



MULTICAM

RELEASE NOTE **VERSION 12.05.54**

Date: December 2014

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WARNINGS

- > **Multicam 12 supports XT3, XT2+, XTnano, XS, XSnano servers with SAS drives**
- > **Multicam 12 is not compatible with server equipped with SCSI drives**
- > **Multicam 12 requires 256MB of memory on the MTPC board**
- > **Multicam 12.05 is no longer compatible with the legacy XFile application.**
- > XDCAM-only encoding is supported in Server, Spotbox and Xsense modes ([Limitations](#))
- > V3X modules with SN between 98 and 259 do not allow to output in 3G-SDI on J2 connector, which is mandatory to use the 8-channel layout of the Quad-MTPC
- > Multicam 12.05 is recommended to be used with version 4.00 and above of the XHub
- > The maximum number of pre-installed Multicam versions allowed on a server is 5

NEW FEATURES

IN 12.05.54

- > Gigabit prioritization for Lo-Res usage

IN 12.05.52

- > Scandisk of system drive (MTPC) is performed automatically when Multicam was not exited with Alt+Q

IN 12.05.50

- > No new features, bug fixing only

IN 12.05.47

- > ZoomCP functionality with Epsio Zoom
- > LSM Connect 2.1

IN 12.05.35

- > Support of XS 4RU
- > Support of new network card with 10Gb Ethernet connectivity on XT3 and XS
- > Link aggregation of 1GbE and 10GbE connections (with 10GbE board)

- > Support of GrassValley LDX XtremeSpeed camera for Supermotion 6x on 3G-SDI on XT3
 - XT3 6RU
 - 1 SLSM6x 3G + 2 REC + 1 PLAY
 - 1 SLSM6x 3G + 1 REC + 2 PLAY
 - 1 SLSM6x 3G + 3 PLAY
 - XT3 4RU
 - 1 SLSM6x 3G + 1 PLAY
- > Support of Sony PMW-F55 camera for Supermotion 4x on XT3
 - XT3 6RU
 - 1 SLSM4x + 3 REC + 2 PLAY
 - 2 SLSM4x + 2 PLAY
 - XT3 4RU
 - 1 SLSM4x + 2 PLAY
- > Support of Supermotion 2x in UHD TV-4K on XT3
 - XT3 6RU
 - 1 SLSM2x UHD TV-4K + 1PLAY
- > SD-autosense on XT3 and XS ingest ports and upscale to HD
- > Hypermotion: control of Vision Research Phantom Flex4K camera (Note: only supported in interlaced or progressive mode at 50 or 59.94 Hz)
- > TwinREC mode for 8/12 channels ingest on XT3 and XS 6U
- > Dual HD multiviewer
- > Ability to clear record trains for maintenance operations
- > Cue Points on clips
- > Speed break with hypermotion cameras
- > Epsio Zoom interactivity with LSM Remote

IN 12.02.77

- > LSM Connect 2.0 with support for Epsio.FX

IN 12.02.76

- > No new features, bug fixing only

IN 12.02.74

- > XDCAM-only encoding in Server, Spotbox and Xsense modes (see [Limitations section](#) for details)
- > UHD TV-4K on XT3 4RU

IN 12.02.60

- > Dual-codec encoding
 - Intra + XDCAM HD 422 50Mbps (1080i & 720p; 50 & 59.94Hz)
 - Available on XT3 and XS equipped with XDCAM MVP modules
 - Playout is always performed from the Intra coded material
 - Intra + Lo-Res
 - Available on XT3 and XS equipped with H3X and V3X modules
- > 1080p with native file interoperability in 3G-SDI Level-A, 3G-SDI Level-B and Dual Link
- > 3G-SDTI

