

# **MX-824**

## 12-CHANNEL MIXER/PREAMPLIFIER

### INSTRUCTION MANUAL



***FONESTAR***

We take this opportunity to thank you for buying this product.

We recommend you read the instruction manual before switching on the machine and follow the instructions that are given. Keep the manual for future reference.

## **SECURITY AND THE ENVIRONMENT**

### **ELECTRICAL SECURITY**

Check that the current in the mains connection where the machine is to be installed corresponds to the power supply of the machine.

To avoid damaging the equipment, electrical shocks, fire or physical injury when you connect or disconnect the equipment from the power supply, pull the plug firmly out of the mains socket holding the plug, never the cable.

Always do this with dry hands.

Keep the power supply cable far from sources of heat. Do not put heavy objects on top of it or change it.

Clean dust and dirt off the power supply cable regularly.

Do not open the machine; you could get an electric shock.

### **CAUTION**

While installing the machine, make sure it is switched off and unplugged.

Do not open the machine. Touching the internal parts is dangerous and you could receive an electric shock.

The machine must not be splashed or dripped on. Never place recipients with liquid inside on the machine.

Do not place anything inside the machine.

### **LOCATION**

Place the equipment on a horizontal surface with enough space around it to allow ventilation.

Avoid direct sunlight, heat sources and excessive dust.

Do not place the machine near magnetic fields or static electricity.

Do not use surfaces which vibrate or receive impact.

Do not pile machines on top of one another.

### **VENTILATION**

Never block or cover the ventilation slits on the machine.

Do not expose it to direct sunlight or place it near sources of heat.

### **PERIODS OF INACTIVITY**

When the machine is not going to be used for a long period of time, disconnect it from the mains.

If you are using an adapter, take into account that it will continue using electricity even if the machine is switched off. If it is not going to be used for a long period of time, disconnect it from the mains.

### **THE ENVIRONMENT**

To save energy, switch the machine off when you are not going to use it for a long time. The machine could contain substances that are harmful to the environment or human health. To minimize the effect of these substances the machine must be correctly managed and recycled when you decide to dispose of it.

When you dispose of it remember: it cannot be thrown into a conventional rubbish bin.

If it contains or uses batteries, these must be disposed of separately.

The machine (without batteries) must be disposed of correctly. Put it in a container specially intended for the collection of electronic and electrical appliances, at the dump or hand it over to the dealer when you purchase similar equipment, so that the dealer can dispose of it correctly (at no added cost).

## SIGNIFICANCE OF THE SYMBOLS ON THE MACHINE\*



The symbol formed by the expression “Class 1 laser product” written in a rectangle indicates that visible or invisible laser radiation could be produced. Avoid direct exposure to the laser.



The symbol formed by a ray of lightening inside a triangle shows that the machine has connection terminals or a circuit with areas with a current which could cause an electric shock, even in normal working conditions.



The symbol formed by an exclamation mark in a triangle shows that the instruction manual must be referred to for information on how the machine works and its use.



The symbol formed by one square inside another square shows that the machine has double electrical insulation.



The European Community symbol shows that the machine complies with the current European Union legislation, as well as its transposition to local legislation.



The symbol of a rubbish bin crossed out and over a horizontal line shows that when the product is disposed of it must be done properly, placing it in a special selective electronic and electrical equipment container or through a dealer when purchasing a similar product, at no additional cost. It also shows that the machine was put on the market after 13th August 2005 (European Community Directive 2002/96/CE of Electrical and Electronic recycling, and its Spanish equivalent R.D.208/2005).

In accordance with what is set out in the aforementioned decree, FONESTAR is registered in the RAEE (Registro de Aparatos Eléctricos y Electrónicos) in a special section REI (Registro de establecimientos Industriales), with the entry number 001851.

\*It is possible that some of these symbols do not appear on the machine.

### EXEMPTION OF LIABILITY

The characteristics of the equipment and the content of the manual can change without forewarning.

**FONESTAR, S.A.** does not assume responsibilities regarding the inappropriate use of the equipment or the information supplied in this instruction manual, and specifically disclaims any implied liability for marketability or fitness for any other use.

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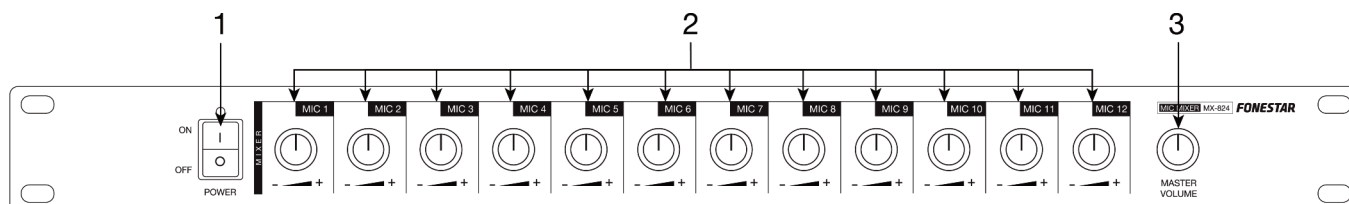
## DESCRIPTION

The model MX-824 is a 12-channel mixer for microphones with independent volume control and 48 V phantom power supply. It allows the number of microphones in a PA system to be easily increased.

