

# **Voicing Manual**

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## **VOICINGS INTRODUCTION**

Voicing are digital filters which will change the tonality of the sound.

The Lyngdorf Audio products do not have a tonality of their own – what comes in is what comes out. This is due to their digital amplifier design, which contrary to analog designs does not interfere with the signal processed.

You can select one of the existing Voicings, edit a Voicing, or create your own Voicing.

The overall Voicing applies to all inputs/sources. On Lyngdorf products with configurable inputs/sources, you can even dedicate a Voicing to a source, for example lifting the sound of your old tape deck on the Analog Input, adding some substance to the sound from the TV on the HDMI Input, or raising the lower bass on the Bluetooth input.



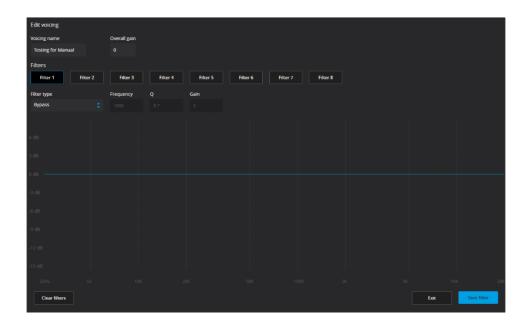
# EDIT OR CREATE A VOICING

MODEL TDAI-3400 - Home Headphones Setup			LYNGDORF
Input setup	Voicing setup		
Output setup	Edit or delete voicing		
RoomPerfect <sup>™</sup> setup			
Voicing setup	Open Air		
Audio setup			
HDMI setup	Edit	Delete	
Streaming setup			
General setup	Add new voicing		
Network setup	Name of new voicing		
Manage software			
	Add		

The Voicing Setup menu is a simple interface under SETUP – Voicing setup:

Initially you have the option to Edit or Delete one of the existing Voicings. A good starting point is choosing a Voicing you already like and customize it further.

New Voicings are created by entering a name for your Voicing first, then the Add button will be active. Pressing the Add button will open the Edit Voicing interface where you can adjust your own desired tonality by creating one Filter, or combining several Filters.





Pressing the Bypass entry of Filter Type will reveal the alternatives to a flat line: Bypass

- Low Pass
- High Pass
- Low shelf
- Parametric
- High shelf

Edit voicing							
Voicing name	Overall gain						
Testing for Manual	0						
Filters							
Filter 1 Filter 2	Filter 3	Filter 4	Filter 5	Filter 6	Filter 7	Filter 8	
Filter type	Frequency	Q	Gain				
Bypass 🗘							
Bypass							
Low pass							
e High pass							
E Low shelf							
Parametric							
C High shelf							
-3 dB							

Note: Q is an engineering term related to the Quality or strength of a given filter.

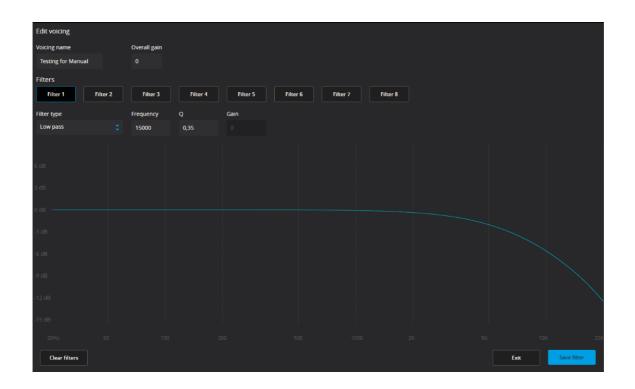
Note: Gain is an engineering term describing the extend or volume level. It can be a positive or negative number.

Note: Frequency, Q and Gain can be entered directly – you do not need to scroll up or down to your desired value.



### Low Pass Filter

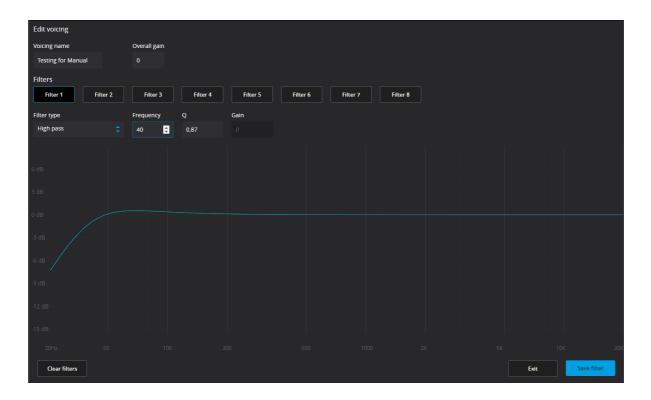
This is working like a speaker crossover type, which attenuates the level of audio in the higher frequencies – with a tilt around the selected Frequency and with the strength of the cut expressed with the Q entry.