- > New SLSM configurations
 - XT3 6RU
 - 1 SLSM 2x + 3 REC + 3 PLAY
 - 4 SLSM 2x + 2 PLAY
 - 1 SLSM 3x + 3 REC + 3 PLAY
 - 2 SLSM 3x + 2 REC + 2 PLAY
 - 3 SLSM 3x + 1 PLAY
 - 4 SLSM 2x 3G + 2 PLAY
 - 1 SLSM 2x 3G + 2 REC + 3 PLAY
 - XT3 4RU
 - 2 SLSM 2x 3G + 2 PLAY
 - 1 SLSM 2x 3G + 1 REC + 2 PLAY
 - 3 SLSM 2x 3G + 1 PLAY
- > XAVC native decoding when working with AVC-I codec
- > 10Gb Ethernet with external gateway PC (PCIe attached)
- > Support of hypermotion camera: For-A FT-One
- > UHDTV-4K format in 2 REC + 1 PLAY and 1 REC + 2 PLAY configurations

IN 12.02.18

- > UHDTV-4K format in 1 REC + 1 PLAY configuration

BUG FIXES

IN 12.05.54

- > Servers running Multicam for more than 50 days may lose clips upon Multicam restart (Bug ID 91943)
- > With EditREC, after editing audio+video, audio-only editing would also apply video from the selected audio channel (Bug ID 91804)
- > XDCAM recorders would fail processing noise images (Bug ID 91635)

IN 12.05.52

- > Control of hypermotion camera over RS422 with ASCII protocol would not connect (Bug ID 91812)
- > Call Channel (F3) would not load clips on channels that were not controlled by the LSM Remote (Bug ID 91775)
- > With LinX or AVSP, creation of a clip when the maximum number of clips was already reached, would not generate an error (Bug ID 91732)
- > ProRes images may be decoded with an erroneous quantizer step in very seldom cases (Bug ID 91738, 91627)
- > With AVSP, HANC LTC information on clips was corrupted after sending a PLAY command (Bug ID 91617)
- > Unicode was not supported for playlist name (Bug ID 91527)
- > Genlock perturbations could generate parity errors or record train desynchronization (Bug ID 91489 & 91601)
- > When all PGM channels are controlled by protocol (Odetics, VDCP, BVW75), it is not possible to load a clip from the VGA (Bug ID 91360)
- > When controlling 3 PGM with the LSM Remote and when a playlist is playing on PGM1, it would not be possible to load a clip on PGM3 from the VGA (Bug ID 91264)
- > PS/2 keyboard lock when pressing Caps Lock and other keys very quickly (Bug ID 85668)

IN 12.05.50

- > When in a playlist, calling a clip from the VGA in CLIP mode would unload the playlist (Bug ID 91421)
- > In Spotbox mode with Odetics control, the list of clips would not be retrieved correctly (Bug ID 91392)
- > With supermotion cameras, starting playout with the lever after browsing with the jog dial may step back by 1 field when engaging the lever from 0% speed (Bug ID 91390)
- > With the TGE board, Ethernet interfaces that were not configured would not be disabled (Bug ID 91318)
- > In XDCAM-only, a clip that was totally rewound without going back to pause would not preload and would stutter when starting playout (Bug ID 91279)
- > With parallel control, audio was muted when scrubbing with Jog Dial (Bug ID 91252)
- > After leaving Epsio Live in PGM+PRV mode, LAST CUE would only control the PRV channel (Bug ID 91236)
- > With UHDTV-4K, the *Other Angle* function would suffer from some latencies (Bug ID 85529)
- > When default copy/move was set to GBE, usage of *Other Angle* function seemed to fail but local clip creation and copy did succeed with a small delay (Bug ID 81660)

IN 12.05.47

- > Default application line (defined with F7) started in less than 5 seconds (Bug ID 91104)
- > SNMP status of SLSM recorders did not check all SLSM phases (Bug ID 91019)
- > RSAS controller may not initialize with optimal speed depending on internal temperature (Bug ID 90936)
- > Metadata of UHDTV-4K clips referred to wrong DNxHD profile (Bug ID 90891)
- > With AVSP, HardCut transitions on TimeLine would cause the affected track to stop (Bug ID 90828)
- > Changing the number of rec or play channels via the web configuration while Multicam is running generated a false train desynchronization error (Bug ID 90716)

