DOWNLOAD – X85/X75 HDSD

Note: X85/X75 units need to be first upgraded to 3.6 before being upgraded to either 3.7 or 3.8.

FTP Upload Procedure

- After downloading the latest X75 file, please unzip the file in your local hard drive and make the following folder.
  Eg: **C:\X75\FRAME**
- Open up the DOS Command Prompt and go to the directory where the files were unzipped.
  Eg: **CD C:\X75\FRAME** and press <ENTER> key.
- Ping the IP address of the unit to validate the network connection.
  Eg: ping 192.168.100.250
  Note: If the connection is valid, four successful reply messages should be received.
- Upload the files using FTP batch file called **X75FRAME.BAT**:
  Syntax: X75FRAME <IP address of the unit>
  Eg: x75frame 192.168.100.250 <ENTER>
  Note: Wait 5~10 minutes until all the files are uploaded.
- Reboot the unit.

Upload using CoPilot/Pilot/Navigator

Software requirement

CoPilot/Pilot version:	2.99 or greater
Navigator version:	2.1 or greater
X75:	1.4 or higher

Note: Only the X75 software release versions 1.5 or above will work with the above applications and multiple frames upload is possible.
If you need to go back to the old version, the FTP transfer method must be used.

- Start the CoPilot/Pilot/Navigator application.
- If the X75 has not been discovered and not registered in the application, the set the application in **BUILD** mode and follow the instructions below to start the discovery.
  - Select **Options** button on the lower left corner and add the IP address of the frame(s) and press **OK** to exit the “Discovery Option” pane.
  - Press the **Start** button to initiate the discovery process.
  - Press the **Save** button to confirm.
- Select **Tools > Software Upgrade** option and select the X75 frame(s) by pressing the **ADD** button.
- Press the **Browse** button and select the downloaded latest version of X75 zipped file.
- Press the **Submit Transfer** button.

Product Name:	**X85/X75 HDSD**
Download Filename:	X85X75-REL.ZIP
Version:	3.8
Release Date:	Feb 29, 2012

Release Notes

Functional Updates:

- Proc, Black Level, etc. buttons are now mapped to appropriate parameter selections when remotely controlling an X50 unit
- 2GB SD cards are now supported

Known Issues:

- Dolby-E alignment sometime does have any effect when making adjustment on Dolby-E alignment, toggle “Dolby-E Auto Align” parameter from Yes(default) to No and back to Yes fixes the issue.
- In both 59.94Hz and 50Hz operation, SDI1 Out embedded audio advances by approx. 5ms (e.g. feed SD525/625 A/V signal to main board SD In, set SRC Tracking to SD Out1, then back SDI1 Out and monitor embedded audio on SDI1 Out), power cycle the unit fixes the issue.

Product Name:	**X85/X75 HDSD**
Download Filename:	X85X75-REL.ZIP
Version:	3.7
Release Date:	Jan 11, 2012

Release Notes

Functional Updates:

- Further fine tune AFD alignment
- Fixed SDI-2 1080 logo loading issue
- Fixed GPI switches back to “none” after second trigger
- Move CC 608 and SD TT de-embedder for SD1 and SD2 input so it can detect composite input as well, take out the control to disable TT de-embedder from SD1/SD2 input because it becomes not necessary after the moving of the de-embedder
- Fixed audio meta data de-embedder for SD1/2 input
- Fixed the issue that x75/X85 shows noise when video is coming from a RevA A3D board since firmware ver 3.5
- Added back Dolby input mux that got taken out by accident in 3.6 release
- Fixed 6ms A/V timing mis-alignment for SD1/SD2 input, the problem is a legacy issue since x75’s first release

Known Issues:

- Dolby-E alignment sometime does have any effect when making adjustment on Dolby-E alignment, toggle “Dolby-E Auto Align” parameter from Yes(default) to No and back to Yes fixes the issue.
- In both 59.94Hz and 50Hz operation, SDI1 Out embedded audio advances by approx. 5ms (e.g. feed SD525/625 A/V signal to main board SD In, set SRC Tracking to SD Out1, then back SDI1 Out and monitor embedded audio on SDI1 Out), power cycle the unit fixes the issue.

