



AUDIO[®]
THE LEGACY



FLEX6

User manual

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Table of contents

The AED Audio Flex6 Manual	4
Introduction	4
Disclaimers	4
Intended use	4
Symbol description	5
Symbols used.....	5
Abbreviations used	5
Revision history.....	5
Contact details Manufacturer.....	6
Manufacturer's declarations	6
EU declaration of conformity.....	6
Licenses and credits	6
General Safety information and general safety instructions	7
Warnings.....	7
Safety features & devices of the Product	7
Other safety notes	8
Technical specifications.....	9
Technical data.....	9
Dimensions drawing	10
Transportation, handling and commissioning	11
Transportation.....	11
Remove the shipping assembly.....	11
Installation	11
Loudspeaker configurations	12
Accessories	14
Operation.....	17
Powering on/ off.....	17
Start-up procedure:	17
Using the main menu.....	18
Bluetooth specifications:.....	19
Bluetooth limitation:	19
Bluetooth menu specifications:.....	19
Different Bluetooth linking methods (modes):	19

Bluetooth connection:.....	20
Connecting your personal device (mobile phone,...):	20
Connecting the speakers to each other:.....	21
Linking multiple speakers	23
Dante Bluetooth connectivity	23
Connecting AED audio speakers using Dante controller.....	23
Safety regulations.....	24
Maintenance.....	24
Troubleshooting and repair	24
Fault list	24
Repair	25
Contact details certified repair center	25
Notes	26

The AED Audio Flex6 Manual

Introduction

Thank you for purchasing this AED Audio Flex6.

The **FLEX6** 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 1.300W RMS powered speaker can be used in several ways. Put the FLEX6 on a pole, stack it and create a column array, fly it as a line array up to sixteen cabinets, put two horizontally on a pole in a sub-top combination, etc.

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.

Contact details Manufacturer

AED Distribution

Bedrijvenpark De Veert 13,
2830 Willebroek – Belgium

Tel.: +32 3 860 76 66

Mail: info@aedaudio.com

<http://www.aedaudio.com>

Manufacturer's declarations

EU declaration of conformity



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.

	<p>The products referred to in this manual conform to the European Community Directives and are therefore marked with CE logo.</p>
	<p>Before operate this unit, please carefully read this users guide and keep if needed in future.</p>
	<p>The device can only run with 240V voltage, 50/60 Hz power, don't connect to any other wrong power source.</p>
	<p>Safety I class device, need to be earth connected.</p>
	<p>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.</p>
	<p>Don't put or install the device on a surface that subject to vibration or bumps.</p>

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.

