, by default):
  - You can now configure video recompression on Video Gateway. Recompression is performed on the gateway's video source.
  - You can now configure video recompression in Deep Archive. Recompression is performed on the Deep Archive side.
25. Time intervals in recorded video archives can now be exported from external storage to a file on disk, through the Video Surveillance Monitor interface. The file is exported in the device format. Starting the export process is similar to that for the main Intellect archive.
26. A new Macro Event object has been added, which generates an event if a chain of events happens (or does not happen) within a specified time interval.
27. Event parameters can be specified in a macro, similarly to reaction parameters.
28. Parameters can now be added for events by using the ddi.exe utility.
29. Archive video recorded during a certain period can be exported from the Video Surveillance Monitor interface to a single AVI file.
30. Configuration parameters of Intellect objects can be saved to a file, with support for later import of parameters from the file.
31. New version of the MotionWavelet 7.1 codec has been integrated. The codec is available in two editions: 32-bit and 64-bit.
32. The tweaki.exe advanced configuration utility can now configure the number of frames in a face archive file.
33. Incremental digital zoom can now be configured through the advanced configuration utility.
34. The zoom and focus speed of the camera lens can be adjusted via camera controls in the Video Surveillance Monitor.
35. A computer's IP address can now be changed for all dependencies simultaneously.
36. During connection setup on a distributed system, the system can now be checked for computers that have a specified IP address. If an existing IP address is entered, a message informs that the address is already in use. The current computer is assigned the entered IP address.
37. VMDA detection tools can now be armed/disarmed by macros.
38. The System Restart Service module now has a field that displays the current uptime of modules since the last restart.



39. The Intellect main menu can be opened via the icon in the Windows taskbar notification area.
40. The Intellect main menu can now be accessed by holding down the F8 key.
41. Interface for the HubSearch utility has been added. Visualization has been added for the device discovery process.
42. A destination IP address can now be set during multicasting from an RTSP server.
43. The map context menu now allows navigating between map layers.
44. Information on average CPU load, RAM use, and Average Disk Queue Length can now be obtained. Corresponding logs are added to the file slave.log and copied to the support package.
45. The collection period for counter data to be included in the Intellect activity log can now be specified. This option is enabled via the tweaki.exe advanced configuration utility or via the counter\_period registry key.
46. A new LDAP Service module allows importing data from LDAP address books to an Intellect database. Data is imported via a macro.
47. The interface of the index.exe utility has been improved. Time spent on reindexing is now displayed.
48. Captions can be displayed in the AxxonSoft video player (Axxon\_Player.exe).
49. The itvscript.exe process can be automatically restarted if it closes in error.
50. In the settings of the Face Detection Tool, it is now possible to specify an external server for performing facial recognition.
51. The camera ID can be hidden in viewing tiles, by means of the ShowID registry key.
52. A new event from the Object Tracker object has been added, which allows determining that a camera tracker has not sent metadata to a VMDA server during a particular time interval, with the amount of time specified in the InactiveInterval registry key. This event type allows automatically identifying camera trackers that are either non-functional or misconfigured.
53. Verification of whether cameras are recording in loop (ring) mode is now available via the GET\_LIST command (is\_ring<> parameter).
54. The ARCHIVE\_DEPTH event has been added for measuring the archive depth (in hours) of video recorded by a camera or on disk. The event is sent every day at midnight or when requested by a reaction (via the GET\_DEPTH command with the cam<> and drive<> parameters).