Product Name:	**X85/X75 HDSD**
Download Filename:	X85X75-REL-3-4.ZIP
Version:	3.4
Release Date:	Dec 17, 2009

Release Notes

Functional Updates:

- DTS Neural Up/Down Mix, Multimerge and Loudness Control options release
- Add support for Dolby-E alignment while having the AC-3 encoder installed
- Fixed reboot problem caused by certain data being sent to the Dolby audio metadata on the serial port
- Changed X75-HD default background color to black
- Add support for “Auto” Video Input Std support for FRC-SD mode
- Add 3G Level-B (SMPTE 372 4:2:2 10-bit) CC output double packet fix on X85
- Turn AFV light off on break away audio in the AS8/AS16
- Add option to disable local preset override
- Remove VI packets only when detected (on X85)

Known Issues:

- If performing an SD card upgrade from versions earlier then 3.4 (i.e. 3.2 or 3.3), the upgrade of the Neural Audio files will fail. A second upgrade is required after reboot to upload these files correctly.

Product Name:	**X85/X75 HDSD**
Download Filename:	X85X75-REL-3-3.ZIP
Version:	3.3
Release Date:	Oct 1, 2009

Release Notes

Functional Updates:

- Add support for frame rate conversion (FRC) software key
- Increases local preset and SD card present to 20
- Enable AFD/WSS/VI embedding in SDI1/2 scalar by-pass mode
- Add parametric control over serial port
- Audio Meta Data DID support
- Add 3G Level B (SMPTE 372 4:2:2 10-bit) support
- GPO Simulcast Select Support

Notes:

- The first time a X85 unit is upgraded to release v3.3, an internal software upgrade will take place following the completion of the regular Navigator upgrade. If the X85 unit has a front panel, a message will notify the user when the internal upgrade is complete, other wise please wait 15min for the internal upgrade to complete. Subsequent upgrade or down-grade(not recommended) of the unit will not require any further internal upgrade.

Product Name:	**X85/X75 HDSD**
Download Filename:	X85X75-REL-3-2.ZIP
Version:	3.2
Release Date:	May 6, 2009

Release Notes

Functional Updates:

- Fixed issue with Input AFD status indication on the X75 HD
- Fixed issue with AFD encoding on X75 HD
- Fixed issue with input video proc when color corrector is not enabled on X75 HD

Known Issues:

- Factory Recall does not reset all parameters to default
- X85 down converted video on SD outputs may not have synchronized audio with respect to video when H/V phase setting of SDI outputs differs from the SD outputs

Product Name: **X85/X75 HDSD**
Download Filename: X85X75-REL-3-1.ZIP
Version: 3.1
Release Date: February 19, 2009

Release Notes

Functional Updates:

- The X85/X75 unit will reboot twice during the software upgrade process for release v3.0
- All AFD, VI, WSS, CC, TT parameters moved to "Video Setup / Embedder" & "Video Setup / De-embedder" menu
- Parameter groups Under "Video Setup / Processing":
  SD Color Correcto,
  HD Color Corrector
  Strobe/Delay
  Frozen Detection
  SD NR/Enhancement
  HD NR/Enhancement
  ARC (SD Out)
  ARC (HD Out)
  SD TSG & Slide
  SD Logo
  HD TSG & Slide
  HD Wings & Border
  HD Logo

  Are now re-located to "Video Setup / SD Processing"
  ARC
  Color Corrector
  Frozen Detection
  Logo
  NR/Enhancement
  Strobe/Delay
  TSG

  and "Video Setup / SDI Processing / HD"
  ARC
  Color Corrector
  Logo
  NR/Enhancement
  TSG
  Wings & Border
- Under the old "HD Logo" menu "Change 1080 Settings" and "Change 720 Settings", parameters with the exception of "Logo Filename" are all combined together.
  Fade In Time *(Removed)*
  Fade Out Time *(Removed)*
  Repeat Count *(Removed)*
  720 Logo Status *(Removed)*
  720 Logo X Position *(Removed)*
  720 Logo Y Position *(Removed)*
- Under the old "HD Wings & Border" menu the 720 and 1080 Load Status parameter are consolidated into one
  720 Load Status *(Removed)*
- Range changes on ARC settings
  Input Crop: Top, Bottom, Left, Right

Variable: H Size, V Size

- x75 Parameter names referring to "SD2/DV" are now just "SD2"
- Output Embed Line controls for AFD, CC, TT, VI, WSS for F1/F2 are consolidated into a single Embed Line control on F1 Controls with the same range
- TT embed mode is removed, mode is picked automatically
- Dolby E alignment offset parameter is removed, replaced with new parameters which allow the user to select the Dolby start line for each output

Known Issues:

- AFD status indication on the X75 does not work, however all AFD processing is functional
- Factory Recall does not reset all parameters to default
- X85 down converted video on SD outputs may not have synchronized audio with respect to video when H/V phase setting of SDI outputs differs from the SD outputs

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL-2-3-b200.ZIP
Version:	2.3.200
Release Date:	July 16, 2008

Release Notes

New features:

- Added Preset Quick Select.
- Added SD and HD ARC Quick Preset Select.
- Added GPI Preset select.
- Added Backup Dolby Input Support for AS32 modules.