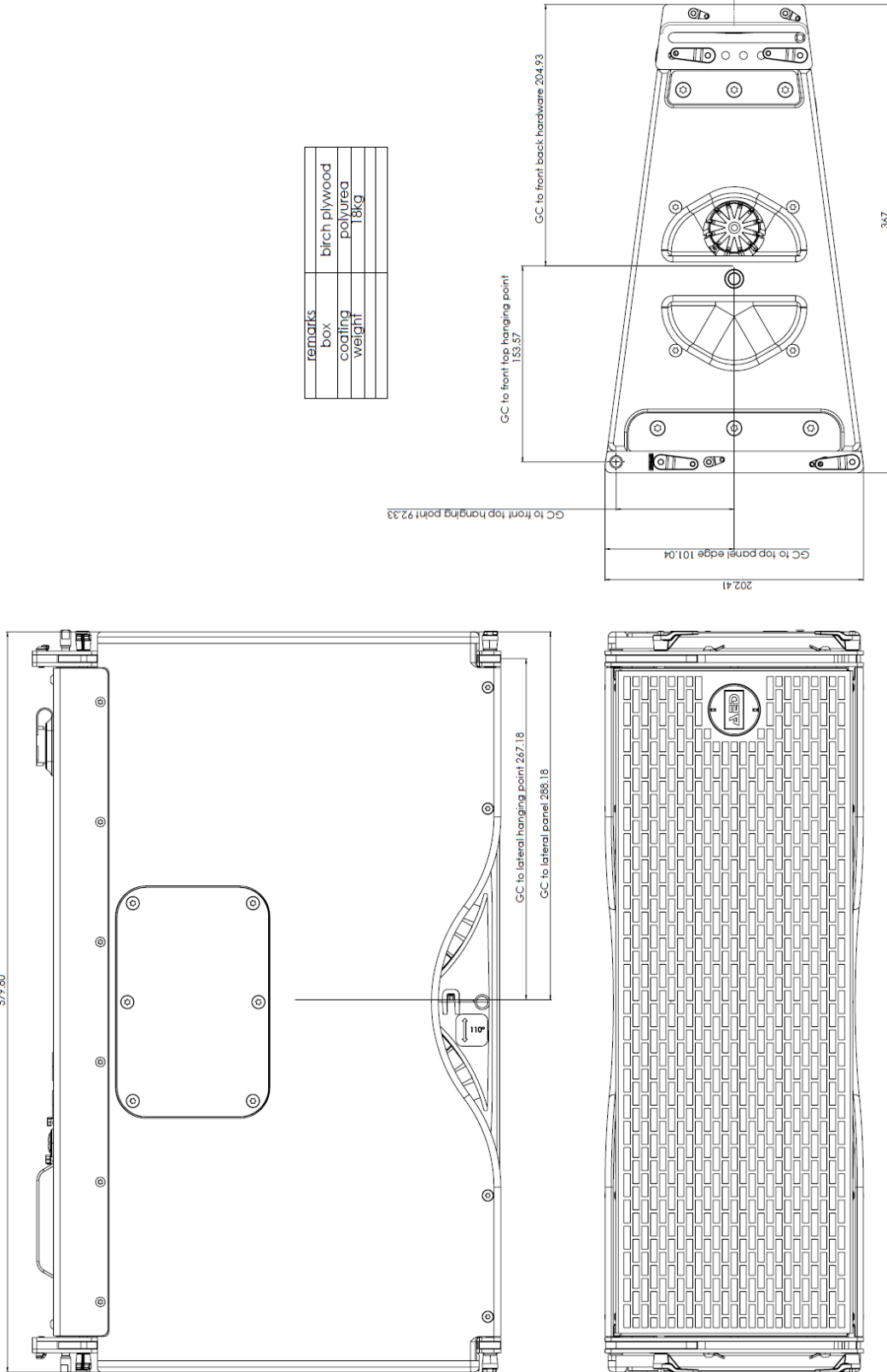
- Keep the unit away from radiators or other heat sources!
- If the unit has been exposed to tremendous temperature changes (e.g. after transportation), do not turn the device on immediately. The resulting condensation could damage the unit. Don't switch the unit on until the device reaches room temperature.
- 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 regular.
- 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	Flex6
Configuration	Multipurpose powered line source speaker
LF transducer	2x 6.5" Neodymium
HF transducer	1x 1.4" 3" voice coil Neodymium
Frequency response -6 dB	65 – 18 kHz
Frequency response -10dB	60 – 18 kHz
Coverage angle	15° x 100° - rotatable horn
Maximum SPL	139 dB
Amplifier	Class D 1.300W RMS – 2.600W peak
AC power input	100 VAC - 3,6A 120 VAC - 3A 240 VAC - 1,5A
Controls	Power - Rotary encoder - Selection button - 2x Level
Indicators	LCD display - Rotatable multipurpose front LED indicator (power, limiter, network, off) - 3x signal LED - Network LEDs
Connectors	2x XLR/F 1/4" combo - 2x XLR/M loop through - 1x XLR/M mix out - 2x RJ45 4x4 Dante(AES67) & Control
Extra connectivity	Multicast Bluetooth® receiver/sender - NFC
Enclosure	Aluminium - Wood
Color	Black (RAL 9011)
Grill	Powder coated steel - Internal lining
Dimensions (WxHxD)	240 x 590 x 395 mm 9.45 x 23.23 x 15.55 inch
Net Weight	16 kg - 35.27 lb
Attachment	Internal rigging - 2x pole mount
Optional accessories	Yoke – Flex protect - Vertical coupler - Rigging bumper – Flight case for 2x Flex6 – Touring dolly – Array Cover – MultiStand – Carrying bag
Power cable included	Not included

