Imagestore HD V1.13.8 Release Notes

$Date: 2009-01-08 17:17:57 $

Software Update Procedure

This software update procedure requires two files: a ZIP file (**ishd-update-v6.zip**) and a CPIO archive (**ishd-1.13.8.cpio**). The ZIP file will be used to create a bootable floppy disk containing an HTTP server, and the CPIO archive will provide the software update when the Imagestore is booted from the floppy disk.

Create Bootable Floppy from Update ZIP File

This ZIP file is used to create a bootable floppy that contains a HTTP server. There are two methods for creating this dependent upon the version of software that is currently running on the Imagestore:

1. Updating via front panel (v1.11.x or earlier)

- Extract the contents of the ZIP file onto a blank formatted floppy.
- Insert the floppy disk into the Imagestore.
- From the front panel select the following menu: Setup > System Setup > Update Software.
- When the front panel displays "Media Inserted?", insert the floppy disk and press ENTER.
- Wait for the front panel to display "Extracting Floppy...", "Formatting Floppy..." and "DONE ! Press Any Key", and press ENTER.
- When the front panel displays "Media Removed?" remove the floppy disk and press ENTER.
- You now have a bootable floppy disk.
- Proceed to the 'Update Software with CPIO Archive' procedure.

2. Updating via Imagestore web page (v1.13.x or later)

- Insert a blank floppy disk into the Imagestore.
- From a networked PC (on the same subnet as the Imagestore), open a web browser and type in the IP address of the Imagestore.
- Log into the Imagestore web page with the web administrator password (default "miranda").
- Go to the "Create Update Media" section of the web page and click "Browse".
- Select the update ZIP file from the "Choose File" dialog.
- Tick the "Media Inserted" checkbox and click "Create".
- Monitor the progress on the Imagestore front panel until it shows "DONE! Press Any Key".
- You now have a bootable floppy disk.
- Proceed to the 'Update Software with CPIO Archive' procedure.

Update Software with CPIO Archive

The CPIO archive file is uploaded to a networked PC and will be used to upgrade the connected Imagestore when it is booted off the floppy disk created in the previous section.

- Insert the bootable floppy disk and power up the Imagestore.
- Wait for the front panel to display its IP address number - "Visit HTTP Server at xxx.xxx.xxx.xxx"
- From the networked PC that contains the CPIO file open a web browser (Microsoft Explorer or similar) and type in the IP address of the Imagestore to be upgraded. **NOTE:** It may be necessary to clear the browser cache.
- Click on the "Browse" button, and then select the required CPIO file.
- Click on the "Update" button.
- Monitor the update progress on the front panel which will run through several parts ending with the message "DONE".
- After the software has installed remove the floppy disk and power cycle the Imagestore.
- When Imagestore restarts the new software will be running.

Software Release Notes

V1.13a1 - 06/04/2006

- Initial release. Changes merged from branch12 (IS300/ISHD/Intuition) and mpeg_test_branch (Intuition+).

V1.13a2 - 07/04/2006 (unreleased)

- No changes.

V1.13a3 - 10/04/2006 (unreleased)

- No changes.

V1.13a4 - 10/04/2006 (unreleased)

- No changes.

V1.13a5 - 11/04/2006 (unreleased)

- No changes.

V1.13a6 - 12/04/2006 (unreleased)

- No changes.

V1.13a7 - 13/04/2006 (unreleased)

- [Bug #605] Automation 8 command Load image from library.

V1.13a8 - 18/04/2006 (unreleased)

- Upgraded P229 firmware file to L082_1V1.xsvf.

V1.13a9 - 18/04/2006

- Corrected compile flags to not enable SSE2 instructions. These cause an illegal instruction fault.
- Fixed a syntax error in is23.mix and is23eply.mix which prevented the file from loading.
- [Bug #335] Wrong number of sequences.
- [Bug #665] Alternating slides on MG and FG layers causes audio engine to fail.
- [Bug #691] Single Shot Animation DSK On/Off state.

V1.13a10 - 27/04/2006 (unreleased)

- [Bug #647] Audio crash when both DSKs fired together with associated audio.

V1.13a11- 17/05/2006

- [Bug #701] License value bug now fixed
- Maximum number of licenses increased to 31
- [Bug #313] New gain types A_UNITY_XP and B_UNITY_XP added
- [Bug #397] Default mixfiles do not support all audio preview selections.
- [Bug #648] Change "Clean Reset" to "Factory Reset" on front panel
- [Bug #730] "File corrupt" thumbnail image drawn in teeny wee text at the top left.
- [Bug #708] Prevented Imagestore from hanging when connected to Miranda iControl
- [Bug #249] DVE GPI outputs now available
- [Bug #664] Animation in-loop-out behaviour differences between IS300 and IS2.
- [Bug #49] No thumbnail is returned if the requested file is corrupt or not present.
- [Bug #536] Emergency To Air does not load up V000.oxt.
- [Bug #734] Easytext thumbnails are broken.

