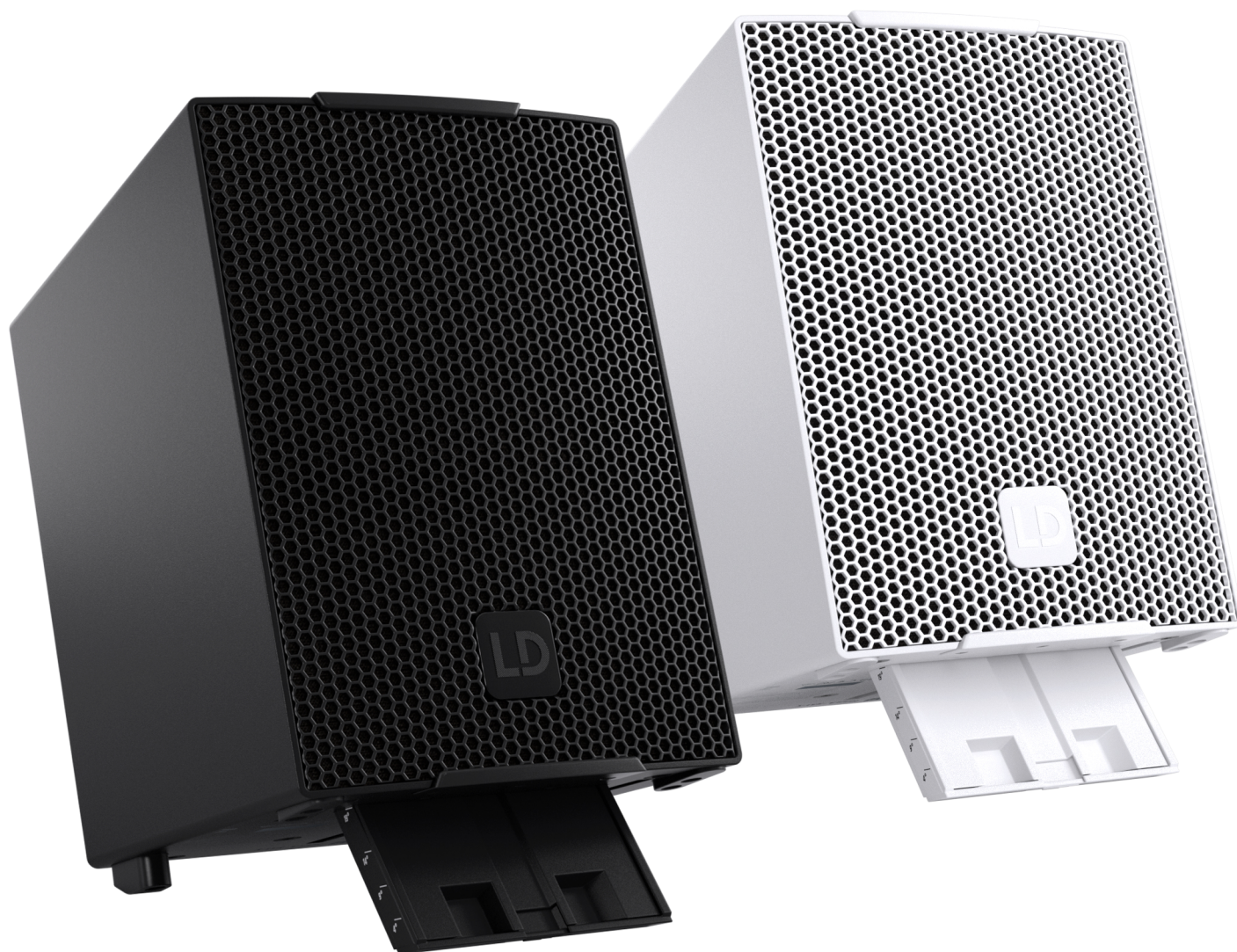




MAILA[®] SAT X

PASSIVE NEARFILL OR ARRAY SATELLITE SPEAKER

LDMAILSATX(W);

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1 DOCUMENT VERSION AND REVISIONS

Version	Date	Implemented changes
V1.0	05/2026	Original version

2 INTRODUCTION

2.1 YOU MADE THE RIGHT CHOICE!

This product has been developed and manufactured to the highest quality standards to ensure many years of problem-free operation. Find further information about LD Systems on our website:

<https://www.ld-systems.com/>

2.2 CONTACTS

	Adam Hall GmbH Headquarter	Customer Service
E-mail	info@adamhall.com	customerservice@adamhall.com
Phone	+49 6081 9419-0	+49 6081 941973-0
Street	Adam-Hall-Str. 1	Adam-Hall-Str. 1
Postal code / city	61267 Neu-Anspach	61267 Neu-Anspach
Website	www.adamhall.com	www.adamhall.com

2.3 LINK TO THE DOWNLOAD CENTRE

You can download some information, such as CAD data or technical data, from the Download Centre. Scan the QR code or click the link to download this information:



MAILA SAT X



MAILA SAT X W

2.4

VISUALISATION CONVENTIONS IN THIS USER MANUAL

In this manual we use graphical symbols and icons in certain contexts. Find below a table with explanations and use cases of the graphical symbols and icons.

