

# TECHNICAL NOTE



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(3 pages)

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## D5, D1, DS00 MIXER Upgrade of rack firmware

### **Software Upgrade procedure**

The following notes assume the operator is familiar with the use of Windows Explorer (in Win 98/ME based systems). Do not undertake software upgrades except on direct instructions from the factory or your distributor. If in doubt do not attempt to change your software, this is too valuable to you! Take your time, follow the notes and if you are unsure, please ask! Allow for time to test the system after the upgrade, before beginning any important work.

As a general note, after a major software & firmware upgrade it is wise to completely "cold start" the system again and reload any session to be used.

The following notes are written for the D5, however the procedure is identical for D1 and DS00, just substitute the correct mixer title and version in the following notes.

### **Copying Firmware to Mixer Procedure**

Copy rack.bin and rack.bit (if supplied) to the Disgo USB keyfob for transfer to the mixer.

If at all possible, do NOT to use a Mac in PC emulation to download files, emails, copy disks or to copy to the mixer. This is has been known to corrupt the files and they will not un-compress. If there is not a choice, it has been found that turning Mac "virtual PC" mode off and treating the files "raw" works better. Perhaps try both.

Start the mixer.

From the D5, quit to windows

Do NOT use the touch screen in Windows mode, Use the trackball.

Open Explorer.

Copy rack file(s) to c:\incoming on the mixer

Create a new folder c:\backups\121206 in the existing backups folder (we use today's date by convention)

Go to c:\d5, find the files rack.bin and rack.bit

Copy these to the newly created backup folder

Copy (do not move) the new rack file(s) from c:\incoming to c:\d5, overwriting existing as requested.

### **Rack Firmware upgrade Procedure**

This update is to be performed on all racks, using MADI. Optically connected racks must be reconnected using madi. If this is not possible directly, the Madipod module from optically connected racks should be removed from their racks and upgraded using the mixer's MADI connected local rack.

Connect the first rack to be upgraded to MADI port B (or 2) on the mixer, using a 5m local rack cable, if possible do not use a 50m cable.

Disconnect all other MADI ports. Switch the rack power on.

Quit to Windows from D5, on the mixer.

Do NOT use the touch screen in Windows mode, Use the trackball.

Open Explorer

Go to C:\D5, Find Digirack.exe, double click on this to run the program.

At the top of the page select Madi port 2 if it is not already selected.

The version "In Use" in the rack and "Available" on disk will be shown in the top box of the Digirack window. There are 3 parts to the rack firmware.

These versions are in the form of dates

Where there are version differences, the upgrade recommended boxes will automatically be checked.

If no dates are indicated in the "In Use" column, close down the Digirack.exe program and reopen it. If dates are still not indicated, then turn the rack off and then on again and reopen Digirack.exe.

Assuming there are rack version differences press the rack update button in the top box.

The lower edge of the window will show progress and any errors during the process.

The whole process takes about ½ minute for both files, about 10 seconds for rack.bin only.

If the process is OK, versions for the rack and disk will match.

If the upgrade process stops and proceeds no further or the process completes and still shows a date mismatch, then close the Digirack.exe program, reopen it and repeat the above procedure as required for complete update.

If the procedure appears to fail after a few attempts, quit all programs, turn off all power and repeat the process from a "cold" start.

If the procedure still appears to fail, quit all programs, turn off all power and repeat the process from a "cold" start however using madi port 3 ("c" on older mixers).

After the rack has been successfully updated, power it off and on again.

Otherwise repeat the above process with all other racks connected to MADI port 2 again.

Important Notes: After reloading firmware racks must be "defaulted", as procedure below.

### **Resetting Rack Defaults Procedure**

There are 2 pairs of up/down buttons on the Rack Madi interface module, page and data and an LED display.

The Menu is a series of pages

Use the page ^ and v keys to navigate the pages.

The display will show the page item and the data associated with it. The data ^ and v keys are used to change the displayed setting, where this is possible.

The default display is the primary system status and active sync input. Typically this will read OK:RxA or OK:Opto

The LED readout will default to the primary status display, from any previous setting and the buttons will go to a "locked" mode, where the buttons are disabled, to prevent tampering.

Pressing any button in this state causes dDEC/INC to display. This is a prompt to unlock  
Press both data buttons together (data - Decrement + Increment) to release the menu system.

Use the page buttons (use the ^ button first) to find the "Default" page.

Press a data button and the message "Sure?" will appear. Press a data button.

The display will go out for 5 seconds and then restart.

The rack is now returned to defaults and all modules have been detected and reloaded.

The rack is now ready for use.

Note: If optocore equipped racks do not operate correctly use the following procedure to toggle the optocore IDs.

Using the four small white buttons on the rear of the rack, press both Data buttons together to unlock paging mode.

Press the Page Up button to show the Optocore ID.

Change this value to a different one and then change it back to the original number.

ID 30 for Stage Rack 1 and ID 32 for Stage rack 2