Multi Sub

User manual

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The AED Audio MultiSub Manual

Introduction

Thank you for purchasing this AED Audio MultiSub.

The **MultiSub** loudspeaker is the only professional multipurpose audio product available worldwide on the market, useable for a variety of applications. Because of its multi-purpose way of deployment, this 500W RMS powered speaker can be used in several ways.

This manual (hereinafter referred to as the "Manual") is intended to be used as work of reference for professional, well trained and authorized users to be able to safely install, use, maintain and repair the product mentioned on the cover of this document (hereinafter referred to as the "Product"). The observation of the Manual does not dispense the user from the observance of the local safety instructions and regulations other than provided by the Manual. Such safety instructions and regulations must be observed at all time.

For information about specific adjustments, maintenance or repair jobs which are not dealt within this manual, please contact your Product supplier or AED Audio. If you suspect that the Product is damaged or detect a potential or actual danger when using the Product, immediately discontinue use of the Product and contact your supplier. To ensure the safe use of the Product this Manual must always be kept with the Product in legible condition.

Disclaimers

AED Audio, AED DISTRIBUTION SA, with registered office at Bedrijvenpark De Veert 13/4, 2830 Willebroek (Belgium), or any of its affiliates, does not accept any liability for material damage, including damage to the Product, or personal injury caused by non-observance by the user of the safety instructions in the Manual or the applicable laws. As such AED Audio shall among others not be liable for any damage or injury if the Product is used contrary to or for purposes other than its intended use, is installed, used, maintained or repaired negligently or contrary to the instructions mentioned in the Manual or on the Product, when the Product is modified and when the safety devices and features of the Product are disregarded or overridden.

Intended use

This system is intended for use by trained personnel for professional applications. The Product is not intended to be used by minors. Any use, regardless whether or not under the supervision of an adult, is at own risk.

Symbol description

Symbols used

►   Information and tips to ease things for you as you use your AED Audio MultiSub.

@   References to the online AED Audio website, where you can find interesting further information: https://www.AEDAudio.com

!   Prompt to take action. This symbol means that you are being prompted to perform some action.

Abbreviations used

Abbreviation	Definition

Revision history

Version number	date	update
1.0.0	14/11/2023	Initial version
1.1.0	28/12/2023	Update technical specifications
1.1.1	10/01/2024	Update Connectivity and accessories
1.1.2	10/01/2024	Update Accessories
1.1.3	04/04/2024	Different setups
1.1.4	16/04/2024	Update the AED audio MultiSub manual

Contact details Manufacturer

AED Distribution

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Tel.: +32 3 860 76 66
Mail: info@aedaudio.com

http://www.aedaudio.com

Manufacturer's declarations

EU declaration of conformity

$C\!\!\in$

Licenses and credits

General Safety information and general safety instructions

For your own safety, please read this instruction manual carefully before turning on the product for the first time.

Warnings

Always take note of any information marked with the CAUTION or WARNING symbol.

The signal word WARNING points out the potential risk of serious injury.

The signal word CAUTION points out the potential risk of slight injury. The CAUTION symbol is used to draw attention to circumstances which could cause the machine to become damaged.

Safety features & devices of the Product

The pictograms, warnings and instructions attached to the Product are part of its safety features. They must not be covered or removed and must be present and legible during the entire use of the Product. Immediately replace or repair missing, damaged or illegible pictograms, warnings and instructions.

CE	The products referred to in this manual conform to the European Community Directives and are therefore marked with CE logo.
	Before operate this unit, please carefully read this users guide and keep if needed in future.
	The device can only run with 240V voltage, 50/60 Hz power, don't connect to any other wrong power source.
	Safety I class device, need to be earth connected.
	Keep this device away from children and unauthorized users, the manufacturer will not take responsibility for the damage due to any disregard of the information provided in this manual and wrong operation.
	Don't put or install the device on a surface that subject to vibration or bumps.

Modification

Under no circumstances any modification of the Product may be done by any person other than AED Audio.

Other safety notes

Errors caused by not following these instructions are not covered by the warranty. The manufacturer will not accept liability for any resulting defects or problems.

