



MINI FLEX5
USER MANUAL VERSION 2.0.2

THE AED AUDIO MINI FLEX5 MANUAL	4
INTRODUCTION.....	4
DISCLAIMERS.....	4
INTENDED USE	4
SYMBOL DESCRIPTION	5
<i>Symbols used</i>	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	8
MODIFICATION	8
OTHER SAFETY NOTES	9
<i>Installation and Placement</i>	9
<i>Cable Management</i>	9
<i>Electrical Safety</i>	9
<i>Use and Sound Pressure</i>	9
<i>Transport and Storage</i>	10
<i>Maintenance and Repair</i>	10
SYSTEM COMPONENTS.....	11
GENERAL CHARACTERISTICS AND TECHNICAL SPECIFICATIONS	11
<i>Technical data</i>	11
<i>Dimensions drawing</i>	12
RIGGING ELEMENTS	13
MINI FLEX5 – MOUNTING A SECOND SPEAKER.....	13
<i>Step 1: Prepare the Speaker Module</i>	13
<i>Step 2: Inspect the Rigging Hardware</i>	13
<i>Step 3: Extend the Upper Rigging Sliders</i>	13
<i>Step 4: Mount the Upper Speaker</i>	14
<i>Step 5: Adjust the Inter-Speaker Angle</i>	14
<i>Step 6: Perform a Rigging Safety Check</i>	15
<i>Step 7: Repeat for Additional Modules</i>	15
MINI FLEX5 – DIRECT HOOK MOUNTING SETUP	15
<i>Step 1: Remove the Factory-Installed Bolt</i>	15

Step 2: Mount the Lighting Hook 15

MINI FLEX5 – SINGLE OR RIGGING BRACKET MOUNTING SETUP 16

Step 1: Unpacking..... 16

Step 2: Preparing the Bracket 16

Step 3: Mounting the Bracket to the Cabinet..... 16

Step 4: Adjusting the Bracket Height..... 17

Step 5: Rigging to Truss..... 17

Step 6: Adjusting the Tilt and Pan 18

Step 7: Final Safety Check..... 18

TRANSPORTATION, HANDLING AND COMMISSIONING 19

TRANSPORTATION..... 19

STORAGE..... 19

REMOVE THE SHIPPING ASSEMBLY 19

TROUBLESHOOTING AND REPAIR..... 20

FAULT LIST 20

REPAIR 20

CONTACT DETAILS CERTIFIED REPAIR CENTER 20

NOTES 21

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THE AED AUDIO MINI FLEX5 MANUAL

INTRODUCTION

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 13/004, 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

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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.

	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. It's necessary to respect following rules.
	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.
	Risk of electric shock, do not open.

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.

INSTALLATION AND PLACEMENT

Do not place the speaker near heat sources, such as radiators, heaters, stoves, or other devices that produce heat.

Avoid exposure to moisture or liquids. Do not use the speaker near water.

Do not use aggressive cleaning agents or spray liquids directly on the speaker cabinet. Install the speaker on a stable and secure surface or use an approved speaker stand or rigging point. Avoid placing it on uneven or unstable surfaces.

CABLE MANAGEMENT

Only use high-quality, undamaged speaker cables with proper connectors.

Do not pinch, bend, or twist cables excessively. Avoid running cables under heavy objects or through tight spaces.

Route cables in a way that prevents tripping hazards and ensures they are not under tension.

Never pull on the cable to disconnect it. Always grip the connector when plugging or unplugging.

ELECTRICAL SAFETY

Only connect the speaker to compatible amplifiers. Ensure that the amplifier's output power matches the speaker's specifications.

Make sure the amplifier is powered off before connecting or disconnecting speaker cables.

Always check speaker cable polarity to avoid phase issues.

USE AND SOUND PRESSURE

Prolonged exposure to high sound levels can cause hearing damage. Use hearing protection when necessary and maintain a safe distance from the speaker.

Never leave the system unattended while in use, especially in public or crowded environments.

TRANSPORT AND STORAGE

Use protective covers or flight cases during transport to prevent damage.
Store the speaker in a dry, dust-free environment, ideally at room temperature.
Avoid drops or impacts during transport.

MAINTENANCE AND REPAIR

Maintenance or repairs should only be performed by qualified service personnel.
Do not use damaged equipment—regularly inspect the speaker and cabling for wear or faults.

