

# Release Notes for Deva and Fusion software

## Power Roll Feature

Deva or Fusion can now send Power Roll information via its timecode output to an IFB100 or QRX IFB. Power Roll mode allows a transmitter to be placed in a high power state whenever the Deva is in Record or Playback-Audition mode (if the TRX is set to ALLOW POWER ROLL = DEVA TRIGGER). When Deva is in STOP mode, the TRX remains in a lower power transmit state to conserve battery power during non-critical times. When Deva is set to Power Roll = LOW, the Deva sends a LOW POWER power-roll signal at all times regardless of the transport mode. If the Deva is set to Power Roll = HIGH the Deva sends a HIGH POWER power-roll signal at all times. If the TRX is set to ALLOW POWER ROLL = OFF the Deva's power-roll state is ignored. If the TRX is set to ALLOW POWER ROLL = RECORD TRIGGER the transmit power is determined merely by the RECORD or STOP state of the transmitter (which may not match that of the Deva). This feature requires at least v7.35 in TRX and IFB100 or at least v1.36 in the QRX IFB OPTION.

## Saving and restoring Deva/Fusion's configuration INI files

Starting in version 5.14 an Export Settings feature was added to allow Users to save and restore all their settings to or from any (FAT32 formatted) mirror disk.

Insert a formatted mirror disk or card and turn mirroring off. Go to the Main Menu, type 1967 to get to the debug screen, press F5,5 (or TRIM,5). This will copy your configuration memory files TO the mirror disk. You may then read the resulting INI files from a mirror disk by pressing F5,4 or TRIM,4

Export = F5,5 (TRIM,5 on a Fusion)

Import = F5,4 (TRIM,4 on a Fusion)

## Processor speed selection feature:

Type 036 in the main menu and go to SETUP::SERVICE

There is a new processor speed button. If the processor speed is set to HIGH the 192kHz button in the Sample Rate menu should remain enabled. If not, the "9" key must be held during power up in order to allow 192kHz mode. Older Deva 4's (Rev B DSP board) may not run reliably at the higher processor speed. The higher speed will increase the mirroring speed by about 20% and will allow the user to enable more effects before the screen becomes sluggish.

## **Known Issues:**

Turn off all effects before switching to a higher sample rate. If you want to use 192kHz mode, then you should perform a factory restore defaults to insure all effects are turned off. When changing from 192kHz to 48kHz sample rate, select 96kHz first as an intermediate step to prevent a possible freeze. Holding the ZERO key while booting will force the Deva back into 48kHz mode.

**Mirror Disk Playback** must not be enabled while mirror mode is on. Doing so will cause the unit to appear to be in playback when it is not. Playback button may not update properly until the current screen is exited.

**Playback from a DVD-RAM** disk often will not be fast enough to sustain the Deva's playback buffer. This will often result in only partial playback of a file. Press STOP periodically to allow the playback buffer to fill back up.

## Version v7.56 Sep 24 2012

Fixed motor boat sound due to trim constantly changing

## Version v7.55 July 21 2012

Fixed some time code accuracy problems

Fixed problem with Mix12 setting displaying strange text when upgrading software

NOTE when changing the MIX12-ENABLED option, ALWAYS re-start the machine

## Version v7.54 May 25 2012

Prevented timecode from improperly jamming when AUTO-JAM-DATE-AT-MIDNIGHT is turned on

## Version v7.53 May 16 2012

Smoothed out analog and digital trim adjustment on inputs 1-8

## **Version v7.52 Apr 5 2012**

Added changes to disk driver to support more CF cards

## **Version v7.51 Feb 21 2012**

prevented random headphone beep when going into record  
prevented compressors from changing tone level

## **Version v7.50 Nov 10 2011**

7.49 added some restrictions needed for using a Mix8  
added a specific MIX8 selection in SETUP MENU  
7.50 fixed continuous mirror mode's reluctance to start mirroring the 1st seg in a folder

## **Version v7.47 July 28 2011**

Fixed low battery warning bug. The fractional part of the setting was getting truncated after a power cycle. For example: 13.5V was getting changed to 13.0V after a power cycle.

## **Version v7.46 Jun 20 2011**

Added Support for ZaxNet Power Roll feature  
(Requires v7.35 in TRX and IFB100 or v1.36 in QRX IFB OPTION)  
Added Power Roll button to ZaxNet page

## **Version v7.45 Apr 6 2011**

Fixed Problem with digital input trims not remembering after a power cycle

## **Version v7.44 Mar 18 2011**

Mirroring fix: Fixed missing iXML CHANNEL and INTERLEAVE INDEX when the user did not name a particular track. This is needed when using iXML PRO software by Gallery

## **Version v7.42 Jan 21 2011**

fixed unpredictable changes in Camera and Slate gain

## **Version v7.41 Dec 07 2010**

fixed mix12 digital fader assignment problem (again)  
turning mix12 support ON no longer requires reboot

## **Version v7.37 Oct 25 2010**

Changes in Mix12 section to fix some fader assignment bugs  
Several other changes that should not be apparent to the user

