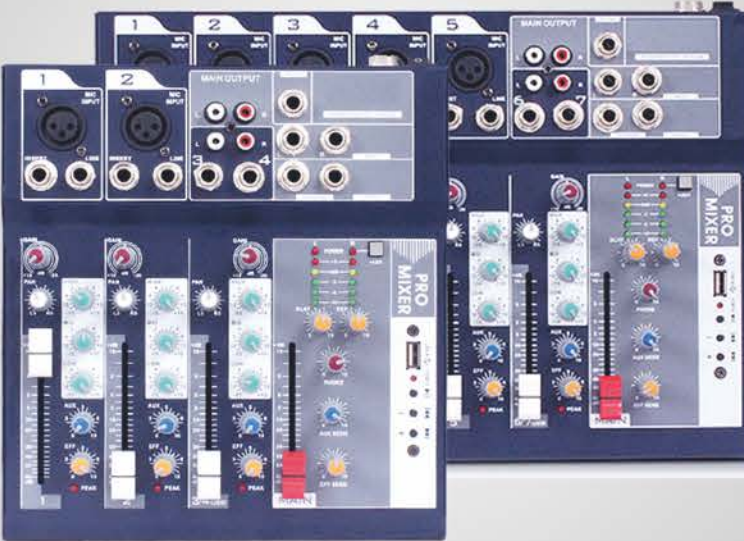


PROFESSIONAL MIXER

PROFESSIONAL 4-7- channel mixing console and Aux paths plus effects processor



User's Manual

PROFESSIONAL 4-12-channel mixing console and Aux paths plus effects processor

▲ 4-12-channel mixing console with two stereo channels and a separate stereo tape channel

▲ Separate input JACK controls for mix and line inputs on all mono channels

▲ XLR mic connectors on all mono channels

▲ Low-noise, discrete mic preamplifiers on all microphone inputs

▲ Dedicated inserts on all mono channels

▲ Balanced 1/4" stereo jacks and balance controls on all stereo channels

▲ Separate stereo tape channel with 1/4" and RCA jacks

▲ Stereo output for recording applications

▲ English musical active 3-band EQ on all seven channels

▲ AUX and effects paths as well as separate gain controls on all channels

▲ High-grade-sealed faders and potentiometers made by taiwan

▲ Insert option for external effects devices

▲ AUX Send and EFF Send controls in the main section for optimal level adjustment

▲ Headphones output with dedicated volume control

▲ Built-in +48V phantom power for condenser mics

▲ Extremely rugged construction ensures long life even under the most demanding conditions

1. INTRODUCTION

Congratulations! With the machine you have purchased a state-of-the-art 7-channel mixing console that sets new standards. Our prime goal when developing the machine was to design a console that can be used for a great variety of applications. And to give you maximum flexibility. In combination with its comprehensive range of features and pro-level connections, the machine will by your perfect tool for any kind of application: broadcasting, video dubbing or giving the sound of your band its finishing touch.

1.1 Before you begin

Your machine was carefully packed in the factory and the packaging is designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage, which may have occurred during transit.

⚠️ If the unit is damaged, please do not return it to our company, but notify your dealer and the shipping company immediately, otherwise claims for damage or replacement may not be granted. Shipping claims must be made by the consignee.

Be sure that there is enough space around the unit for cooling and please do not place the machine 2 on high-temperature devices such as radiators, etc to avoid overheating.

1.2 Control elements

1.2.1 Interface panel

□ Use this balanced XLR jack to connect microphone to the machine (applies to channels 1 through 5)

⚠️ The phantom power required for condenser mics can be activated with switch [17].

□ The INSERT jack allows you to insert, for example, a compressor or equalizer in the mono channels.

□ Channels 1 through 5 feature an additional LINE input on a balanced 1/4" jack.

□ These are the two balanced LINE inputs on 1/4 jacks for the left and right sides of the stereo channels, which can be used in parallel to the microphone inputs.

□ The TAPE IN jacks (on stereo RCA) allow for the connection of play-back devices such as CD players, etc.