New Feature Usage:

Preset Quick Select

To use the "Preset Quick Select" feature, you must pre-save some presets to be selected.
(Note: Only the first 8 are available via quick select).

To save a preset, you need to:

1. Setup the x75 to be in the settings that you want to save the preset as.
2. Goto the options preset menu by pressing the "Memory" button (Alternatively, this can be done by pressing the "Options" button, followed by entering the menu option "Preset")
3. Enter the "Save Preset" menu option.
4. Select one of the first eight slots for the preset (the 9th and 10th slots are not used by the preset quick select function)
5. When a slot is selected, it will pause for a moment for the preset to save. On completion, it will display a message "Preset Saved"
6. Once saved, just press exit a few times to return back to the menu.

Repeat the above steps for any additional presets you want to restore. Note that the position of the slot you choose will determine which buttons will be used for the preset in the "Preset Quick Select" feature.

Once you have saved your presets (up to a maximum of 8 slots for quick select), you are ready for using the "Preset Quick Select" feature.

To use the "Preset Quick Select" feature, you will need to do the following:

1. Press the "Options" button to get you in to the options menu.
2. Scroll down to the "Preset Quick Select" menu option, and select the option.
3. Upon selecting this option, the Panel will be locked from further user control beyond selecting presets.
4. Each column of buttons (out of the 16 buttons on the right hand side) represents a preset. The first column (pair) of buttons represent the first preset, the second column (pair) of buttons represents the second preset, and so on. When the bottom button of the pair is lit, it implies that there is a preset saved to that slot. Hence, if the entire bottom row is lit, it implies that all 8 presets are available for recall. (NOTE: For backlit mode, it will also turn on the top button light.)
5. Selecting either buttons on the column will restore the appropriate preset. Upon restoring a preset, the upper button will be lit to represent that was the last preset restored. (NOTE: For backlit mode, the top button will flash when selected.)
6. To exit the "Preset Quick Select" mode, you will need to press the button "Default", and immediately follow with pressing the "Exit" button.

SD ARC Quick Select

To use the “SD Arc Quick Select” feature, you must pre-save some SD ARC presets to be selected (All 4 slots will be available for quick select)

To save an SD ARC Preset, you need to:

1. Setup your SD ARC parameters to be what you want to save as a preset.
2. Goto the parameter located in:
   Video->Processing->ARC (SD Out)->Presets (SD Out)->Save
3. Select one of four slots available to store your ARC preset in to.

Repeat the above steps for any additional ARC preset you want to save. Note that the position of the slot you choose (e.g. Preset 1, Preset 2, Preset 3, or Preset 4), will determine which buttons will be used for the preset in the “SD ARC Quick Select” feature.

Once you have saved your presets (up to a maximum of 4 slots), you are ready to use the “SD ARC Quick Select” feature.

To use the “SD ARC Quick Select” feature, you will need to do the following:

1. Press the “Options” button to get you in to the options menu.
2. Scroll down to the “SD ARC Quick Select” menu option, and select the option.
3. Upon selecting this option, the Panel will be locked from further user control beyond selecting SD ARC presets.
4. Each column of buttons (out of the 16 buttons on the right hand side) represents a preset. The first column (pair) of buttons represent the first preset, the second column (pair) of buttons represents the second preset, and so on. There are only 4 presets, and thus, only the first half of buttons will be used for SD ARC preset quick select. Note that the bottom half of the first 4 buttons will always be lit regardless of how many presets were saved.
   (NOTE: For backlit mode, it will also turn on the top button light.)
5. Selecting either buttons on the column will restore the appropriate SD ARC preset. Upon restoring a SD ARC preset, the upper button will be lit to represent that was the last SD ARC preset restored.
   (NOTE: For backlit mode, the top button will flash when selected.)
6. To exit the “SD ARC Quick Select” mode, you will need to press the button “Default”, and immediately follow with pressing the “Exit” button.

HD ARC Quick Select

To use the “HD Arc Quick Select” feature, you must pre-save some HD ARC presets to be selected (All 4 slots will be available for quick select)

To save an HD ARC Preset, you need to:

1. Setup your HD ARC parameters to be what you want to save as a preset.
2. Goto the parameter located in:
   Video->Processing->ARC (HD Out)->Presets (HD Out)->Save
3. Select one of four slots available to store your ARC preset in to.