- Keep the unit away from radiators or other heat sources!
- If the unit has been exposed to tremendous temperature changes (e.g. after transportation), do not turn the device on immediately. The resulting condensation could damage the unit. Don't switch the unit on until the device reaches room temperature.
- This device belongs to protection class I. Therefore, it is imperative that the green/yellow wire is connected to the earth contact or plug. The electrical connection must be made by a qualified person.
- Make sure that the cable has never been squeezed or damaged by sharp objects. Check the device and the power cables regulair.
- If the cable is damaged, it must be replaced immediately by the manufacturer, it's a service agent or qualified person in order to avoid danger.
- Ensure that wires never come in contact with other wires! Handle the power cord and all connections with caution!
- Make sure that the line voltage is not higher than the voltage specified in this manual.
- Disconnect the unit from the AC mains when it is not in use or when cleaning it.
- The plug on the power supply cord is used as disconnect device, the socket-outlet shall be easily accessible.
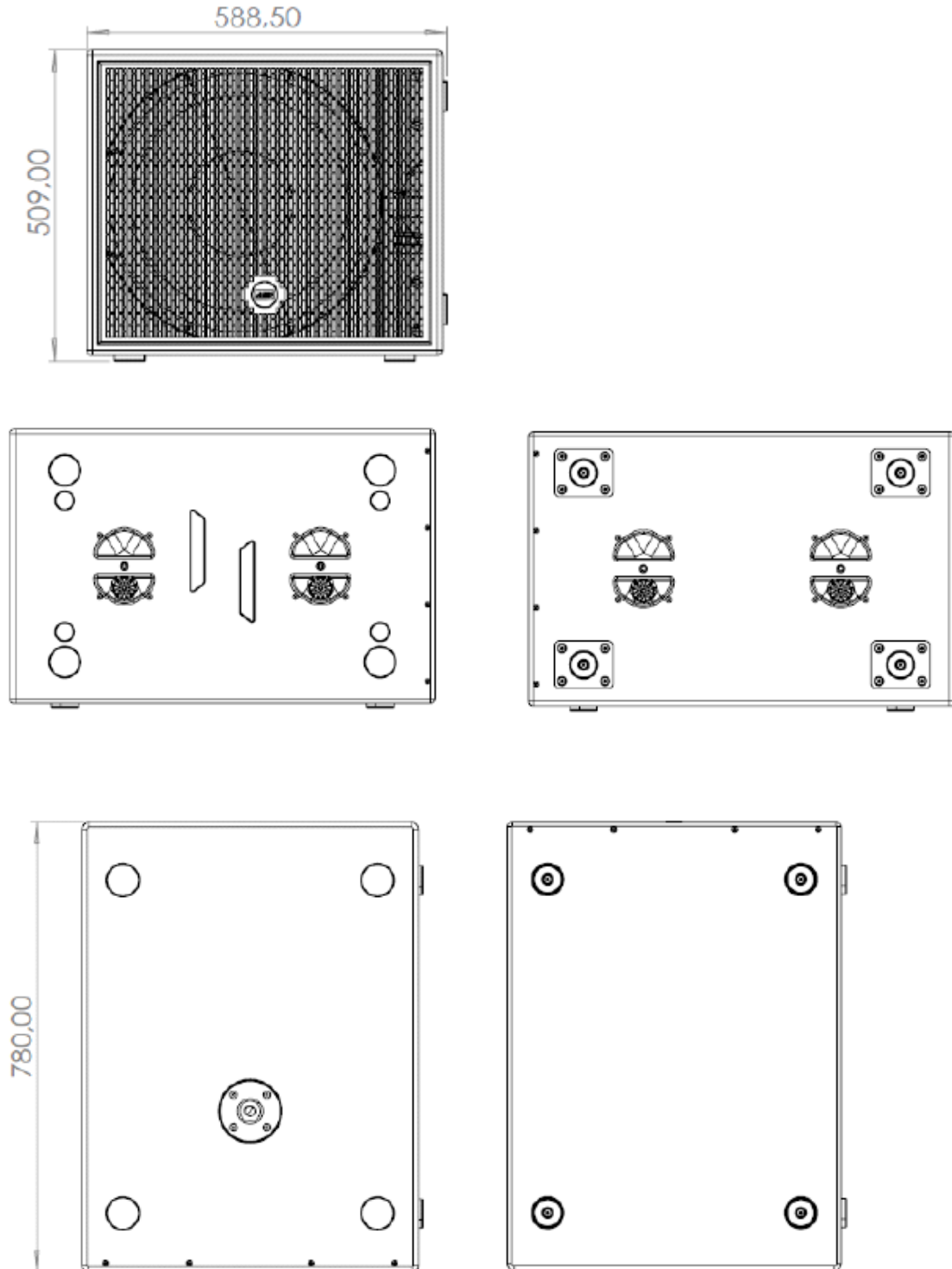
Technical specifications