V1.13b1 - 31/05/2006 (unreleased)

- [Bug #749] Crash with empty text box.
- [Bug #750] Added new VOn_UNITY_XP gain types.
- [Bug #719] Added log error when Z4 command attempts (incorrectly) to change the background.
- [Bug #765] Fixed Intuition clip-on mode when under Harris automation.
- [Bug #510] Load live state now stored.
- [Bug #748] GPI control of animations added.
- [Bug #680] Added audio shuffles for use via GPIs and the front panel.
- [Bug #724] Easyplay errors in 1.11.8
- [Bug #725] Disallow setting strap speed to an odd number.
- [bUG #714] U8 V fade (fade via black) command performing X fades.
- [Bug #722] ISHD using inappropriate values for CGT without preset values.

- [Bug #781] Memory leak if get_xml_mixfile fails.
- [Bug #782] Buffer overflow in get_xml_mixfile.
- [Bug #798] Load Live doesn't work.
- [Bug #799] XR command doesn't work.

V1.13b2 - 26/06/2006

- [Bug #584] Allow user to select between common mixfiles from Front Panel
- Fixed interrupt enabling issues.
- [Bug #679] Licenced value of ILIB now correctly determines animation playout memory, but ILIB shows 4000 images allowed for the front panel and IMM.
- [Bug #858] Unusual network activity.
- [Bug #460] Output gain cannot be controlled. (j10 command).
- [Bug #768] ImagestoreHD changes file name case on load from "WG_HD.OXA" to "wg_hd.oxa".
- [Bug #794] Load image from Libary 8 automation command fails.
- [Bug #833] Oxtel525.oxt is corrupt in 1.11.9b5

V1.13b3 - 05/07/2006 (unreleased)

- Increased DVE signature retries counter.
- Added is23.mix & is23eply.mix version 1.6.5...
  - Full IS2-style input previewing
  - Passthrough for groups 2-4
  - Supports A/B Mix mode
  - All preview audio embedded to PVW output
  - Two AES input voice-overs mapped to 1st & 2nd VO
- Changes to interrupt logging to prevent out-of-bounds line number from crashing driver.
- [Bug #729] Easyplay Store 1 lockups.
- [Bug #857] Running sequences in DVE Bypass mode.
- [Bug #484] A_XP and B_XP report as depreciated gain types but are essentials.
- Fixed interrupt reporting to prevent bad line numbers from causing a kernel crash
- Updated imstreg to make reads more reliable
- [Bug #922] Easyplay: Loading slot 2 while playing slot 1 audio corruption.

V1.13b4 - 07/07/2006 (unreleased)

- No changes.

V1.13b5 - 12/07/2006 (unreleased)

- No changes.

V1.13b6 - 14/07/2006 (unreleased)

- [Bug #907] Text builder templates not saving changed key parameters.

V1.13b7 - 17/07/2006

- Implemented the Ross DVE firmware upgrade mechanism.
- [Bug #914] DVE transparency.
- Added p229 firmware (L082_1V2_20060714.xsvf). Genlock code updated to match XVP. Algorithm further refined to reduce low frequency jitter.
- Added audio firmware (l070_v7_170706.bit). Fix for audio sample phase shift.

V1.13 - 19/07/2006 (unreleased)

- No changes.

V1.13.1b1 - 21/07/2006 (unreleased)

- No changes.

V1.13.1b2 - 28/07/2006 (unreleased)

- No changes.

V1.13.1b3 - 31/07/2006

- [Bug #974] Message log is spammed with licence reports.

V1.13.1b4 - 01/08/2006

- [Bug #992] No /etc/mixes mixfiles available.
- [Bug #985] Serial and Ethernet communcation intermittant (Thumbnails not working).
- [Bug #986] Defaulting to wrong mixfile, and is23 compatibility mode not selected.

V1.13.1b5 - 02/08/2006

- [Bug #747] Appying the output gain to the meters.
- [Bug #998] Selectable mix files are not available when the Imagestore is in IS23 mode.

V1.13.1b6 - 11/08/2006

- [Bug #993] Log error added for illegal DVE moves set via W1 command (embedded in Intuition template).
- [Bug #1003] Add/remove custom mixfiles via the front panel ("Setup - File Operations" menu).
- [Bug #1015] No logging for incorrect filenames with R2 command.
- [Bug #1025] Easyplay fade ins
- [Bug #1024] Issues with the Z1 command.
- [Bug #724] Easyplay errors in 1.13.1 beta 5 (fix lost during merge).
- Implemented licence and features for Imagestore HD-TV LOGO product.

- [Bug #976] Request for Imagestore webpage to be reinstated.
- Added new P229 firmware (L082_1V3_20060809.xsvf) to fix issue with jitter (video buses now correctly terminated).

V1.13.1 - 14/08/2006 (unreleased)

- No changes.

