

Ashly 48k Level 1 Voicings

nXp, PEMA, & ne/pe Series Amplifiers, neXX00 Series Processors

17 September 2024

17Sep24 Voicing files (.voc) for Ashly DSP-enabled amplifiers and neXX00 Series processors were created with *Ashly Protea NE* Software. You must use v5.49 or later. The Voicing files use arbitrary FIR filters to implement the precise temporal (time domain) filters that are responsible for the remarkable benefits of TQ processing. For more information on TQ processing please see the *TQ Explained* and *Implementing TQ Processing* white papers on the Fulcrum Acoustic website. The FIR filters in the Voicing files require the DSP to be set to a 48 kHz sample rate.

Using the Voicing files:

- 1) Unzip the contents of the “Ashly 48k Voicings 17Sep24.zip” file to a convenient folder on your hard drive.
- 2) Go online with the amplifier or processor, double-click its icon on the Canvas, and click the DSP Controls tab to open the DSP Control Screen.
- 3) Click the numbered button to the right of an output DSP channel, then select *Acoustic Voicing | Load from file*. See *Figure 1* below. The output 1 button is circled in red in this example.
- 4) Select the appropriate Voicing file in Windows Explorer and click *Open*. DSP for that loudspeaker will populate the first several output blocks. See *Figure 2* below.

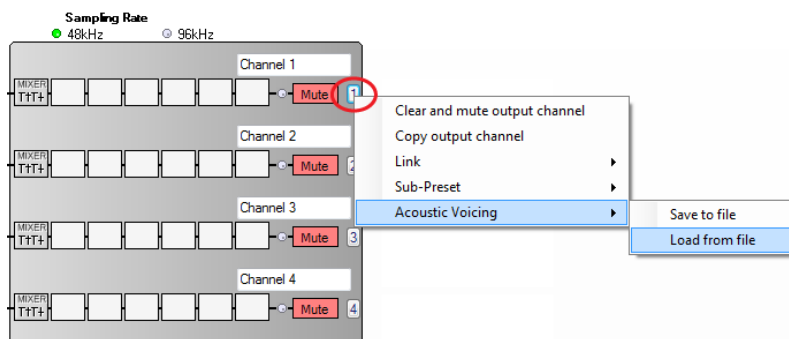


Figure 1

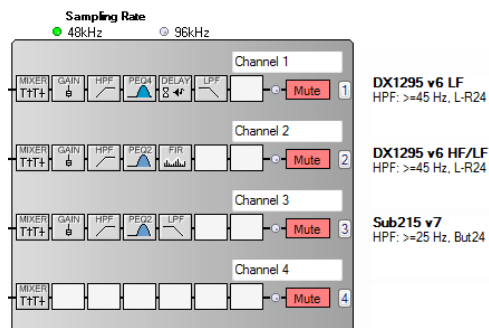


Figure 2

Notes:

- DSP for bi-amplified loudspeakers will populate adjacent output channels. For example, in *Figure 1* the DX1295 LF channel was loaded in output 1 and the HF/LF (coax) channel was loaded in output 2.
- If you load bi-amplified loudspeaker DSP in the last output channel you will receive an error message informing you that you will lose one channel of processing.
- Output gains for bi-amplified loudspeakers assume all amplifier channels have the same voltage gain. If this is not possible, the DSP output gains should be adjusted to accommodate the difference. For example, if the LF amplifier's voltage gain is 34 dB and the HF amplifier's voltage gain is 32 dB you should trim 2 dB from the LF gain.
- A loudspeaker's minimum recommended high pass frequency is provided in the notes section to the right of an output.
- Be sure to adjust *both* the LF and HF/LF high pass filters of a bi-amplified loudspeaker if you are crossing over into a subwoofer. Both transducers operate over the loudspeaker's full bandwidth.
- Please review the *Protea NE Software's* help file to learn about additional processor functions.

Changes since 16Feb23 release:

Added RX4, RX5, RX6, and RX8 Voicings.

Changes since 17May21 release:

Added CCX8 Series, CCX15 Series, AHC2 Series, AHC4 Series, DF4 Series, FHI595, FL283 Flat4, and RM28fp Voicings. Updated RM25 Voicing.

Changes since 14Aug20 release:

- Added CS212L and CS218L Voicings.

Changes since 06Feb20 release:

Added AH443 Voicing.

Changes since 24Apr18 release:

- Added AH66, FHI566, FA22, FA22-SM, FA22-60, FA22-60-SM, RM28, RMS22, and Sub215L Voicings. Updated FA28, FA28-SM, RM22 and RM25 Voicings.

Please send any questions to info@fulcrum-acoustic.com, or give us a call at +1 866 234 0678 ext 1.