Icon / Symbol	Designation	Context	Explanation / Example
✓	Prerequisite	Tasks	Used in task topics to indicate a prerequisite that must be met before beginning the task.
⇒	Result / Intermediate Result	Tasks	Used in task topics to indicate a result or intermediate result of an action step.
1 Step a) Substep	1 Action Step a) Substep	Tasks	Used in task topics to indicate action steps and substeps.
1	Callout	Graphics; tasks	Text-image reference or labeling of certain functions on the device
[...]	Value range indicator	Technical data; paragraphs; lists	Indicates the range of a value, such as "Compressor ratio: 1:1...20:1 ". Mostly used in tables or callouts.
*	Asterisk	Paragraphs; tables	Indicates additional information in a footnote.
The LIM LED lights up	General User Interface element	Paragraphs; tasks; tables; lists	The words presented in this way represent graphic user interface elements on the device.
PAGE button	Key / Button	Paragraphs; tasks; tables; lists	The words presented in this way represent user interface controls on the device.
<name>	User input	Paragraphs; tasks; tables; lists	The words presented in this way represent required user inputs.
<u>https://adamhall.com</u>	Weblink	Paragraphs; tables; lists	External link to a website

3 PRODUCT COMPLIANCE

3.1 MANUFACTURER'S DECLARATION

Adam Hall offers a voluntary, EU-wide manufacturer's guarantee of 2 years. The statutory warranty period is not affected by this voluntary guarantee.

Visit the Adam Hall Service Portal to access the **Download Centre**:

<https://portal.adamhall.com/>

Under the **Service & Regulations** section, you find our current detailed manufacturer's declarations, warranty conditions, and limitation of liability.

To request warranty for a product, please contact:

Adam Hall GmbH, Adam-Hall-Str. 1, 61267 Neu-Anspach

customerservice@adamhall.com

0049 (0)6081 / 9419-1000

3.2 DECLARATION OF CONFORMITY

UK
CA

Hereby, Adam Hall Ltd. declares that this product meets the following guidelines (where applicable)

- Electrical Equipment (Safety) Regulations 2016
- Electromagnetic Compatibility Regulations 2016 (SI 2016/1091)
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulation 2012 (SI 2012/3032)
- Radio Equipment Regulations 2017 (SI 2016/2015)

Products that are subject to Electrical Equipment(Safety)Regulation 2016, EMC Regulation 2016 or RoHS Regulation can be requested at info@adamhall.com. Products that are subject to the Radio Equipments Regulations 2017 (SI2017/1206) can be downloaded at <http://www.adamhall.com/compliance>.

FCC STATEMENT



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

⚠ CAUTION! RF Exposure Information: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

⚠ CAUTION! Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

4 SAFETY INSTRUCTIONS

4.1 INTENDED USE

The **MAILA SAT X** is a passive nearfill or array satellite loudspeaker, intended as sound reinforcement.

This product has been developed for the professional use in the field of event technology. Furthermore it is intended for qualified users with specialist knowledge of event technology only.

This product is intended for both mobile applications and fixed installations.

This product is intended for indoor use only.

This product is not suitable for domestic use.

Do not use the product outside the operating conditions as stated in the user manual under Technical Data. Liability for damage and third-party damage to persons and property due to inappropriate use is excluded.

This product is not suitable for children and persons with limited physical, sensory, or mental capabilities or lack of experience and knowledge.

4.2 EXPLANATION OF SAFETY AND WARNING SYMBOLS

Find the following safety and warning symbols on the device, the user manual, or the packaging:



This symbol indicates that you must read the complete user manual before using the product.



This symbol indicates a general hazardous situation.



This symbol indicates tripping hazards.



This symbol indicates high sound pressure levels.



This symbol indicates pinching hazards.



This symbol indicates hazards due to overhead loads.



This symbol indicates that the product is for indoor use only.



This symbol indicates that the product is not suitable for household use.



This symbol indicates helpful hints or additional information.

4.3

STRUCTURE OF WARNING MESSAGES

In this user manual, warning messages are structured with a safety symbol, a signal word, a hazard description, and instructions on how to avoid injuries or death.

**DANGER**

Indicates a hazardous situation which will result in death or serious injury.

**WARNING**

Indicates a hazardous situation which could result in death or serious injury

**CAUTION**

Indicates a hazardous situation which could result in minor or moderate injury.

**NOTICE**

Indicates situations or conditions that could result in damage to property and/or the environment.

4.4

GENERAL SAFETY



- Read this document carefully.



- Keep this document for later reference.



- Follow closely the instructions in this document.
- This document is an integral part of the product. If you sell or pass on the product, you must include this document.
- Only use this product according to its intended use.
- Risk of choking. Keep small parts away from children and individuals with impaired physical, sensory, or mental capabilities.
- Risk of suffocation. Keep plastic bags away from children and individuals with impaired physical, sensory, or mental capabilities.
- Observe all safety instructions and warning messages in this document, on the device, and on the packaging.
- Products are subject to continuous further development. If you find discrepancies between this document and the product labeling, the information on the product always takes priority.
- Do not remove safety instructions or warning messages from the product.
- Do not open the device.
- Do not modify the product.
- If the product shows any sign of damage, do not use it.
- Do not operate the product with removed or missing covers.

- Do not expose the product to direct sunlight.
- If not further specified in the user manual under Technical Data, do not use the product in ambient temperatures that exceed 40 °C / 104 °F or fall below 0 °C / 32 °F
- Unless otherwise stated, do not use the product under marine conditions.
- Use only accessories specified by the manufacturer.
- Maintenance and repairs may only be carried out by authorized service personnel.
- Store and transport the product in a dry and safe environment.
- Clean the product on a regular basis. If applicable, see the user manual for maintenance intervals.
- High sound pressure levels may cause hearing damage. Avoid prolonged exposure to high sound pressure levels. Wear hearing protection.
- Risk of hearing damage. Plugging or unplugging devices in the signal chain may cause an audio signal peak. Switch on the loudspeaker as the last device in the signal chain.
- Risk of hearing damage. Switching on or off other devices in the signal chain may cause an audio signal peak. Switch on the loudspeaker as the last device in the signal chain.

4.5

PHYSICAL SAFETY



- Make sure that all mounting connections are adequately dimensioned. Observe the relevant regional safety guidelines when mounting the device.



- Make sure that the device and any accessories are securely positioned. Secure against unintentional movement.



- Check all load-bearing screw connections regularly and replace them if necessary.
- Check all cable routes to prevent tripping accidents.



- Moving components, such as mounting brackets, pose a risk of pinching injuries.

