

General

The MFB-FilterBox is an analogue filter unit with an integrated stepsequencer with up to eight steps. It processes stereo as well as monaural signals.

Setup

Connect the included power supply into the POWER jack. AUDIO OUT is a TRS jack that connects to your amplifier or mixing console. AUDIO IN is the FilterBox' stereo input, once again on a TRS jack.

MIDI IN connects to the output of a MIDI sync source, e.g. a drum computer or a keyboard. Finally, switch on the MFB-FilterBox by pressing its ON/OFF button.

Function

Audio signal is routed into a resonant stereo lowpass-filter with 24 dB/oct slope. It's directly routing to the output from here. Here's a description of the controls in detail:

ON/OFF

Press this button to switch the MFB-FilterBox on or off.

MIDI

Press and hold MIDI while using the data encoder to set the MIDI channel.

Trigger

Press and hold TRIGGER and use the data encoder to switch between five different trigger modi:

- 1 Internal sync
- 2 Sync to play
- 3 MIDI clock sync 1/16th note
- 4 MIDI clock sync 1/8th note
- 5 MIDI clock sync 1/4th note
- 6 Bar sync by MIDI note on
- 7 Keyboard sequence control (C2,D2,...C3 = Cutoff 1..8)

Input

This control sets the gain of the audio input. Signal levels above 1 V_{ss} will introduce distortion that can be used as an overdrive effect.

Step

Press and hold STEP while using the data encoder to set the length of the sequence between 1-8 steps.

Step 1-Step 8

Use these controls to set different cutoff frequencies for each sequencer step. Whenever the sequencer stops, only control 1 is active. The controls address both sides of the stereo filter.

Play

Use PLAY to start and stop the sequence in trigger mode 1. In trigger mod 2 PLAY will trigger the individual steps.

Tempo

The TEMPO control adjusts the sequence tempo in trigger mode 1.

Glide

By turning GLIDE clockwise the stepping of the filter sequence turn into a continuous glide between the values.

Emphasis

EMPHASIS controls the resonance/feedback of the filter, a peak at the cutoff frequency. It works up to self-oscillation.

Space

Use SPACE to set a difference in cutoff frequency for the left and right stereo channel.

Threshold

This control sets the trigger threshold for the audio input. The trigger itself will start the Attack/Decay envelope.

Contour

CONTOUR sets the modulation amount of the Attack/Decay envelope to the stereo filter with full modulation at the center position. Turn counter clockwise from here to decrease cutoff frequency, turn clockwise to raise the cutoff frequency.

Attack

ATTACK controls the time the filter envelope takes to reach its full modulation amount.

Decay

DECAY controls the time the filter envelope takes to travel from full modulation to zero modulation amount.

Midi In

While in trigger mode 3, 4 and 5 the sequencer is controlled by Midi Start/Stop and MIDI clock.

In trigger mode 6 it is controlled with Start/Stop and any MIDI Note On command.

Trigger mode 7 allows to access the individual cutoff step controls with note numbers C2, D2, E2, F2, G2, A2, H2 and C3.



Operating manual

MFB-FilterBox