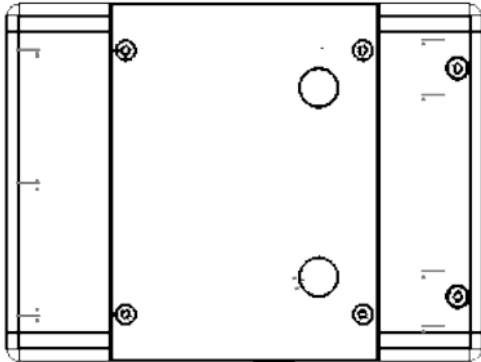
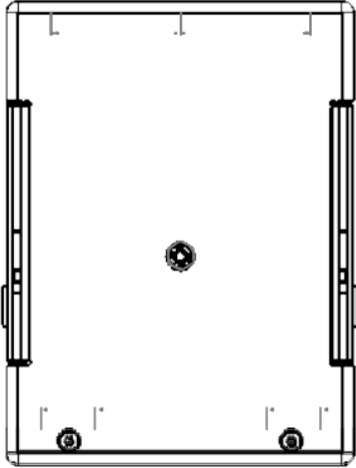
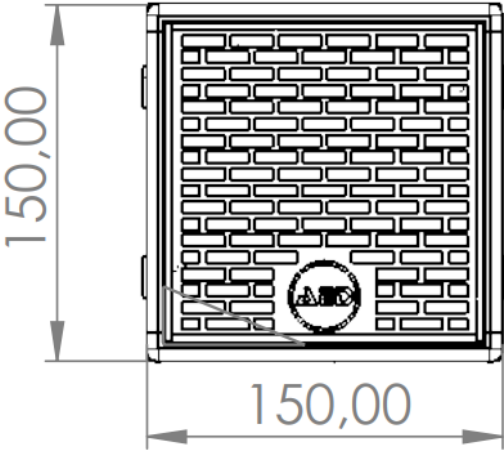
SYSTEM COMPONENTS

GENERAL CHARACTERISTICS AND TECHNICAL SPECIFICATIONS

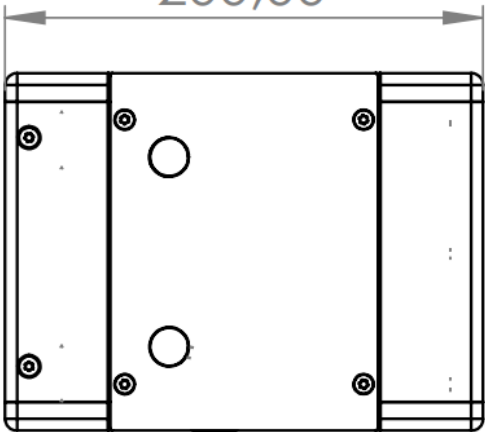
TECHNICAL DATA

Type	MINI FLEX5
Configuration	Multipurpose coax speaker
LF transducer	1x 5" Neodymium
HF transducer	1x 0,75" throat – 1,75" voice coil Neodymium
Frequency response -6 dB	120 Hz – 20 kHz
Frequency response -10dB	100 Hz – 20 kHz
Coverage angle	70° axisymmetric
Maximum rated SPL	122 dB
Nominal impedance	8 Ohm
Program power	150 W
Connectivity with passive back plate	2x Speakon NL4
Connectivity pin lay-out	Green: High + Black: High – Red: Mid + Black: Mid –
Enclosure	High-quality Baltic wood
Colour	Black (RAL9011) – White (RAL9016)
Grill	Powder coated aluminum – Internal lining
Dimensions (HxWxD)	150 x 150 x 200 mm 5.91 x 5.91 x 7.87 inch
Net Weight	4.7 kg – 10.36 lb
Attachment	Versatile proprietary rigging design – 1x M8 (on top) – 2x M6 (on side) – 1x 3/8 inch or 1x 3/5 inch (Microphone stand Thread)
Optional accessories	Single Bracket – Rigging Bracket

DIMENSIONS DRAWING



200,00



RIGGING ELEMENTS

MINI FLEX5 – MOUNTING A SECOND SPEAKER

STEP 1: PREPARE THE SPEAKER MODULE

Refer to the chapter “**Mounting a Back Plate on an AED Audio MINI FLEX5.**”
Ensure the back plate is correctly installed and secured on the speaker you intend to mount.

STEP 2: INSPECT THE RIGGING HARDWARE

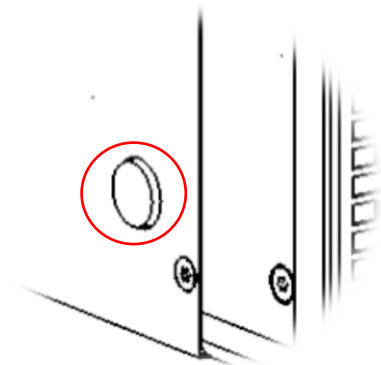
Perform a **visual inspection** of all rigging parts on both speakers:
Check for **damage, deformation, or cracks.**
Look for any **rust or corrosion** that could compromise mechanical strength.
Test that all **rigging push-buttons** operate smoothly and are not stuck.