□ Use the TAPE OUT jacks to connect, for example, a tape deck for recording applications.

□ Use the PHONES jack to connect a commercially available pair of headphones.

□ These are the balanced 1/4" jack MAIN OUTPUTS of your machine that can be used to drive, e.g. a power amplifier.

□ Connect the EFF SEND connector to the input of an external effects device.

□ The AUX SEND connector provides the monitor signal of your machine, for example, to control a monitor amplifier or active monitor speaker.

1.2.2 Front panel

[11] The GAIN MIC control determines the channels input gain, both for a microphone connected via the XLR jack and for other signal sources connected to the 1/4 jack.

[12] Use the PAN control to adjust the signal's position on the stereo basis.

[13] Your machine comes with a 3-band equalizer, the HI control governs the high frequency range, the MID control can be used to boost/cut the midrange frequencies, and the LOW control allows you to raise or lower the gain of the bass range.

[14] Use the AUX control to determine the channel volume sent to the AUX mix bus. When set fully to the left, the channel volume in the AUX mix is zero.

[15] The CHANNEL fader adjusts the volume of the corresponding channel.

[16] The EFF control adjusts the effects volume for the corresponding channel.

1.2.3 Main section

[17] Use this switch to activate the phantom power required for condenser microphones.

[18] The LEVEL DISPLAY reads the output level of your machine. Make sure that the two Clip LED swont light up.

[19] This is used for adjusting frequency of echo repeat. Since too much echo repeat may cause a howl. Please adjust frequency properly.

[20] This is used for adjusting the time interval of echo repeat. The middle position position (5) may be most effective

[21] The PHONES control governs the headphones volume.

[22] The AUX SEND control adjusts the volume level of the AUX signal provided at connector [30].

[23] The EFF SEND control allows you to adjust the level that is sent to an external effects device via connector [8]. Thus, you can drive all types of effects devices without any risk of distortion.

[24] Use the MASTER fader to set the overall volume level of your machine.

1.2.4 MP3 players section/Bluetooth previous an Next

[25] Use the built-in MP3 player, use the disk into the USB port.

[26] Use the [X] button can control the player to play or pause.

[27] Use the [X] button, press once the next song, press for more than a few seconds, you can enhance the volume.

[28] Use the [X] button, press once the previous song, press for more than a few seconds, you can decrease the volume.

Note: mp3 player the signal from the stereo channels 3/4 or 6/7 control.