## **Version v7.36 Sep 13 2010**

7.36 made HP beeps change volume along with HP volume control  
7.35 added some more recording safety measures  
7.34 no longer allow playing back an empty folder (made loud noises)  
7.33 fixed problem with record warning beep when Headphone Alarm is activated  
7.31 fixed FREE\_MIS1\_ERR message  
7.32 fixed headphone alarm tones feature  
added headphone alarm tone detector to detect frozen record process

## **Version v7.30 Aug 10 2010**

Fixed Slate Mic trim bug fix  
Fixed mix12 slate screen interaction problem  
Fixed missing keypad shortcut  
Fixed mix12 fader assignment bug  
Fixed a meter gray-out problem  
Changed FAST DSP speed behavior on boot up  
Sound report generation: fix missing "DONE" message

## **Version v7.12 May 07 2010**

Fixed Fast-Forward and Rewind buttons in CUE menu

### Version v7.10 May 03 2010

Fixed annoying noise when restarting the unit

### Version v7.09 Mar 16 2010

7.09 fixed problem with Mix12/Mix8 fader movement slowing down recording process  
expanded output routing to allow routing copies of outputs (to reduce duplicated crosspoints)

### Version v7.08 Dec 16 2009 (ZAXNET VERSION)

v6.06c added F6 boot key: which causes a **folder recovery** operation - note that recovered folder info is not written to the drive unless a recording is made in that folder!

6.08f Added low battery warning on boot up (9.0 Volts)

6.08k no longer send Zaxnet commands if in the TimeCode Screen (**for non-zaxnet compatible slates**)

7.03 Fixed: was not properly saving trim mode on digital inputs

7.05 Fixed aux line input trim 1..4 which were not being updated after a power cycle  
allowed over-clocked (by 10%) DSP speed (320MHz) when #2 key is held at boot  
battery screen index fix  
meter label entry screen fixed tab bug  
change to properly update limiter crosspoint display  
fixed decimal point entry in Battery meter screen (use back arrow key)

7.08 moved Zaxnet button to the left to avoid changes during touch screen malfunction

### Version v6.03u Jun 26 2009

Added better "Free space left on mirror disk" indicator on Mirror Status button

The **SERVICE** screen was added in z3.32. Type 036 in the main menu and then go to the DevaSetup:Service screen. Here you can enter your EQ/Compressor enable code or you can use the buttons to load and burn deva software:

**LOAD PROGFIL**: Read in the DevaProgFile.bin file from a FAT32 disk

**LOAD FROM CD**: Read in the DevaProgFile.bin file from a CD or DVD-R disk

**BURN PROGRAM ROM**: burn the rom with the recently loaded program

## External disk playback instructions

Version X3.10 software does have a few known issues with playing back DVD-RAM disks.

To play back from an external DVD disk press the folder status button near the bottom of the home screen. In the folder display screen you will see a new button called **ENABLE-DVD-PLAYBACK**. After an external FAT32-formatted disk has finished mounting and mirroring has been turned off, you may press this button to “go to” the external disk’s folder. Note the disk cannot be formatted as UDF and since DVD drives can be sluggish if they have spun down, be patient and allow the drive to spin up and mount when appropriate. It takes the DVD drive 15 seconds to *begin to* read a disk from a dead stop.

Deva will automatically choose the most recently mirrored folder found on the external disk as its play back folder.

**Note:** Pressing the **RECORD** key while in **DVD-PLAYBACK** mode will switch the Deva back to the previously selected folder. The **RECORD** key may have to be pressed 2 times to start recording in this case.

If the playback buffer has been filled by going into DVD-playback mode and the DVD disk has then spun down, pressing **PLAY** will start to play audio in the RAM playback buffer. If the DVD does not spin up quick enough to continue filling the playback buffer, audio may be skipped or the Deva may go into Stop mode (after several seconds). To prevent this, if the DVD has spun down, press Play and then Stop to trigger the DVD to spin up. Once the deva is spinning at full speed, you may press Play again.

**Hint:** A quick way of checking to see if an external disk has been mirrored correctly is to eject the external disk (after mirroring is turned off). Re-insert the disk and select **ENABLE-DVD-PLAYBACK** (after the disk has finished mounting). This process re-reads the FAT32 directory structure and reads the header of each mirrored audio segment. If 200 segments were mirrored and the **DVD-PLAYback** folder button says “200 Segments” then the probability that this disk has been mirrored properly is very good. This is a good check to perform if you do not have the time to playback the audio from each mirrored segment.

## **PS2 Keyboard assignments:**

### ***FUNCTION KEY SHORT CUTS***

F1 Go to the Cue Screen  
F2 Circle Take  
F3 False Start  
F4 Go to Time Code Screen  
F5 Go to Scene Take Note Screen  
F6 Go to Headphone Mix Screen  
F9 Edit Scene in Scene Take Note Screen  
F10 Edit Take in Scene Take Note Screen  
F11 Edit Note in Scene Take Note Screen

### ***HOME SCREEN***

Holding the control key down while pressing a number 0-9 brings up a field for editing the desired meter label. Note that '0' is considered '10' e.g. CTRL-1 to edit meter number one's label. Once a meter is being edited you can use the tab key to save the current edit and move to the next meter for editing. While a meter is being edited it will not update.

