

# BENIDUB

## FILTRO

24db/Octave - 4 Pole Filter



## User manual

Designed and manufactured by

**BENIDUB**  
MUSIC EQUIPMENT

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### Technical Specifications:

Power Supply: 12VDC, center positive, 2.1mm x5.5mm barrel type connector.

Current draw: less than 1A

Audio IN: 1/4" bal. or unbal. MONO Jack

Audio OUT: 1/4" bal. or unbal. MONO Jack

Size: 120x150x60 mm

Made in Spain



**Benidub Filtro** is a 24db/octave, 4 pole analog mono filter. Its performance-oriented design offers a very dynamic use of its features both in a studio or in a live environment.

### BENIDUB FILTRO

As in the Benidub design tradition, Filtro is a playable FX that allows a very "musical" use of the unit.

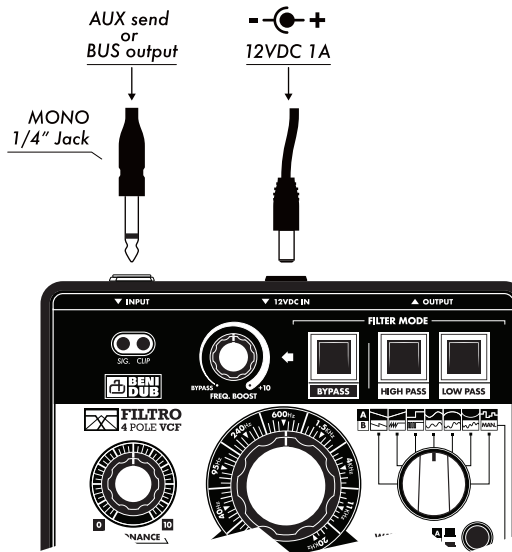
Tap tempo, switchable filter mode and a wide range of modulation waveforms allow for a large variety of possible filter effects.

Filtro is designed for producers, musicians, DJs and dub selectors.

It can be used as a kill switch, to equalise tracks or to obtain dynamic filter effects through its modulation.

The FREQUENCY BOOST mode can be used to equalise sounds, adding a layer of resonant band-pass filtered sound to the dry signal.

### FILTRO + PA Mixer Typical wiring



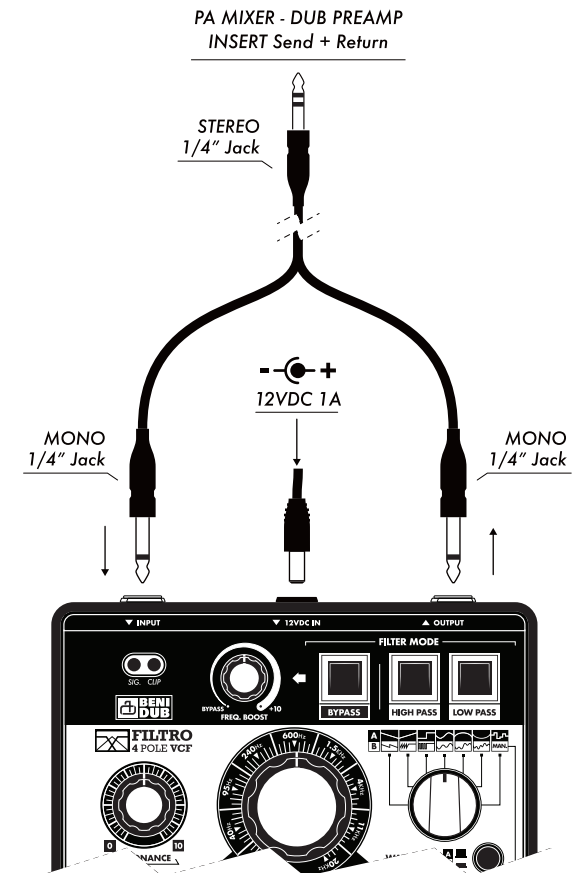
### For correct use of the Benidub Filtro:

- 1 - Connect the 1/4" mono jack output to a line input of a mixing desk or dub preamp.
- 2 - Connect the 1/4" mono jack input to any line level output source such as an aux send, mix bus, direct output or any other electronic music instrument/effect output.

