

DOWNLOAD - X75HD/X75SD

FTP Upload Procedure

- Download the released X75 file from Leitch Support=>Download webpage.
<http://www.leitch.com/custserv/WebDL.nsf/FF?OpenForm&X75HD/X75SD>
- Unzip the file in your local hard drive.
Eg: C:\LEITCH\X75Frame
- Open up the DOS Command Prompt and go to the directory where the files were unzipped.
Eg: CD C:\LEITCH\X75Frame 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: **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.
- 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: The Mainboard PCB Rev B or greater required.*)
- 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.

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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.