

Instruction manual

MX-3 3-CHANNEL MIXING PREAMP

Flush-mounted / surface-mounted mono preamp, 2 x microphone / 1 x LINE with LF / HF-EQ, phantom.

ENGLISH

MX-3 – 3 CHANNEL MIXING PREAMP



Phoenix Professional Audio GmbH
Gewerbepark Markfeld 5
D-83043 Bad Aibling / Germany
Tel.: +49(0)8061-495603-0
Fax: +49(0)8061-495603-1
www.phoenix-pa.com
www.phoenix-pa.com/shop

© Copyright 2018 Phoenix Professional Audio GmbH
www.phoenix-pa.com / www.phoenix-pa.com/shop
Phoenix logo is registered with the DE Patent and Trademark Office (TM)
All trademarks are the property of their respective owners



DOC-231118

IMPORTANT SAFETY INSTRUCTIONS & SYMBOL DECLARATION

1. Read this manual carefully.
2. Keep this manual in a safe place.
3. Observe all warnings.
4. Follow all instructions.
5. **WARNING:** To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.
Do not use this device near water.
6. Clean only with a dry cloth.
7. Do not cover any ventilation openings.
8. Do not install near heat sources such as radiators, air vents, stoves or other equipment (including amplifiers) that radiate heat.
9. Use only Phoenix Professional Audio GmbH products and specified accessories.
10. Have maintenance performed by qualified service personnel only. The device must always be serviced if it has been damaged in any way, for example, if the power cord or plug is damaged, liquids have been spilled on the product, or objects have fallen into the product, the product has been exposed to rain or moisture, is not working normally, or has been dropped.

EXPLANATION OF GRAPHIC SYMBOLS



**AVIS: RISQUE DE CHOC ELECTRIQUE !
NE PAS OUVRIR !**



The exclamation mark in a triangle is intended to alert the user to the presence of important operating and maintenance instructions in this manual.



The symbol consisting of a lightning bolt with an arrowhead in a triangle is intended to alert the user to the presence of non-isolated, dangerous voltages within the housing that may be strong enough to give off an electric shock.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. USE QUALIFIED PERSONNEL FOR ALL MAINTENANCE WORK.

GENERAL INFORMATION

The MX-3 is a universally applicable mono preamplifier with 2 MIC and 1 LINE inputs (mixable).

Universal application, easy operation and high overload resistance characterize the MX-3.

The preamplifier is equipped with high-quality built-in XLR jacks (Neutrik), switchable phantom power for condenser microphones and separate LF / HF sound control for each of the three inputs and master section. Separate sound control ensures precise room equalization and perfect adaptation to room acoustics.

In addition, the MX-3 has switchable phantom power 18 V, LOW / HIGH ON-OFF jumper per mic input.

The output of the preamplifier MX-3 is transformer balanced with select jumper for 0 dB or +6 dB signal setting, providing high noise immunity at +6 dB setting of the output, so that the signal feedback can be done by JY(ST)Y with 2x2x0.6 line.

The device is suitable for surface and flush-mounted installation (with matching optional surface-mounted or flush-mounted housing).

These devices comply with the Electromagnetic Compatibility Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC.

SAFETY INSTRUCTIONS

Before putting the preamplifier MX-3 into operation, we ask you to carefully read the safety instructions.

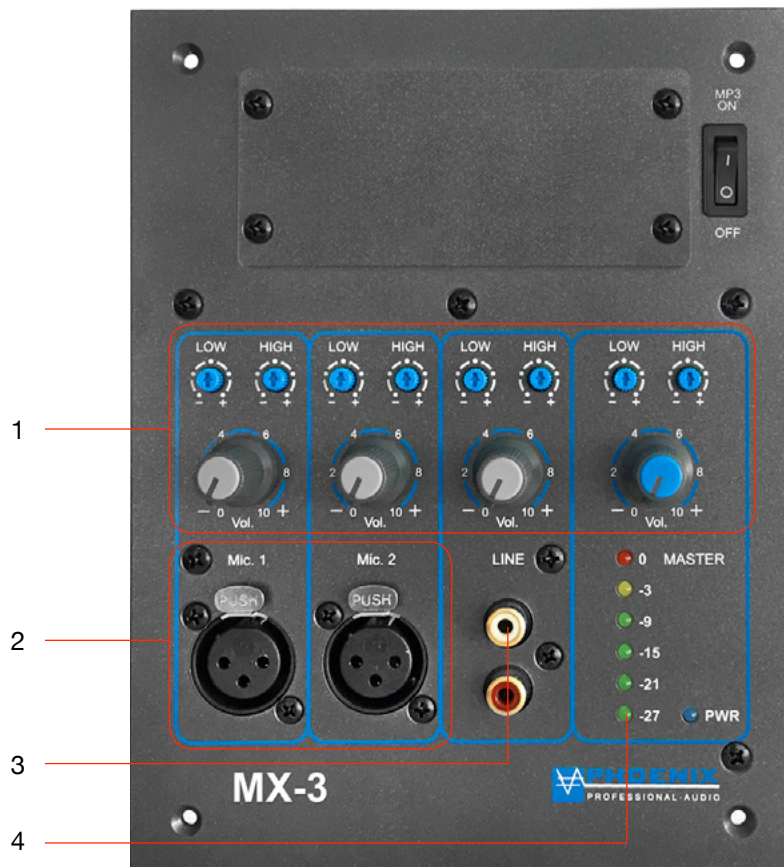
We ask you to perform the installation according to the following guidelines:

- 1 - Choose a dry environment.
- 2 - Avoid the proximity of heat sources.
- 3 - Only connect the device to 24 V DC power supply.

KEY FEATURES

- 2 x balanced microphone inputs
- 1 x unbalanced LINE input
- Separate HF / LF control
- Switchable LOW / CUT filter (jumper)
- Switchable phantom power (jumper)
- Transformer balanced output
- Output 0 dB / +6 dB (jumper)
- HF / LF ON-OFF (jumper)

FRONT



1.- EQUALIZATION / VOLUME / MASTER

VOL. - These controls are used to set the volume or sensitivity of the signals present at the inputs.

Bass controls „**LOW**“ are used to raise or lower low frequencies (+/- 12 dB). Treble controls „**HIGH**“ are used to raise or lower high frequencies (+/- 12 dB). With the master control „**MASTER**“ and the treble and bass controls you can determine the overall volume and equalization.

2.- MICROPHONE INPUTS

Balanced XLR inputs - for connecting a dynamic mic. or - if the PHANTOM-POWER is switched on - intended for a condenser mic.

3.- LINE INPUT

Cinch sockets „L“ and „R“ - suitable for connection of a sound carrier device with AUX output signal such as CD, DAT, TUNER. The input is unbalanced 10 kOhm/0 dB.

4.- LED LEVEL INDICATOR

LED level display -27dB to 0 dB - shows the level of the output signal.

REAR (SECTION)

0 dB/+6 dB

Jumper to select the output signal 0 dB or +6 dB

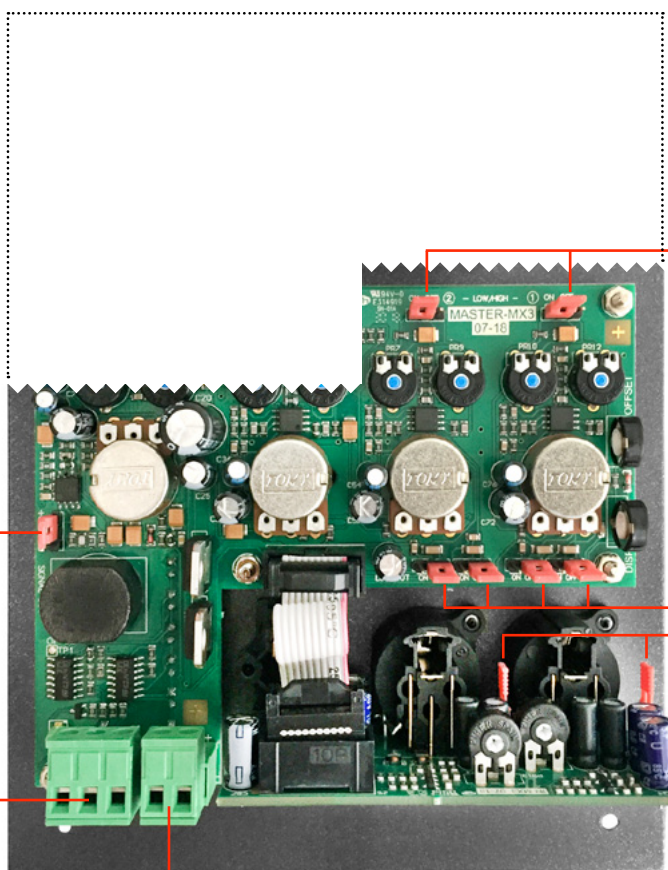
LINE OUT

Output, used for connection to power amplifier or mixing preamplifier or to the main control unit

POWER SUPPLY

CONNECTION

Voltage supply 24VDC, please note the correct polarity +/-



LOW/HIGH ON-OFF

Jumper switch can be used to enable or disable the functions of the LOW-HIGH controls on the front panel

LOW CUT

Jumper for activating or deactivating the LOW CUT filter; Please reposition two jumpers per input

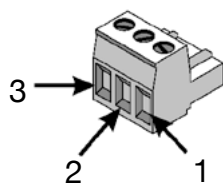
PHANTOM POWER

Switch for switching on the PHANTOM POWER for condenser microphones. Please note that PHANTOM POWER may only be activated for condenser or balanced dynamic microphones; PHANTOM POWER should not be active with unbalanced microphone cables.