5 PRODUCT DESCRIPTION

5.1 PRODUCT OVERVIEW

The **LD Systems MAILA SAT X** is a passive nearfill or array satellite loudspeaker.

FEATURES

- Hybrid passive point/line-source loudspeaker
- Use standalone as nearfill, or as the first element in flown/ground-stacked arrays
- Automatic vertical pattern switching: nearfill 40° / array 8°
- Advanced **WaveAhead®** technology with coaxial driver array + passive membrane for extended low-mid response
- 5 × 1" titanium tweeter and 1 × 6.5" woofer with **SonicGuide®** waveguide
- Frequency response: 100 Hz – 20 kHz
- Truss mounting with optional **EasyMount+®** adapter
- Integrated pull-out tilt stand: 4°, 9°, 14° and 19°
- **SmartLink+®** enables cable-free connection to **MAILA SAT X** satellites (up to eight)
- **SpeakON®** I/O for daisy-chaining up to four **SAT X** in nearfill setups
- Identification LED for individual speaker identification
- Unibody aluminium housing

5.2 PRODUCT VARIANTS

The **MAILA® SAT (X)** is available in 4 variants:

- **MAILA® SAT** - Passive Array Satellite Speaker
- **MAILA® SAT W** - Passive Array Satellite Speaker, white
- **MAILA® SAT X** - Passive Nearfill or Array Satellite Speaker
- **MAILA® SAT X W** - Passive Nearfill or Array Satellite Speaker, white

5.3

OPTIONAL ACCESSORIES

Find various accessories for your product in the Adam Hall Shop:

<https://www.adamhall.com/shop>

Accessory	Article Number
MAILA EasyMount+® Truss / shackle bracket for MAILA SPA and MAILA COL	LDMAILATMB
MAILA WALL MOUNT Wall Mount for MAILA SPA & SAT X	LDMAILAWALLMOUNT
MAILA CEILING MOUNT Ceiling Mount for MAILA SPA & SAT X	LDMAILACEILINGMOUNT
MAILA DB Speaker pole for MAILA SPA	LDMAILADB
MAILA POLE ADAPTER Pole Adapter for MAILA SPA & SAT X	LDMAILAPOLEADAPTER
MAILA M20 ADAPTER M20 Adapter for MAILA SPA & SAT X	LDMAILAPOLEADAPTER
MAILA BAG Padded carrying bag for MAILA SPA & MAILA SAT	LDMAILABAG
MAILA ARRAY RC M Rain cover for MAILA COL + 4 MAILA SAT	LDMAILAARRAYRCM

5.4 TECHNICAL DATA

GENERAL

Parameter	Value
Type	Passive
Max. SPL peak (sine burst, fullspace/1 m, THD≤10 %)	125 dB
Max. SPL peak (pink noise, fullspace/1 m, CF 4)	129.5 dB
Max. SPL average (sine burst, BW, fullspace/1 m, THD≤10 %)	114 dB
Frequency response (-6 dB, rel. Avg.)	100 Hz ... 20,000 Hz
Impedance Low Frequency	16 Ω
Impedance High Frequency (Line Source)	32 Ω
Impedance High Frequency (Point Source)	8 Ω
Speaker system	2-way system
Number of inputs	2
Number of outputs	1
Flange	MAILA Pole Mount - 8° angled
Colour LDMAILASATX	Black
Colour LDMAILASATXW	White

BASS DRIVER

Parameter	Value
Size	6.5"
Manufacturer	Custom Made
Magnet	Neodymium
Voice coil	1.8"

TWEETER

Parameter	Value
Driver size	1"
Quantity	5

HOUSING

Parameter	Value
Design	Bass reflex
Number of handles	1
Cabinet material	Aluminium
Coating	Powder coated

ENVIRONMENTAL

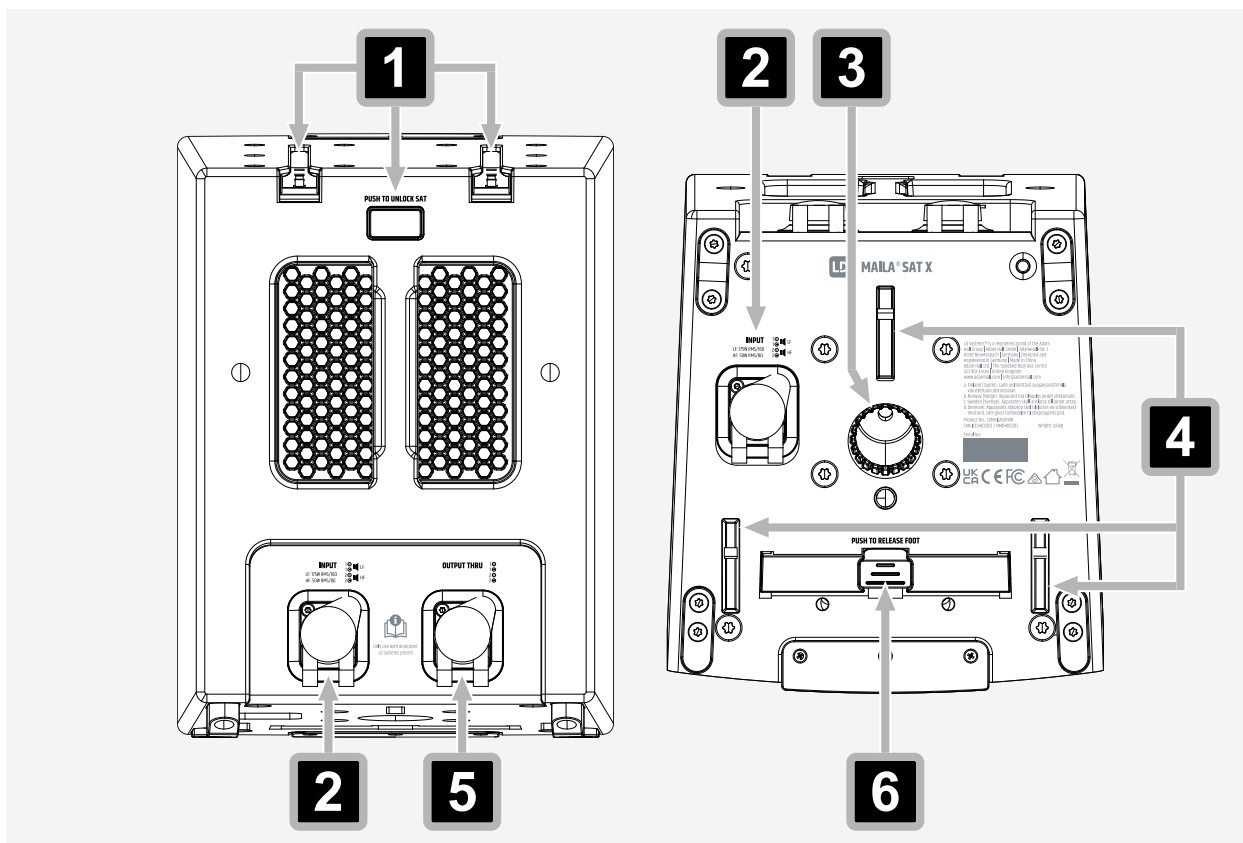
Parameter	Value
Ambient temperature	0 °C ... 40 °C
Maximum air humidity (non-condensing)	80 %