55. Events have been added for user access to/exit from archives as well as the time of a frame, which can be enabled via the ClientArchMessage registry key.
56. The SET\_IPINT\_PARAM reaction has been added for changing IP device parameters without needing to access the device's web interface, by means of a program or JScript script.
57. Mechanism has been implemented for sending metadata on license plates from capable IP cameras to Intellect.
58. Commands for starting and stopping recording are now prioritized (via the priority<> parameter of the reactions REC and REC\_STOP).
59. When Intellect is installed as a service, it is now possible to perform monitoring from a non-administrator Windows account.
60. When Intellect is installed as a service, Intellect is started again after an attempt by a user in the Intellect Users group to log in to the system. The Intellect Users group has all necessary rights in the system.
61. New registry keys added:
  - DisappearedAlarmDuration – length of time (in seconds) after which an alarm is discarded by the object disappearance detection tool.
  - LongInZoneTimeout – determines the threshold duration of object presence in a zone after which the Present in zone for more than 10 sec. detection tool is triggered.
62. The CorrectFrameNumber registry key has been added for redetermining frame numbers during playback of an archive in the AxxonSoft player (Axxon\_Player.exe) if the frames were written to the archive under an incorrect number.
63. The DumpYUV registry key has been added, which enables dumping of the video received by the compressor.
64. A JScript function (GetUserId) has been added to identify the ID of the current user based on computer ID.
65. The GetEventDescription function has been implemented in JScript for getting natural-language descriptions of events.
66. A JScript function (IsAvailableObject) has been implemented for determining the rights that the current user has with respect to an object created in the device tree.
67. A JScript command (SET\_OBJECT\_GEOMETRY for the MAP object) has been added for changing the position of object icons on a map.



68. The font size for captions used to display the camera name and date/time in exported AVI files can now be changed. The font is specified in the captioner with the smallest ID (for the corresponding camera).
69. Four video views are possible from the Geovision GV-FE420 camera: single view, quad view, 2x180 view, and 360 view (dewarped). The original view sent from the camera, circle view, is available as well.
70. AreaZoom functionality has been added. A selected area can be visualized with a rectangular frame.
71. Watchdog has been added for the FX-116 video card. The video card is now supported in Intellect.
72. The core product can now be updated without removing vertical (industry-specific) solutions.
73. When video is exported to AVI, the date can now be displayed in the format appropriate for the language that is indicated in the regional settings of the system.
74. The debugger window can now be cleared and has configurable line colors and filters (via regular expressions), as well as search functionality.
75. AAC audio can now be decoded for some Vivotek and Axis cameras.
76. The 32-bit G726 codec can now be used for sending sound to cameras.
77. Objects can be sorted by name during configuration of user rights.
78. Sorting by name is now possible in the following lists: Object Type (SNMP trap object), Server (Monitoring Client object), Type (Operator Log object), and Type (Event Log object).
79. For the PTZ Control Panel, Event Log, Operator Log, Map, Audio Player, Fisheye Camera Monitor, and Live Sound Board objects, it is now possible to select the number of the monitor on which the interface object will be displayed.

**Registry entries guide is available on**

<https://doc.axxonsoft.com/confluence/display/Int490en/Registry+keys+added+in+the+Intellect+4.9.0>.

**Fixes**

1. Fixed error with incorrect identification of license plate position in video during use of Tattile cameras.
2. Fixed error: previously, only the first camera was turned during attempts to perform PTZ control of any camera through the Video Surveillance Monitor or PTZ Control Panel.



3. Quitting the Slave.exe process no longer causes an issue where the child processes do not quit and continue to run.
4. Fixed error that prevented the Intellect.exe module from quitting.
5. Fixed error that prevented detection tools from being triggered on the Wave Server StreamLabs 1554S at high and full resolution.
6. Fixed error that prevented events about the end of video fragment export from being recorded in the Event Log database.
7. Fixed error that prevented connections with a remote server from being restored after lost.
8. Fixed problem with incorrect display of PTZ icons on the map.
9. Fixed error: button for hiding all screens in the main menu was displayed below the list of screens.
10. Fixed error that prevented logging in to the web server through a domain user.
11. Fixed error that prevented display of the current frame rate value in the Video Surveillance Monitor.
12. Fixed error that caused long loading times for events in the Event Log after startup of Intellect.
13. Fixed error that made the configuration panel inaccessible for computers for which connections are not present in the architecture.
14. Fixed error: performance of a search query in an archive from an operator log would complete with a timeout error.
15. Fixed error that in some cases prevented system modules other than Intellect.exe from being quit when no longer needed when the system restart service is active.
16. Fixed error with reaction queue accumulation occurring due to write reaction of the Web Server 2.0 module socket.
17. Fixed error involving forensic archive search: video recorded most recently was not displayed in search results until restart of Intellect.
18. No longer necessary to restart the remote administrator workstation to display video after handing off objects to a backup Server.
19. Protocol has been corrected for some PTZ commands.
20. Fixed error with jerky video playback during use of a large number of cameras.
21. Fixed error occurring during specification of time intervals.