IN 12.05.35

- > HANC VITC Output is wrong when switching REC trains on PGM output (Bug ID 90599)
- > Playlists created with IPDirector and played using a GPI trigger start with 117% speed (Bug ID 89704)
- > When editing a playlist with mix on 1 channel disabled, it is not possible to load a clip from the VGA screen (Bug ID 89660)
- > When a playlist is loaded for payout, clips recalled from the VGA screen may not add to the playlist as expected (Bug ID 89658)
- > Quality improvement when recording in ProRes LT (Bug ID 89338)
- > In EPSIO Live mode, when an offside line is placed and PLAY button on the LSM remote is hit twice, the payout is paused (Bug ID 88601)
- > When playing out a timeline, the audiometers on the OSD sometimes get stuck to 0 for some audio tracks of some clips but the audio tracks are well played (Bug ID 87754)
- > When entering Split Screen mode from a 3 PGM configuration with Toggle activated, the payout cannot be controlled (Bug ID 87178)
- > With hypermotion cameras, the IN button may remain with the green light after clearing a block. Clearing all blocks and going back to live resets the button (Bug ID 87150)
- > In multi-PGM mode, with control of only PGM1 while playing a playlist, pressing RETURN brings PGM1 back to live but releases the control of PGM1, leaving the LSM Remote with control of no PGM (Bug ID 86998)
- > With hypermotion cameras, cue points are not recalled properly when the block is not full (Bug ID 83078)

IN 12.02.77

- > With UHDTV-4K, when using 3G-SDI Level-B, the internal multiviewer may display 1 quadrant out of sync (Bug ID 89505)
- > With AVSP and Mix on 1 channel, controlling PGM4 disables OSD on REC1 (Bug ID 89498)
- > With Odetics, a request to go to a timecode which does not exist causes the channel to go idle rather than being ignored (Bug ID 88656)
- > With AVSP and Mix on 1 channel, timelines with 16 audio could not be loaded (Bug ID 88484)

IN 12.02.76

- > Timecode of Lo-Res essence is corrupted when the input is too complex (Bug ID 89050)
- > When there is no active video input to a recorder, the remaining capacity information is too optimistic (Bug ID 88878)
- > With HS-870 MTPC, LinX port is not initialized properly if the PC-LAN cable is not connected before starting Multicam (Bug ID 85882)

IN 12.02.74

- > When there is no active video input to a recorder, its record train is recycled faster than the other record trains (Bug ID 89034)
- > Redundant IPDP links on RS422 do not failover with full control from IPDirector (Bug ID 88770)
- > With AVSP, using the CopyClip command with UmlD fails with error "Duplicate UmlD" (Bug ID 88277)
- > In Intra+Lo-Res, the alarm "Trains desynchronized" may appear at start up because the Lo-Res recorder failed to start. Rebooting Multicam solves the issue (Bug ID 87136)

IN 12.02.60

- > It may be possible to start a configuration with not enough internal bandwidth (Bug ID 84276)
- > Internal multiviewer shows a black line between quadrants of UHDTV-4K image (Bug ID 84089)
- > When loading a playlist on a single channel (with Load Playlist set to Conditional), some operations require to press twice on Undo to actually undo the operation (Bug ID 81778)
- > Pushing a clip over SDTI just after it was created was sometimes delayed (Bug ID 81654)
- > With AVSP protocol, the remaining time displayed on the OSD uses the Protect OUT of a clip instead of the Short OUT (Bug ID 81577)

- > OSD Remaining time continues to run when playing out a clip which has reached the end of the guardband (Bug ID 81515)
- > Modifying hypermotion configuration in SHIFT+F2 OPERATION screen can lead to conflicts when LSM remote is in hypermotion mode (Bug ID 81507)
- > Using the LSM panel, deleting all clips on a bank just after removing the protection of the page may not delete all clips. Performing the operation a second time should be OK (Bug ID 80636)
- > In SD, remote CAM mapped as local CAM may not be synchronized with the local CAM (Bug ID 39030)