Dimensions drawing



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 FLEX6

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

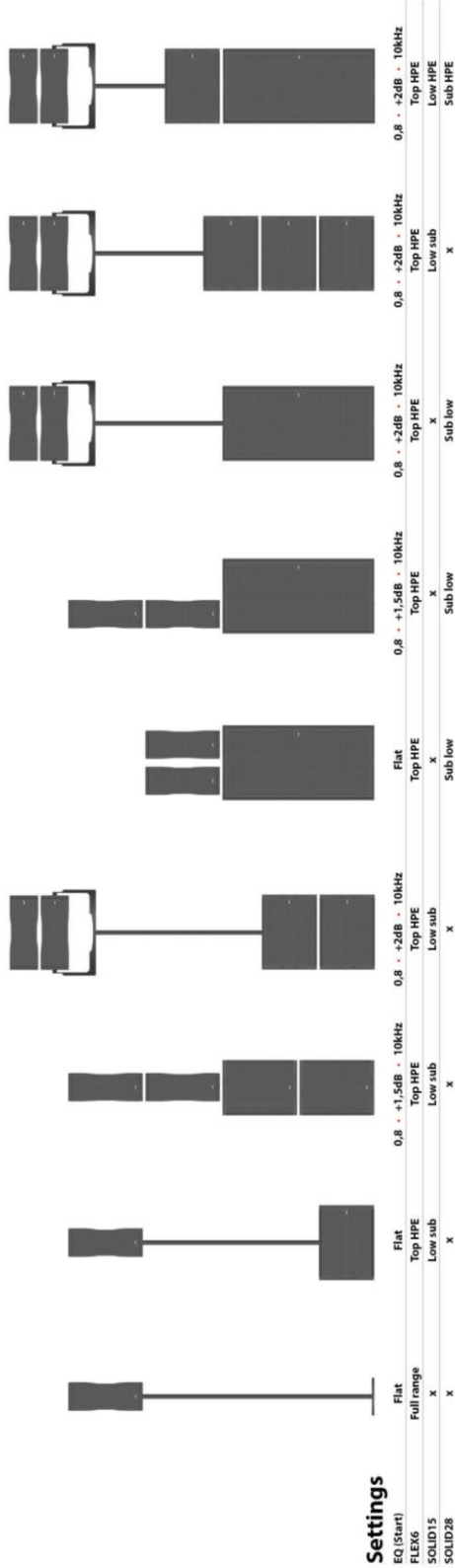
Installation overhead needs a high level of experience. This includes (but is not just limited to) calculation and definition of load capacity, used installation material and regular safety inspections of used material and the fixture itself. Never try to do the installation by yourself if you are not 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.

