



TechTalk

Technical News and Information from DTS Digital Cinema

OCTOBER 2007 | ISSUE 17

Current Software Versions

The current software versions for DTS Digital Cinema (DTS-DC) cinema products are given below. Software upgrades are free and are usually distributed on a disc or IC chip. As noted, some updates can be downloaded from the DTS-DC website "support" section. Please contact DTS-DC Technical Support for more information.

DTS-6AD in VERSION screen (Menu – Version):

CPU Version 2.08
DSP Controller 1.03
DSP Firmware 2.06

DTS-ECP in DTS CP Setup screen on PC:

CPU Version 2.01
DSP Controller 1.03
DSP Firmware 1.10

DTS-6/-6D

"TCR" V1.46 U14 IC chip on D422 timecode board

DTS-ES

V1.1 in last boot screen "Product Revision"

DTS-CSS

V1.01 In VERSION screen (Enter- Version)
★ **MediaLink XD™ software** V1.0 (viewable from Browser screen – About)

XD10

Updated! V2.1 in VERSION screen (Enter – Info – Version)

XD10P Setup Software

V1.00.26 in Setup Version "component information" seen on PC screen. The disc itself is labeled V1.4.

★ **XD10P Unit Firmware**

As seen on "component information" screen of XD10P Setup Software
PIC Firmware V D70412
Matrix Firmware V 050215
NR Firmware V 050325
EQ Firmware V 051025

★ **XD10P** and **MediaLink XD** software updates can be downloaded from the DTS-DC website "support" section. Once in "support," click on 'Cinema Products' and choose the model, then click on "software updates." Follow the posted instructions to properly download and enable the software update. Current software release notes are also posted.

Note: The above versions may not apply to special venue (SV) units.

We Are Now “DTS Digital Cinema”

Yes, our company name may have changed but not our dedication to you! Due to our split from DTS Inc. (which is now devoted to consumer electronics), our existing cinema business has been expanded to include new products and services for d-cinema. The name may be slightly different, but the service remains the same; we will continue to fully support old and current product while developing new and exciting technology for digital cinema. Please check our website for those announcements.

New! Support Section on DTS-DC Website

We have just completed revamping our website and are pleased to announce a new SUPPORT section that is available to all users. Go to www.dts.com/digitalcinema and click on “Cinema Products”. Then click on the “support” link to get into the new section. The section contains product manuals, troubleshooting guides, technical notices, and TechTalk issues. This section is not password protected as is the Techcenter - which, by the way, is undergoing its own reconstruction. We are currently changing it into a self service knowledge base. More about those endeavors coming soon!

Noise Problem Resolved On XD10 and XD10P to Unbalanced Input

We discovered a grounding problem on XD10 units with mother board model “Asus P5P800-VM” that sometimes resulted in **noise** being heard in the Analog Out (Ext1) surround channels when the XD10P is connected to unbalanced device such as

the QSC™ DCM-1. We have made changes to the **E508** board to correct this problem and theaters experiencing it should replace the XD10 E508 board. Please see **TN-H182** (available in DTS-DC website “support”) for details.

Silent XD10 “Digital Out” Problem Resolved

We discovered an issue with the E622 board sense circuit that did not always sense cues from house automation when the supply voltage for automation was 5 volts or slightly below. This resulted in **silence** (no output) on the Digital Out connector (Ext2) even though the XD10 “DTS Playback” indicator was lighted indicating that the unit was playing in DTS Digital Sound. We have made changes to the **E622** board to correct this problem and theaters experiencing it should replace the XD10 E622 board. Please see **TN-H191** (available in DTS website “support”) for details.

New v2.1 Software For XD10

New XD10 software, **V2.1**, has been released and included in all XD10 units shipped Oct 2007. Due to the significant menu changes, the manual was also updated and new version is now available at the DTS-DC website. The software changes include:

- Additions to Playback menu for video and film
- Additions to Timecode Reader Offset menu for 35mm and 70mm readers, and support for SMPTE Timecode.
- Additional settings can now be saved to an USB memory device:
 - a. Software updates.
 - b. License files.
 - c. Video content and configuration files through the USB memory or hard disk.
 - d. Projector profiles.
- Additions to the Video menu:
 - a. Network transfer while playing.