DIMENSIONS AND WEIGHT

Parameter	Value
Width	205 mm
Height	283 mm
Depth	229 mm
Weight	8.4 kg

5.5

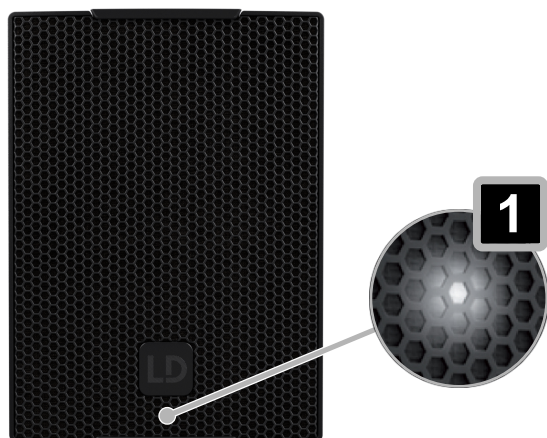
REAR AND BOTTOM OVERVIEW



- 1 Locking System** - Locks the upperlying satellite loudspeaker. Press the release button to unlock it.
- 2 INPUT** - 4-pole speakon-compatible input connector.
Pins 1+ and 1- – Low Frequency (LF)
 175 W RMS / 16 Ω
Pins 2+ and 2- – High Frequency (HF)
 Point-source – No satellite attached: 50 W RMS / 8 Ω
 Line-source – Satellite(s) attached: 50 W RMS / 32 Ω
! NOTICE! Make sure that either only the input on the rear or the input on the bottom is connected to an amplifier, never both.
- 3 MAILA Pole Mount** - Flange (8° angled) for mounting the **MAILA SAT X** on the **MAILA** speaker pole or using the **MAILA** adaptors
- 4 Fixing Points** - Fixing points for attaching the **MAILA EasyMount+®**
- 5 OUTPUT THRU** - 4-pole speakon-compatible output connector. Direct pass-through of all pins connected to the input.
- 6 Pull-out tilt stand** - Tilttable stand for near-field or point-source applications (4°, 9°, 14° and 19°)

5.6

IDENTIFICATION LED



Activate an LED on the front **1** for easy identification of the device when configuring with a dedicated **LD Systems** preset in **ArmoníaPlus (A+)**.

6 PREPARATION

6.1 SCOPE OF DELIVERY

- Device
- Mains power cable
- Safety Compliance Information
- Rail cover

6.2 RAIL COVER

To prevent contamination and contact with the terminals, the rail cover supplied must be fitted during operation.

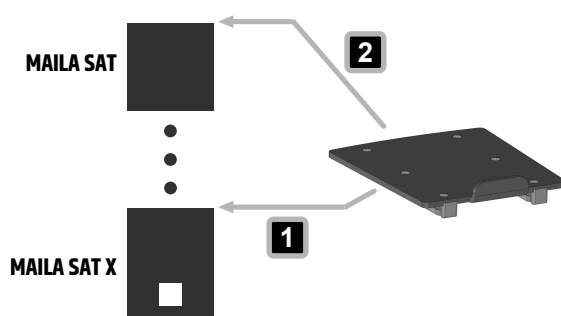


WARNING

Amplifier Voltage

Risk of electric shock from exposed contacts in the rails

- Do not operate or connect the device unless the rail cover is fitted.



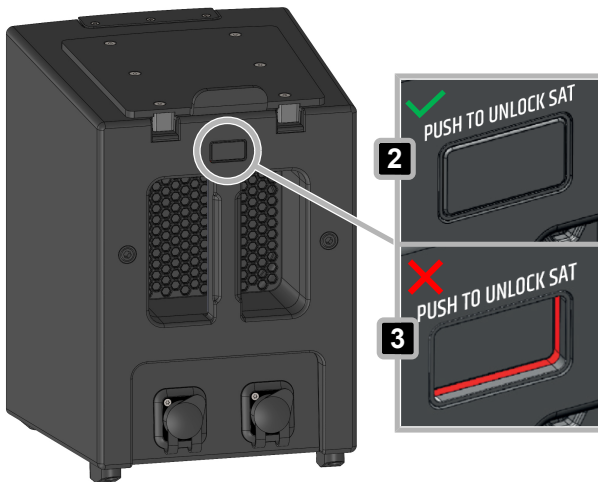
Attach the rail cover to the device itself **1** or to the last **MAILA SAT** in the configuration **2** before connecting the device to an amplifier.