It is especially suitable for conference systems, PA installations and audio on commercial premises.

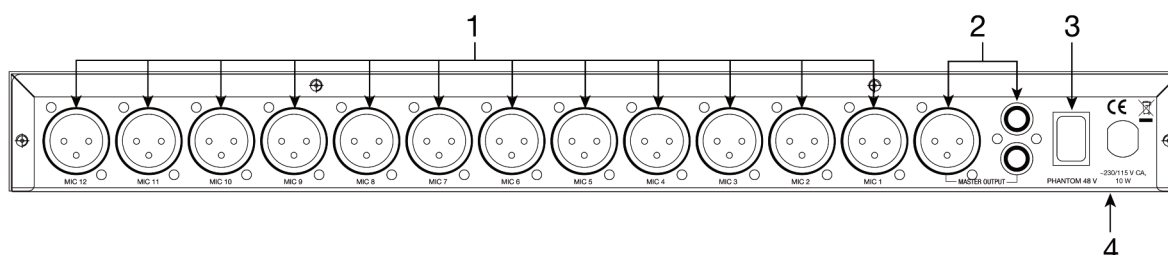
## CONTROLS AND FUNCTIONS

### FRONT PANEL



- 1.- **POWER:** on/off switch and LED power indicator.
- 2.- **MIC 1-12:** volume control for microphone MIC 1-12 inputs.
- 3.- **MASTER VOLUME:** volume control for the output signal.

### REAR PANEL



- 1.- **MIC 1-12:** microphone inputs with XLR connector. Balanced, unbalanced signals and dynamic or condenser microphones can be connected. If phantom power supply is required, the mixer itself supplies 48 V through the XLR connector activating the 48 V phantom selector on the rear panel.
- 2.- **MASTER OUTPUT:** unbalanced stereo output through XLR connector and 2 x RCA connector.
- 3.- **PHANTOM 48 V:** switch allowing the phantom power supply to be activated or deactivated for inputs MIC 1-12. The mixer supplies 48 V DC in the XLR terminals of the microphone MIC 1-12 inputs.
- 4.- Power supply voltage selector.

## INSTALLATION AND CONNECTION

Maintain the mixer switched off while the connections are being made.

Check that the cable connectors are firmly connected to the input connectors. A bad connection could cause noise or interference.

Use suitable cables and that are not excessively long to make the connections: shielded cables, preferably low capacity.

Always start with the mixer volume controls at a minimum. Move the controls slowly.