22. Fixed error in restriction of access rights for Operators on the server on which the Administrator is working.
23. Fixed error that prevented performing PTZ control via the Bosch-Autodome 1.0/4.0 protocols from the Video Surveillance Monitor and PTZ Control Panel.
24. Fixed error that caused the sensor to not work on Bosch NWC-495-10P cameras.
25. Delay has been removed during selection of time markers in the archive for ArecontVision cameras (2560x1600 MJPEG).
26. Fixed memory leaks that occurred during deletion of the VMDA detection tools.
27. The mechanism for frame-by-frame positioning in archives that use codecs with keyframes has been fixed for situations when keyframes are rarely selected.
28. Fixed error that completely blocked the user from viewing archives through the web browser client if the user had been added with time-limited rights for viewing archive video.
29. Fixed error involving delays during display on the Client of video streams from several cameras simultaneously.
30. Fixed mechanism for deleting expired archive materials.
31. Fixed error: the Custom Dialogue Box is no longer displayed only on the monitor assigned to the operator, but on other system monitors as well.
32. Fixed problem that prevented controlling a PTZ camera through the PTZ Control Panel if Camera and PTZ Controller objects had been previously created on different cores of the distributed system.
33. Fixed problem that caused jerky video playback on other monitors when slideshow mode is activated on one monitor.
34. Fixed problem that prevented assigning a partition to a camera.
35. Fixed timeout error during generation of large reports in the operator log.
36. Fixed error related to Deep Archives ignoring the end of the archiving period.
37. Fixed error related to unsynchronized playback of video and audio during archive playback due to insufficient computer resources. New MonitorSkipArchFramesEnable registry key allows enabling skipping of frames during playback.
38. Fixed crashing of video module when switching between screens in cases when screens contain monitors with a large number of cameras (over 150).





39. Fixed error related to long transfer of metadata from object trackers to the VMDA metadata DB. Conditions for dumping metadata to disk have been added: every 65 seconds, every 1,000 recordings with different time markers, or if the number of recordings with different time markers in a single file exceeds 9/10 of the hard limit (24,000). Metadata is also dumped before a query is performed.
40. New version of the driver for Yuan video capture cards has been integrated, resolving an issue related to artifacts in compressed streams from WS216 cards.
41. A number of minor bugs have been fixed and product stability has been improved.
42. The documentation is updated.

**Product documentation:**

<https://doc.axxonsoft.com/confluence/display/Int490en/Documentation>

**Download the Intellect 4.9.0 installer:**

<http://www.axxonsoft.com/resources/downloads.php>



## Restrictions in version 4.9.0 of the Intellect PSIM

1. Intellect 4.9.0 is compatible with the following vertical solutions:

- Auto Intellect 5.0;
- POS Intellect 5.0;
- Face Intellect 6.0;
- ATM Intellect 5.0;
- Monitoring 5.0;
- Intellect Web Report System 3.0;
- Intellect Detector Pack 2.0;
- ACFA 5.0.

Intellect 4.9.0 does not support older versions of vertical solutions.

2. Older versions of Intellect are not compatible with the versions of vertical solutions listed above. For information on versions compatibility see the <https://doc.axxonsoft.com/confluence/display/ASdoc/General+information+about+product+releases+and+versions+compatibility> page.
3. Intellect 4.9.0 is compatible with IpDriverPack version 3.2.22 or later.
4. The following features are not supported during use of 64-bit modules:
- facial detection tool;
  - point&click by means of Intellect;
  - recording to archive and transmitting to clients from analog cards with software compression and default compressor settings (MotionWavelet 7.1, MotionWavelet 7.1 intr or MJPEG compressors are to be activated for proper functioning).
5. Video is not displayed during use of devices with no support for 64-bit modules. The list of IP devices with support for 64-bit modules (List of supported IP-devices in DriversPack) is available on <http://www.axxonsoft.com/resources/downloads.php>.