► *Do not proceed if any defects are found. Replace or repair any damaged components before continuing.*

STEP 3: EXTEND THE UPPER RIGGING SLIDERS

On the **lower (already installed) speaker:**
Press both **rigging push-buttons** on the upper side of the speaker.
While pressing the buttons, **slide the rigging sliders outward** to the maximum position, which is set at **35°**

► *Ensure both sliders are extended equally.*



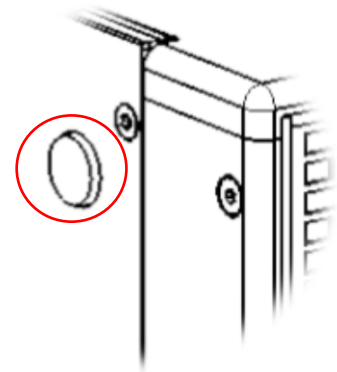
STEP 4: MOUNT THE UPPER SPEAKER

- Carefully lift the **MINI FLEX5 speaker with rigging sliders on 35°** and position it **on top of the NEW second speaker**.
- Press both **rigging push-buttons** on the top side of the lower speaker.
- Align the **sliders** of the lower speaker with the **rigging slots** on the bottom of the upper speaker.
- Lower the upper speaker into place, ensuring that the sliders **fit securely into the mounting slots**.

Once properly seated:

Release both rigging push-buttons so they lock into position.

► *Check visually that the rigging sliders are fully inserted into the mounting slots.*



STEP 5: ADJUST THE INTER-SPEAKER ANGLE

On the **upper speaker**:

Press the **two lower rigging push-buttons** to adjust the angle between the two speakers.

You can select one of the following angles:

0°

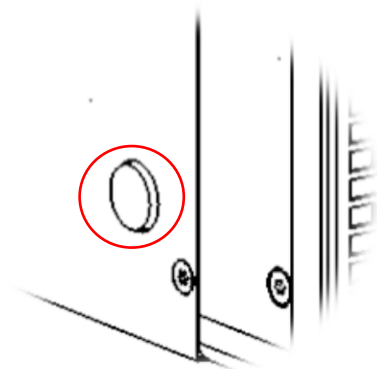
5°

10°

15°

Once the desired angle is set:

Release both push-buttons to lock the position.



► *Ensure both sides are adjusted to the same angle for balanced coverage.*

STEP 6: PERFORM A RIGGING SAFETY CHECK

Visually confirm that **all rigging push-buttons** are **flush with the speaker housing**. If any button protrudes, press and release it again until it sits flush.

Physically test the connection:

Carefully grasp the upper speaker and lift slightly to verify that it is securely locked to the lower unit.

▶ *Never proceed without confirming mechanical security.*

STEP 7: REPEAT FOR ADDITIONAL MODULES

- Repeat Steps 1 to 6 for any additional MINI FLEX5 modules you wish to add.
- The **maximum number of MINI FLEX5 speakers** allowed in a single vertical array is **four (4) units with using a Heavy Bracket**.

▶ *Exceeding this limit can compromise safety and system performance.*

MINI FLEX5 – DIRECT HOOK MOUNTING SETUP

STEP 1: REMOVE THE FACTORY-INSTALLED BOLT

Using a **5 mm Allen key**, remove the pre-installed **M8 x 25 mm bolt** from the threaded insert located on the top of the cabinet.

This bolt is temporarily installed to seal the acoustic enclosure during transport and must be removed prior to installing any rigging hardware.

▶ *Note: Keep the bolt for future use if the fixture will be used without a hook.*

STEP 2: MOUNT THE LIGHTING HOOK

- Position your **lighting hook (clamp)** over the mounting point.
 - Insert the **bolt (M8)** that you provide through the clamp and into the threaded insert on the speaker cabinet.
- ▶ **Technical Notes:**
- Always use a **plastic washer** (also called a nylon or polyamide washer) between the clamp and the speaker housing.
 - This prevents **mechanical damage** or paint chipping caused by direct metal-to-metal contact.
 - It also helps **distribute pressure** more evenly, avoiding stress points on the enclosure.