- b. Playlist start while film is playing.
- c. Projector Profile for serial control.
- d. Alternate Content Video, alternate video content can be loaded and played on the XD10 without affecting the Preshow or other playlists. It can be loaded on to the XD10 through DVD(s) or USB drives. Loading a show list for alternate video content automatically deletes the previous one.
- e. Display Video Contents and Playlists, a menu has been added for viewing what video content and playlists are loaded on the XD10 hard drive.
- f. Video Audio Setup Options.

To take advantage of these changes, please upgrade your XD10 units during the next preventative maintenance.

To discover the software version of your XD10 press ENTER – Info – Version:

- If your XD10 is at V2.00.36 or below, then you must the full “install” V2.1 upgrade kit part # **9005F59000C**
- If your XD10 has V2.00.40 then you should use the “update” disc part # **9311E77300V2.1**

To order the upgrade kit or update disc, contact your DTS dealer or DTS Technical Support and request it. The kit or disc is free of charge.

Playing Alternate Content On XD10 v2.1

TN-H170 (available in DTS-DC website “support”) describes what is required to playback alternate content , such as a video clip, on the XD10 with software V2.1.

Using SMPTE Timecode With XD10 v2.1

TN-H171 (available in DTS-DC website “support”) describes operating the XD10 with SMPTE timecode. The XD10 must have software V2.1 before SMPTE timecode can be used.

Troubleshooting Tips

Can I replace the fan in my DTS-6/-6D power supply?

We do not recommend it. If the fan is not working, the entire power supply module should be replaced. We do not sell the fan separately. Use **TN-E549A** (available in DTS-DC website “support”) when replacing the power supply.

My DTS-6AD and XD10 will not play new movies.

The software for the XD10 and DTS-6AD has recently been updated.

For the XD10, go into the XD10 menu and check its software version by pressing ENTER – Info –Version. The unit should say V2.00.43 or higher. If it is not, then the software needs to be upgraded before it will play newer movies. Contact your dealer or DTS-DC Technical Support and request the free V2.1 XD10 software upgrade kit.

For the DTS-6AD, go into the menu and check its software version by pressing MENU – VERSION. The CPU Version should be at V2.08. If it is not, then the software needs to be upgraded before it will play newer movies. Contact your dealer or DTS-DC Technical Support and request the free V2.08 DTS-6AD install disc.

My theater was just hit by lightning and now my DTS units won't boot.

Protecting all DTS-DC hardware with surge protection is very important. DTS-DC does not

supply surge protectors however they can be found at local hardware and computer stores, and are easily found online. We recommend they be rated:

- 5 amps or better
- Joule rating 400 or more
- Response time of 10 nanoseconds or less
- Clamping voltage of 330 or less
- Protection on all wire combinations including ground

We recommend a surge protector that has an indicator light or alarm so you know a high level surge has occurred and one that is UL 1449 compliant, example “Tripp Lite ISOBAR2.”

Purchase the surge protector that fits your budget and be aware that it requires monitoring. A surge protector that has reached its capacity no longer provides protection and should be replaced. Please consult the manufacturer for details.

We recommend that surge protectors be checked regularly and during each preventative maintenance visit.

After swapping inside the unit, I have no output from the XD10 “Analog Out” connector.

Whenever swapping cables or boards inside a unit, be sure to always power off first. If the board/cable is “hot-plugged” (connected or disconnected with power on) damage can occur.

In this case, it’s likely that the F3 fuse on the E494 board has blown and if so, the D494 board must be replaced. Replacing the fuse is not possible on this board since F3 is a surface-mount part that is soldered to a multi-layered board. Please never attempt to solder or de-solder any part on a multi-layer board – especially if it’s a surface mount part. Surface mount parts are very heat sensitive.

See **TN-H195** (available in DTS-DC website “support”) for details on troubleshooting the issue of no “Analog Out” on the XD10.

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