## Cameras with multistreaming

### *Axis*

- Axis M1011
- Axis M1011-W
- Axis M1013
- Axis M1014
- Axis M1031-W
- Axis M1054
- Axis M1103
- Axis M1104
- Axis M1113
- Axis M1114
- Axis M1144-L
- Axis M3004-V
- Axis M3005-V
- Axis M3006-V
- Axis M3007-P/-PV
- Axis M3011
- Axis M3014
- Axis M3113-R
- Axis M3114-R
- Axis M3203
- Axis M3204
- Axis M5013
- Axis M5014/-V
- Axis M7014 encoder
- Axis P1311
- Axis P1343
- Axis P1344
- Axis P1346
- Axis P1347
- Axis P1353/-E
- Axis P1354/-E
- Axis P1355/-E
- Axis P1357/-E
- Axis P3301/-V
- Axis P3304/-V
- Axis P3343



- Axis P3344
- Axis P3346/P3346-VE
- Axis P3353
- Axis P3354
- Axis P3363-V/VE
- Axis P3364-V/VE
- Axis P3367-V/VE
- Axis P5512
- Axis P5522
- Axis P5522-E
- Axis P5532
- Axis P5534
- Axis Q1602/-E
- Axis Q1604/-E
- Axis Q1755
- Axis Q1910
- Axis Q1921/-E
- Axis Q6032/Q6032-E
- Axis Q6034
- Axis Q6034-E
- Axis Q6035/Q6035-E
- Axis Q7401 encoder
- Axis Q7404 encoder
- Axis Q7406 encoder
- Axis Q7414

### ***Bosch***

- Bosch NBC-255-P
- Bosch NBC-455-12P
- Bosch NBN-498-12P
- Bosch NBN-733V-IP
- Bosch NBN-932V-IP
- Bosch NDC-265-P
- Bosch NDC-455V09-12PS
- Bosch NDN-832V03-P
- Bosch NIN-832-V03P
- Bosch NWC-0455-10P
- Bosch NWC-0495-10P
- Bosch NWD-495V03-10P



- Bosch VG4-3xx series
- Bosch VG5 AutoDome 700 Series
- Bosch VG5 AutoDome 800 Series
- Bosch VIP X1 encoder
- Bosch VIP X1 XF encoder
- Bosch VIP X1600 encoder
- Bosch VIP X1600 M4SA
- Bosch VIP-X1600 XFM4
- Bosch VJR-F801-lxxV
- Bosch VOT-320V060L

### *Vivotek*

- Vivotek CC8130
- Vivotek FD7131
- Vivotek FD7141
- Vivotek FD8131/V
- Vivotek FD8134/V
- Vivotek FD8135H
- Vivotek FD8136
- Vivotek FD8137H/FD8137HV
- Vivotek FD8151V
- Vivotek FD8161
- Vivotek FD8162
- Vivotek FD8335H
- Vivotek FD8361
- Vivotek FD8362E
- Vivotek FE8171V
- Vivotek FE8172 / FE8172V
- Vivotek IP7130
- Vivotek IP7133
- Vivotek IP7138
- Vivotek IP7139
- Vivotek IP7154
- Vivotek IP7160
- Vivotek IP7161
- Vivotek IP7330
- Vivotek IP7361
- Vivotek IP8133/W
- Vivotek IP8151
- Vivotek IP8151P



- Vivotek IP8152
- Vivotek IP8161
- Vivotek IP8162/-P
- Vivotek IP8172(P)
- Vivotek IP8330
- Vivotek IP8332
- Vivotek IP8335H
- Vivotek IP8352
- Vivotek IP8362
- Vivotek IP8371E
- Vivotek MD7560D
- Vivotek MD8562
- Vivotek PT8133/W
- Vivotek PZ7111
- Vivotek PZ7131
- Vivotek PZ81x1/W
- Vivotek SD73x3 series
- Vivotek SD81x1
- Vivotek SD8362E
- Vivotek SD8363E
- Vivotek SD83X2
- Vivotek SD83X3
- Vivotek VS8102 encoder
- Vivotek VS8401 encoder

## Cameras with partially supported multistreaming

### *Arecont Vision*

- Arecont Vision AV10005/-DN
- Arecont Vision AV10115/-DN/-AI
- Arecont Vision AV1115/-DN/-AI
- Arecont Vision AV1125/-DN/-IR
- Arecont Vision AV12186DN
- Arecont Vision AV1305/-DN/-AI
- Arecont Vision AV1315/-DN/AV1325/-DN/-IR
- Arecont Vision AV1355/-DN/-HK/-DN-HK
- Arecont Vision AV20185DN / AV20365DN
- Arecont Vision AV2105/-DN/-AI
- Arecont Vision AV2115/-DN/-AI