V1.13.2b1 - 23/08/2006

- [Bug #1034] RCP setup menu OK button does not save brightness / contrast.
- [Bug #342] GPI input functions appear as automation commands for Emergency to/from AIR, and EAS on/off.
- [Bug #942] Audio and metering function breakage without EPLY licence enabled.
- [Bug #1029] Easyplay file selection corrected when multiple files of the same name exist with different extensions.
- [Bug #1041] LOGO (300 & HD) B channel available in front panel Audio menus.
- [Bug #874] SYSNAME data tag does not return full software version.
- [Bug #1046] Remove "Update Software" option from front panel. This is now superceded by the Imagestore webpage "Create Update Media" option.
- [Bug #383] Mechanical Bypass doesn't turn off when halting system.
- [Bug #443] Adding "Play DVE sequence" gpi events does not return to the GPI macro.
- [Bug #925] R0 only loads one DSK when two commands are sent.
- [Bug #927] n2 and n4 comands fail.
- [Bug #1039] Triggering of a GPI output when an EAS crawl finishes.
- [Bug #1045] Prevent IS web pages from being cached.
- [Bug #1040] Ability to trigger a GPI Output within a GPI macro.
- [Bug #755] Added available common mixfiles for selection from front panel.
- [Bug #653] Hostname now configurable via front panel 'System Setup'.

V1.13.2b2 - 01/09/2006

- [Bug #681] No store unload function in ISHD or IS300.
- [Bug #1056] UC command V-fade duration doubles after performing a cut.
- [Bug #1048] Analogue reference timing different to IS2 and IS300.
- [Bug #755/2] Completed list of new common mixfiles for selection from front panel.

V1.13.2b3 - 04/09/2006

- No changes.

V1.13.2b4 - 05/09/2006

- [Bug #755/3] Updated to latest set of mixfiles (package version 1.2).

V1.13.2b5 - 07/09/2006 (unreleased)

- No changes.

V1.13.2b6 - 08/09/2006

- [Bug #143] Added check for PlayOnce flag for multi-loop animations.

V1.13.2b7 - 08/09/2006

- [Bug #1085] Allow loading of custom mixfiles with filenames containing multiple "." characters.

V1.13.2 - 13/09/2006 (unreleased)

- [Bug #755/4] Updated to latest set of mixfiles (package version 1.3).

V1.13.3b1 - 14/09/2006

- [Bug #1100] Added new P229 firmware (L082_1V4_20060913.xsvf) to fix...
  - Video tearing in absence of external analogue reference.
  - Intermittent infrequent occasional CRC/line length errors on a few "rouge" units (most units are fine)
  - Low frequency jitter occasionally "blips" out of spec > 1UI

V1.13.3 - 19/09/2006 (unreleased)

- [Bug #313] Input profiles problem
- [Bug #1103] Add /etc/mixes to web page

V1.13.4b1 - 19/09/2006

- No changes.

V1.13.4b2 - 29/09/2006

- [Bug #1112] Easyplay stop does not function.
- [Bug #1126] Improved naming convention for 5.1 and 7.1 standard mixfiles.
- [Bug #1062] Enquire Mix Mode (Ua) automation command failure.
- [Bug #1125] Deleting IS300 macro step deletes entire macro.

V1.13.4b3 - 06/10/2006

- [Bug #1123] Transparency issue with Intuition in FG, Imagestore behind Intuition graphics.
- [Bug #1106] Easytext file causes HD RCP to light incorrectly.

V1.13.4b4 - 17/10/2006

- [Bug #1139] Front Panel scrolling doesn't work if there is only one character too many.
- [Bug #1157] Custom mixfile won't load after upgrading from 1.11.x to 1.13.x.
- [Bug #1162] Added standard mixfiles for Intuition voice-overs (5.1_IntuitionVO.mix & 7.1_IntuitionVO.mix).

V1.13.4b5 - 17/10/2006 (unreleased)

- No changes.

V1.13.4 - 19/10/2006

- [Bug #1250] Changed front panel text from "Voice-over1 pairX" to "Voice-over pairX" (IS23 Emulation audio).
- [Bug #1152] Easyplay voiceover does not cut down.
- [Bug #1169] Stopping a looped Easyplay file fades VO1 down without actually stopping Easyplay.
- [Bug #1171] "Select mixfile" freezes front panel when Easyplay licence not present.

V1.13.5b1 - 06/11/2006

- [Bug #1180] Buffer overflow potential for conf.xml.
- [Bug #308] The video standard does not get saved and restored with the "Configuration Save" function.
- [Bug #1064] Output gain control of AES channels.
- [Bug #1141] Output audio gain to control all groups + AES.
- [Bug #1197] Front panel does not show current channel after a cut.
- [Bug #1168] #define out front panel menu items reliant on IS23 Mode.

V1.13.5b2 - 21/11/2006

- [Bug #1064/2] Updated standard mixfiles (/etc/mixes) for output gain control on all audio channels. **Requires Presmaster v4.5b7 or above.**
- [Bug #1221] Imagestore crashes when constantly loading digital clocks.
- [Bug #742] Logging of files associated with OxSox messages.
- [Bug #1205] Added "Set Cut Mode" and "Set Fade Mode" front panel options to allow cuts/fades to occur on field 1, field 2, or any field.