6.2.1 ATTACHING THE RAIL COVER

The following description explains how to attach the rail cover to the device. The procedure for attaching it to the **MAILA SAT** as part of a configuration is identical.



- Slide the rail cover as far as possible onto the device. **1**



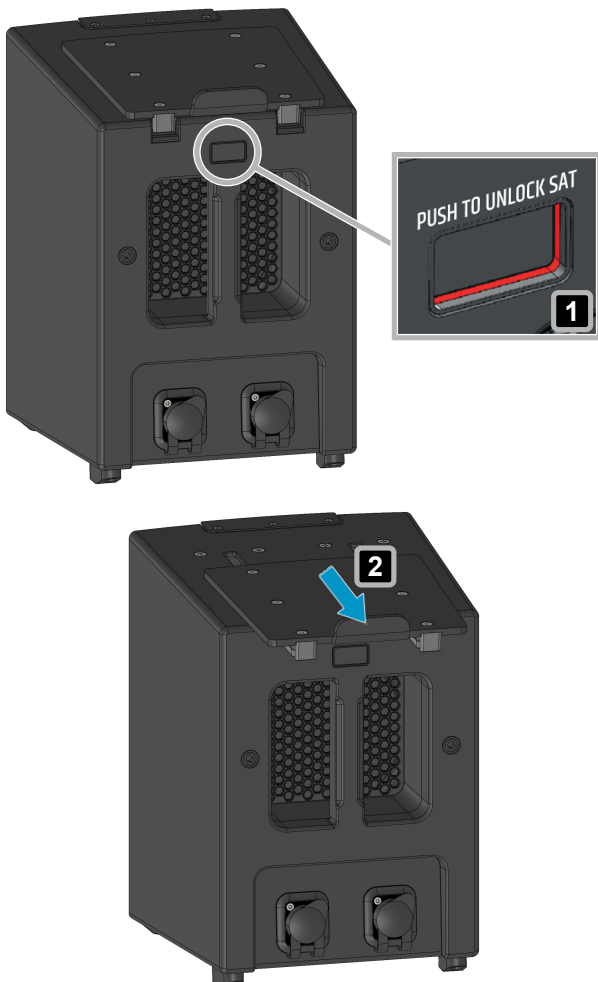
2 Make sure that the rail cover snaps correctly into the rails of the device.

⇒ The release button of the locking system is correctly engaged and form a level surface with the enclosure. 2

⇒ The red mark is not visible. 3

6.2.2 DETACHING THE RAIL COVER

The following description explains how to detach the rail cover from the device. The procedure for detaching the rail cover from the **MAILA SAT** as part of a configuration is identical.



1 Press and hold the release button of the locking system. 1

2 Pull the rail cover backwards. 2

7 INSTALLATION

7.1 MAILA EASYMOUNT+

7.1.1 ATTACHING THE MAILA EASYMOUNT+®

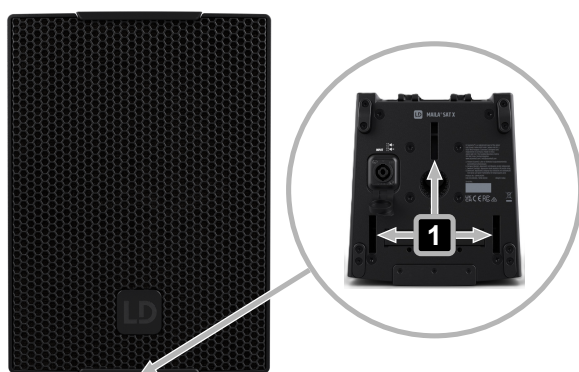


WARNING

Falling object

Risk of serious injury

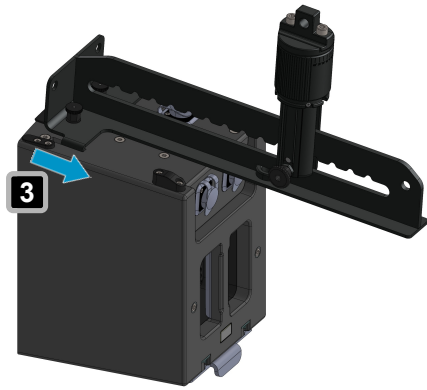
- a. Observe all regional safety regulations concerning overhead loads.
- b. Make sure that the device is securely mounted.
- c. Make sure that the mounting accessory supports the weight of the device.
- d. Before any assembly, check that all mounting bracket components are complete, undamaged and work correctly.



The fixing points for attaching the **MAILA EasyMount+®** **1** are located on the bottom of the loudspeaker.



- 1** Insert all 3 steel hooks of the **MAILA EASYMount+®** into the corresponding retaining sockets. **2**



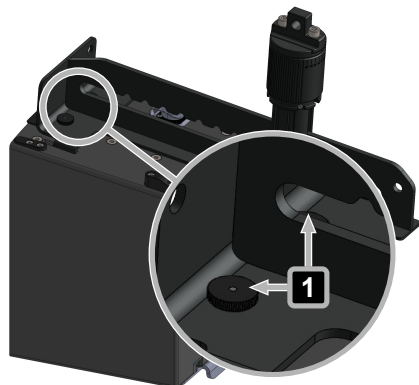
- 2 Slide the **MAILA EASYMount+®** towards the rear of the housing. **3**



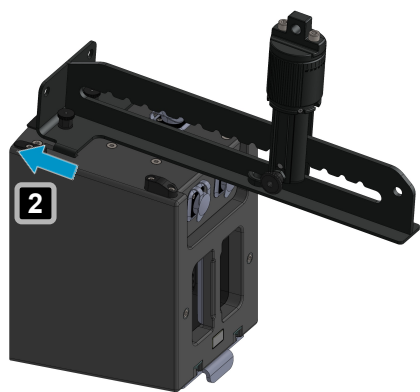
- ! NOTICE!** Make sure that the spring-loaded locking pins **4** engage fully.