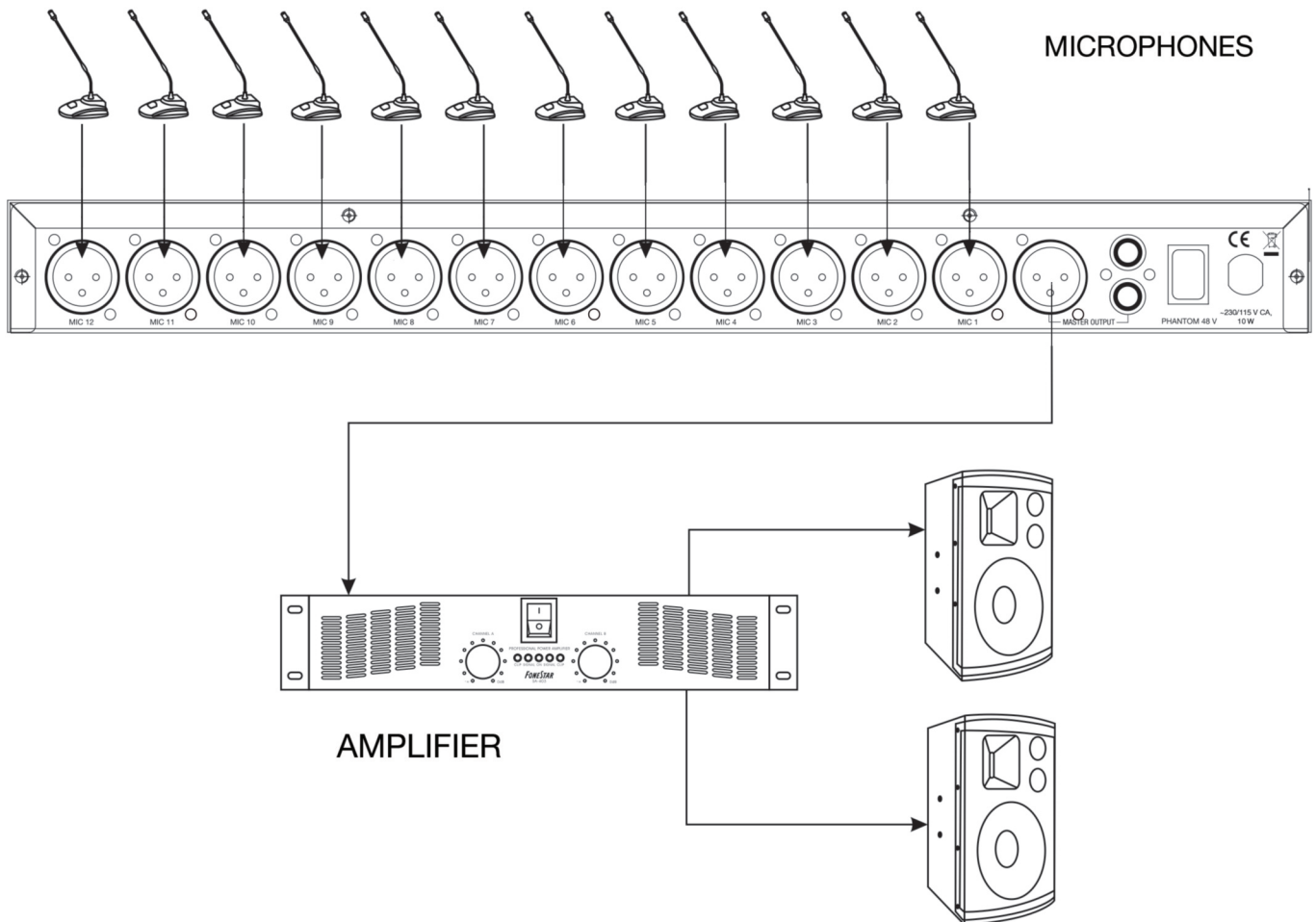
Connect the source to the mains.

When not using the mixer disconnect the power supply source from the mains to avoid using electricity.

## CONNECTION DIAGRAM

Up to 12 microphones (either dynamic or condenser) can be connected. If the microphone being used needs PHANTOM power supply, activate it.

The MASTER OUTPUT can be connected to a power amp or to auto-amplified loudspeakers.



## TECHNICAL SPECIFICATIONS

	<b>MX-824</b>
<b>CHARACTERISTICS</b>	Professional 12-channel mixer/preamplifier. Phantom power supply.
<b>INPUTS</b>	12 balanced mics., XLR 600 $\Omega$ 2.5 mV
<b>OUTPUTS</b>	1 balanced master XLR 600 $\Omega$ 7 mV and unbalanced 2 x RCA 4,700 $\Omega$ 150mV
<b>CONTROLS</b>	Input volume and master output
<b>RESPONSE</b>	50-20,000 Hz
<b>S/N RATIO</b>	> 60 dB
<b>PHANTOM</b>	48 V in mics. 1 to 12, selectable
<b>POWER SUPPLY</b>	230/115 V AC, 10W
<b>DIMENSIONS</b>	483 x 44.5 x 225 mm depth. 1 U x 19" rack
<b>ACCESSORIES</b>	1 RCA cable 1 XLR cable

## WARRANTY

This product has been tested and has passed the corresponding quality control prior to being put on the market.

**FONESTAR** guarantees the suitability of the product for its specified use during a period of 2 years from the delivery date and commits itself to repair or substitute the goods as expressed in the Spanish law 'La Ley General para la Defensa de los Consumidores y Usuarios, Real Decreto Legislativo 1/2007 16 Noviembre.

The lack of conformity in the first six months after purchase, due to a manufacturing defect, will be rectified with no more than showing the proof of purchase. After six months **FONESTAR** reserves the right to demand proof of the product being sold with that problem.

This warranty does not include damage produced by: inappropriate use or negligence, accidents, worn out parts due to use, breakages, burns, spilt liquids or other substances, excessive humidity, battery deterioration and internal manipulation of the device, the software or its components by unauthorized persons, and in general any use that is unrelated to the nature and purpose of the product.

If any service is needed during the warranty period because of lack of conformity, please contact the business or distributor where the product was purchased in no more than 2 months after being conscious of the problem. It is only necessary to contact **FONESTAR** if it is impossible or imposes an undue burden for them to solve it.

To benefit from this warranty it is necessary to show the proof of purchase with the date clearly visible, with no corrections or crossing out.

This document adds information, and never decreases the consumers' rights, which in all cases are protected by the Spanish law 'La Ley General para la Defensa de los Consumidores y Usuarios, Real Decreto Legislativo 1/2007 16 Noviembre.