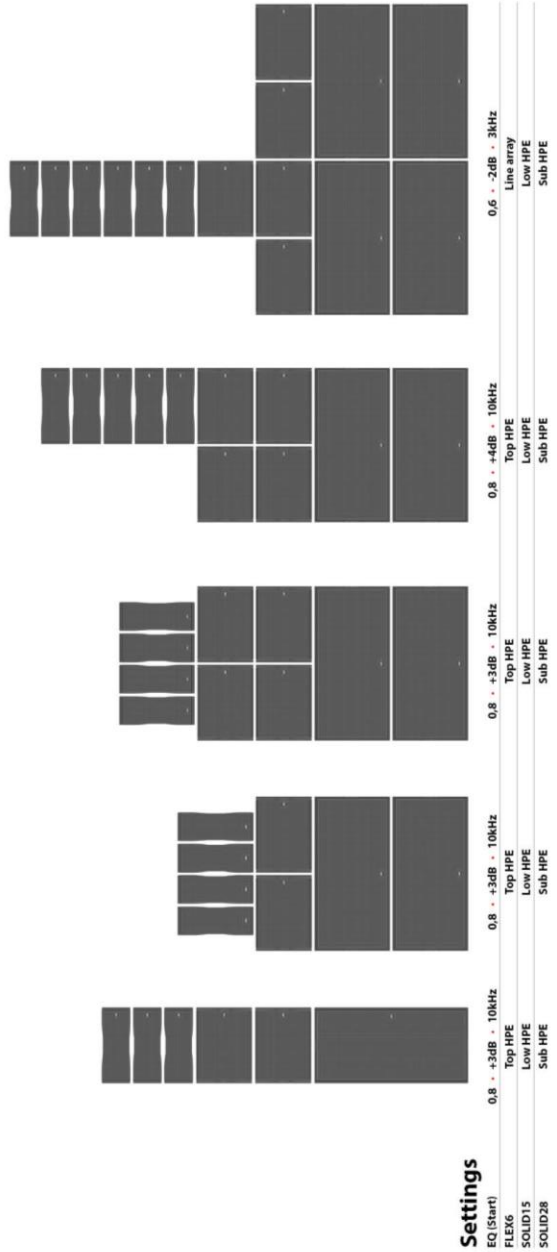
Assure the specified safety distances to flammable material.

