

OCTAVE

Filter 3-P

Owner's Manual

English

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1. SAFETY INSTRUCTIONS

1.1. Before you begin

1.1.1. Do not open the case

There are no serviceable components in the device that you can replace. The case may only be opened by qualified personnel.

1.1.2 Service and maintenance

Repairs and other modifications to OCTAVE equipment are reserved for professionals only. If service is required, send the device directly to OCTAVE or to an authorized service center

1.1.3 Placement

- The unit is designed strictly for use in a dry domestic environment. Do not use it in open air or in damp environments!
- Never place plants or liquid-filled containers on your unit. Take care that objects do not fall or liquids are not spilled into the enclosure.
- Condensation may form if the unit is taken from a cold environment into a warm one. In this case, wait until the unit has reached room temperature and is dry before switching it on.

1.2. Warranty

OCTAVE can only guarantee the safety, reliability and performance of this unit if modifications and repairs are carried out by specialized personnel and if the amplifier is operated in accordance with the instructions contained in this manual.

2. UNIT DESCRIPTION

Internet based services and hard disk storage media can be found in almost every modern hi-fi system today. In addition, signal connections to a network (Router) at the digital level are necessary. As a result, a modern system today has a large number of digital and analog signal connections, to which a large number of connections to the power grid are added. All these systems emit interferences that affect nearby audio components and thus the overall sound quality of the hi-fi system.

Often an attempt is made to protect the system from interferences using mains filters. However, this protection is very limited, as those filters work systemically only at very high frequency ranges and can in fact negatively affect the dynamics of a hifi-system. Disturbances in the important audio range are therefore unrestrictedly admitted to the audio system despite mains filters and are distributed uncontrollably via the signal path.

To eliminate the problem of propagation of conducted EMI, we developed the Filter 3-P, a filter system that acts directly in the path of the noise, namely in the analog signal connection. The Filter 3-P is a passive filter system and is preferably placed between DA converter and pre-amplifier or integrated amplifier. It is available for RCA as well as for balanced connections (XLR). Thanks to the innovative filter technology, RCA achieves the same high level of effect as XLR.

The core of the Filter 3-P is a highly specialized broadband transformer to protect the signal.

Especially DA converters benefit from this measure because mid and high frequency disturbances negatively influence the sound sensitive jitter behavior of these devices. Conversely, analog amplifiers benefit from the higher signal purity. Interferences of the music signal with residual interferences in the audio range is reduced

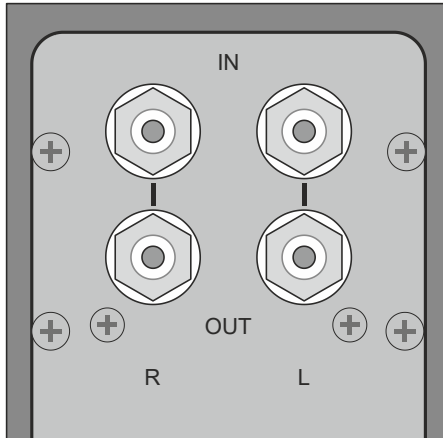
The sound gains clarity, making even the smallest background details perfectly audible.



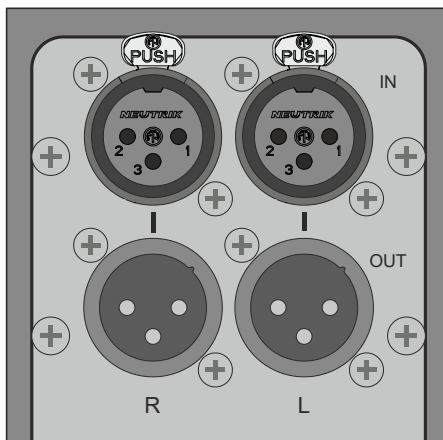
4. Connection

The Filter 3-P is connected to the high-level input of a pre- or integrated amplifier with the shortest possible cable (OUT). The other side (IN) is preferably connected to a DAC

