

J C F A U D I O

FDA3eq

FDA3 BLURB



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FDAeq

Overview

The framework of the DCM and recall is discussed in detail in the [DCM Manual](#).

This document covers the specifics of the FDA3 equalizer.

The FDA3 is a 3 band parametric equalizer for pro audio usage. The input stage is differential and cannot be reduced to an unbuffered input as a function of topology. There are no on-board filters.

The output stage is actively driven with an FDA (hence the name) with a maximum output of +28dBu. There are jumpers to address disconnection of the cold leg for feeding unbalanced loads and older style insert points. Adjoining this are jumpers at the input which both change the input coupling style and are available to raise the internal operating level to match the output configuration if needed.

The equalizer is a symmetrical parallel design with the amount of boost or cut adding to or subtracting from the single FDA element which allows for simplicity and high resolution not often found in this topology.

The left-most column of buttons control the Low Frequency (LF) and the amount thereof (LFL). The middle column of button control the Mid Frequency (MF) and amount thereof (MFL). I'll bet you can guess what the next column does in this eq as well. The final column consists of the bell (Bl) and utility buttons. When either the Frequency or level controls are select in a given column the bell button and indication are focused on that band only.

The frequency coverage for the Low band is 13Hz to 700Hz

The frequency coverage for the Mid band is 130Hz to 7KHz.

The frequency coverage for the High band is 420Hz to 23kHz.

The Q coverage for the all bands is 0.8 to 4.

An overview page is accessible by depressing the encoder button during normal operation that displays color-coded boost and cut at all three bands. Q information is not displayed here. Bell or shelving status is.

The bell (Bl) switch changes the low and high frequency bands into bells from shelving. The middle band is always a bell. The level controls traverse -12 to +12 in a fluted sweep of 127 steps in both directions with a large indicated "C" for center.

All bands in bell mode will have a Q control page behind the frequency page that is accessible by pressing the frequency button a second time.

Under the utility page one alternate display option is provided for. "Qdb" will display Q information on the Q pages as decibels per octave instead of dimensionless Q. The "Res2" setting on the utility page is reserved and has no function.

Pressing the bell button whilst on the utility page will zero the eq out despite there being no written indication of this easter egg as the same with the 651.

Pressing the level button of a band that is already selected and in level mode also displays the overview screen. Like all DCM's the pulse is unique to the FDAeq so can only be copied or recalled into other FDAeq's and ignores it's own pulse while it's being generated.

651 Edge Connections

- Pin 1: Chassis**
- Pin 2: Output +**
- Pin 3: n/c**
- Pin 4: Output -**
- Pin 5: Circuit Common**
- Pin 6: control link / group pulse trigger**
- Pin 7: n/c**
- Pin 8: Input -**
- Pin 9: n/c**
- Pin 10: Input +**
- Pin 11: n/c**
- Pin 12: +16v**
- Pin 13: Circuit Common**
- Pin 14: -16v**
- Pin 15: n/c**

Adheres to the 500-series framework

There are on-board extensions to the above framework but none of them are enabled for pro use.

Specifications

Shipping weight

3 lbs. 11"X 11"X 3"

See DCM manual for warranty and safety information.