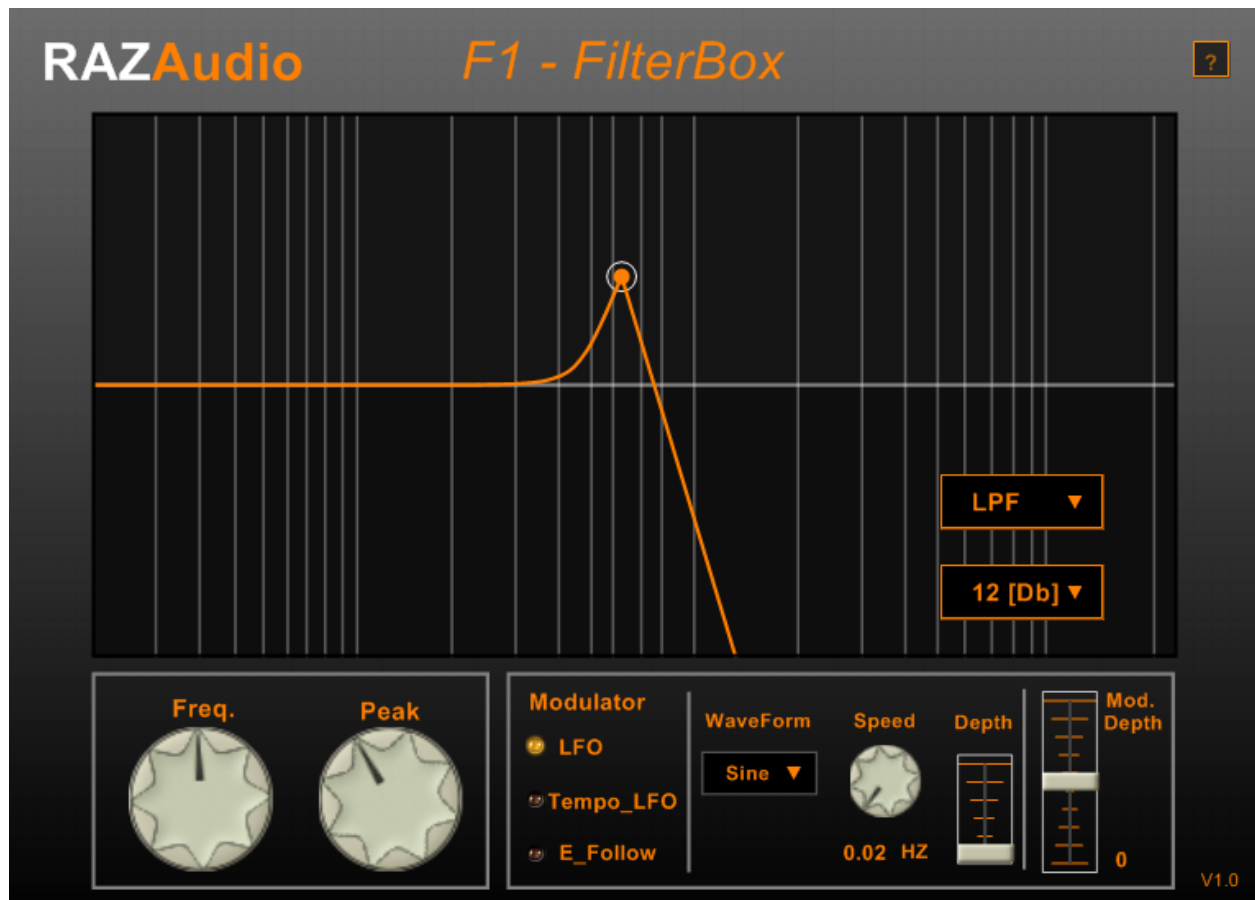


# ***F1 FilterBox***

## ***Users Manual***



## **F1 FilterBox:**

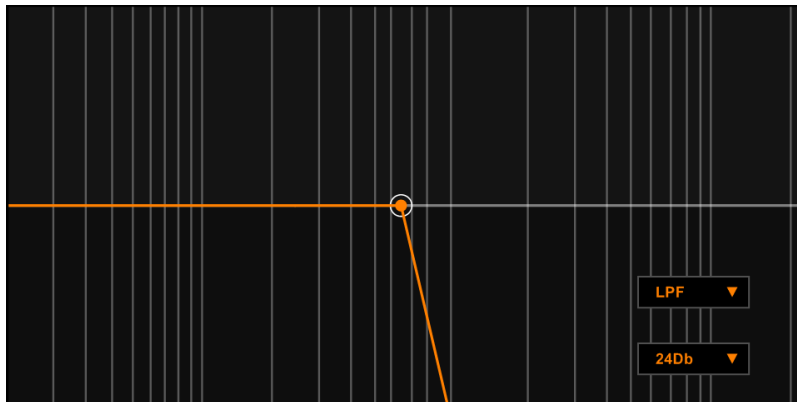
The F1 FilterBox is an intuitive multi-mode filter. It offers an intuitive GUI, different filter and slope types as well as various modulation possibilities. It is an easy tool for precision sculpturing of the audio source.