3 - Use only the provided power supply or a compatible one (see specifications).

4 - For use as an INSERT, for example with a dub preamp, use a "Y" shaped 1x STEREO to 2xMONO 1/4" jack cable (see picture below).

### FILTRO Insert Typical wiring



**FREQUENCY BOOST:**  
Sets the amount of band-pass filtered output that is mixed with the dry signal when the filter mode is set to **BYPASS**.

**AUDIO INPUT:**  
1/4" balanced or unbalanced **MONO** Jack. Balanced connection improves sig./noise ratio.

**POWER INPUT:**  
12VDC 1A center positive 2.1mm x 5.5mm barrel connector.

**AUDIO OUTPUT:**  
1/4" balanced or unbalanced **MONO** Jack. Balanced connection improves sig./noise ratio.

**FILTER MODE:**  
**HIGH PASS**  
All the frequencies below the Cutoff point are filtered.  
**LOW PASS**  
All the frequencies above the Cutoff point are filtered.  
**BYPASS**  
When the **BYPASS** button is enabled and the **FREQUENCY BOOST** knob is set to bypass, the filter is disabled.  
When the filter mode is set to **BYPASS** the frequency boost knob can be used to boost a particular frequency alongside the dry signal.

**VU METER:**  
Indicates the output clip and signal level.

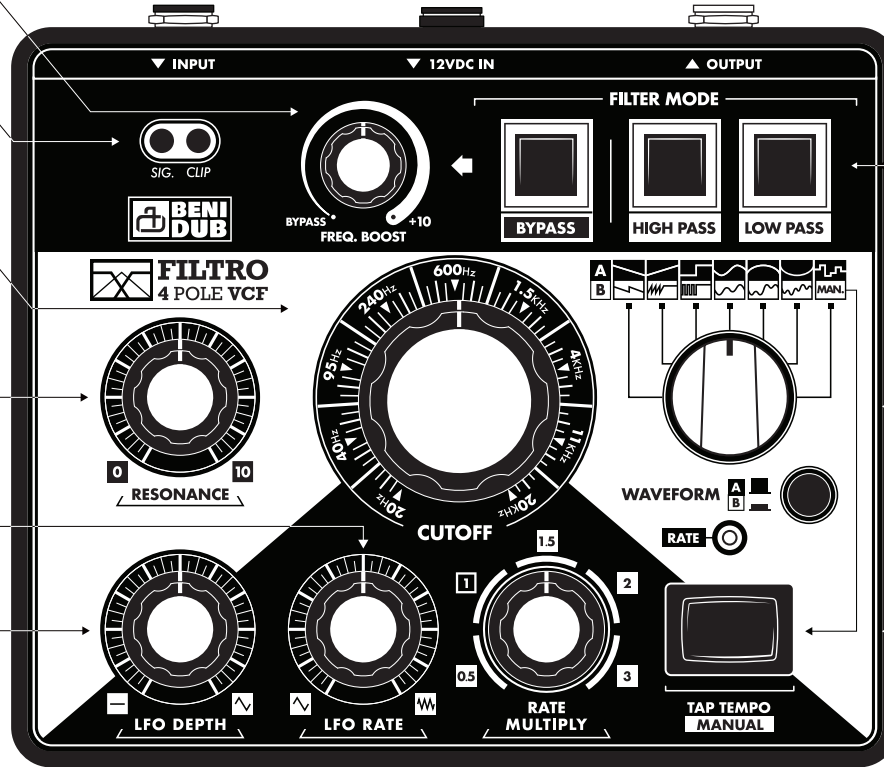
**FILTER CUTOFF:**  
Main control of the VCF frequency.

**FILTER RESONANCE:**  
Sets the resonance of the VCF.

**LFO RATE:**  
Controls the modulation speed.

**LFO DEPTH:**  
Sets the filter cutoff modulation amount.

**RATE MULTIPLY:**  
Multiplies the LFO rate by the selected amount.



**LFO WAVEFORM SELECT:**  
Sets the LFO waveform to one of fourteen waveforms. Use the button to switch between banks A and B.

**TAP TEMPO/MANUAL:**  
Sets the LFO rate to the tap tempo. If the LFO waveform is set to "MANUAL", the button triggers the cutoff frequency change.

