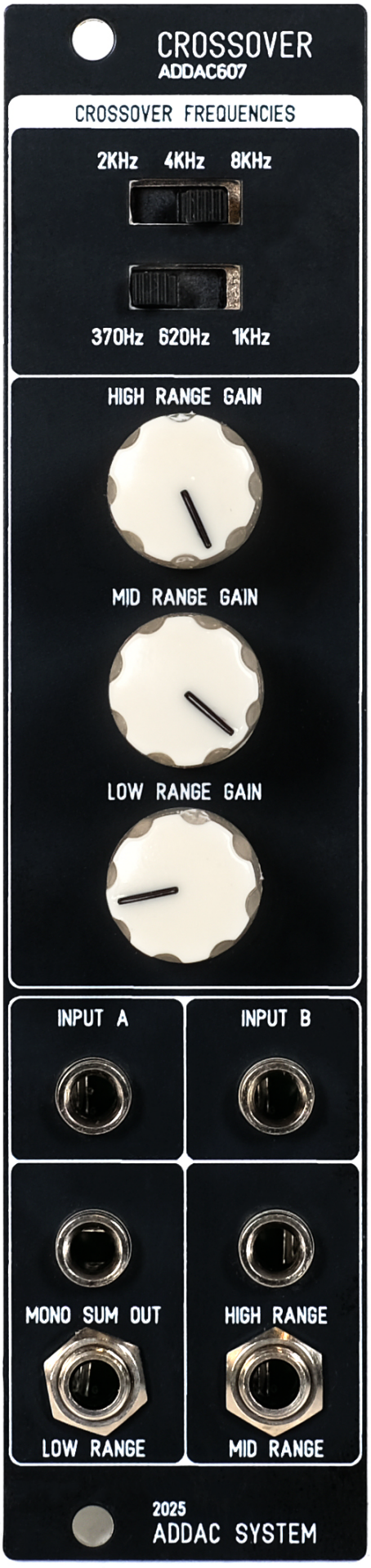


ADDAC System

Instruments for Sonic Expression

Est.2009

INTRODUCING

ADDAC607 CROSSOVER

USER'S GUIDE . REV01

March.2025

ADDAC System

From Portugal with Love!

Welcome to:
ADDAC607 CROSSOVER USER'S GUIDE

Revision.01 March.2025

Tech Specs:
6HP
4.5cm deep
60mA +12V
60mA -12V

WELCOME

Commonly audio Crossovers split an audio signal into several frequency ranges so that each resulting signal is adequate for the speaker drivers they are connected to, usually low range is sent to the big woofers, mid range to smaller woofers and high range to the tweeters.

Here we introduce our ADDAC607,a mono 3 band Crossover featuring 4 pole, 24db Sallen-Key active filters and volume controls for each band.

Although ADDAC607 operates in Mono (for Stereo signals two modules can be used) there are 2 audio inputs that allow an easy way for Stereo to Mono summing. The [MONO SUM OUT] carries this summed signal. This output is pre-gain and can also be use as a buffered Thru output.