Technical data

Type	MultiSub
Configuration	Powered subwoofer
LF transducer	Single 18" ferrite driver
Frequency response -6 dB	35 – 120Hz
Frequency response -10dB	30 – 140Hz
Maximum SPL	134dB
Amplifier	Class D | 500W RMS – 1200W peak
AC power input	220 - 240V 1.5A – 50/60 Hz
Power connector	TrueCon
Cooling	Speed controlled fan
Controls	Power – Standby modus
Indicators	Power – Signal - Clip
Connectors	1x XLR/F - 1x XLR/M loop through
Enclosure	Aluminium - Wood
Handles	4x plastic handles
Grille	Powder coated steel with grille cloth
Color	Black (RAL 9011)
Dimensions (WxHxD)	585 x 500 x 750 mm | 23.03 x 19.68 x 29.53 inch
Net Weight	40kg - 88.2lb
Attachment	Internal rigging - pole mount (Ø 35mm)
3 performance modes	Concert – Club – Vocal
Optional accessories	Touring dolly – Vertical coupler – Cover MultiSub
Power cable	Included
Certification	CE – UKCA - cETL

Dimensions drawing

588,50

509,00

780,00

Connectivity

Panel identifiers

1	Master volume
2	Line input
3	Line output
4	Standby mode
5	Mode selector (concert/ club/ Vocal)
6	PowerCon True In
7	PowerCon True Out/ Link
8	Power switch

9	Scan QR Code for more information
10	Signal indicator
11	Clip indicator

Transportation, handling and commissioning

Transportation

Keep the product dry and the temperature between 0°C and 30°C to avoid damage to the speaker. Please always handle with care.

Remove the shipping assembly

Before unpacking the fixture, please make sure that the packaging is in good condition and that following items will be found in the box:
- 1x MultiSub

Remove the tape from the box and open the box. Take the unit out and remove the plastic foil around the unit. Make a visual inspection of the unit. Please check condition of units while unpacking, if any damages occur, the unit must be repaired/replaced before it can be used. Please contact your local distributor for service. If units are damaged and still used, AED Audio cannot be held liable for any risk/danger or occurrence given by these damaged units.

Installation

There are specific regulations like BGV C1 (old VBG 70) or country related regulations which need to attend during the installation. The installation has to be handled by skilled persons only!

Suspension device has to be built and calculated in order to handle up to 10 times its specific load limit over a time of one hour without permanent or harmful deformation.
Installation has to be done with a separate, independent suspension device like a safety chain.
Trespassing the danger zone below the installation during the assembling is prohibited.
Installer has to take care of all safety and machinery installations are approved by authorized persons before first operation or after changes before restarting.
Installer has to take care of all safety and machinery installations are approved by skilled persons at least once a year.
Installer has to take care of all safety and machinery installations are approved by authorized persons every four years during the acceptance inspection.

Attention

Installation overhead needs a high level of experience. This includes (but is not just limited to) calculation and definition of load capacity, used installation material and regular safety inspections of used material and the fixture itself. Never try to do the installation by yourself if you are not qualified, instead you have to instruct a skilled installer. Inappropriate installations can cause injuries and/or damage of property.

Mounting place must be sufficient stable and be able to support a weight of 10 times of the unit's weight.

Assure the specified safety distances to flammable material.