Repeat the above steps for any additional ARC preset you want to save. Note that the position of the slot you choose (e.g. Preset 1, Preset 2, Preset 3, or Preset 4), will determine which buttons will be used for the preset in the “HD ARC Quick Select” feature.

Once you have saved your presets (up to a maximum of 4 slots), you are ready to use the “HD ARC Quick Select” feature.

To use the “HD ARC Quick Select” feature, you will need to do the following:

1. Press the “Options” button to get you in to the options menu.
2. Scroll down to the “HD ARC Quick Select” menu option, and select the option.
3. Upon selecting this option, the Panel will be locked from further user control beyond selecting HD ARC presets.
4. Each column of buttons (out of the 16 buttons on the right hand side) represents a preset. The first column (pair) of buttons represent the first preset, the second column (pair) of buttons represents the second preset, and so on. There are only 4 presets, and thus, only the first half of buttons will be used for HD ARC preset quick select. Note that the bottom half of the first 4 buttons will always be lit regardless of how many presets were saved.
   (NOTE: For backlit mode, it will also turn on the top button light.)
5. Selecting either buttons on the column will restore the appropriate HD ARC preset. Upon restoring a HD ARC preset, the upper button will be lit to represent that was the last HD ARC preset restored.
   (NOTE: For backlit mode, the top button will flash when selected.)
6. To exit the “HD ARC Quick Select” mode, you will need to press the button “Default”, and immediately follow with pressing the “Exit” button.

GPI Presets

1. Change the parameter:
   a. (If you want to use GPI 1 to restore preset)
      “System Config -> Setup -> GPI-1 Function” to “Recall Preset 1”
   b. (If you want to use GPI 2 to restore preset)
      “System Config -> Setup -> GPI-2 Function” to “Recall Preset 2”
2. Configure “Preset 1” (If using GPI 1) on the x75 to be your desired settings.
   (NOTE: Ensure that your GPI Function Settings are correct as the GPI Function settings are stored in the preset)
3. Configure “Preset 2” (If using GPI 2) on the x75 to be your desired settings.
   (NOTE: Ensure that your GPI Function Settings are correct as the GPI Function settings are stored in the preset)
4. When the appropriate GPI is triggered, the associating preset will be restored.

Backup Dolby Input Support for AS32 modules

1. Setup “Audio->Routing->Input->Dolby Second Input” parameter to point to the secondary Dolby input source.
2. When Dolby input is lost from the primary source, it will automatically switch to the secondary Dolby input source.

Fixed issues:

- SD Logo now displays both fields.
- Fixed issues with SD Logos coming up incorrectly on boot-up.
- Changed X75 to pass CC if the source has bad CRC.
- Fixed HD proc parameter IDs. Build 187 incorrectly moved the HD proc parameters to a different SNMP/CCS-P ID.
- Reworked HD color corrector menu to match the SD color corrector menu. (Thus, many HD Proc parameters in Color corrector were removed since they overlapped with HD proc parameters).
- Force Color corrector to always be effectively on when available (Removed parameter to disable color corrector).
- Fixed “disabled HD black/white clipping” to disable clipping (Clipping controls no longer affect video if disabled).
- Removed HD LOV Mode option “TSG” (Never supported.)
- Fixed issue with SD routing not working sometimes.
- Removed Chroma kill from parameter list.
- Fixed H & V bypass phase to follow input video when HD Processing Bypass is On.
- WSS Output parameters are now disabled in 525.
- Program ID in Audio Metadata is now Read-Only.
- Fixed Arcing issue when video is Arc off-screen.

Notes:
Since Hue appears in both HD Proc & HD Color Corrector parameters, the values for Hue are cumulative.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL-2-2-187.ZIP
Version:	2.2.187
Release Date:	June 16, 2008

Release Notes

Fixed issues with version 2.2.187:

- Properly passes the ancillary data with absence of audio submodule.
- Audio embedding is set to OFF as default with absence of audio submodule.
- Fixed arc preset when set to 'default' to use the following preset settings:

  For HD output:
  When input is SD, the output will be 4:3 pillarbox.
  When input is HD, the output will be anamorphic.