- Arecont Vision AV2115v1 / AV2115DNA1v1 / AV2115DNv1 / AV2145-3310-D(-LG) / AV2145-3310-W / AV2145-04-D(-LG) / AV2145-04-W / AV2145DN-3310-D(-LG) / AV2145DN-3310-W / AV2145DN-04-D(-LG) / AV2145DN-04-W
- Arecont Vision AV2116DNv1 / AV2146DN-3310-D(-LG) / AV2146DN-3310-W / AV2146DN-04-D(-LG) / AV2146DN-04-W
- Arecont Vision AV2125/-DN/-IR
- Arecont Vision AV2155/-DN/-HK/-DN-HK
- Arecont Vision AV2255AM(IR)/-A/-H/-AH
- Arecont Vision AV2256PM-IR
- Arecont Vision AV2456DN-F
- Arecont Vision AV2805/-DN
- Arecont Vision AV2815/-DN / AV2825/-DN/-IR
- Arecont Vision AV3105/-DN/-AI
- Arecont Vision AV3115/-DN/-AI
- Arecont Vision AV3115v1 / AV3115DNA1v1 / AV3115DNv1 / AV3145-3310-D(-LG) / AV3145-3310-W / AV3145-04-D(-LG) / AV3145-04-W / AV3145DN-3310-D(-LG) / AV3145DN-3310-W / AV3145DN-04-D(-LG) / AV3145DN-04-W
- Arecont Vision AV3116DNv1 / AV3146DN-3310-D(-LG) / AV3146DN-3310-W / AV3146DN-04-D(-LG) / AV3146DN-04-W
- Arecont Vision AV3125/-DN/-IR
- Arecont Vision AV3135
- Arecont Vision AV3155/-DN/-HK/-DN-HK
- Arecont Vision AV3255AM/-HK / AV3255AMIR
- Arecont Vision AV3256PMIR
- Arecont Vision AV5105/-DN/-AI
- Arecont Vision AV5115/-DN/-AI
- Arecont Vision AV5115v1 / AV5115DNA1v1 / AV5115DNv1 / AV5145-3310-D(-LG) / AV5145-3310-W / AV5145-04-D(-LG) / AV5145-04-W / AV5145DN-3310-D(-LG) / AV5145DN-3310-W / AV5145DN-04-D(-LG) / AV5145DN-04-W
- Arecont Vision AV5125/-DN/-IR
- Arecont Vision AV5155/-DN/-HK
- Arecont Vision AV5255AM/-HK
- Arecont Vision AV8185DN
- Arecont Vision AV8365DN

### ***Brickcom***

- Brickcom (W)CB-100Ae-08
- Brickcom (W)CB-100Ae-08(VGA)
- Brickcom (W)CB-100Ap



- Brickcom (W)FB-100Ap-31
- Brickcom (W)FB-130Np
- Brickcom (W)OB-100Ae
- Brickcom (W)VS-01Ap
- Brickcom (W/G)OB/FD/VD-300Np
- Brickcom (W/G)OB/FD/VD-302Np / FB-300Np
- Brickcom (W/G)OB-100Ap-73
- Brickcom (W/G)OB-130Np / (F/V)D-130Np
- Brickcom 50xA\_series
- Brickcom CB-100Ap-0c
- Brickcom FB-100Ae-21
- Brickcom FB-100Ap
- Brickcom FD-100Ae-73
- Brickcom FD-100Ap-73
- Brickcom FD-130Ap-73
- Brickcom FD-300Ap
- Brickcom MB-130Ap / WMB-130Ap
- Brickcom MB-300A\_series
- Brickcom MD-100Ae
- Brickcom MD-100Ap
- Brickcom MD-130Ap
- Brickcom MD-300Ap-360 / MD-300Np-360 / VD-300Af-360
- Brickcom MD-300Np
- Brickcom MD-300Np-360P
- Brickcom MD-500Ap-360
- BrickCom OSD-040-D/-E
- Brickcom PZ-040D
- Brickcom VD-100Ap-73
- Brickcom VD-130Ap-73
- Brickcom VD-200Np
- Brickcom VD-500Af-360