Loudspeaker configurations

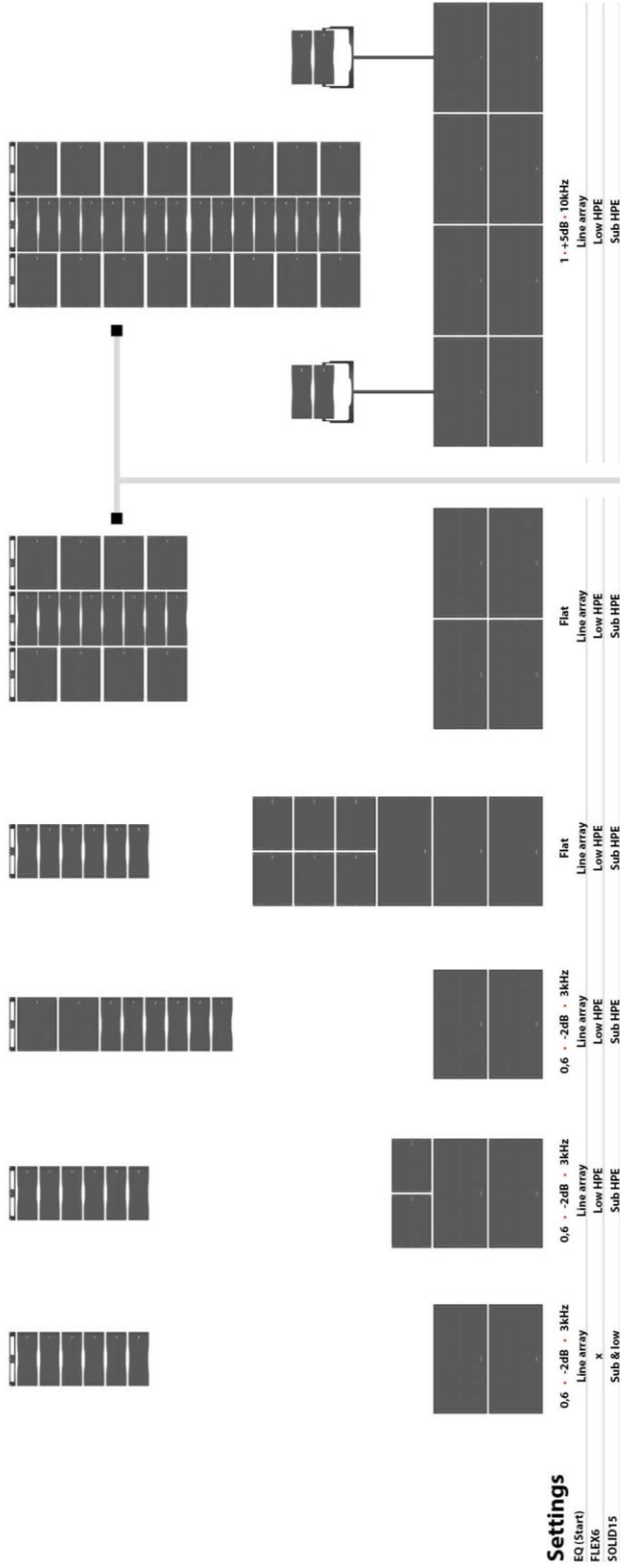
EASY SETUPS



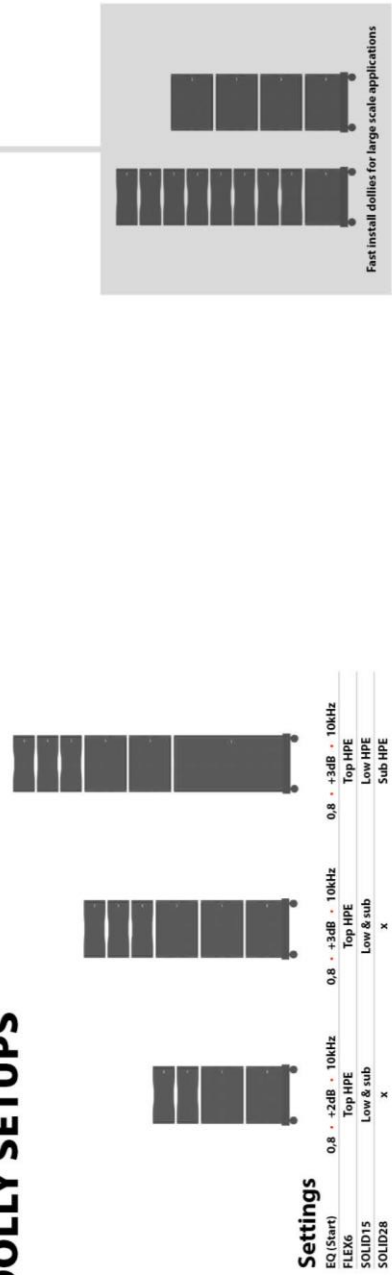
GROUND STACKING SETUPS



LINE ARRAY SETUPS



DOLLY SETUPS



Fast install dollies for large scale applications

Accessories

FLIGHT CASE 2X FLEX6

- Flight case for 2x Flex6 speakers



YOKE

Yoke mount for 2x Flex6 or 1x Solid15

- For max. 2x Flex6 or 1x Solid15
- 2x brackets without clamp, 1x pole mount piece included
- Compatible for 30cm and 40cm truss (with quick lock)
- Completely foldable
- Fix install directly against a ceiling/ wall possible



RIGGING BUMPER

Rigging bumper for Flex6 and Solid15

- Fly up to 16x Flex6 or 8x Solid15 or any combination in between
- Multiple pick points for 1-hoist hangs
- Lightweight (<13 kg | 29.8 lb.)



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



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



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



FLEXPROTECT

Outdoor protection cover

- Reduces risk of water leakage
- Reduces risk of overheating in direct sunlight
- Metal connection piece



FLEX 6 Carrying Bag

Transport & carrying bag for Flex 6

- Protective carrying bag for FLEX6
- Operational rain cover
- Easy access to the control panel



Array Cover

Outdoor protection array cover

- Rain cover for line array
- Modular system with velcro and zippers
- Three equal size rain shields
- Set-up expandable for larger arrays (three, six, nine ... shields)



Operation

Powering on/ off

Start-up procedure:

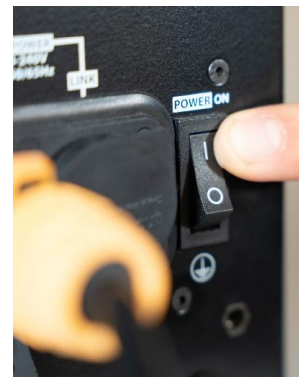
Step 1:

Insert the TRUECON connector into the 'In' socket on the bottom left corner of your AED Audio Flex 6 speaker.