IN 11.02.72

- > Postroll OSD in playlist mode not consistent with parallel IPDP control (Bug ID 87003)
- > Only 1 XSense Remote can be used on XSnano (Bug ID 86080)
- > AVSP command *ChangeTimeCodeIn* modifies both LTC and UserTC instead of only the selected target TC (Bug ID 85863)
- > In EditREC mode, the command "Insert With Ripple" fails with duration longer than 40min (Bug ID 84408)

IN 11.02.68

- > With XRec configuration in HD, down-converted output (J3) of PLAY codec cannot be set to SD (Bug ID 82929)
- > Restart of Multicam is required to apply IPDP main control configuration (Bug ID 82529)
- > GBE discovers mixed IP addresses when cross-connecting GBE1 and GBE2 (Bug ID 82041)
- > Hypermotion camera could not reconnect after losing PC LAN (Bug ID 80764)
- > AVSP OSD audio meters are not displayed on the recorder channels (Bug ID 78499)
- > 'GoTo TC' on Lance controller (SET CUE) ejects clip from player (Bug ID 75905)
- > IPDP port is opened even if no PGM or REC is assigned for IPDP, either main or secondary (Bug ID 39470)
- > PGM1 jumps to E/E when deleting all the clips one by one of a playlist loaded on PGM2 (Bug ID 39435)
- > Pressing space bar will not work when SHIFT is pressed at the same time (Bug ID 39412)
- > 'Sync to' command affects PGM channels that are not controlled (Bug ID 38921)
- > Audio monitoring not displayed correctly in 3 REC + 3 PLAY configuration when activated from the LSM remote (Bug ID 38119)
- > Effect duration is not taken into account on the OSD when editing a playlist to do a replace when Mix on 1 channel is enabled (Bug ID 35779)

KNOWN ISSUES & LIMITATIONS

ISSUES

SINCE 12.05.54

- > Video Delay base config requires a Remote D to be configured (Bug ID 91871)
- > With Gigabit-H3X, effective bandwidth during Push operations was slow (Bug ID 91771)
- > With HS-870 MTPC, reconnecting the PC-LAN cable when Multicam runs does not recover PC-LAN connection (Bug ID 91418)

SINCE 12.05.52

- > Servers with serial number higher than 163.830 do not notify about inability to connect to SDTI (Bug ID 91724)
- > Audio of the internal multiviewer is always from PGM 1 (Bug ID 91669)

SINCE 12.05.50

- > When a playlist is loaded on PGM2 and uses an Aux Clip, the Aux Clip is not applied (Bug ID 91254)

SINCE 12.05.35

- > When SD Autosense is enabled, the remaining time is longer than estimated (Bug ID 89654)
- > Timeline plays in Edit mode when started from the VGA playlist screen (Bug ID 90661)
- > Copy of clip being restored is stuck at 99% (Bug ID 90398)
- > OSD flashing on CVBS outputs when in SpotBox Fill & Key configuration (Bug ID 90500)
- > In Timeline mode, play commands are ignored after editing the speed value of an SLSM 2x element (Bug ID 90603)

SINCE 12.02.74

- > On server configured with 0 REC, the remaining capacity advertised in XNetMonitor is 0h (Bug ID 89094)

SINCE 12.02.18

- > With VDCP defined as second control in parallel mode, Live command on LSM panel may apply on all channels (Bug ID 79790)