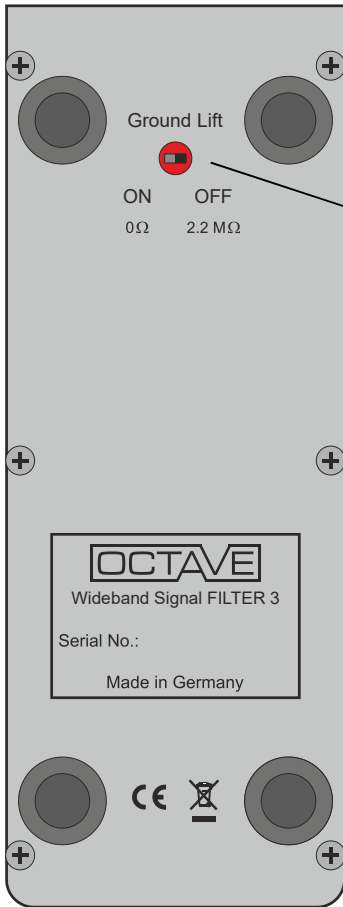
4.1. Connection Filter 3-P with RCA cable



4.2. Connection Filter 3-P with balanced (XLR) cable



4. GROUND CONNECTION



Ground lift position "ON":

The mass of input and output is connected (0 ohms)

Ground lift position "OFF":

The mass of input and output is separated (2.2 M ohms)

With the ground lift, the ground connection can be separated from the input and output. The separation of the ground is useful if several devices of the system have a power connection with the three-pin safety plug, and hum signals are heard through the multiple earthing. The separation of the input and output ground prevents these hum disturbances. For devices with a two-pin power plug, the ground lift should be set to ON.

Delivery state: Ground Lift ON

5. TECHNICAL DATA, DIAGRAM

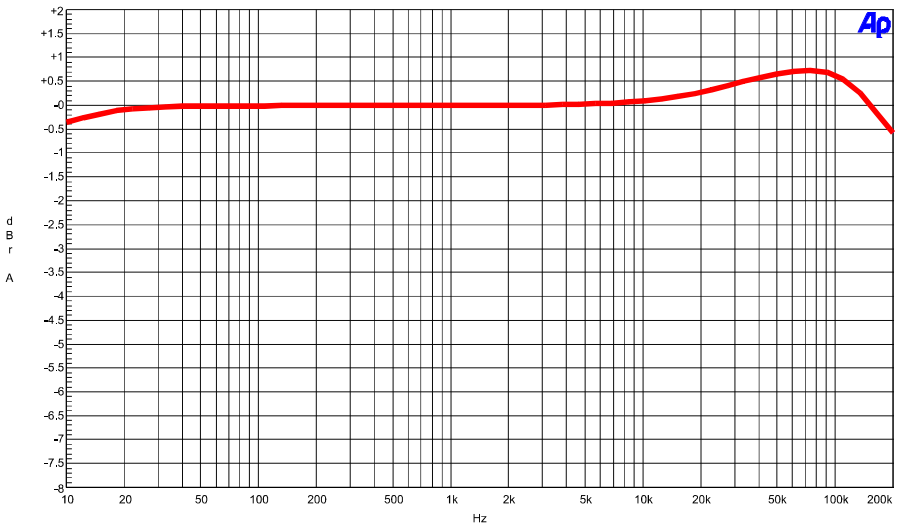
Technical data

Frequency response	10 Hz – 150 kHz / ± 1 dB
Noise suppression (CMRR):	> 80 dB / 10 kHz
Harmonic distortion (THD + N):	< 0,001 % / 1 kHz
Recommended output resistance DAC etc.:	< 600 ohms XLR; < 300 ohms RCA
Recommended input impedance preamplifier:	> 10 k ohms

General data

Dimensions	186 x 70 x 75 mm (W x H x D)
Weight	3,6 kg

Frequency response Filter 3-P XLR



The curve illustrates the wide and frequency response of the Filter 3-P XLR from 10 Hz up to 200 kHz with a flatness of ± 1 dB



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