Throw it on drum loops, fat synth pads, sampled content, vocals, bass guitar track or actually any content for interesting musical results. It is a high versatility fun tool...

It also offers MIDI control, DAW automation and knob type as well as 'XY pad' controls.

## **Controls and Knobs:**

### **1. The XY pad:**



The XY pad is the major part of the GUI. Simply catch the set-point (round orange colored circle) with the mouse and drag it around.

Left-Right motion will change the frequency (10-21000 Hz, auto sample rate correction) and Up-Down motion will change the peak settings of the filter.

On lower right side of the XY pad you will find two drop down menus:

- a. **Filter shape:** Low Pass Filter, High Pass Filter and Band-pass filter.
- b. **Slope:** 12 or 24 Db per Octave

Just choose the option which best fits your needs.

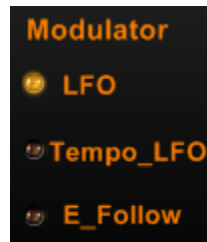
## 2. Frequency and Peak round knobs:



To achieve high precision setting of either peak or frequency setting, or for convenience reasons, the F1 can be controlled by the two round knobs as well.

## 3. Modulation mode:

F1 offers three frequency modulators: **LFO**, **Tempo\_LFO** and **Envelope\_Follower**



Simply press on one of the orange colored LED's to choose any of the modulation modes.

All three modulators can run in parallel, but only one can be shown on the screen, at a time.

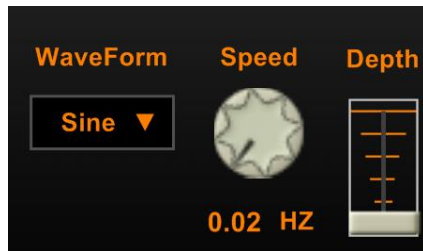
## 4. Modulation depth and polarity:



The modulation depth is a bi-polar slider which sets the total amount of modulation. Bottom most setting is 'negative' modulation, dead-mid setting is 'zero' modulation while upper most setting is 'maximal modulation'.

A value readout display shows you the numeric setting, for your reference and ease [-100:0:100].

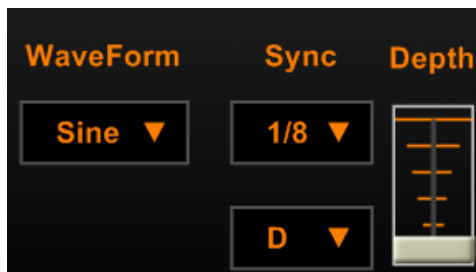
## 5. LFO



Time based Low Frequency Oscillator, with these controls:

- **WaveForm:** Sine, Saw, Triangle, Square
- **Speed:** <1-1000 ms
- **Depth:** sets the modulation depth of the **LFO** only (not other modulators).

## 6. Tempo\_LFO



Tempo based Low Frequency Oscillator, with these controls:

- **WaveForm:** Sine, Saw, Triangle, Square
- **Sync:** 1/32, 1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8, 16, 32 tempo division
- **NDT:** Natural, Dotted or Triplet tempo division
- **Depth:** sets the modulation depth of the **Tempo\_LFO** only (not other modulators).

## 7. Envelope Follower



Envelope Follower which follows the amplitude of the incoming signal, with these controls:

- **Attack:** response time of signal rise
- **Release:** response time of signal fall
- **Depth:** sets the modulation depth of the **E\_Follower** only (not other modulators).

**MIDI/CC control table:**

Control	MIDI value
Frequency knob	1
Peak knob	2
Filter shape	3
Filter slope	4
Modulation Depth	5
LFO Shape	6
LFO knob	7
LFO mod. depth	8
TLFO shape	9
TLFO tempo	10
TLFO N,D,T	11
TLFO mod. depth	12
EF attack	13
EF release	14
EF mod depth	15

*We wish you a happy and fruitful music production session!*

As with all 'RazAudio' technologies, you are welcomed to contact us with any suggestion, bug report, idea or other related topic:

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