BEFORE 12.02

- > When default copy/move is set to GBE, CAM pref information may get lost (Bug ID 83362)
- > Modification of a playlist using Advanced Audio Editing on a server without this feature is allowed and causes problems (Bug ID 79884)
- > AVSP does not correctly regenerate timecode when clip is added in a timeline (Bug ID 78493)
- > Default Gigabit copy/move takes a few seconds to start (Bug ID 75771, 86470)
- > In SpotBox mode, wrong colors on audio meters for 3D configurations (Bug ID 36259)
- > Odetics protocol in secondary control : audio slow motion parameter not taken into account (Bug ID 8709)
- > When the stylus is on the tablet, in the F9 window displaying the remote servers, sometimes it is not possible to use the arrows to navigate through the list (Bug ID 4958)
- > From machine A, play a clip of machine B. It is possible to delete the clip from B although the clip is on air (Bug ID 6338)
- > Do a sort-TC, get the list of results, loading a playlist without first pressing Live. Using the browse button will bring the user back to the browsing in the search result, not in the playlist. (Bug ID 6276)
- > Go to TC on a User TC in a clip does not always go to the desired timecode (Bug ID 6816)
- > The default display mode is VGA. When upgrading, the default mode is retained. When pressing ALT-Backspace to toggle between VGA and Video mode inside the Multicam application, this might in some cases causes the system to disconnect from the network. The only solution to reconnect is to exit the application and restart it. This problem does not occur systematically, but avoid using ALT-Backspace inside the Multicam application when possible. Using ALT-Backspace while the Multicam is running can also cause a 00:00:00:00 TC to be marked on the video field recorded at that time.
- > It is not possible for a client to push a clip to another client.
- > On a XT server, create a playlist and load it. If you go back to live and move to another machine the clip that was last loaded on the player, it will be impossible to reload the playlist anymore.
- > When loading a clip or playlist after a network train, then marking a cue live, the cue is marked on the local trains, not on the previously loaded network train.

- > Freeze on OUT point in record trains in target tracking doesn't work, in PLAY VAR only. OK in normal play.
- > After having done a search on the remote, the browse function always browses in the results of the clip search, it is not possible to browse in the clips of the remote anymore without pressing "live".

LIMITATIONS

SINCE 12.05.52

- > SD Autosense is not supported with 720p configurations (Bug ID 91154)
- > When video disks are full and the number of inputs is reduced in configuration, recorders may not start automatically upon Multicam restart (Bug ID 89602)

SINCE 12.05.35

- > EditREC is only supported in Intra-only mode
- > V3X modules with SN between 98 and 259 do not allow to output in 3G-SDI on J2 connector, which is mandatory to use the Dual-Multiviewer feature (Bug ID 89652)

SINCE 12.02.74

- > Operations in XDCAM-only mode are subject to some limitations:
 - Preload of clip may take between 0s and 2s
 - May impact Preload, Goto TC, ...
 - Next command in playlist
 - 1st Next command is performed normally
 - Following Next command is available when the clip is loaded (2s max)
 - Next commands issued during preload are discarded
 - Skip command in playlist
 - Skip is applied without freeze if issued at least 2s before the end of the current element
 - Otherwise, a cue up time (2s max) will apply on the following element
 - Skip commands issued during preload are discarded
 - Playlist elements must be at least 1.5s
 - Short elements will be skipped but remain editable
 - Playlist speed is limited between 0 and 100%
 - No support for negative speed
 - TimeLine editing is not supported in XDCAM-only mode

SINCE 12.02.60

- > Internal Loop is not supported with 3G-SDI Level-B (Bug ID 86751)
- > When working in UHDTV-4K, XNet content may be copied over SDTI but not played remotely (Bug ID 84906)
- > When working in UHDTV-4K with 2 PGMs, playing faster than 100% on one PGM may affect playback on the other PGM (Bug ID 84322)

SINCE 12.02.18

- > In UHDTV-4K, wipe effects longer than 2 seconds do not render nicely (Bug ID 84367)

BEFORE 12.02

- > Cross-fade is not applied when swapping audio tracks on the Short IN of a clip in a playlist (Bug ID 83621)
- > Mix on 1 channel cannot be used in combination with Epsio Live offside line (Bug ID 35001)
- > OSD disappears after deactivation of the IPDP secondary controller while there is a playlist loaded and end of playlist is reached (Bug ID 32516)
- > Some Playlist OSD information can be missing when LSM remote and IPDirector are controlling PGM channels in parallel and OSD is set to a controller different than the one loading the playlist (Bug ID 32533).
- > When in the Multicam Setup page, technical OSD can be corrupted when focus is set to configuration lines for which the video standard does not correspond to the genlock of the server (Bug ID 32791).
- > With Hypermotion cameras, wrong OSD color for 1 or 2 seconds when pressing LastCue button (Bug ID 14021)
- > Clips are not logged in AsRunLog when the payout is interrupted (Bug ID 13241)
- > "Other Angle" functionality in Playlist edit mode does not work with clips with timecode more than 24h behind the head of the record train (Bug ID 13826)