V1.13.5b3 - 28/11/2006

- [Bug #1234] Increase conf.xml maximum size.
- [Bug #1231] "Setup > System Information > Current Mix File" shows incorrect information for mixfile names of less than 20 characters (/etc/mixes/is23.mix).
- [Bug #1205/2] Save states of "Set Cut Mode" and "Set Fade Mode" into conf.xml.

V1.13.5b4 - 01/12/2006

- [Bug #1250] Changed front panel strings from "Voice-over pairN" to "Voice-over N".

- [Bug #1242] i0 command does not return an ACK.

V1.13.5 - 07/12/2006

- [Bug #1262] Time Code VITC does not work.
- [Bug #1013] Corrected keyer modes to match Imagestore 2/3 and Oxtel Automation Protocol version 12 (Seperate "Cx 0" & Self "Cx 1").
  - **Upgrade note:** The Key Mode (**Operate > DSKx > Keyer Opertaions > Set Key Parameters > Source**) may need to be changed for keyers that are associated with an external fill/key. Keyers associated with loaded media will be unaffected.

V1.13.6b1 - 18/12/2006 (unreleased)

- No changes.

V1.13.6b2 - 16/01/2007

- [Bug #1278] Corrected ordinals for Set Preview automation command (XH) to match documentation and IS300.
  - **Upgrade note:** Please correct the Preview Mode when installing this software version (**Operate > Preview Select**).
- [Bug #880] Added ICU lib support for right-to-left text scripts.
- [Bug #1310] Added new Zg command for pausing and restarting text straps.
- [Bug #1322] Key modes self and seperate were swapped on front panel.
  - **Upgrade note:** The Key Mode (**Operate > DSKx > Keyer Opertaions > Set Key Parameters > Source**) may need to be changed for keyers that are associated with an external fill/key. Keyers associated with loaded media will be unaffected.
- [Bug #1072] HD DVE right edge exhibits a fine vertical line - (p181 firmware updated to l057b6.xsvf).

V1.13.6b3 - 05/02/2007

- [Bug #1335] Changed the warning message "Invalid automation command" to read "Ignoring invalid command" to prevent it from being misinterpreted as a communications error. If this message is seen then please cross-reference the commands sent by automation against the Command Validity table in Oxtel Series Automation Protocol.

V1.13.6b4 - 06/02/2007 (unreleased)

- No changes.

V1.13.6b5 - 16/02/2007

- [Bug #1355] Preview Select should factory default to "Presmaster Preview".

V1.13.6b6 - 20/02/2007

- [Bug #1364] Errors in is23.mix
- [Bug #1363] A_UNITY_XP_n & B_UNITY_XP_n gain types do not allow shuffles.

V1.13.6b7 - 26/02/2007

- [Bug #1361] In-loop-out animations did not start from the beginning
- [Bug #1110] Allow different styles of EAS, fonts, sizes, colours etc
  - **Upgrade note:** To change the appearance of EAS alerts, please modify the Easytext templates EASHighHD.oxa, EASMidHD.oxa, EASLowHD.oxa and EASNoneHD.oxa

V1.13.6b8 - 09/03/2007

- [Bug #1195] Improved logging when the packet STX is incorrect (swapped).
- [Bug #1325] Confusion over embedded audio licence option. The value of ESSD defines the number of groups of embedded audio, so limit this in software to maximum of 4 (equivalent to 16 channels).
- [Bug #1305] Audio doesn't follow the video with a VFade via UA (also affects U6 and UC).
- [Bug #1370] Add A/B_PRESHUFFLE_UNITY_XP_n audio gain types.
- [Bug #1382] Added diagnostics archive to the web page.
- [Bug #1378] Enable datasource automation commands for Imagestore->Intuition passthrough mode.

V1.13.6b9 - 20/03/2007

- [Bug #1375] Improve logging for media loads and keyer cuts.
- [Bug #1084] Logging levels only affect imstmain.
- [Bug #1079] Added audio gain options to fader setup.
- [Bug #1389] Enable text automation commands (Z) for Imagestore->Intuition in passthrough mode.

V1.13.6b10 - 26/03/2007

- [Bug #1406] Error in final 3 samples of the chroma HANC data (all HD standards).
- [Bug #1084/2] Modified recent logging levels changes to fix breakage in DVE initialisation.

V1.13.6b11 - 02/04/2007

- [Bug #1378/2] Fixed previous implementation of 1378 (Enable datasource automation commands for Imagestore->Intuition passthrough mode).
- [Bug #1441] Reference options in wrong order ("PGM wrt HD/REF1" should be first).
- [Bug #1440] Add release notes to Imagestore webpage.

V1.13.6b12 - 11/04/2007

- [Bug #1432] Timecode overwritten by embedded audio - (p181 firmware updated to l057b7.xsvf).

V1.13.6b13 - 13/04/2007

- [Bug #1458] Loading EasyText template freezes unit when externally referenced image can not be found.

V1.13.6b14 - 26/04/2007

- [Bug #1471] is23.mix mixfile doesn't fully support previewing.
- [Bug #1461] Imagestore eventually freezes when running an aggressive Presmaster schedule without an RCP attached. (Possibly only affects ISHD).

