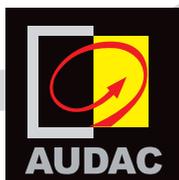


LX503 MK2

User Manual



www.audac.eu

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Introduction

Active speaker system

The LX503MK2 is a 3-way stereo loudspeaker system consisting of an active and passive unit to be linked with each other. It offers an easy and flexible solution for a wide variation of applications, producing a clear and powerful sound.

The integrated amplifier is capable of delivering a power of 2 x 40 Watt and has line level inputs, allowing direct connection to audio sources such as CD players, DVD players, laptops, MP3 players or many other line level audio sources.

The line input is performed in three different ways, offering convenient connection to any kind of audio source. Unbalanced audio sources can be connected to either the RCA or 3.5mm jack connectors, while balanced sources can be connected to the terminal block connections allowing long signal runs without interference.

A volume potentiometer allows loudness adjustment, while the two-band tone control allows equalization of treble and bass. The operation mode can be switched between mono and stereo.

Magnetical shielding around the loudspeakers ensures a complete immunity against interference and radiation caused by external devices, reducing the hum and noise to an absolute minimum.

The passive loudspeaker is connected to the active one using a terminal block connector while the mains should be fed to an IEC socket located at the back of the speaker.

Both speakers come with a sturdy steel mounting bracket, allowing proper mounting and inclining.

Precautions

READ FOLLOWING INSTRUCTIONS FOR YOUR OWN SAFETY

ALWAYS KEEP THESE INSTRUCTIONS. NEVER THROW THEM AWAY

ALWAYS HANDLE THIS UNIT WITH CARE

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

NEVER EXPOSE THIS EQUIPMENT TO RAIN, MOISTURE, ANY DRIPPING OR SPLASHING LIQUID. AND NEVER PLACE AN OBJECT FILLED WITH LIQUID ON TOP OF THIS DEVICE

NO NAKED FLAME SOURCES, SUCH AS LIGHTED CANDLES, SHOULD BE PLACED ON THE APPARATUS

DO NOT PLACE THIS UNIT IN AN ENCLOSED ENVIRONMENT SUCH AS A BOOKSHELF OR CLOSET. ENSURE THERE IS ADEQUATE VENTILATION TO COOL THE UNIT. DO NOT BLOCK THE VENTILATION OPENINGS.

DO NOT INSTALL THIS UNIT NEAR ANY HEAT SOURCES SUCH AS RADIATORS OR OTHER APPARATUS THAT PRODUCE HEAT

DO NOT PLACE THIS UNIT IN ENVIRONMENTS WHICH CONTAIN HIGH LEVELS OF DUST, HEAT, MOISTURE OR VIBRATION

THIS UNIT IS DEVELOPED FOR INDOOR USE ONLY. DO NOT USE IT OUTDOORS

PLACE THE UNIT ON A STABLE BASE OR MOUNT IT IN A STABLE RACK

ONLY USE ATTACHMENTS & ACCESSORIES SPECIFIED BY THE MANUFACTURER

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME

THE MAINS PLUG OR APPLIANCE COUPLER IS USED AS THE DISCONNECT DEVICE, SO THE DISCONNECT DEVICE SHALL BE READILY OPERABLE

USE THE APPARATUS ONLY IN MODERATE CLIMATES



CAUTION – SERVICING

This product contains no user serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to)



EC DECLARATION OF CONFORMITY

This product conforms to all the essential requirements and further relevant specifications described in following directives: 2014/30/EU (EMC) and 2014/35/EU (LVD)



WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its life cycle. This regulation is created to prevent any possible harm to the environment or human health.

This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose this product at your local collection point or recycling centre for electrical and electronic waste. This will make sure that it will be recycled on an environmentally friendly manner, and will help to protect the environment in which we all live.

CAUTION

The symbols shown are internationally recognized symbols that warn about potential hazards of electrical products. The lightning flash with arrow point in an equilateral triangle means that the unit contains dangerous voltages. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the users manual.



These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer’s warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

Chapter 1

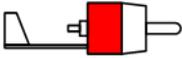
Connections and connectors

CONNECTION STANDARDS

The in- and output connections for AUDAC audio equipment are performed according to international wiring standards for professional audio equipment.

Cinch (RCA):

For unbalanced line input connections

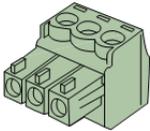


Tip: Signal

Sleeve: Ground

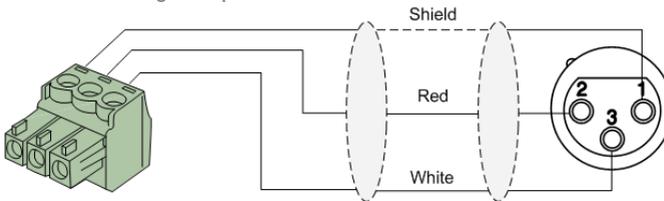
3-Pin Terminal block:

For balanced signal input connections

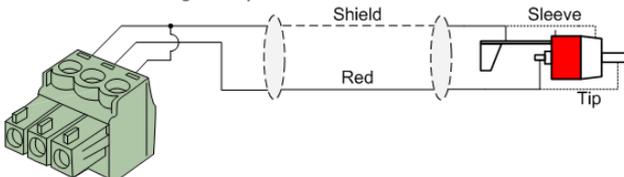


Left: Signal – (XLR Pin 3)
Center: Signal + (XLR Pin 2)
Right: Ground (XLR Pin 1)