See also:
Optional Accessories [14]

7.1.2 DETACHING THE MAILA EASYMOUNT+®



- 1 Pull out both spring-loaded locking pins **1** simultaneously and hold them.



- 2** Slide the **MAILA EASYMount+®** towards the front of the housing. **2**



- 3** Lift the **MAILA EASYMount+®** upwards. **3**

7.2

ATTACHING THE MAILA WALL MOUNT



WARNING

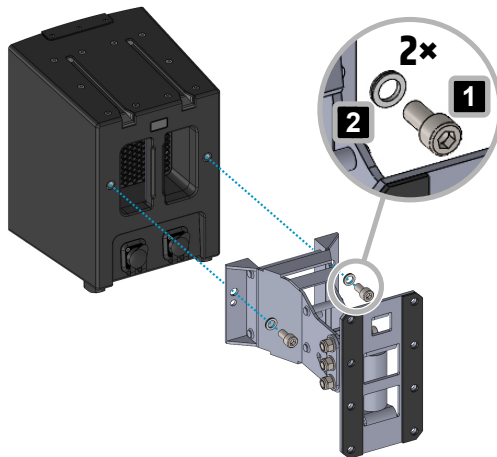
Falling object

Risk of serious injury

- Observe all regional safety regulations concerning overhead loads.
- Make sure that the device is securely mounted.
- Make sure that the mounting accessory supports the weight of the device.
- Before any assembly, check that all mounting bracket components are complete, undamaged and work correctly.



- 1 Remove the 2 hex socket plugs.



- 2 Align the mount with the 2 threads.
- 3 Screw in the 2 M8 screws **1** with the washers **2**.

See also:
Optional Accessories [14]

7.3

ATTACHING THE MAILA CEILING MOUNT

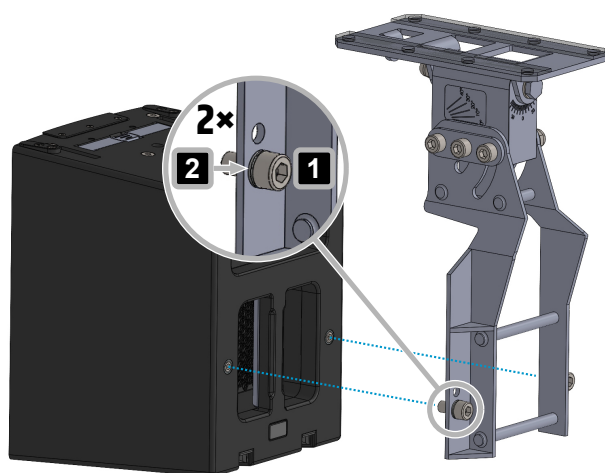
**WARNING****Falling object**

Risk of serious injury

- a. Observe all regional safety regulations concerning overhead loads.
- b. Make sure that the device is securely mounted.
- c. Make sure that the mounting accessory supports the weight of the device.
- d. Before any assembly, check that all mounting bracket components are complete, undamaged and work correctly.



- 1** Remove the 2 hex socket plugs.



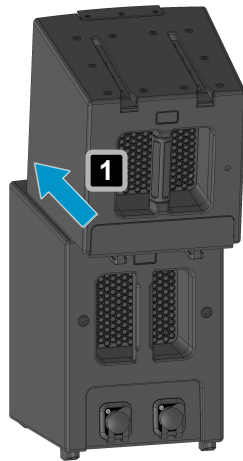
- 2** Align the mount with the 2 threads.
- 3** Screw in the 2 M8 screws **1** with the washers **2**.

See also:
Optional Accessories [14]