V1.13.6b15 - 14/05/2007

- [Bug #1432] Timecode partially overwritten by embedded audio (line 9 HANC Luma) - (p181 firmware updated to l057b8_20070514.xsvf).

V1.13.6 - 18/05/2007

- [Bug #1489] Some wav files with unusual header would not load.
- [Bug #1492] Fixed text layout errors introduced with fix for Bug #880.

V1.13.7b1 - 30/05/2007

- [Bug #1515] EAS Cuts down before completing
- [Bug #1515/2] EAS Cuts down before completing - Fixes severity colours
- [Bug #1470] Onscreen glitch when using Cut Load mode.
- [Bug #1528] Configuration Save/Load does not include mixfile.xml.

V1.13.7b2 - 08/06/2007

- [Bug #1465] Added missing commands to auto2text for verbose logging
- [Bug #1470/2] Prevent hang introduced with Clean Load mode in 1.13.7b1.
- [Bug #1535] jb set audio transition to V-fade, runs a X-Fade the first time it is called after an X-fade
- [Bug #1536] jc audio AB asymmetric transition is working in frames as opposed to fields
- [Bug #1541] EAS flickers on crawl restart.

V1.13.7b3 - 22/06/2007

- [Bug #1443] Diagnostics dump needs filesystem and disk information
- [Bug #1546] Front panel fails to start
- [Bug #1479] Deprecate the Set Fade Mode option. Fades to utilise the cut mode instead.
- [Bug #1566] Corrected typo in StartMix string for is23.mix and is23eply.mix (non-functional change)
- [Bug #1530] EAS crawl changes font and position after repeated use of EAS on.
- [Bug #1570] Corrected file permissions for EAS Easytext files.

V1.13.7b4 - 11/07/2007

- [Bug #1530/2] EAS memory leak and added support for TFT911 with new Easytext crawl method.

- [Bug #1640] Ensure Imagestore always restarts in known state (AB Mixer at A, Keyers down, FTB off).
- [Bug #1487] .WAV files will not copy onto Imagestore from removable media.
- [Bug #1699] Users should not be able to select /etc/mixes/eas.mix from the front panel.
- [Bug #1657] Move IP Address earlier in system information menu.

V1.13.7b5 - 24/07/2007

- [Bug #1720] 0 based channel numnber showing in GPI setting. (audio shuffle).
- [Bug #1756] Some layer-based commands are NOT forwarded onto Intuition.
- [Bug #1421] VO2_UNITY_XP and V04_UNITY_XP are referenced in standard mixfiles.
- [Bug #1614] Animation hits frame limit before size limit.

V1.13.7b6 - 26/07/2007 (unreleased)

- No changes.

V1.13.7b7 - 03/08/2007

- [Bug #1799] Output Gain Vaule not Saved (Config Level: Verbose).
- [Bug #1872] Mapping error in is23.mix/is23eply.mix for passthrough G3_P1_R.
- [Bug #1788] Unit crashes when using Z1 command with verbose logging enabled.
- [Bug #1538] .enable function pointer doesn't work in System Information Menu.
- [Bug #1792] EAS Easytext templates will not work without ETXT licence present.

V1.13.7b8 - 28/08/2007

- [Bug #1871] Inconsistency between MAX_COMMAND_LEN and MAX_AUTO_STRING.
- [Bug #1880] OutputGain can't be saved correctly (can cause Output mute).
- [Bug #1928] EAS off can't restore live key, gives BLACK OUTPUT.
- [Bug #1940] Front panel freezes after EAS Easytext load failure.
- [Bug #1760] FP Easyplay load doesn't retain last filename.
- [Bug #1841] Wav files not deleted.
- [Bug #2033] Easytext flashes when a datasource is updated.

V1.13.7b9 - 29/08/2007 (unreleased)

- No changes.

V1.13.7b10 - 03/09/2007

- [Bug #2015] Strict/Relaxed Automation Mode.
- [Bug #2078] Resolve differences between processing of Automation and Presmaster protocols.

V1.13.7b11 - 13/09/2007

- [Bug #2057] Units lose baud rate/protocol settings after power cycling.
- [Bug #2082] Add missing verbose log file automation-to-text conversions.
- [Bug #1488] A and B signals get swapped when DVE Mode = AB Mixer.
- [Bug #2111] Loading DSK unloads easyplay file with Follow DSK off.
- [Bug #1578] Automation command to specify crawl count and tally when crawl completes.
- [Bug #2123] Stores should not be reloaded on restart when standard changes (verbose config mode).

V1.13.7b12 - 18/09/2007

- [Bug #2136] FP retains Easyplay media filename after the file is unloaded.
- [Bug #2138] Easyplay store is not unloaded with its equivalent DSK (Easyplay Follows DSK = On).
- [Bug #2121] 1 field dropout when switching DVE mode.
- [Bug #1578/2] Automation command to specify crawl count and tally when crawl completes.

V1.13.7b13 - 19/09/2007

- [Bug #2150] FP: Doesn't show loaded audio filename after the associated image file is loaded.
- [Bug #2153] DVE: The keyer mask are not aligned horizontally.
- [Bug #2167] Animation .oxa file can not be cut/fade up.