For balanced signal input connections

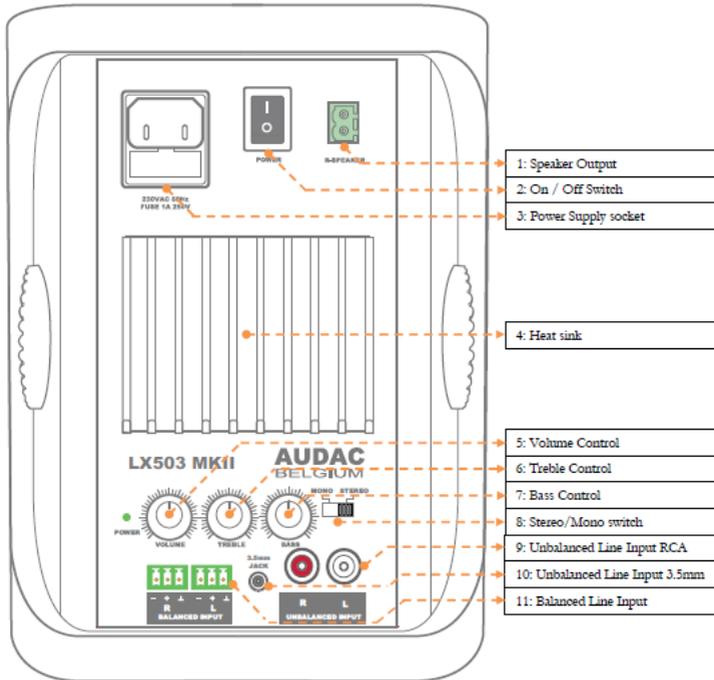


For unbalanced signal input connections



Chapter 2

Overview LX503MK2



LX503MK2 Rear panel

Description LX503MK2

1) Speaker output:

This two pin EURO terminal block connector should be used to connect the supplied passive loudspeaker. Using other loudspeakers can give bad results and even cause damage to the main unit. Be sure that the polarity of the speakers is correct.

2) On / Off switch:

The main unit can be turned on and off with this power button. When switched on, the green power LED at the bottom of the amplifier unit should illuminate.

3) Power supply socket:

The unit should be connected to the mains circuit by using a standard IEC type power cord. This socket contains a 1A slow blow fuse. To replace the fuse, the fuse compartment has to be flipped out by a screwdriver. Be sure that you don't use a quick blow fuse. This socket doesn't contain a ground pin to avoid ground loops.

4) Heat sink:

When using the LX503MK2 at full power for a long time, the heat sink will warm-up. Make sure there's always some space behind the speaker ensuring a proper airflow. Take care when placing the speaker near other heat sensitive items. Don't touch!

5) Volume control:

This button controls the general volume of the speaker system.

6) Treble control:

This button allows you to increase or decrease the high frequencies. By adding high frequencies, the intelligibility can be improved. In the centre position, the sound is neutral. You can adjust it to the desired level.

7) Bass control:

By adding bass, you can add warmth to your music. Decreasing bass can improve the intelligibility of spoken messages, certainly in reverberant rooms.

8) Stereo / mono switch:

The operation mode can be switched between Mono and Stereo mode with this switch. When the speaker is used in Mono mode, the input signal applied to the Left input signal will be fed to the amplifier.

9) Unbalanced line input (RCA):

The sound source such as a CD-player, a DVD player, a tuner, ... can be connected to this unbalanced line input. The applied signal should be a line-level signal. A microphone mixer or preamplifier is required for connecting a microphone.

10) Unbalanced line input (3.5 mm jack):

This Line level stereo input is useful when connecting a computer or a portable source (CD, MP3, ...).

11) Balanced line input:

These inputs can be used when connecting source devices with a balanced output signal. The balanced input connections are performed using three-pin Euro-Terminal block connectors. Balanced signals are less sensitive for interference caused by external devices. For this reason is balanced wiring recommended when using long cable runs between the source device and the speakers, or when installed in areas where a lot of interference occurs.

Chapter 3

Technical specifications

Frequency response		80 Hz – 20 kHz
Sensitivity (1W / 1m)		88 dB
Sound pressure (Max W / 1m)		103 dB
RMS Power		2 x 40 Watt
Drivers	HF	1" Piezo tweeter
	MF	1" Mid range tweeter
	LF	5 ¼" Polypropylene woofer
Construction	Speaker	ABS
	Bracket	Coated steel
Power supply		230 – 240 V AC / 50 Hz
Connectors	Power Input	IEC C14 input connector (1A fused) Unbalanced (RCA & 3.5 mm jack) Balanced (3–pin Terminal block)
	Speaker output	2–pin Terminal block
Controls		2–band tone control Volume control
Colors	LX503MK2/W	White (RAL9003)
	LX503MK2/B	Black (RAL9005)
Dimension		180 x 244 x 190 mm (excl bracket) 180 x 244 x 220 mm (incl bracket)
Packaging		Carton box (pair)
Weight net (pair)		5.4 Kg
Shipping weight / volume		6.2 Kg / 0.027 Cbm
Accessories included		Wall mounting bracket set Mains power cable (1.5 meter) Speaker cable (3.5 meter)