- > With 3 PGM channels, the SDTI F9 connect window is not displayed when there is an IPDP Timeline loaded on PGM1/PGM2 (Bug ID 14074)
- > Push gigabit:
 - Cannot push a SDTI network clip through gigabit to a gigabit only server (Bug ID 12864)
 - When pushing on the fly before saving the clip, changes made on the clip information (name, keywords, rating) are not pushed (Bug ID 12847, 12848)
 - Gigabit push clip ID destinations start from 0 (110, 111, 112, ...) while SDTI destination IDs start from 1 (111, 112,...110). (Bug ID 12811)
- > When offside line mode is active or hypermotion mode is active, secondary control is not available on the remote in shift-D.
- > Using the VDR panel while in Timeline edit mode may result in loss of audio on the PGM (Bug ID 31441)
- > Clip creation from different PGMs controlling distant trains and local trains : mark in/out point successively on the various PGM may reset in/out points (Bug ID 8176)
- > Going into the Remote menu may deactivate a secondary control (Bug ID 8439)
- > Sony VITC time code is not available in Sony ganged mode, only Sony LTC and Sony Timer mode
- > Keyword filename is limited to 8 characters
- > Retrimming clip in IP Director only affect the IP Director, not the Remote operator and vice-versa (Bug ID 6651)
- > The Undo command in playlists does not apply to the "Make Local" command (Bug ID 5515)
- > It is impossible to load a timeline in load playlist conditional (Bug ID 5365)
- > When editing a playlist, the duration of all playlists in the playlist screen is temporarily affected (they are calculated like in cut mode) (Bug ID 5333)
- > In split screen mode, audio meters only appear on PGM1, not PGM2 (Bug ID 5056)
- > On the SDTI Network, if a network cable is removed from a slave XHub where no server is connected, the master XHub can temporarily disconnect the XHub slave, causing a network disruption
- > VDCP protocol cannot be set as a secondary control of a remote.
- > Internal loop: in audio embedded, you always get the embedded audio, whether the loop mode is set to video+audio or video only.
- > Timeline limitations :
 - It is necessary to have minimum two PGM
 - The timeline features are only available to the first remote of an XT server
- > In Playlist mode on the first PGM of the first remote if the Aux Track Parameter is set to PGM, when no aux clip is defined for the current playlist, the audio is not automatically replaced by the playlist's original audio. This is not a bug. The setting "Aux track to PGM" should only be used when an aux track is defined for the current playlist.
- > In interlace mode, IN and OUT points can only be marked on even field to avoid parity violation when chaining clips. If the operator marks an IN/OUT point on an odd field, the LSM will actually mark it to the next/previous even field, and jump to this field. In progressive mode, IN and OUT points can be marked on all fields.
- > When playing a playlist, Next & Skip are not accepted during transition effects, nor if the next transition is a split audio (different audio and video IN point, or different video and audio effect durations).
- > When adjusting YUV parameters to define a custom colour for wipe border, the corresponding colour is not displayed on main output.
- > Impossible to switch to another camera while searching with the jog. Stop jogging, switch to the new camera, then start jogging again.
- > On remote record trains, it is not possible to switch to another camera in play on the same PGM : the new camera will always appear in pause
- > Playlists of Page 10 are not available from the EVS remote because they are dedicated to the other RS422 protocols
- > The internal loop mode is not available with Super Motion configurations
- > Resetting the "Protect Clip Pages" parameter in the setup does not reset the protect status of existing clips
- > It is not possible to flag a clip for archive before it is created
- > Setup Screen (Shift+F2) : the number of local and network clips is only refreshed when entering the screen
- > Delay Screen (Shift+F7) : when working in NTSC NDF mode, the time codes in this screen are still calculated on a DF basis