! Important:

In all configurations—regardless of whether a lighting hook is used—a bolt **must be present** in the threaded insert. Failure to do so can result in **air leakage**, which slightly affects the acoustic performance and may lead to unwanted noise.

MINI FLEX5 – SINGLE OR RIGGING BRACKET MOUNTING SETUP

STEP 1: UNPACKING

Remove all components from the packaging. This includes:

The **mounting bracket**

► *The back plate should already be installed according to the instructions under the section “Installing back plate on a cabinet.”*

STEP 2: PREPARING THE BRACKET

Attach a **lighting hook/clamp** to the bracket or omega bracket.

► *The hook is **not** included in the standard packaging and must be purchased separately.*

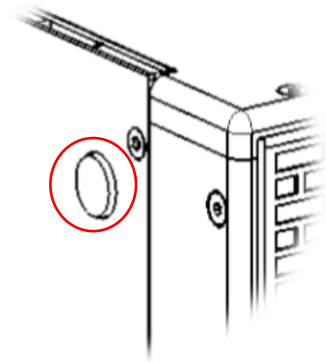
- Use an appropriate **bolt and lock nut** to secure the clamp to the bracket.
 - Ensure all components are tightened securely using the proper tools (e.g., wrench or socket set).
-

STEP 3: MOUNTING THE BRACKET TO THE CABINET

Insert the bracket into the **two rigging slots** located at the top of the cabinet.

- While inserting the bracket, **press and hold the two upper push-buttons** to allow the bracket to click and lock into place.
- Once the bracket is fully inserted, **release the buttons**.

! *Important: Always double-check that the bracket is securely locked to the MINI FLEX5. If it is not properly attached, repeat this step.*



STEP 4: ADJUSTING THE BRACKET HEIGHT

Once the Single bracket is mounted:

- Use the **two star knobs** on the sides to adjust the **vertical distance** between the speaker and the bracket.
- In **down-firing** or **“shower” configuration**, make sure the bracket is set to the **lowest mounting hole**.

Once the Rigging bracket is mounted:

- You can now use the **Omega Bracket** to define the **vertical inclination** of the speaker.
- By repositioning the Omega Bracket to a different mounting point on the Yoke or structure, you effectively **change the vertical angle** of the speaker cabinet, allowing for precise aiming toward your audience or coverage area.
- Ensure all locking mechanisms are securely fastened after adjustment to guarantee safe and stable operation.

► *Always double-check alignment and load distribution before finalizing the rigging configuration.*

STEP 5: RIGGING TO TRUSS

With all previous steps completed and verified:

- You can now safely **lift and mount the MINI FLEX5** onto your truss system using the attached clamp.
- Ensure that a **certified safety cable** is also used as a secondary securing measure.

STEP 6: ADJUSTING THE TILT AND PAN

- Loosen the **tilt knobs** to set the desired angle.
 - Use a **goniometer or laser level** for precise positioning if necessary.
 - Retighten securely to lock the orientation.
-

STEP 7: FINAL SAFETY CHECK

Confirm that:

- All rigging hardware is **tight and secure**.
- Safety cable is **properly attached**.
- No part of the fixture is under stress or twisted.
- No one is underneath the fixture during testing.

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.

- Avoid exposing the product to rain, humidity, or direct sunlight during transport.
- When transporting multiple units, ensure each unit is properly secured to prevent movement or impact.
- If flight cases are used, ensure that the inside is dry and free from moisture before closing.

STORAGE

When the product is not in use, store it in a dry, clean, and temperature-controlled environment.

- Avoid storing the unit in damp or humid areas.
- Never store the unit while it is wet — always let it dry completely before placing it in a case or packaging.
- Keep away from dust, vibration, and direct heat sources.

REMOVE THE SHIPPING ASSEMBLY

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

- 1x AED Audio MINI FLEX5

Remove the tape from the box and open it carefully. Take the unit out of the box and remove the protective wrapping. Perform a visual inspection of the unit.

Check the overall condition while unpacking — if any damage is detected, **do not operate the unit**. The product must be repaired or replaced before use. Please contact your local distributor for service. AED Audio cannot be held liable for any damage, risk, or danger caused by using a damaged unit.

For transportation and storage, AED Audio strongly recommends using **dedicated flight cases** designed specifically for the MINI FLEX5 to ensure maximum protection and longevity of your system.

TROUBLESHOOTING AND REPAIR

FAULT LIST

Problem	Fault message	Solution
The unit will not turn on.	n/a	<ul style="list-style-type: none">▪ Connect the power plug to the outlet▪ Turn on the device with the on/off switch

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

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

NOTES

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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.