  For SD output:
  When input is SD, the output will be anamorphic.
  When input is HD, the output will be 16:9 letterbox.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL-2-2-185.ZIP
Version:	2.2.185
Release Date:	Feb 8, 2008

Release Notes

New features on version 2.2.185:

- Added support for soft-key option SD and HD Color Correctors.
  Note: For HD Color Corrector function, X75 requires HD submodule with bigger FPGA which has the Board ID of 2.
  *This information can be obtained from **System Config>Status/Version Info>HD Ver** parameter.*
- Added support for Dolby-D (AC3) encoding for the optional plug-in Dolby encoder module.
- Added support for soft-key option for DVB Teletext.

Fixed issues with version 2.2.185:

- Fixed VI CRC error.
- Fixed Dolby Decoder from muting on CRC errors.
- Fixed Cb & Cr channels being swapped on HD output when switching between SD1 & HD1 inputs for "All Out Sel" parameter.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL-2-1-172.ZIP
Version:	2.1.172
Release Date:	June 27, 2007

Release Notes

New features on version 2.1.172:

- Added support for AFD (Active Format Description).
- Added support for WSS (Wide Screen Signaling)
- Added support for VI (Video Index).
- Added support for Audio Metadata.
  Note: This feature is only supported by the X75 Mainboard hardware revision (B) and it is identifiable from the **System Config>Status/Version Info>Core FPGA Ver** parameter.
  ID: 1 = Mainboard PCB Revision A
  ID: 2 = Mainboard PCB Revision B
- Added support for 625 line standard DVB Teletext Captioning.
- Added remote access to Local and SD memory presets.
- Added support for HD Bypass mode which bypasses the video conversion engine (disables **HD ARC, HD Logo, HD TSG and HD Cross-Conversion)**

Fixed issues with version 2.1.172:

- Resolved issue that could cause Dolby submodules (Decoder and Encoder) version status to occasionally display "Unknown"

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL-2-0-163.ZIP
Version:	2.0.163
Release Date:	May 7, 2007

Release Notes

New features on version 2.0.163:

- Added support for **I-Wings** to allow a static graphic to be keyed into an up-converted 4:3 image to fill the two side Black bars on HD output. *(Note: The logo file format is MG2 format and the conversion of the graphics formats to MG2 format can be done using the **LogoCreator** application. The **LogoCreator** application can be found at the following link: http://www.leitch.com/custserv/webdl.nsf/FD/IconMaster-rel-1-5-3.zip?OpenDocument)*
- Added support for HD static logos of small to a full-size bug. *(Note: The Loss of Video to Troubleslide function is not available yet.)*
- Added support for SD static logos of small to a full-size bug.
- Added support for triggering logos via GPI.
- Added support for 2GB SD Memory card.

Fixed issues with version 2.0.163:

- Fixed issue with Presets not saving HD input selection correctly.
- Fixed Closed Caption compatibility issue with Harmonic MV450 HD Encoder.
- Fixed formatting of SD memory card on X75 and fixed reading of PC formatted SD memory cards.
- Closed Caption conversion

Product Name: **X75HD/X75SD**
Download Filename: X75-REL-1-9-141.ZIP
Version: 1.9.141
Release Date: Feb 5, 2007

Release Notes

New features on version 1.9.141:

- Added Dolby-E Encoder support.
  Note: This feature is only supported by the X75 Mainboard hardware revision (B) and it is identifiable from the **System Config>Status/Version Info>Core FPGA Ver** parameter.
  ID: 1 = Mainboard PCB Revision A
  ID: 2 = Mainboard PCB Revision B
- Added "**Ref Mux Sel**" for Dolby Decoder.
- Added a feature in AFV to select either SD1/SD2 demux instead of manual SDX channel selection.
- Added audio L/R channels swap capability.
- Support for larger FPGA on HD board.
- Support for down-converted output with 1080psF input without the HD-DUOCON softkey.
- Increased audio delay range to 2.5s. *(Note: V2A timing tool will only measure up to +/- 1.5 s)*
- Improved the SD-SDI locking range.

Fixed issues with version 1.9.141:

- Set all SRCs "**IO Delay Config**" parameter to "**SD1 OUT"** as default.
- Fixed Preset Save and Restore function.
- Fixed presence of the color line on top of picture in SD ARC mode with the Letter Box settings.
- Fixed AFV LED to only turn ON when any AFV parameters are enabled.
- Fixed the random Stereo Audio gain control change on re-power.
- Loss of Ethernet control after approx. >47 days for ~20 minutes.
- Fixed 1080p23 delay problem (Fixes bad audio in 1080p23).
- Fixed GPI event triggered frame deadlock issue.
- Fixed GPI state recovery on reboot.
- Fixed holding the GPI state when asserted more than 4 seconds.