COMPATIBILITY

HARDWARE

- > **Multicam 12 is not compatible with server equipped with SCSI drives**
- > **Multicam 12 requires 256MB of memory on the MTPC board**
- > Multicam 12 is only compatible with CODA65, CODA75 or A3X audio boards
- > Multicam 12 is only compatible with MTPC board A2/A4 (HS870) or greater
- > Multicam 12 is only compatible with XT3, XT[2]+, XTnano, XS and XSnano
- > XDCAM encoding requires an XT3 or a XS equipped with H3X and XDCAM MVP modules
- > Dual-codec encoding with Lo-Res requires an XT3 or a XS equipped with H3X and V3X modules
- > UHDTV-4K requires an XT3 with latest hardware revision:
 - > MTPC A3/A5, A3/A6 (HS-873)
 - > V3X modules with Serial Number higher than 1300
 - > V3X base with Serial Number higher than 4130 (revision A4 or higher)
 - > SAS disks with revision 10K5 or higher
 - > H3X
 - > Audio board A2/H3X, A2/X/H3X, A3/H3X (CODA75)
- > H3X board is only compatible with V3X video board, CODA 75 audio board and SAS drives
- > CODA 75 is only compatible with H3X, NOT with HCTX
- > V3X compatible with H3X are NOT compatible with HCTX
- > MTPC rev A3/A5 (HS873) is supported since Multicam 11.00.71
- > USB keyboard is supported since Multicam 11.02
- > H3X is supported since Multicam 10.05.07
- > SAS drives are supported since Multicam 10.01.73
 - > Only SAS drives provided by EVS are supported
- > The HCTX or H3X board must be equipped with the SDTI chipset to be able to use network options
- > Multicam 12 is not compatible with HCT-2, HCT-4, HCT-S, XT1 nor XT2 chassis
- > The STXX Jumper on the backplane must be removed!

XNET

- > SDTI network in Multicam 12.05.54 is only compatible with 12.05.35 and above. It is not compatible with ANY OTHER lower version
- > The same multi-essence configuration must be applied on all servers inside the SDTI network
- > Multicam 12.05.54 is not compatible with XFile2. XFile3 should be used instead.
- > Multicam 12.05 is compatible with V3.03 and above of the XHub but it is recommended to work with version 4.00 or above for the XHub3. XHub3 running version 4.00 is compatible with XHub2 running V3.03

- > If you need to upgrade the XHub, please contact EVS to get the upgrade software and procedure
- > If unsure, you can check the version with the following procedure for XHub3:
 - o Move up the version switch
(This does not require switching off the XHub and it maintains normal operations during the version check)
 - o The branch status LEDs show the software version in a binary pattern

Branch LED #	1	2	3	4	5	6	7	8
v. 3.03		green	green	red			green	green
v. 3.04		green	green	red		green		
v. 4.00	green			red				

- o To return to normal LED behavior, move down the version switch
- > Or with the following procedure for XHub2:
 - o Turn off the hub
 - o Move all 4 dip switches on the front panel to the lower position
 - o Turn on the hub
 - o The 7 branch status LEDs will light according to a binary pattern, as described in the following below

Branch LED #	1	2	3	4	5	6	7
v. 1.06		green	red		green	green	
v. 1.07		green	red		green	green	green
v. 2.03	green		red			green	green
v. 2.04	green		red		green		
v. 2.05	green		red		green		green
v. 2.06	green		red		green	green	
v. 3.01	green	green	red				green
v. 3.03	green	green	red			green	green

- o Turn off the hub
- > Move all 4 dip switches back to the upper position

CLIPS

- > A clear clip (clearing the video disks content) is mandatory switching from/to any version older than Multicam 12.02

HYPERMOTION

- > Multicam has been validated with Vision Research firmwares 758, 763 and 776b
- > NAC Hi-Motion II recommended firmware is I/F PART FW 01.08.17 or above