V1.13.7b14 - 27/09/2007

- [Bug #1858] Swap preview functionality required.
- [Bug #2151] DVE: Changing modes makes B channel shown after a delay.
- [Bug #2146] ISHD locking to SD reference timing is out by 16 lines.
- [Bug #2193] Comms problems between PCS and ISHD, NAKs in particular (**Linux kernel upgrade to 2.6.20**).
- [Bug #2210] Interrupt timeout issues.

V1.13.7b15 - 03/10/2007

- [Bug #1300] X5 command (return colour field status) needs implementing.
- [Bug #2172] Verbose logging incorrect for R0 enquire.
- [Bug #2236] Remove potential for flashing animation when DVE move is first loaded.
- [Bug #2238] ISHD v1.13.7b14 does not boot-up after software update.

V1.13.7b16 - 10/10/2007

- [Bug #2233] X9 command is not in auto2text
- [Bug #2241] Text crawl count is not updated correctly.
- [Bug #1578/3] Parameter to Zh command to make keyer cut down when crawl completes.
- [Bug #2244] Assigning faders don't do what is expected.

V1.13.7b17 - 12/10/2007

- [Bug #1307] Add Y3 tally to report which input is routed to program & preview.

- [Bug #2052] Add extra logging for R4 and R5 commands.
- [Bug #2265] RS422 communication failure in ISHD v1.13.7b15.

V1.13.7b18 - 15/10/2007

- [Bug #2263] DSK1 clip, gain and transparency values can not be changed.

V1.13.7b19 - 19/10/2007 (unreleased)

- No changes.

V1.13.7b20 - 24/10/2007

- [Bug #2053] 2GB file transfer limitation, increased to 4GB - (requires new OxSox.dll).

V1.13.7b21 - 26/10/2007

- [Bug #2299] Errors with existing log translations for Rm, XK, XL and Ye commands.
- [Bug #2305] Xb and Xp commands not shown in messages log (vebose logging).
- [Bug #2053] 2GB file transfer limitation, increased to 4GB - (requires new OxSox.dll).
- [Bug #2214] Invalid loop parameters for In-Loop-Out causes crash.
- [Bug #2282] Green line on left hand edge of DVE window (720p@59.94).
- [Bug #2323] Make more space available for message log file.

V1.13.7b22 - 31/10/2007

- [Bug #2228] Enable key source selection for external keys - (p181 firmware updated to l057b9.xsvf).
- [Bug #1858/2] Basic Swap/preview functionality not quite correct
- [Bug #2309] V-Fade through colour wrong when DVE in ABMIX mode.
- [Bug #2335] Add FP mirror to distribution.

V1.13.7b23 - 05/11/2007

- [Bug #2340] Factory Reset followed by System Restart causes audio to disappear.
- [Bug #2276] imsttest needs to support arbitrary length automation.

V1.13.7b24 - 06/11/2007

- [Bug #2284] Add ability for DVE sequences to follow-on from end of previous sequence.
- [Bug #2340/2] Factory Reset followed by System Restart causes audio to disappear.

V1.13.7rc1 - 13/11/2007

- [Bug #2349] Tally for preload completed.
- [Bug #2272] Imagestore logs should rotate when full.

- [Bug #1392/3] Removed static length limit for responses to automation commands.

V1.13.7rc2 - 22/11/2007

- [Bug #2370] Imsttest fails with error relating to missing ncurses library.
- [Bug #2371] Console blanking hard-wired to 30 minutes.
- [Bug #2369] Numbered file load (via 8 command) no longer works with easyplay.
- [Bug #2380] p205_test.xsvf missing in firmware folder.
- [Bug #2374] Inconsistency between R5, R6 and OxSox file name length.
- [Bug #2399] Make gpi.xml writable for all users (not just root).

V1.13.7rc3 - 28/11/2007

- [Bug #1578/4] Change new crawl tally from Yc to Yg to avoid automation conflict.
- [Bug #2414] Add 32 channel AES passthrough mixfile (32chn_AES_pass.mix)
- [Bug #2399] Make gpi.xml writable when copied from removable media via 'Configuration Load'.

V1.13.7rc4 - 30/11/2007

- [Bug #2416] auto2text logs Y6 and Y8 commands incorrectly.

V1.13.7rc5 - 05/12/2007

- [Bug #1858/3] Ensure 8 command (Load Image from Library) works correctly in Swap-Preview mode. Also ensure that forwarding on commands to Intuition works correctly for 0, 1, 2, 3 and R0 in Swap-Preview mode.
- [Bug #2426] EAS off reveals some glitch on the screen.
- [Bug #2431] Tally when crawl completes (Yg) should include number of crawls so far.
- [Bug #1578/5] First loop not counted in crawl count - (affects Zh/Zc commands and Yg tally).

V1.13.7rc6 - 06/12/2007

- [Bug #1578/6] Parameter to Zh command to make keyer cut down when crawl completes.
- ~~[Bug #2228]~~ Reverted back to p181 firmware l057b8_20070514.xsvf (from l057b9.xsvf).
- [Bug #2442] Crawls pause sometimes when entering Load Image menu on front panel - (backed off logging changes from bug #2052).