Balanced inputs: Strip the wire conductors by 6 mm and connect them to the terminals as shown. Tighten the screws.



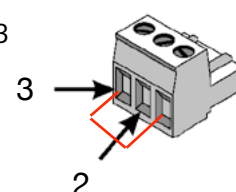
1 GND
2 +IN
3 -IN



Unbalanced inputs: Strip the wire conductors by 6 mm and connect them to the terminals as shown. The center pin must be connected to the shielding pin as shown. Tighten the screws.



1 GND und wire bridge to 3
2 +IN

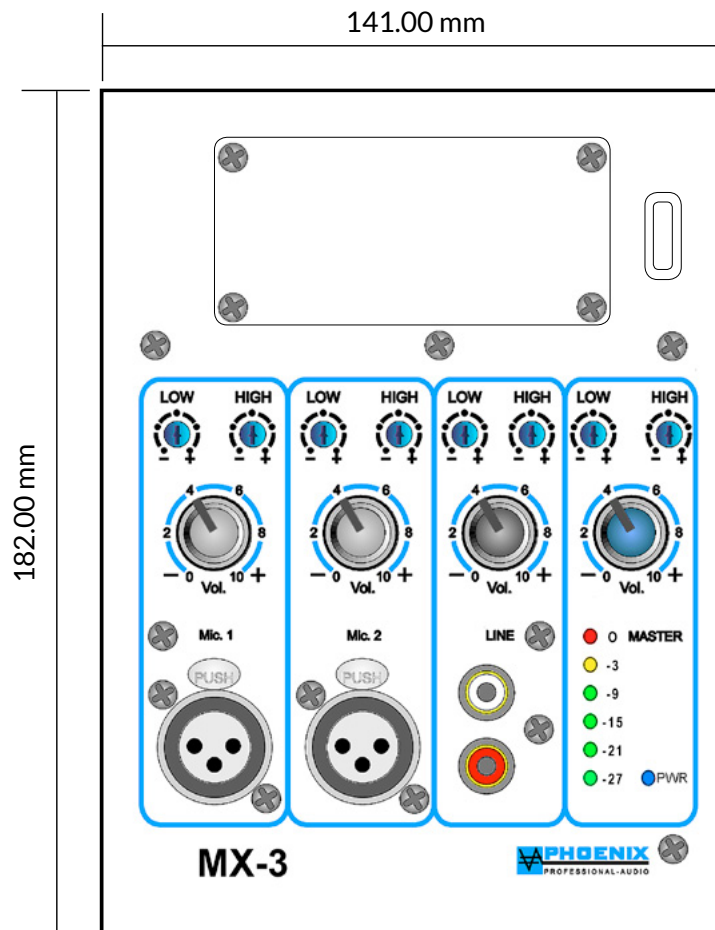


TECHNICAL DETAILS

TECHNICAL DETAILS

MX-3

Current consumption max.	60 mA
Dimensions	approx. W-141 x H-182 x D-50 (mm)
EQ	+/- 12 dB
Frequency response	40 Hz - 20,000 Hz
Line inputs	unbalanced 1 x line inputs 0 dB, 0.707 V / 10 kOhm, CINCH
Mic. inputs	balanced 2 x mic inputs (0.5 - 5 mV / 1 kOhm), XLR standard
Outputs	1 x balanced 0 dB or +6 dB
Phantom power	18 V
Power supply	24 VDC, 1A, 24 W
THD	below 0.3%
Weight	approx. 0.5 kg



NOTES

Disclaimer

The author points out that the representations, explanations, calculations and the same contained in the directive are merely exemplary in nature. They reflect the current state of knowledge and the current legal situation, but make no claim to completeness. In view of the complexity of construction projects, the development of individual solutions relevant to the respective project is indispensable. Any liability for the descriptions, applications, indications and transmissions of the guideline or individual details or parts of it shall be hereby expressly excluded.

Important notes

The following applies to all pages of this description:

Technical changes and printing errors reserved.

The pictures are similar, color deviations reserved.