Step 2:

Flip the 'Power On' button on the bottom right corner of your AED Audio Flex 6 speaker from (O) to (I) to power on your device.



Using the main menu

Use the menu and back button to navigate through the menu.

Line	Line
	Mic

PRESETS	Full Range
	Top HPE
	Line-Array HPE

DELAY	m / feet / msec
-------	-----------------

Settings	BLUETOOTH	Device name
		Connect
	Group & Name	Name
		State
		ID
		Group
	NETWORK	IP / subnet
		device number / Unique name
	General	Brightness
		LED
		Locate
		Lock
	Self Test	Start
	Info	Software
		Hardware
S/N		
Default Setting	Yes / No	

EQ	eq1/ shelf filter	Freq / Q / gain
	eq2	Freq / Q / gain
	eq3	Freq / Q / gain
	eq4/ shelf filter	Freq / Q / gain
	FLAT	Yes / No

Bluetooth specifications:

- Rx Sensitivity: -91dBm
- Memory type: flash
- Tx power: +2dBm (class 2): +15 dBm (class 1)
- Bluetooth 5 certified

Bluetooth limitation:

- Between personal device and AED audio Flex 6 speaker, line of sight : 30m Bluetooth range
- Between AED audio Flex 6 speaker, line of sight : 30m Bluetooth range
- Linking multiple speakers via Bluetooth: maximum 2 speakers (connecting more than 2 speakers via the 'Master' 'Slave' Bluetooth connection is not yet possible)

Bluetooth menu specifications:

Power: This option will turn on the Bluetooth of the device so that it can be found by other devices.

Pair: The 'pair' option will make sure that the speaker can be connected to by other devices. (like your mobile phone and other speakers)

Pin: The pin code is a personal code for each AED audio speaker which is used as a security which will only allow you to connect to the speaker if the pin is correctly inserted. This code will be personal to every AED audio speaker.

Sync: The 'Sync' option in the Bluetooth menu will be the button you press right before you want your speakers to be connected to each other through a Bluetooth connection. After deciding which speaker will be your master and which will be your slave, you will have to press the 'Sync' button with your 'Menu' scrolling wheel to show the speaker it can open its connection.

Different Bluetooth linking methods (modes):

- **Master:** This is the mode you will pick on the speaker that is connected to your personal device (mobile phone,...) to indicate that all the other speakers (that are in slave mode) have to listen to this speaker.
- **Slave:** This is the mode you will pick on the speaker that you want to connect to your 'Master' speaker. Use 'Slave' mode on all the speakers you want to connect to the original 'Master' speaker.
- **Single:** This is the mode you will select if you just want to connect only 1 speaker to your personal device.
- **Stereo Master and Stereo Slave:** You can use the Bluetooth modes When the speaker is put in 'Expert mode',. This will function the same way as the normal 'Master' and 'Slave' Bluetooth modes but can be used to set up your AED audio speakers in a stereo set-up.

WARNING: The AED audio Flex 6 speaker's volume will automatically be put on 0dB when it connects to your personal device. Make sure to fully turn down the volume of your personal device before playing any audio out of your AED audio Flex 6 speaker to prevent hearing damage.



Bluetooth connection:

Connecting your personal device (mobile phone,...):

Step 1:

Use the 'Menu' scrolling wheel to scroll to the settings tab on the display.



Step 2:

Press on the 'Menu' scrolling wheel to enter the settings menu.



Step 3:

Press on the 'Menu' scrolling wheel to enter the 'Bluetooth' menu.