Product Name: **X75HD/X75SD**
Download Filename: X75-REL-1-8-134.ZIP
Version: 1.8.134
Release Date: Nov 15, 2006

Release Notes

Note: This version was not posted on website.

New features on version 1.8.134:

- Improved HD to HD cross conversion from 8 bits to 10 bits.
- Added the support for EIA-608/708 Closed Captioning data transcoding feature.
  HD input (w/ EIA-708) ➔ HD output (EIA-708 and transcoded EIA-608)
  ➔ SD output (Transcoded EIA-608)
  SD input (w/ EIA-608) ➔ HD output (EIA-608 and transcoded EIA-708)
  ➔ SD output (EIA-608)

Fixed issues with version 1.8.134:

- Fixed occasional boot up issue with revision B mainboard.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL1-8-127.ZIP
Version:	1.8.127
Release Date:	Aug 3, 2006

Release Notes

New features on version 1.8.127:

- Added support for the new 32 channel version of audio module. (X75OPT-AS-32)
- Added "Please Wait…" pop-up window on LCP/RCP display when a control parameter change is not immediate.

Fixed issues with version 1.8.127:

- Fixed internal I/O (Input to Output) Delay tracking for the audio synchronizers.
- Forced the "Caption_Service_Active" bit in CDP_HEADER of EIA-708 standard to "1" to allow passing of CC data for downstream HD-to-ASI Encoders.
- Improved the mute detection for the optional V2A (Video to Audio) timing measurement tool with the analog audio inputs.
- Improved the SD Memory card detection.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL1-7-123.ZIP
Version:	1.7.123
Release Date:	July 7, 2006

Release Notes

New features on version 1.7.123:

- Added support of audio metadata output to the RS-232 port (when using the optional Dolby-E decoder.)
  Note: This feature is only supported by the X75 Mainboard hardware revision (B) and it is identifiable from the **System Config>Status/Version Info>Core FPGA Ver** parameter.
  ID: 1 = Mainboard PCB Revision A
  ID: 2 = Mainboard PCB Revision B

Fixed issues with version 1.7.123:

- Relaxed passing of the non EIA-608 compliant SDTV Closed Captioning Data in Up-Conversion.
- Fixed DVI output issue with 1080i/50 and 720p/50 standards.
- Fixed the quick access audio gain control for button 16 (Ch8-R) when the demuxed HD audio source was selected. (Note: This symptom was not present when the demuxed SD source was selected and this issue only existed with build 1.6.96, 1.6.100, 1.7.114, 1.7.117 and 1.7.118.)

Product Name: **X75HD/X75SD**
Download Filename: X75-REL1-7-118.ZIP
Version: 1.7.118
Release Date: May 03, 2006

Release Notes

New features on version 1.7.118:

- None.

Fixed issues with version 1.7.118:

- Fixed problem where the screen saver flashes on and off while navigating from a DPS-575. (Note: If you are not controlling the X75 units from the DPS-575 or RC-575, then this update is not required. This problem exists only with version 1.7.117).

Product Name: **X75HD/X75SD**
Download Filename: X75-REL1-7-117.ZIP
Version: 1.7.117
Release Date: Apr 20, 2006

Release Notes

New features on version 1.7.117:

- None.

Fixed issues with version 1.7.117:

- Fixed transparency of the EIA-708 Close Caption data on HD-SDI output.
- Fixed Composite and Y output not having a SYNC when the 525/625 operating line standard is changed.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL1-7-114.ZIP
Version:	1.7.114
Release Date:	Apr 4, 2006

Release Notes

New features on version 1.7.114:

