

MESA

DESKTOP AUDIO INTERFACE
SD CARD RECORDER
AD/DA CONVERTER

EQ QUICK START



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1 Introduction

This document gives a quick overview of the new Lynx Mesa Output EQ feature available with Firmware 1.8.

1.1 Overview

The main new feature of Firmware 1.8 is the additional of the EQ page on the Mesa itself, and the EQ button on Mesa-Remote. The EQ feature includes:

8-Channels of equalization on the outputs:

- Monitor Out
- Phones Out
- S/PDIF Coax Out
- S/PDIF Optical Out

The EQ for the outputs can be treated as mono or stereo pairs, depending on the output channel selected.

Each output has 16 filters that can be applied. Each filter shape can be set to one of six values:

- Off
- LPF (Low-pass filter)
- HPF (High-pass filter)
- LShelf (Low-shelf)
- HShelf (High-shelf)
- Peak

This gives a total of 128 filters at 44.1; 48; 88.2 and 96kHz. At 176.4 and 192kHz only the Monitor Out and Phones Out EQ may be active.

1.2 Features

The EQ can be accessed via the Outputs page by selecting a specific output then pressing the EQ button.

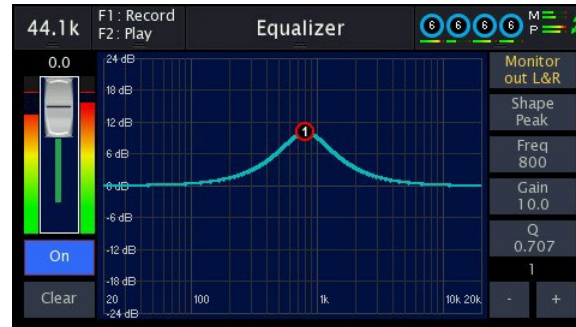


When the EQ button is pressed, the Equalizer page will be displayed.

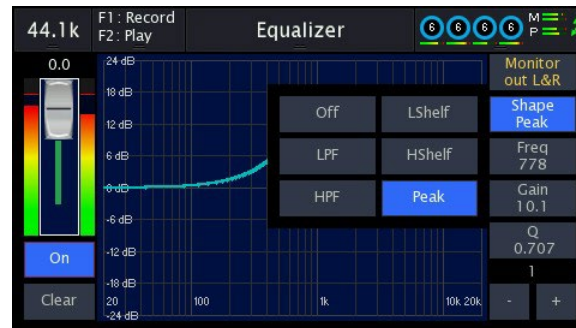


There are multiple ways to create a new EQ curve:

- 1) Press the Log Graph display at the frequency and gain setting you wish to select. While holding your finger down, you may drag the “Filter Handle” and immediately hear the results of that filter. When creating a new filter with this method, the shape is “Peak” default Q value is “0.707”, which is the industry standard for peak filters. Double-clicking an already created filter handle will remove that filter.

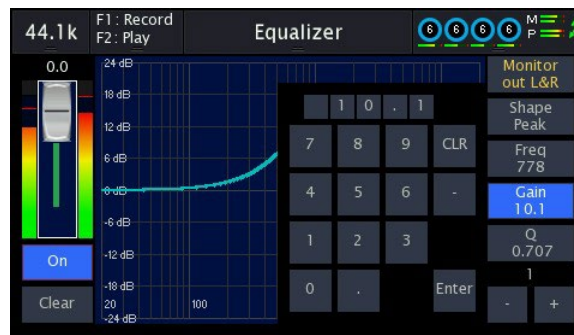


- 2) Manually enter the values for each filter by selecting each parameter (starting with the “Shape”) by clicking on each item on the right-side of the screen in order.



When selecting Frequency; Gain or Q, once the button is selected (shown in blue), the rotary encoder can be used to change the value. For Frequency and Gain, when the button is selected, the touching the log graph display on top of the filter handle will allow changing of only the selected value, keeping all other values static. Pressing the rotary encoder will set the frequency to the lowest 100Hz value, the gain to 0.0 and Q to 1.000.