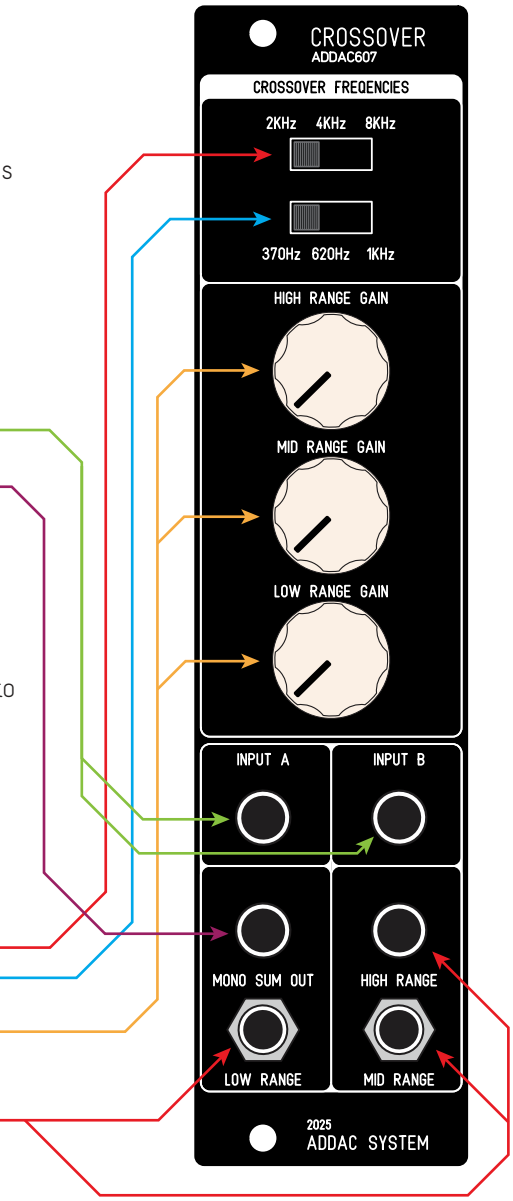
The possibility to split the signal into different bands makes possible several usefull processes, as examples:
- Independently process specific frequency ranges like adding delay only on the high range band
- Split a signal to feed 3 compressors for multiple band compression
- By controlling the [GAIN] knobs they can act as "kill" switches in DJ mixers to remove a whole band from the mix

This module is also a great companion for our ADDAC220 Dual Envelope Follower+ allowing to extract the dynamics from any signal in a focused frequency range allowing to, as an example, separate a kick drum from a snare.

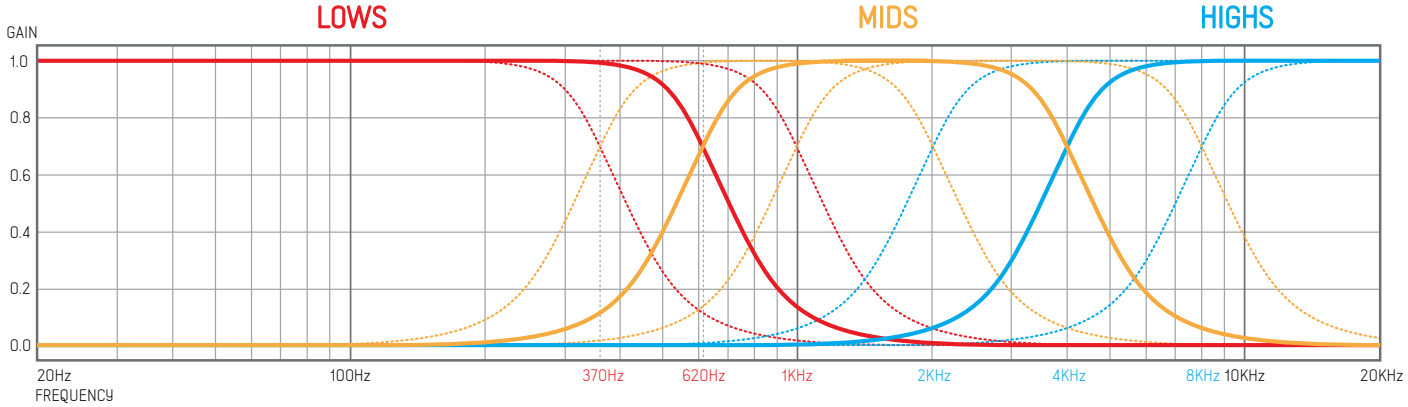
There are three switches to select the bands operating ranges:
2KHz, 4KHz and 8KHz for the high range
370Hz, 620Hz and 1KHz for the low range

The three [GAIN] controls set the volume for each band.
At noon they are unity gain, fully CW they are x2 amplifiers.