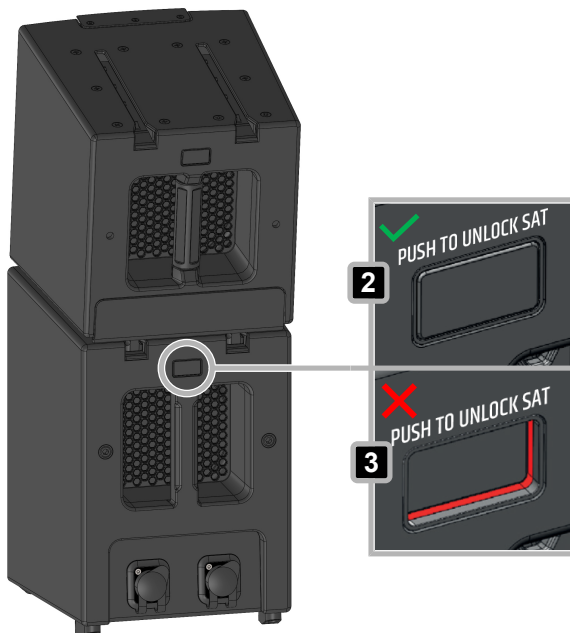
8 OPERATION

8.1 MAILA SAT SETUP

8.1.1 ATTACHING A MAILA SAT

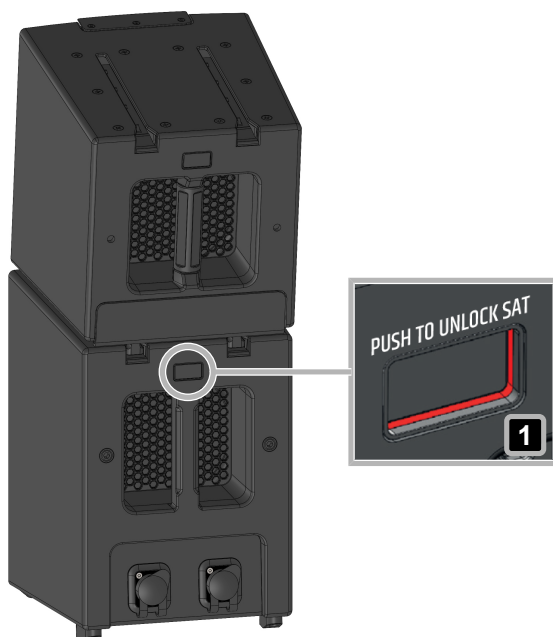


- 1 Slide the **MAILA SAT** as far as possible onto the **MAILA SAT X**. **1**

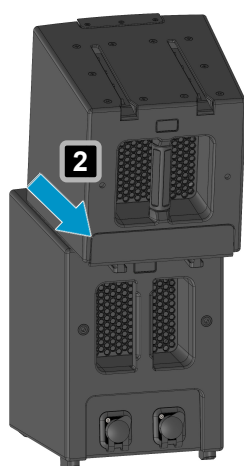


- 2 Make sure that the two guide rails of the **MAILA SAT** snap correctly into the grooves of the **MAILA SAT X**.
 - ⇒ The release button of the locking system is correctly engaged and form a level surface with the enclosure. **2**
 - ⇒ The red mark is not visible. **3**

8.1.2 DETACHING A MAILA SAT



- 1 Press and hold the release button of the locking system. **1**



- 2 Pull the **MAILA SAT** backwards by the handle. **2**

8.2 POWER AMPLIFICATION

8.2.1 COMPATIBLE AMPLIFIERS

All components of the **MAILA Passive** series are designed for use with the following amplifiers.

Amplifier	Article Number
ADA 8 K4 4-channel amplifier with DSP & DANTE® - 4 × 2,000 W @ 4 Ω	LDADA8K4
ADA 12 K4 4-channel amplifier with DSP & DANTE® - 4 × 2,700 W @ 4 Ω	LDADA12K4



The use of amplifiers offered directly by Powersoft is also possible, as long as the specifications of the amplifier and loudspeaker match.

8.2.2 CONFIGURATION VIA ARMONIAPLUS (A+) BY POWERSOFT

8.2.2.1 DOWNLOADING ARMONIAPLUS (A+) BY POWERSOFT



Configure your **MAILA Passive** system via **ArmoniaPlus (A+)** by **Powersoft**. Download **A+** on the manufacturers website.

8.2.2.2 DOWNLOADING AMPLIFIER MODELS AND LOUDSPEAKER PRESETS

In **ArmoniaPlus (A+)** download the corresponding amplifier model in the **Marketplace**.

Amplifier	Amplifier Model
ADA 8 K4	LD Systems ADA 8K4 Model
ADA 12 K4	LD Systems ADA 12K4 Model

To add **MAILA** loudspeaker models to the **A+** workspace, download the **LD Systems Speaker's Presets** in the **Marketplace**.

8.2.2.3 ARMONIAPLUS PRESETS MAILA SAT X + SAT

The following presets are available for the **MAILA SAT X**.

Application	Number of Amp Channels	Channel Naming
1 x SAT + SAT X FLY	2	LF HF
1 x SAT + SAT X GND	2	LF HF
2 x SAT + SAT X FLY	2	LF HF
2 x SAT + SAT X GND	2	LF HF
3 x SAT + SAT X FLY	2	LF HF
3 x SAT + SAT X GND	2	LF HF
4 x SAT + SAT X FLY	2	LF HF
5 x SAT + SAT X FLY	2	LF HF
6 x SAT + SAT X FLY	2	LF HF
7 x SAT + SAT X FLY	2	LF HF
8 x SAT + SAT X FLY	2	LF HF
SAT X	2	LF HF

8.3 LOUDSPEAKER SETUPS

8.3.1 MAXIMUM GROUND STACKING CONFIGURATIONS

To prevent speaker configurations from tipping over in ground stacking operation, observe the maximum permissible configurations.



The same maximum configurations applies when using multiple subwoofers.

8.3.1.1 MAXIMUM CONFIGURATION - MAILA SUB 15 P WITH SPEAKER POLE

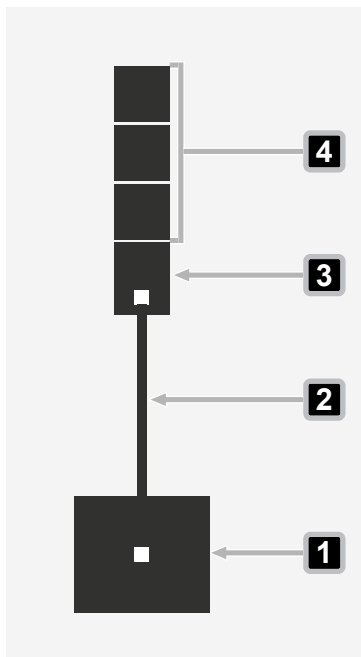


WARNING

Tipping object

Risk of serious injury

- Observe all regional safety regulations.
- Observe the maximum permissible configurations.
- Make sure that the device is securely positioned on a level surface.



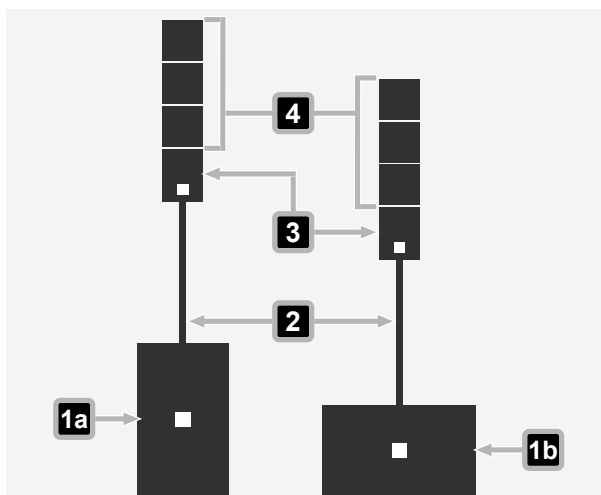
- 1** MAILA SUB 15 P
- 2** MAILA DB - Speaker pole for MAILA SPA
- 3** MAILA SAT X
- 4** Maximum 3 × MAILA SAT