Step 4:

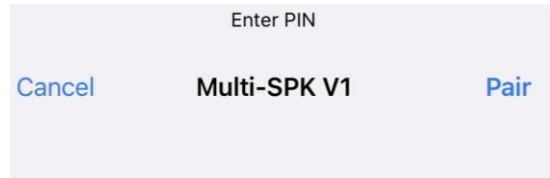
Using the 'Menu' scrolling wheel, change the 'Power' and 'Pair' options from 'Off' to 'On' to turn on the Bluetooth of your AED audio speaker. The speaker will start looking for a Bluetooth connection to be made with your device.



STEP 5:

After turning on the Bluetooth and pairing on your personal device. The AED audio Flex 6 speaker will always be called 'Multi-SPK V1'. Click on this name when it pops up on 'available devices' or 'other devices' on your personal device.

The next step is to enter the Pin code into your personal device and the speaker will be connected.



PIN

Connecting the speakers to each other:

STEP 1:

Start by going to the 'Mode' option in the Bluetooth menu on the AED audio speaker with which you connected your personal device. In this menu you choose the 'Master' option.

(By using the scrolling wheel and enter button.)



STEP 2:

On your second AED audio speaker (the one you want to connect to your 'Master' speaker) go to the 'Mode' option and select the 'Slave' option.



STEP 3:

The next step is to scroll down to the 'Sync' option and use the 'Menu' scrolling wheel to select the 'Sync' mode. This will show your 'Master' speaker that it can open its connection to the 'Slave' speaker.



STEP 4:

After completing these steps, you can make sure your 'Master-Slave' connection has been completed by trying to play some audio through both these speakers. It is essential that all your linked AED audio speakers broadcast the same audio.

CAUTION: The AED audio Flex 6 speaker's volume will automatically be put on 0dB when it connects to your personal device. Make sure to fully turn down the volume of your personal device before playing any audio out of your AED audio Flex 6 speaker to prevent hearing damage.



Linking multiple speakers

After successfully connecting your personal device to the AED audio speaker, you can now link up to 2 Flex 6 speakers to each other through Bluetooth. This can be achieved using the 'Master' and 'Slave' function in the Bluetooth menu.

Dante Bluetooth connectivity


AED audio speakers are Dante compatible. This means all the AED audio speakers can be used with Dante by just inserting a network cable. Easily patching audio over Dante from your mixing console to the speakers is achieved. You can also use Dante to link speakers to each other and have them play the same audio by just inserting a network cable into the speaker. This all works perfectly fine when the routing has been set up via Dante controller.

Knowing that the AED audio Flex6 speakers also have a Bluetooth option, it doesn't sound strange that a cross-connection could be made between the different ways of connection (Bluetooth, Dante, analog). When the incoming signal into your AED audio Flex 6 device is a Bluetooth signal, this can be sent to the mix-out and be sent via a network cable using Dante to then connect this speaker to another.

In the steps down below, there will be a detailed description of how to make this connection work using Dante controller and the settings of your AED audio Flex 6 speaker. We will start by explaining how to make a connection between two AED audio Flex 6 speaker via Dante and using network cables. After this the Bluetooth → Dante connection will be explained.

Connecting AED audio speakers using Dante controller

Step1: The first step to be made, after connecting your source (computer, mixing console...) to your AED audio speaker and to the Dante network, is to open Dante controller. When a speaker is connected to your source and the Dante network, you can find the speaker and the source on Dante controller (these will be called the 'Transmitters' and 'Receivers' in the Dante controller).

Step2: After discovering your transmitters and receivers, the next step is to make a connection between these two. This can be done by clicking in the boxes next to the devices that you want to have linked. When they are linked, a green check-mark will be shown to indicate that a connection has been made. 

Step3: The next thing to do is to simply connect the AED audio speakers you want to use to each other via the network ports on the speaker. They can then be discovered on Dante controller and in this way the same signal can be transmitted to all the AED audio speakers you connect in this way.

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

All rights reserved. No part of this manual may be copied or published by means of printing, photocopying, microfilm or otherwise without the prior written consent of the manufacturer. This restriction also applies to the corresponding drawings.

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.