Different setups

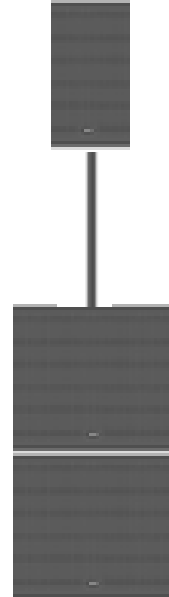**Explenation**   **Example**

SETUP 1:

1x AED audio Multisub + 1x AED audio Multi12

► **You can only use a pole of Ø 35mm.**
(Example: AED audio Multi Stand)

SETUP 2:

2x AED audio Multisub + 1x AED audio Multi12

► **You can only use a pole of Ø 35mm.**
(Example: AED audio Multi Stand)

SETUP 3:

2x AED audio Multisub + 1x AED audio Flex6
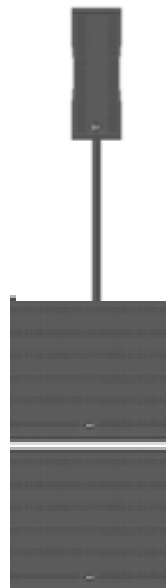
► **You can only use a pole of Ø 35mm.**
(Example: AED audio Multi Stand)

SETUP 4:

2x AED audio Multisub + 1x AED audio Flex6

► **You can only use a pole of Ø 35mm.**
(Example: AED audio Multi Stand)

Accessories

TOURING DOLLY

Universal Touring dolly

- Flexible Touring Dolly for SOLID15/28 & MULTI SUB
- Fits multiple SOLID15's (optionally stacked with FLEX6's)
- Fits 1x SOLID28 (optionally stacked with SOLID15's and/or FLEX6's)
- Fits multiple MULTI SUB's (optionally stacked with MULTI12's)
- Keep cabling connected during transport
- Movable wooden cable tray and blue wheels included

VERTICAL COUPLER

For vertical stacking
- Vertical stacking of Flex6, Solid15 and Solid28
- Can be used in all handles on all the AED Audio speakers
- Metal piece, covered with rubber to protect the wood on the cabinets

COVER MULTISUB

- Protective carrying bag for MULTISUB
- Operational rain cover
- Easy access to the control panel

MULTI STAND

Poles and baseplate for Flex6, Multi12
- Contains 1x Baseplate, 1x Pole (60 cm), 1x Pole (90 cm)
- Poles are combinable to 1 x 150 cm rod
- Versatile Stand: 3 solutions in 1
- Aesthetic cable management solution

Safety regulations

- WARNING! To reduce the risk of fire or electric shock, do not expose this device to rain or moisture → if speakers are exposed to rain or moisture, use fitted rain protection found in the AED catalogue.

- WARNING! This device shall not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the device..

- WARNING! Make sure that no water or moisture can be found around the speaker, power port, or surrounding area: If water or moisture can be found around these areas, remove it with a soft dry cloth and allow to dry at room temperature. Once everything is completely dry you can start charging again.

- WARINING! Make sure that no foreign substances can be found around or on the TRUECON connector or socket: If the speaker becomes dirty, clean thoroughly before using or powering on.

Maintenance

Operation only allowed to qualified person, damages due to unprofessional operation or remove of any parts inside will not be considered in warranty service. There are no serviceable parts inside the device or package, service only leaves to authorize dealers.

Troubleshooting and repair

Fault list

Problem	Fault message	Solution
The unit will not turn on.	n/a	▪ Connect the power plug to the outlet ▪ Turn on the device with the on/off switch
The unit sounds distorted	Clip indicator	Check the gain adjust settings

Repair

If the Product is damaged or malfunctions, contact the AED Audio Service Department or a AED Audio authorized distributor. Repairs by parties other than AED Audio or a AED Audio authorized distributor may not involve the use of AED Audio genuine parts and may affect the safety and functionality of the Product. For repair options or specific inquiries, please contact the AED Audio Service Department.

Contact details certified repair center

AED Repair

Bedrijvenpark De Veert 11,
2830 Willebroek – Belgium

Mail: info.repair@aedgroup.com

https://www.aedgroup.com/en/services/aed-repair

Notes

The information given in this manual has been collected for the general convenience of our customers. It has been based on general data pertaining to construction material properties and working methods known to us at the time of issue of the manual and is therefore subject at any time to change or amendment, and the right to change or amend is hereby expressly reserved. The instructions in this manual only serve as a guideline for installation, use, maintenance and repair of the product mentioned on the cover page of this document. This manual is to be used for the standard model of the product of the type given on the cover page. Thus the manufacturer cannot be held responsible for any damage resulting from the application of this manual to any other product.

This manual has been written with great care. However, the manufacturer cannot be held responsible, either for any errors occurring in this manual or their consequences.