### ***SCENE TAKE NOTE SCREEN***

Holding the control key down while pressing a number will insert that preset note into the current note field. You can get note numbers 11-20 by holding down the shift key (in addition to the ctrl key) and pressing a number 0-9 which map to 10-20. Holding the alt key down while pressing a number will save the current note field to that preset note number. The left/right arrow keys will step through segments, while the up/down keys will scroll through the preset notes. The F9,F10,F11 bring up the Scene, Take, and Note editing fields respectively.

### ***MISC KEYS***

When editing the User bits the F1-F6 keys are mapped to the hex letters A-F. While in the editing field if you press HOME the cursor will move to the first character in the field, pressing END moves to the last character. Arrow keys move left/right.

Note: When powering down Deva it is recommended that the user go to the home screen and wait for about 1 second before powering down the deva. This ensures that all recently changed non-volatile data will be saved, For example if the user changes the gain trim and immediately powers down the deva, that setting will not be remembered.

**Troubleshooting note:** If you power up the deva, wait about 3 seconds and then hold the menu key continuously it will pause the deva after the boot sequence allowing you to read the first test page. You can read the capacity of the drive and see if the hardware tested ok. When you let go of the menu key, deva will continue to boot normally.

## Connections to Cameo

Deva RS422 DB9 MALE	Deva RS422 DB9 MALE
X+	
X-	
X+	
X-	
GND	GND
IPI 1 IN	
IPI 2 IN	

Deva 4 and Deva 5 (Hardware Revision B only) AES considerations:

When in internal AES ref mode:

Consider the AES output pair that is used as the sync source for the external device: the corresponding input pair must be left unconnected.

Example: AES outputs 78 are used to sync the external device to deva. therefore AES inputs 78 must be left unconnected

When in Auto AES mode, there are no limitations, inputs 1,2 are the deva's reference Do not use "Ext. AES" mode for anything, rather use "Auto" or "Internal"

There has been confusion regarding the Tone/Reference setup:

This setting effects the meter's 0db point and tone generator's level only,

No gain changes occur anywhere else in the box.

Full scale digital clipping is always at the top of the meter (no matter what the tone/ref setting is set to).

Operating Mode setting: only Normal mode is supported at this time

Meter text labels are not saved in WAV file metadata yet.

Cue mode: deva cannot Rewind or FastForward, or cue to a timecode.

## **Version v6.02u Jun 25 2009**

Fixed potential bug in GUI that could cause a crash  
Added "Free space left on mirror disk" indicator on Mirror Status button (FAT32 disks only)

## **Version v6.00u Jun 16 2009**

modified FireWire library to check for the corrupted sector that SamHecht drive creates  
should fix the "need to format DVD-RAM disk twice" bug related to the Sam Hecht drive

## **Version v5.99u Mar 14 2009**

Added output routing features  
Fixed the saving of some EQ settings  
Fixed digital HPF (was not filtering the digital inputs)  
Fixed memory leaks in DiskMix, OutputMix and HeadPhone screens

## **Version v5.65u Mar 6 2009**

Fixed automatic Take increment to prevent loss if STN metadata  
Fixed problem in Deval6 with mirroring more than 14 mono WAV files at a time  
added fix to allow mirroring to continue even after an audio error (from 5.44o)  
Fixed brightness Default setting after a Factory Restore Defaults

## **Version v5.64u Feb 25 2009**

5-63 fixed Fusion 12 only having 10 tracks  
fixed problem with turning off mirror mode with UDF formatted disks  
(note: UDF disks cannot mirror in continuous mode)  
attempted to fix default brightness problem (defaults to lowest brightness setting)  
5-64 addressed ERASE\_5\_ERR and F32\_LinkCl\_WARN during format of internal disk  
added re-try for link cluster warning  
added warning if format internal disk had a problem with link cluster

## **Version v5.62u Feb 10 2009**

Fixed Compressor's Decay and Attack settings (not restored after power cycle)  
Fixed FORMAT DRIVE so it makes wrapper files that can be copied on a PC  
Added extra two optional meters on home screen  
minor EQ changes  
allow metering of analog / digital inputs / outputs on home and cue screens  
removed extraneous soloing of post fader analog and digital channels  
fixed display of headphone configuration in headphone screen  
improved mix12 communications and recognition  
only look for a mix12 when the mix12 switch is on  
Removed Keyboard wake-up fix to prevent sluggishness when keyboard is unexpectedly removed  
added option codes for 10ch Fusion  
Changed WAV metadata name to always be "Deva5" instead of "Deva"  
to prevent the Fostex DV824 from misrepresenting the timecode (48k 29.97)  
added free 10ch upgrade for all Fusion-8 owners

fixed headphone preset crash partial  
fix of limiters latching up after PLAY (96khz horsepower performance may be degraded)  
Mix8 checksum bug fix (faders on mix8 would not work)

----- 2009 -----

NEW: Fusion-12 code (major crash bug fix)

added NewLCD switch (hold the "4" key during boot to toggle the display type)