8.3.1.2 MAXIMUM CONFIGURATION - MAILA SUB P WITH SPEAKER POLE

**WARNING****Tipping object**

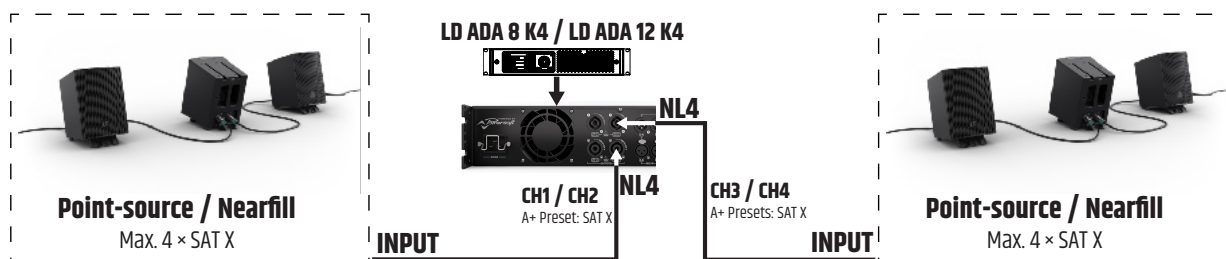
Risk of serious injury

- a. Observe all regional safety regulations.
- b. Observe the maximum permissible configurations.
- c. Make sure that the device is securely positioned on a level surface.

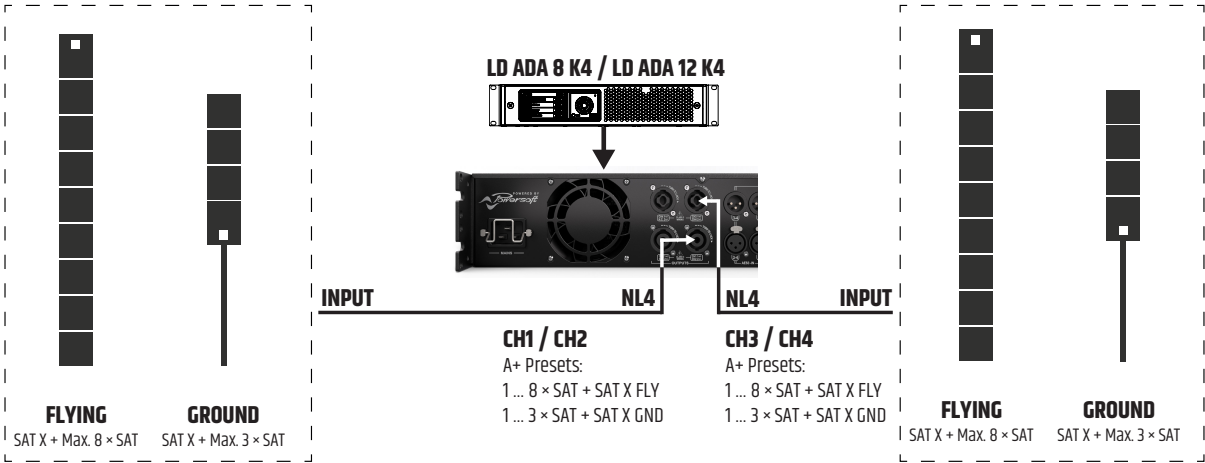


- 1a** MAILA SUB P upright
- 1b** MAILA SUB P sideways
- 2** MAILA DB - Speaker pole for MAILA SPA
- 3** MAILA SAT X
- 4** Maximum 3 × MAILA SAT

8.3.2 POINT-SOURCE / NEARFILL APPLICATION WITH THE MAILA SAT X



8.3.3 STEREO SETUP WITH MAILA SAT X AND MAILA SAT



9 MAINTENANCE

9.1

PRODUCT MAINTENANCE



NOTICE

Damage to the device and void of warranty

- a. Do not use cleaning agents, disinfectants, alcohol, or agents with abrasive effect for cleaning.

Carry out the maintenance measures listed below on a regular basis. The frequency of cleaning depends on the environment in which you use the product. Damp or dirty environments may cause increased soiling and wear.

VISUAL INSPECTION

Check the following points before operating the device.

- Check all outside screws and covers for corrosion, damage or excessive wear.
-  **WARNING! Risk of falling objects.** Check that all screws, fasteners, and rigging points are securely tightened.

CLEANING

- Clean the surface with a clean and damp lint-free cotton cloth. Wipe off all excess moisture.

9.2

STORING THE DEVICE

Store the device only in a dry and clean environment. If you are storing the individual components of the device, use special protective covers, bags, and cases. Find such accessories for your product in the Adam Hall Shop (<https://www.adamhall.com/shop>).

10 DISPOSAL

10.1

PACKAGING DISPOSAL



1. You can feed the packaging into the reusable material cycle using the usual disposal methods.
2. Separate the packaging in accordance with the applicable disposal laws and recycling regulations in your country

10.2

DEVICE DISPOSAL



1. This device is subject to the European Directive on Waste Electrical and Electronic Equipment, as amended. WEEE Directive Waste Electrical and Electronic Equipment. Old appliances do not belong in the household waste. The old device must be disposed of via an approved disposal company or a municipal disposal facility. Observe the applicable regulations in your country.
2. Observe all disposal laws applicable in your country.
3. As a private customer, you can obtain information on environmentally friendly disposal options from the seller of the product or the appropriate regional authorities.
4. Retailers are often legally obliged to take back items free of charge.
5. Old appliances that contain harmful substances are labelled with the symbol of a crossed-out dustbin.
6. Current information on the collection rate can be found at the following website:
<https://environment.ec.europa.eu/>. Search for the following term: waste-electrical-and-electronic-equipment-weee.

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