2. WIRING

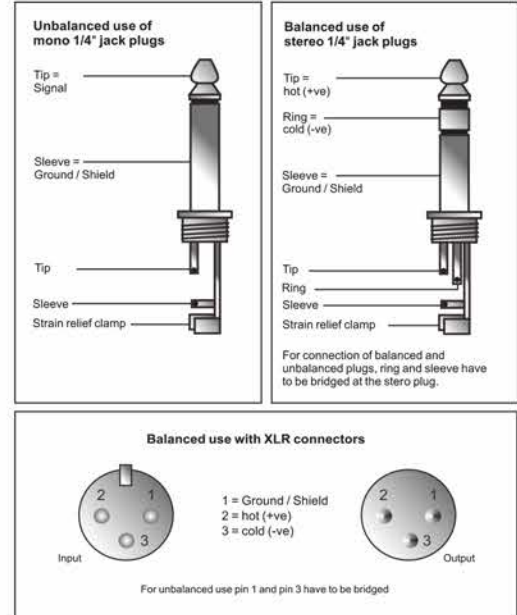


Fig. 2.1: Various connector types

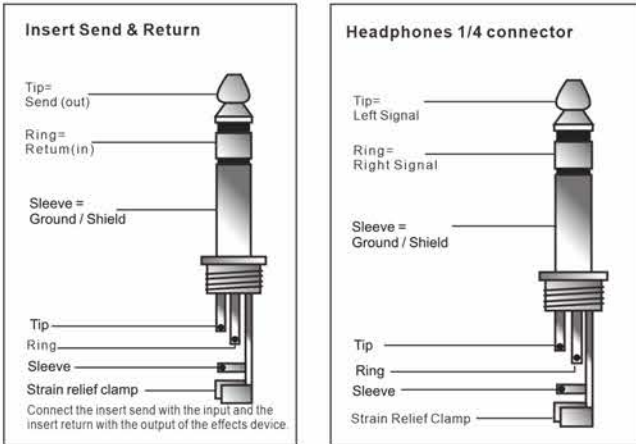


Fig. 2.2: Wiring diagram of insert cable and headphones plug

3. WARRANTY

1 WARRANTY CARD/ONLINE REGISTRATION

To be protected by the extended warranty, the buyer must complete and return the enclosed warranty card within 14 days of the date of purchase to our company Spezielle Studiotechnik GmbH, in accordance with the conditions stipulated in 3. Failure to return the card in due time/date as per postmark will void any extended warranty claims.

2 WARRANTY

1. warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year from the original date of purchase, in accordance with the warranty regulations described below. If the product shows any defects within the specified warranty period that are not due to normal wear and tear and/or improper handling by the user, our company shall, at its sole discretion, either repair or replace the product.

2. If the warranty claim proves to be justified, the product will be returned to the user freight prepaid.

3. Warranty claims other than those indicated above are expressly excluded.

3 WARRANTY REGULATIONS

1. Warranty services will be furnished only if the product is accompanied by a copy of the original retail dealer's invoice. Any product deemed eligible for repair or replacement by BEHRINGER under the terms of this warranty will be repaired or replaced within 30 days of receipt of the product at our company.

2. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. Under the terms of this warranty, our company shall not be held responsible for any cost resulting from such a modification/adaptation.

3. Free inspections and maintenance/repair work are expressly excluded from this warranty, in particular, if caused by improper handling of the product by the user.

This also applies to defects caused by normal wear and tear, in particular, of faders, potentiometers, keys/buttons and similar parts.

4. Damages/defects caused by the following conditions are not covered by this warranty:

▲ misuse, neglect or failure to operate the unit in compliance with the instructions given in our company user or service manuals.

▲ connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used.

▲ damages/defects caused by force majeure or any other condition that is beyond the control of our company.

5. Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty.

6. If an inspection of the product by our company shows that the defect in question is not covered by the warranty, the inspection costs are payable by the customer.

7. Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. Our company will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, our company will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

4 OTHER WARRANTY RIGHTS AND NATIONAL LAW

1. This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract.

2. The warranty regulations mentioned herein are applicable unless they constitute an infringement of national warranty law.

4. SPECIFICATIONS

INPUT CHANNELS 1 through 5

Mic input	electronically balanced, discrete input configuration
Frequency response	10 Hz to 200kHz
Gain range	+14 dB to +60 dB
SNR	120 dB E.I.N.
Line input	electronically balanced
Frequency response	10 Hz to 130 kHz
Gain range	-6 dB to +38 dB
SNR	95 dB E.I.N.

STEREO CHANNELS

Frequency response	10 Hz to 70 kHz
Gain range	Line: -8 to +15 dB / Mic: +13 to +60 dB
SNR	Line: 96 dB / Mic: 104 dB E.I.N.

EQUALIZATION

LOW	50 Hz, +/- 15 dB
MID	700 Hz, +/- 15dB
HI	10 kHz, +/- 15 dB

MAIN MIX

Main Outputs	+28 dBu balanced / +22 dBu unbalanced
AUX Send	+22 dBu unbalanced
EFF Send	+22 dBu unbalanced
Tape Out	+22 dBu unbalanced
Phones Output	+15 dBu / 150

PHYSICAL

USA/Canada 120 V~, 60 Hz,	
U.K./Australia 240 V~, 50 Hz	
Europe 230 V~, 50 Hz,	
Japan 100 V~, 50 - 60 Hz,	
China 220 V~, 50 - 60 Hz,	

Dimensions(H X W X D)mm

4 channel	305 X 240 X 50
7 channel	420 X 195 X 50

Weight

4 channel	3.2 kg
7 channel	3.6 kg

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

FRONT & REAR PANEL