### **CNB**

- CNB IDC 4050F
- CNB IDC 4050IR
- CNB IDC 4050VR
- CNB IDP 4000VD
- CNB IDP 4000VR
- CNB IDP 4030VR





- CNB IGP 1030
- CNB INS 2000 encoder
- CNB IPM 3063 N(P)
- CNB ISMC 1063N
- CNB IVC 4000T
- CNB IVP 4030VR

### *Microdigital*

- Microdigital MDC-i4020C / MDC-i4020CTD / MDC-i7020VTD-30 / MDC-i7020FTD-30 / MDC-i7020F / MDC-i8020V-H / MDC-i8020VTD-30H / MDC-i8020VTD-H
- Microdigital MDC-i4060C / MDC-i4060CTD / MDC-i7060VTD-30 / MDC-i7060FTD-30 / MDC-i7060F / MDC-i8060V-H / MDC-i8060VTD-30H / MDC-i8060VTD-H
- Microdigital MDC-i4090C / MDC-i4090CTD / MDC-i7090VTD-30 / MDC-i7090FTD-30 / MDC-i7090F / MDC-i8090V-H / MDC-i8090VTD-30H / MDC-i8090VTD-H
- MicroDigital MDC-i4220CDN
- MicroDigital MDC-i4230C
- MicroDigital MDC-i4240 /-W
- MicroDigital MDC-i4240C
- MicroDigital MDC-i4250C / MDC-i4250CTD
- MicroDigital MDC-i4260/C/CTD
- MicroDigital MDC-i4270C
- MicroDigital MDC-i6060VTD-24H
- Microdigital MDC-i6090FTD-24H / MDC-i6090VTD-24H
- MicroDigital MDC-i6261VTD(W)-66H
- Microdigital MDC-i6290VTD-10H
- Microdigital MDC-i7020FTD-12 / MDC-i6020FTD-24H / MDC-i6020VTD-24H
- Microdigital MDC-i7060FTD-12 / MDC-i6060FTD-24H / MDC-i6060VTD-24H
- MicroDigital MDC-i8250V / MDC-i8250VTD
- MicroDigital MDC-i8270V
- MicroDigital MDC-i8270VTD
- MicroDigital MDS-i101 / MDS-i3621H / MDS-i3621WH
- Microdigital MDS-i1220 / MDS-i1220A / MDS-i1220H
- MicroDigital MDS-i301

### *Panasonic*

- Panasonic WJ-GXE500
- Panasonic WV-NF284(E)
- Panasonic WV-NP240(E)/244(E)
- Panasonic WV-NP502(E)/NW502S(E)



- Panasonic WV-NS202A(E)
- Panasonic WV-NS950(E)/954(E)
- Panasonic WV-NW484S(E)
- Panasonic WV-NW960(E)/964(E)
- Panasonic WV-SC385(E)
- Panasonic WV-SC386(E)
- Panasonic WV-SC588
- Panasonic WV-SF132(E)
- Panasonic WV-SF135(E)
- Panasonic WV-SF332(E)
- Panasonic WV-SF335(E) / WV-SF336(E)
- Panasonic WV-SP105(E)
- Panasonic WV-SP302(E)
- Panasonic WV-SP305(E)
- Panasonic WV-SP306(E)
- Panasonic WV-SP509(E) / WV-SF539E / WV-SW559(E)
- Panasonic WV-SW152(E)/-M(E)
- Panasonic WV-SW155(E)/-M(E)
- Panasonic WV-SW158 / WV-SF138
- Panasonic WV-SW316(E)/L(E)
- Panasonic WV-SW355(E)
- Panasonic WV-SW396(E) / WV-SW395(E)
- Panasonic WV-SW458(M) / WV-SF438
- Panasonic WV-SW598

***Pelco***

- Pelco IDE20DN
- Pelco IEE20DN
- Pelco IL10
- Pelco IX10 / ID10 / IE10 / IM10
- Pelco IX30 / ID30 / IE30
- Pelco IXE20 / IDE20 / IEE20
- Pelco Sarix IM10C10
- Pelco Sarix IMSOC10-1
- Pelco Spectra 1080P (S5230)
- Pelco Spectra HD 720p
- Pelco Spectra IV / Exsite IP (TXB-N)
- Pelco TI3



