



Fredenstein
Professional Audio

F607
Monitor Controller

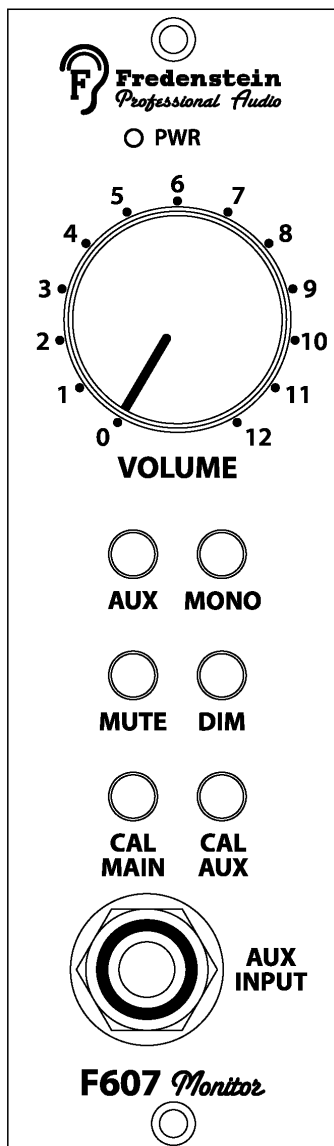
Operating Manual

Fredenstein F607 Monitor Controller

The F607 is a high performance professional monitor controller, offering an effective monitor volume control for project and home studios out of a Fredenstein Bento rack. The F607 features a second unbalanced stereo input as well as mute, dim, mono and balance control functions. If used in a Bento D rack with, all parameters can be monitored on the LCD display.

As all Fredenstein products, the F607 is designed by a German-American team and manufactured in Taiwan.

Overview:



Rotary Controls:

Volume : Volume control

Switches:

AUX : Selects unbalanced AUX Input
MONO : Mono Mode
MUTE : Speakers muting (speakers off)
DIM : Sets reduced Volume (programmable)
CAL Main : Calibration modes for MAIN (balanced) input
CAL AUX : Calibration modes for AUX (unbalanced) input

Connector:

AUX INPUT : Unbalanced Stereo AUX input (TRS)

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Installation:

Please power down your rack or box first before inserting the F607. The power requirements are +/-16V, +/-100mA. Please connect the left channel of your speaker amp or your left active monitor to the MAIN out XLR and the right channel to the AUX out XLR located on the backpanel of your Fredenstein Bento rack. **Please be aware, the F607 will not work in any third party enclosures.** In case you are using a Fredenstein Bento D rack, you can calibrate the system, please apply your reference level to the F607 and set the volume to 78 dBA on the Bento D display. Then adjust the sensitivity of your speaker amp(s) or active monitors to a sound pressure level of 78 dBA at your listening position with the help of a sound pressure meter.

Volume:

Volume control 20 dBA to 115 dbA (when calibrated)

AUX:

Selects the AUX TRS unbalanced Stereo input located on the front panel, if not activated the MAIN XLR balanced inputs of the Fredenstein Bento rack are selected, the left channels is the XLR Main input, the right channel the XLR AUX input on the rear panel of the Bento rack.

Mono:

Mono mode, the signals for left and right channels are added and fed two both speakers.

Mute:

Mute control, if activated, no signal is delivered to the speakers.

DIM:

The DIM control selects a lower volume, default is -20dB, but the user can set the DIM depth to any value between -40 dB and 0 dB

CAL MAIN:

Calibration on main input balance, if both CAL MAIN and DIM active, calibration of DIM DEPTH, in both cases the parameters are altered by using the volume control.

If the CAL MAIN button is pressed for about 3 seconds the function turns off and all calibration parameters are set to the default values.

CAL AUX:

Calibration on AUX input balance, if both CAL AUX and DIM active, calibration of AUX volume to ensure the same volume of MAIN inputs and AUX inputs. The gain range is – 20dB to + 20 dB in both cases the parameters are altered by using the volume control.

If the AUX MAIN button is pressed for about 3 seconds the function turns off and all AUX parameters, AUX BALANCE and AUX TRIM, are set to the default values.

All parameters are internally stored in a non-volatile memory and are automatically recalled at power-up. The F607 is powered by a 32bit ARM CPU.

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Technical Data:

Frequency Response :	10 Hz – 30,000 Hz, +/- 0.5dB
Distortion :	< 0.01%
SNR :	> 100 dB
Input Impedance :	> 40 KOhm
Max. Input Level :	+ 24dBu
Output Impedance :	200 Ohms (recommended load > 1.2KOhm)
Max. Output Level :	+ 24 dBu

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