- Adds support for the optional MPEG4 AAC video/audio monitoring streaming submodule (X75OPT-STR). When the submodule installed, the selected audio and video signals are provided on the secondary Ethernet port (RJ-45 Streaming) for monitoring CIF video and stereo audio using Quicktime 7.0 or Navigator software.
  Note: CIF size is 352x240 pixels for 525 line standard or 352x288 pixels for 625 line standard.
- Adds support for the Video to Audio Timing Measurement Device. The "V2A" test signal is a free implementation and the measurement tool is a software key option (X75OPT-V2A). With this option, it allows out-of-service alignment of leading audio with respect to video.
- The thumbnail generated by the X75 web server has been increased in size from 64x48 to 128x96.
- Added "Zone Plate" and "FF Bounce" test signals to **SD-TSG Select** list.
- For X75OPT-PQM (Analog Video Input) submodule, added support for alternate decoding algorithm to provide improved picture quality for NTSC decode to NTSC encode processing within X75 unit.
- Added support for transferring the PRESETs to SD Memory card.
- Added ability to overwrite to existing PRESET location.
- Added support for 1080psf/23.98 input format.
- Added Setup>Input Status>SD Demuxed Audio>Advanced menu.
- Added Audio Setup>Output Status>SD1 Embedding and Audio Setup>Output Status>SD2 Embedding menus.
- Added Chroma Kill parameters to Analog, SD1, SD2 video inputs under Proc submenu.
- Added the ability to remap the embedded audio separately on SD1 and SD2 outputs.
- Added support for HD down-conversion Noise Reduction function.
  Note: The controls are coupled with the Video Setup>Processing>HD NR/Enhancement parameters therefore, both HD and SD outputs are effected when adjusted.

Fixed issues with version 1.7.114:

- The default values of the following parameters are set to ZERO.
  Video Setup>Processing>ARC (SD Out)>Advanced (SD Out)>Vertical Bandwidth
  Video Setup>Processing>ARC (SD Out)>Advanced (SD Out)>Horizontal Bandwidth
- Properly demuxes the SD-SDI signal with irregularly embedded audio channels such as 1/2 only, 3/4 only, or 3/4/1/2.
- TSG button stays lit when the internal test signal is activated.
- Optimized the input video alarms such that the unused video input(s) do not trigger alarms. The alarm is only asserted when the relevant input video signal is absent.
- Control Panel's Backlit function remembers the last setting when re-powered.
- Web Browser interface optimized such that the Menus with no parameters are no longer displayed on Navigation Tree display.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL1-6-100.ZIP
Version:	1.6.100
Release Date:	Nov 9, 2005

Release Notes

New features on version 1.6.100:

- In Stereo mode, added the support to adjust the audio delay in pair.
- DPS-475/DPS-575 will display a static screen with name of device & IP address when controlling a X75 in screensaver mode.

Fixed issues with version 1.6.100:

- Fixed the misplacement of embedded Audio Control Packets during the HD Cross-Conversion.
- The Audio Data Packets are not multiplexed into the horizontal ancillary data space of the line subsequent to the switching point of the output format during the HD Cross-Conversion.
- Executing a reboot command from a LCP (Local Control Panel) to a remote X75 will not lock out the LCP from connecting to the X75.
- The "All Out Sel" parameter reflects the configuration of all the video routing parameters.
- The "Audio In Src Select" parameter reflects the configuration of all the audio routing parameters.
- Fixed video distortion on all video outputs when switching between SD-SDI & HD-SDI sources.
- Remote button flashes when controlling a DPS-475/DPS-575.
- Default button tracks/lit when X75 is controlling a DPS-475/DPS-575.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL1-6-96.ZIP
Version:	1.6.96
Release Date:	Oct 11, 2005

Release Notes

New features on version 1.6.96:

- Added the support for displaying the DPS-475/575's Machine Name on X75 control panels.
- Added the support for displaying the X75's Machine Name and IP Address in screensaver mode when the EXIT key is pressed from the Main Menu.
- Added the support for changing the FAV buttons' behavior from the Option button menu. One mode allows the user to select the first menu or parameter item from the Favorites list with a single key press. The other option brings up the Favorites list and let user select the item from the list.

Fixed issues with version 1.6.96:

- Direction of HUE control changed.
- Improved the locking of audio 24.576 MHz VCO with the recovered HD-SDI input clock. If it is not locked properly, the de-multiplexed audio caused lip sync problem or disturbances to the audio.
- Improved the duration of color black output down to 1~2 seconds when the HD input video formats are switched.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL1.5.90.ZIP
Version:	1.5.90
Release Date:	Sep 14, 2005

Fixed issues with version 1.5.90:

- Some X75HD units loaded with the version 1.5.89 only, occasionally showed the video distortions at the bottom of the HD output signal and in more severe cases, the entire picture had the horizontal white lines running through or the entire HD output went to a gray screen.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL_1_5.ZIP
Version:	1.5.89
Release Date:	Aug 17, 2005

New features on version 1.5.89:

- Added the delay lock control in "**Audio Setup>Input Setup>Delay**" menu. When activated, any single audio delay channel adjustment globally adjusts all other channels while maintaining the offsets between the channels.
- Added the horizontal and vertical bandwidth control for down/up/cross conversions.
- Added the ability to turn OFF the **Closed Captioning** data on HD output. This control is found in "**Video Setup>Digital Output>HD Out CC Embed**"
- Added the new SD-TSG patterns: Crosshatch, 30Hz, 25Hz.
- Release of the optional "X75OPT-HDDUOCON" option which provides the simultaneous Up and Down or Cross and Down functionalities for the X75HD units.
- Added the displaying of the software version on boot up.
- Added the support for 1080p/23.98Hz standard.
- Added the support for displaying the X75 Machine name on legacy DPS-475/575 or RC-575.