### *Samsung*

- Samsung SNB-1000(P)
- Samsung SNB-1001
- Samsung SNB-2000(P)
- Samsung SNB-3000(P)
- Samsung SNB-3002
- Samsung SNB-5000
- Samsung SNB-5001 / SND-5011 / SND-5061
- Samsung SNB-6004 / SNB-6003 / SND-6084 / SND-6083
- Samsung SNB-7000
- Samsung SNB-7001 / SND-7011 / SND-7061
- Samsung SNB-7002 / SND-7082 / SNV-7082 / SNO-7082R
- Samsung SND-1010(P)
- Samsung SND-1011
- Samsung SND-1080 / SNV-1080 / SNV-1080R
- Samsung SND-3080C
- Samsung SND-3080F
- Samsung SND-3082 / SNV-3082
- Samsung SND-5010
- Samsung SND-5080
- Samsung SND-7080 /SND-7080F / SNO-7080R / SNV-7080R
- Samsung SNF-7010(V)
- Samsung SNO-1080R
- Samsung SNO-5080R
- Samsung SNP-3120V
- Samsung SNP-3302(H) / SNP-3371(H/TH)
- Samsung SNP-3430H
- Samsung SNP-5200(H)
- Samsung SNP-5300/H
- Samsung SNP-6200 / SNP-6200H
- Samsung SNP-6200RH
- Samsung SNV-3080P
- Samsung SNV-3120P
- Samsung SNV-5080R
- Samsung SNZ-5200
- Samsung SPE-100P
- Samsung SPE-101
- Samsung SPE-400
- Samsung Techwin SNB-5004 / SNB-5003 / SNV-5084 / SND-5084 / SND-5083
- Samsung Techwin SND-6084 / SND-6084R / SNV-6084R / SNO-6084R



- Samsung Techwin SNO-6011R / SND-6011R
- Samsung Techwin SNV-6012M
- Samsung Techwin SNV-6084

## Cameras with multicasting

### *Axis*

- Axis 211A
- Axis 216FD
- Axis 221
- Axis 225FD
- Axis 232D+
- Axis 241Q encoder
- Axis 243Q blade encoder
- Axis 243SA encoder

### *Panasonic i-Pro*

- Panasonic WV-NP502(E) / NW502S(E)
- Panasonic WV-SC385(E)
- Panasonic WV-SC386(E)
- Panasonic WV-SC588
- Panasonic WV-SF132(E)
- Panasonic WV-SF135(E)
- Panasonic WV-SF332(E)
- Panasonic WV-SF335(E), WV-SF336(E)
- Panasonic WV-SF538
- Panasonic WV-SP105(E)
- Panasonic WV-SP302(E)
- Panasonic WV-SP305(E)
- Panasonic WV-SP306(E)
- Panasonic WV-SP509(E) / WV-SF539E / WV-SW559(E)
- Panasonic WV-SW152(E)/-M(E)
- Panasonic WV-SW155(E)/-M(E)
- Panasonic WV-SW158 / WV-SF138
- Panasonic WV-SW316(E)/L(E)
- Panasonic WV-SW355(E)
- Panasonic WV-SW396(E) / WV-SW395(E)
- Panasonic WV-SW458(M) / WV-SF438
- Panasonic WV-SW598



*Smartec*

- Smartec STC-IP2571A/1

*Sony*

- Sony SNC-CH110 / SNC DH110(T)
- Sony SNC-CH120 / SNC-CH160
- Sony SNC-CH140 / SNC-CH180
- Sony SNC-CH210 / SNC-DH210(T)
- Sony SNC-CH220 / SNC-CH260
- Sony SNC-CH240 / SNC-CH280
- Sony SNC-DH120(T) / SNC-DH160
- Sony SNC-DH140(T) / SNC-DH180
- Sony SNC-DH240(T) / SNC-DH280
- Sony SNC-EB520/EM521
- Sony SNC-EM520
- Sony SNC-EP520 / SNC-EP521 / SNC-ER520 / SNC-ER521
- Sony SNC-EP550 / SNC-ER550 / SNC-ZR550 / SNC-ZP550
- Sony SNC-ER580 / SNC-EP580 / SNC-ER585 / SNC-ER585H
- Sony SNC-RH124 / SNC-RH164
- Sony SNC-RS44N/P / SNC-RS46N/P / SNC-RS84N/P / SNC-RS86N/P
- Sony SNT-EX154

Axis, Panasonic i-Pro and Sony support multicasting only for H264 and MPEG4 codecs.