V1.13.7rc7 - 06/12/2007

- [Bug #2228/2] Enable key source selection for external keys - (p181 firmware updated to l057b9.xsvf).

V1.13.7 - 06/12/2007

- No changes.

V1.13.8b1 - 04/02/2008

- [Bug #2411] Some IS2 options missing from GPI Setup > GPI Outputs - (VO1/VO2 On/Off).
- [Bug #2468] Audio embedder enabled when no audio board present.
- [Bug #2477] ISHD fails to restart via 'Restart System'.
- [Bug #2273] Delete operation in GPI setup will make the GPI Macro not respond.
- [Bug #2344] Add automation command that returns the full software version number.
- [Bug #2504] Diagnostics archive does not contain message logs.
- [Bug #2492] Set Transition Duration command (B) has no enquire option.
- [Bug #2246] Hostname text datasource is incorrect.
- [Bug #2429] GPI events needed for remaining audio actions, to match IS2.
- [Bug #2433] Live Fill/Key gets through the DVE window for AB over DSK1.
- [Bug #2427] DSK 1 animation showing strange color When DVE mode se to AB over DSK1.
- [Bug #2495] Unintended video combining in DVE mode: DVE's over DSK.
- [Bug #2215] Set CGT (F) does not accept clip/gain values of 0-63 and 941-1023 - (should clamp them to 64 and 940).
- [Bug #2459] Increase maximum audio fade rate from 600 to 999 fields.
- [Bug #2539] Unclear description for Load Live command in GPI setup.
- [Bug #2464] Add new voice-over preview gain type (VO1_PREVIEW_XP/VO3_PREVIEW_XP).
- [Bug #2543] DVE doesn't reload a "modified but not saved" sequence.
- [Bug #2562] Extra GPI voice-over actions triggered at *start* of VO1/2 fade up/down.
  - **Upgrade note:** Voice-over events for GPI outputs have changed, invalidating configurations with GPI outputs triggered by these events. Update from the front-panel menu, choosing whether the GPI should be triggered at the start of the fade or when the fade is completed.
- [Bug #2570] 'EAS Set Test' should read 'EAS Set Text' in auto2text.
- [Bug #2444] Embedded 7.1 mixfiles have wrong audio mapping.
- [Bug #2540] Prevent unsigned ints from being logged as signed ints in heap_alloc().
- [Bug #2450] Provide YB tally upon media add/delete/modify.
- [Bug #2556] Add rename support to media notifications.
- [Bug #2579] Add automation schedule facility to imsttest.
- [Bug #2423] Add 'Minimal' and 'Verbose' configuration levels onto front panel.
- [Bug #2566] Audio A/B mixing should be disabled for ISHD LOGO.

V1.13.8b2 - 07/02/2008

- [Bug #2432] Swap/preview state not stored between reboots.
- [Bug #2429/2] Correction to GPI Output actions for VO and Fade-to-Silence.

V1.13.8b3 - 12/02/2008

- [Bug #2365] Remove warnings from build (Part fix).
- [Bug #2450/2] Increase length of YB file-type parameter from 2 to 6 characters (8 to 24 bits).

V1.13.8b4 - 27/02/2008

- [Bug #2591] "#g" and "unassigned command handler" refactoring. (log #g call).

- [Bug #2603] Verbose Logging stopped during test.
- [Bug #2519] Deferred commands not actioned if requested across midnight boundary
- [Bug #2638] Datasource (m) commands incorrectly logged.
- [Bug #2599] Scheduler query commands (i3) do not return any data.
- [Bug #2379] Add new automation command (#w1) that forces a read of gpi.xml.
- [Bug #2559] gpi.xml file should contain the software version.

V1.13.8b5 - 03/03/2008

- No changes.

V1.13.8b6 - 06/03/2008

- No changes.

V1.13.8b7 - 20/03/2008

- [Bug #2664] Feature request for per layer datasources (m2 and m3 commands).
- [Bug #2682] Ensure that video and audio tallies are only sent (in bulk) to the port that just registered for them (via Y61, Y81, Ya1).

V1.13.8b8 - 25/03/2008

- [Bug #2701] Add frame count into timestamp shown in message logs.

V1.13.8b9 - 28/03/2008 (unreleased)

- No changes.

V1.13.8b10 - 11/04/2008

- [Bug #2734] Ingest of animations which are currently on-air causes jittery graphics. Fixes OxSox media transfers, not ftp.

V1.13.8b11 - 14/04/2008

- [Bug #2749] Automation containing a "%" causes a crash when verbose logging is on.

V1.13.8b12 - 17/04/2008 (unreleased)

- No changes.

V1.13.8b13 - 22/04/2008

- [Bug #2711] Added j7a1 command to enable unsolicited j7a audio input tallies (an extended version

of the j70 tally for all four channels).