Fixed issues with version 1.5.89:

- Fixed Genlock Fine Phase range.
- Fixed SD embedding problem where occasionally embedded audio data packets are repeated into other channels.
- Fixed video content glitch when switching between analog inputs at A3D
- Fixed the X75OPT-A3D module's LOV setting when set to PASS mode, the output rising up to 50% Gray level.
- Fixed the X75OPT-A3D module's LOV setting when set to Freeze mode, it wasn't freezing the content properly.
- Fixed the submodules detection problem for X75OPT-A3D, X75OPT-PQM and Audio modules.
- Fixed SD-TSG glitching when test pattern is selected.
- Fixed Preset copying where the ARC's variable values were copied but not the **Viewing Mode**'s name.
- Fixed Preset Restore function where it does not restore all the parameters.
- Fixed illegal value in SD-TSG 'Ramp120' and 'UBM Ramp' patterns.
- Fixed SD-TSG "Multiburst 5.8MHz" pattern in 625 mode.
- Fixed HD-TSG position problem with 1080i/59.94 standard.
- Fixed up-down-cross-conversion video mapping such that in 1080i/59.94 out, field2 ends at line 1123 inclusive.
- Fixed up-down-cross-conversion video mapping such that 1080i/50 out, field1 starts at line 21, ends at line 560 inclusive.
- Fixed HD TSG being affected by the Aspect Ratio Conversion.
- Fixed to pass Super Black. (Signal below 0 IRE)
- Fixed SD-NR option for 625 standard.

Notes on Switching Between SDTV and HDTV signals:

For those who are using Simulcast Mode, it is recommended not to upgrade to V1.5 or V1.6 at this time.

When using V1.5 or V1.6, there are 6 seconds of color black when selecting or switching between SDTV and HDTV signals. There are about 6 seconds of black with version 1.5 and 1-2 seconds of black with version 1.6 when changing the HDTV format.

There are no black frames when switching between SDTV signals or HDTV signals in the same format. All selections and switching have no disturbances with the TRS (Timing Reference Signal) at the outputs.

Product Name:	**X75HD/X75SD**
Download Filename:	X75-REL-1-4.ZIP
Version:	1.4
Release Date:	April 18, 2005

Release Notes

New features on version 1.4:

- Added the TBC function to A3D analog video input module.
- Added the support for PQM analog video input module.
- Added the support for 8 channels audio module.
- Added the 720p/50, 1080p/25 support.
- Added the SDTV ARC capability. (Only possible when HD module is present.)
- Added the Pre-Cropping controls for up and down conversion before ARC.
- Added the support for the Mono/Stereo button support.
- Added the SDTV and HDTV test signals.
- Added the support for Memory Presets.
- Added the support for Strobe/Film mode.
- Added the HD input Clipping controls.
- Added the backlit option for the buttons.
- Added the SECAM support.
- Added the frozen video detection logic to SDTV input.
- Added the support for controlling the Aspect Ratios when input and output HDTV standards same.
- Added the support for the optional Noise Reduction.
- Added the support for the optional Audio Signal Limiter.
- Added the support for the optional SNMP.
- Added the support for the optional plug-in Dolby decoder module.

Fixed issues with version 1.4:

- Fixed the unit from control lock up with noisy input video and under heavy network traffic condition.
- Fixed SD de-embedding problem with noisy input video where output was muted or did not recover when the input noise was removed.
- Fixed a problem where the input did not follow the applied input frame rates in HD Delay mode.
- Fixed the audio embedding problem in 625 line standard where the audio was not skipped on switching line 7.
- Fixed the HD input video data overflow problem.
- Fixed the HD ARC "middle cut" problem.
- Fixed the Composite output so that Neo SuiteView can detect the signal properly.
- Fixed the Analog video output's VBI SETUP option where lines 16 and above were incorrectly indexed.
- Fixed the AUX NTSC output's Chroma problem only when PAL-M video is selected from the main Composite output.
- Fixed audio embedding problem where occasionally SD embedder used the same sample in whole audio group packets.