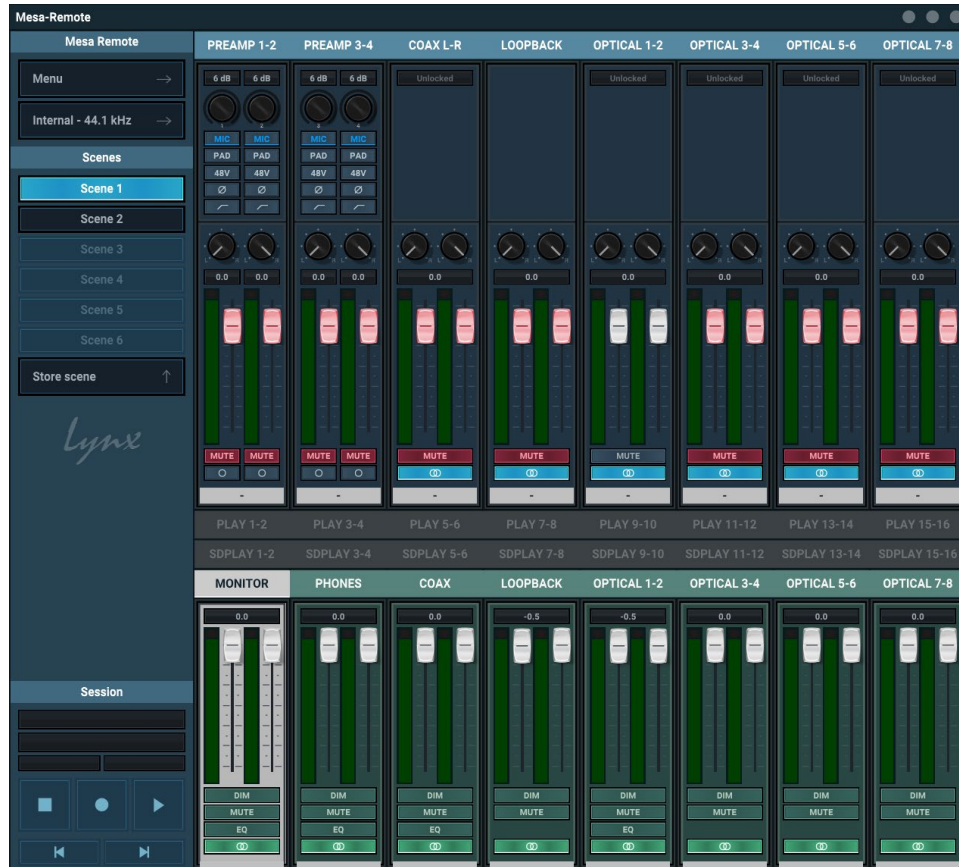
Double-clicking on the value button will bring up a 10-key pad which allows direct numeric entry of the value.



Pressing the Enter button closes the 10-key pad.

3) From Mesa-Remote (See Section 2).

2 Mesa Remote



The new version of Mesa-Remote includes the EQ button for MONITOR; PHONES; COAX and OPTICAL 1-2 (this is for the S/PDIF Optical output only, not ADAT 1-2).

When the EQ button is pressed for a specific output, the EQ page for that output will appear.



Just like changing the EQ settings on the front panel of the Mesa, this page allows real-time EQ changes live, while listening to the resulting changes.

The buttons across the top of the page are:

Load SoundID Preset

This button will allow loading of previously created preset files from SoundID. This is compatible with SoundID version 5.13.8.20 or higher using the Mesa exporter. If more than two channels exist in the SoundID file, only the Left and Right channels will be loaded by Mesa-Remote. SoundID Headphone exports are locked and cannot be edited with Mesa-Remote or the Mesa itself. The only way to unlock the locked status is to press the “Clear” button.

Load REW Preset

This button will allow loading of previously created preset files from REW. If more than two channels exist, only the Left and Right channels will be loaded by Mesa-Remote.

Load AutoEQ.app Preset

This button will allow loading of previously downloaded preset files from the AutoEQ.app website. This website has EQ preset files for many headphones. We recommend selecting the “EasyEffects” or “Peace” settings when downloading the headphone preset file. The preset file normally contains mono EQ values, so these values are automatically copied to both channels by Mesa-Remote.

Left

Pressing this button shows just the Left channel’s EQ graph and values.

Right

Pressing this button shows just the Right channel’s EQ graph and values.

Both

Pressing this button will copy the currently selected channel’s EQ values to the other channel.

Clear

The Clear button clears the selected channel(s) EQ filter values. The values are automatically copied to the clipboard before clearing so the clear can be undone by pressing the “Paste” button.

Copy

The Copy button will copy the selected channel(s) EQ filter values to the clipboard, so they can be copied to another channel.

Paste

The Paste button will paste the previously copied EQ filter values from the clipboard back to the current selected channel(s).

On

The On button turns EQ on or off for the channel pair.

Log Graph Display

Clicking the mouse in the log graph display will create a new filter “handle” at the frequency and gain position clicked. The Shape will be set to “Peak” and the Q will be set to “0.707”.

Double-clicking the filter handle will set that filter’s shape to “Off”, effectively deleting that filter.

Clicking and dragging an existing filter handle will change the frequency and gain for that filter.

2.1 Mesa-Remote Scenes

EQ Filter values are included in the Mesa scenes, including the Quick-Save scenes. Scene files saved on Mesa-Remote can be loaded directly by the Mesa from the microSD card /Scenes folder.