V1.13.8b14 - 01/05/2008

- [Bug #2712] Lack of unsolicited tally for Image Clip/Gain/Transparency (F) + Image Position (G).
- [Bug #2750] Add Y6 and Y8 tally enquire.
- [Bug #2766] X4 command does not support enquire (just set).
- [Bug #2767] N command does not return the AB mix transition type.
- [Bug #2744] Refactoring of Set Passive Delay (Yb) command handler - (no functional change).
- [Bug #2662] Remove unused licence codes.
- [Bug #2597] Invalid final parameters for S1 automation command should be rejected.
- [Bug #2770] Set audio mix mode causes invalid passive tally.

V1.13.8rc1 - 14/05/2008

- [Bug #2782] Add front panel option to send out a wake-up packet on user request.
- [Bug #2365] Remove warnings from build.
- [Bug #2615] Add XPanel automation support.
- [Bug #2807] Messages file spammed with 'N0' null command messages when Keyer Operations is selected on front panel.
- [Bug #2655] Include upgrade process into release notes.
- [Bug #2633] Default serial comms to 57,600.
- [Bug #2618] XB logging message incorrect.
- [Bug #2519] Deferred commands not actioned if requested across midnight boundary

V1.13.8rc2 - 22/05/2008

- ~~[Bug #2615/2] Added missing commands to auto2text for XPanel automation support.~~
- [Bug #2655/2] Moved software update process to the top of the release notes.
- [Bug #2814] Increase 4GB OxSox file transfer limit for writes (PutFile) - now 64-bit.

V1.13.8rc3 - 22/05/2008

- [Bug #2655/3] Improved software update process description within release notes.
- [Bug #2615/2] Added missing commands to auto2text for XPanel automation support.

V1.13.8rc4 - 22/05/2008

- [Bug #2615/3] Corrected further problems with 'null' and 'invalid' auto2text for XPanel automation support.

V1.13.8rc5 - 10/06/2008

- [Bug #2838] OxSox GetFileStat2 command takes too long (200ms) to return.
- [Bug #2814/2] Increase 4GB OxSox file transfer limit for writes (PutFile). This is now 64-bit, with better backward compatibility.

- [Bug #2859] Increase 4GB OxSox file transfer limit for reads (GetFile).
- [Bug #2888] Add 64bit support to the OxSox GetFullDir command.
- [Bug #3112] Long datasource names do not work correctly.

V1.13.8rc6 - 15/08/2008

- [Bug #2568] Add ability to browse data source names and their values.
- [Bug #3161] Imagestore crashes on startup.
- [Bug #2837] Add RB automation command to return the time of an Easyplay file (SMPTE format).
- [Bug #3333] Increase stored number of backlogged messages.

V1.13.8rc7 - 12/09/2008

- [Bug #2888/2] Add 64bit support to the OxSox GetFullDir command.
- [Bug #3483] Correct log_error calls that contain incorrect parameters.
- [Bug #3429] Sequences directory missing from diagnostics archive.
- [Bug #3458] Black frame flicker seen when loading Fill/Key onto cut up DSK.
- [Bug #3521] Setting external fill/key on DSK should be ignored if already set.

V1.13.8rc8 - 09/10/2008

- [Bug #3535] Reduce amount of memory copied between main and blit.

V1.13.8rc9 - 16/10/2008

- [Bug #3646] Ensure that all malloc/realloc errors are logged.
- [Bug #3668] Ensure datasource commands are logged when level is 'Media/Keying'.

V1.13.8rc10 - 20/10/2008

- No changes.

V1.13.8rc11 - 23/10/2008

- [Bug #3439] Set Fade Rate does not update user changes.

V1.13.8rc12 - 30/10/2008

- [Bug #3708] Prevent O tally from being sent to Presmaster unless explicitly requested.
- [Bug #3715] imstsox crashes when OxSox returns incorrect thumbnail info to PCS.
- [Bug #1090] Validate in-loop-out animation start and stop values to prevent field-swapping.
- [Bug #3511] Cannot build branch13 due to build errors.

V1.13.8rc13 - 03/11/2008

- No changes.

V1.13.8rc14 - 28/11/2008

- [Bug #3649] Include command string with 'Incorrect STX' warning message.

V1.13.8rc15 - 22/12/2008

- [Bug #3970] In-loop-out message should be seen when logging is 'Verbose'.
- [Bug #3932] Green flashes on animations set to 'No Key' which contain fill and key data.
- [Bug #3936] Increase 128KB limitation for datasource memory to 1MB.

V1.13.8rc16 - 23/12/2008

- [Bug #3962] xml_get_data_size throws an error if the xml node self closes.

V1.13.8rc17 - 08/01/2009

- [Bug #3936/2] Increase 128KB limitation for datasource memory to 1MB - (correction for removal of datasources, and bad initialisation of datasource memory).
- [Bug #4026] Implement m80 command to delete all datasources.

V1.13.8 - 08/01/2009

- No changes.

Notes

Please note: To downgrade software from 1.13.x to 1.11.x on units currently using the JFS file system (Setup > System Information > File System Type) the "InitHD" option must be used. When doing this it is essential that the Imagestore configuration and all media are backed up first. If the unit is currently using the EXT2 file system then the standard "Update" option can be used.