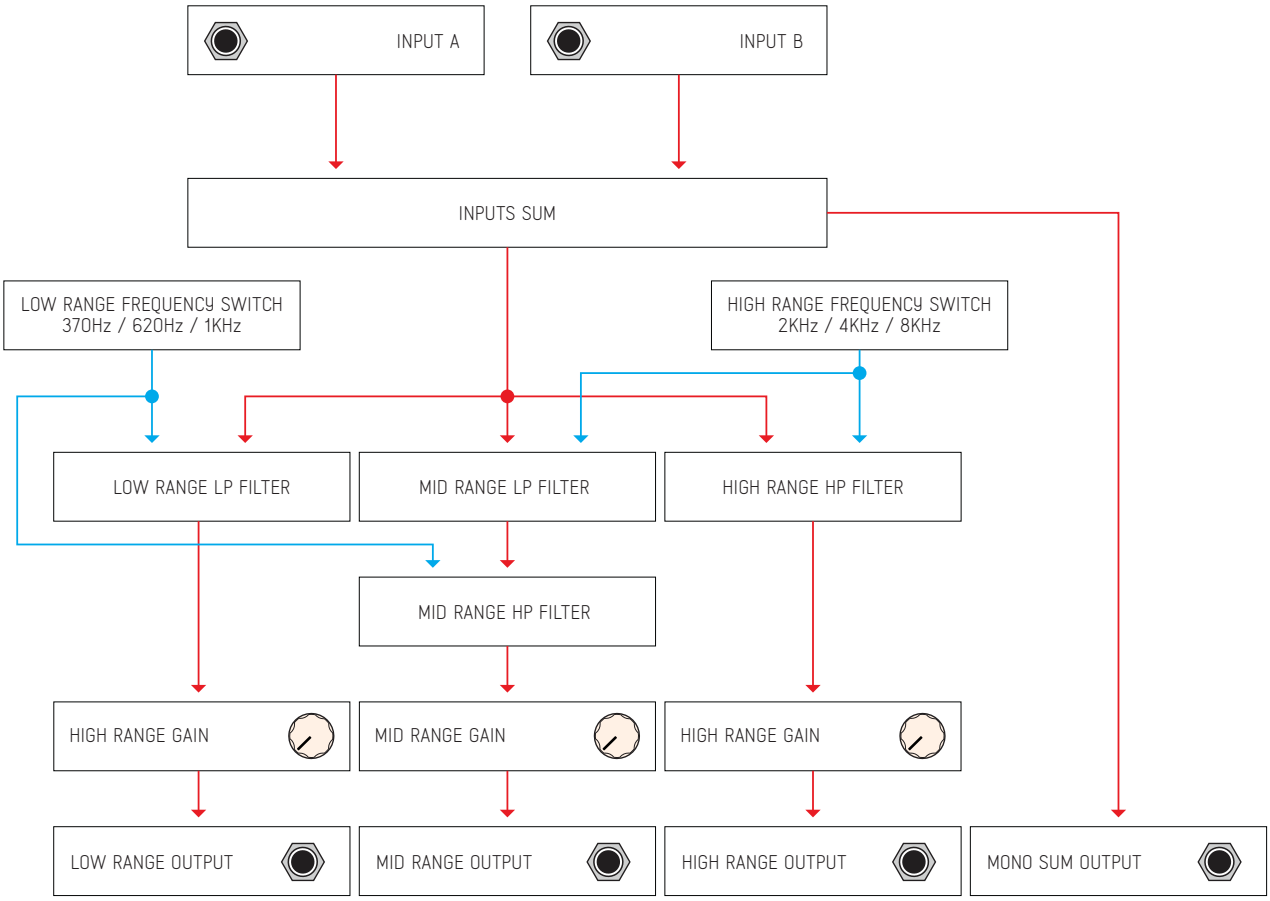
The three last jacks carries the bands outputs.



Here's a graphical plot of the crossover slopes



SIGNAL FLOW DIAGRAM



For feedback, comments or problems please contact us at:
addac@addacsystem.com

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