# **High Pass Filter**

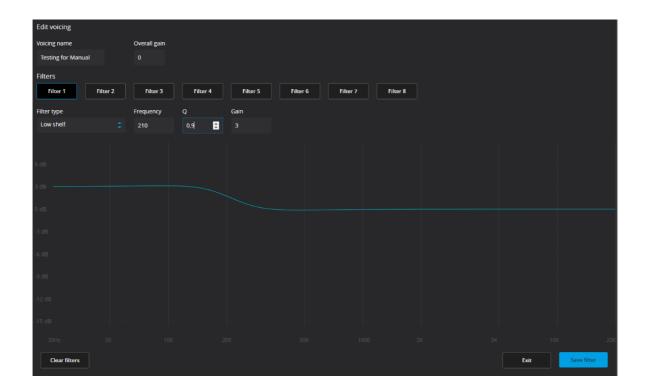
This is the reverse to a Low Pass filter, where the frequencies below a given centre frequency are attenuated.





### Low Shelf Filter

The Low Shelf filter type will allow you to create shelves on the filter curve around a given frequency – with Q determining how steep the transition is and a Gain determining the size of the shelf. The Gain can be both a positive and negative figure for creating an increase or an attenuation.





## **Parametric Filter**

This filter is equivalent to the old analog equalizers, where you would have a slider to adjust a specific band of frequencies in volume.

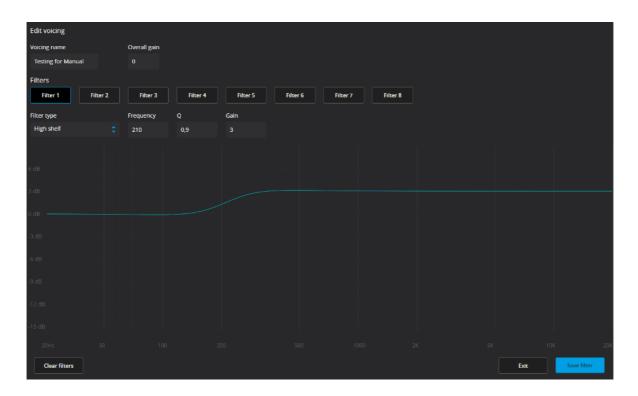
You can use this filter remove distortion at a specific frequency or adjust an imperfection in the speaker design by effectively adjusting the affected frequencies directly.





## **High Shelf**

The High Shelf filter type will allow you to create shelves on the filter curve around a given frequency – with Q determining how steep the transition is and a Gain determining the size of the shelf. The Gain can be both a positive and negative figure for creating an increase or an attenuation.





## **Overall Gain**

You can adjust the Overall gain for each Voicing in order to be able to switch between Voicings without experiencing any change in the perceived volume level of each voicing.





# **OPTIONAL PRE-EQUALIZATION**

In the TDAI-3400 and TDAI-1120 there is an additional Pre-Equalization option. You find this in SETUP - Output Setup menu, where alternatively to the pre-eq's perfecting the performance of Lyngdorf speakers and subwoofer, you can create your own Custom eq.



By adding a pre-equalization filter, you are effectively correcting the tonality of your speakers – and the result is what RoomPerfect<sup>™</sup> will use for its subsequent calibration.

This feature is extremely useful if you are constructing your own speakers, as this preequalization is much harder to design and test in an analog cross-over – and without the loss of energy in the crossover, the speaker will be more effective.

The Voicing adjustments will be on top of this pre-eq.



## **MANAGE VOICINGS**

#### **Exporting and Importing Voicings**

It is possible to download single voicings to a file and to add new voicings by uploading those files as well. This will make it possible to copy a voicing from one device to another. The file format is identical for all enabled Lyngdorf products, so if you have a voicing you like on your amplifier, it is possible to add that to your Lyngdorf multichannel processor or vice versa.

Note Single voicing files have the extension: single\_voicing.xml and this may not be changed

You can also download and upload an entire set of voicings. Again, these files will work throughout the devices which support this feature.

Note: Uploading a set of voicings with this feature will replace all voicings in the amplifier. Files with an entire set of voicings have the extension .**voicings.xml** and this must not be changed

#### Edit or delete voicing

This dropdown list contains the voicings currently in the amplifier. Selecting a voicing in the list will allow you to delete or edit the selected voicing (this will open the voicing editor)

#### Add new voicing

To create a new voicing using the voicing editor, enter the name of your new voicing and press add.

To add a voicing from a *.single\_voicing.xml* file, browse for the file and then press add.

MODEL TDAI-3400 - HOME HEADPHONES SETUP	LYNGDORF
Input setup Output setup	Voicing setup
RoomPerfect <sup>™</sup> setup	Edit or delete voicing
Voicing setup	Available voicings
	Music
Audio setup	Edit
HDMI setup	Delete
Streaming setup	Download selected voicing (Music)
General setup	
Network setup	Add new voicing Name of new voicing
Manage software >	
	Add
	Or
	Add a single voicing from file
	Browse Nothing Selected
	Replace all voicings from file
	Browse Nothing Selected
	Download all voicings to file

#### Replace all voicings from file

This is the functionality to replace all voicings in the amplifier with a new set from a *.voicings.xml* file. Remember that this will overwrite all voicings currently in the amplifier. Click browse to find the *.voicings.xml* file you wish to upload and then press Apply to use it.

On the bottom of the page is a link to download the current set of voicings in the amplifier to a *.voicings.xml* file.