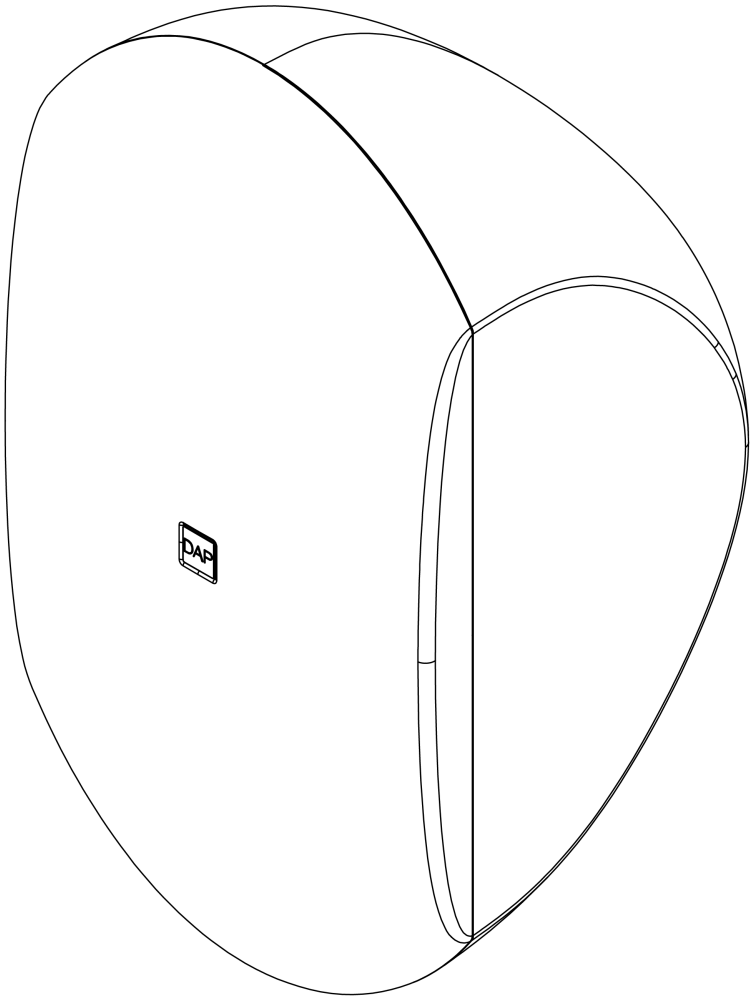
DAP

USER MANUAL

ENGLISH

V1.0



WMS8-W 16 Ohm (White)

Product code: D3845

Preface

Thank you for purchasing this DAP product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Intended and non-intended use of the device
- Installation and operation of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

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Design and product specifications are subject to change without prior notice.

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Highlite International B.V. – Vestastraat 2 – 6468 EX Kerkrade – the Netherlands

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1. Introduction

1.1. Before Using the Product

Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

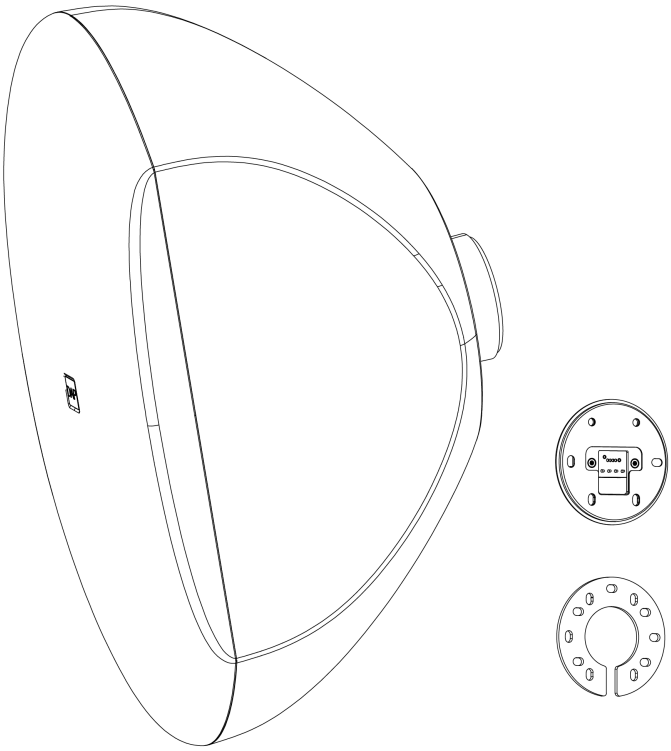
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the boxes. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

- WMS8-W 16 Ohm (White)
- Mounting plate
- Mounting screw
- Rubber gasket
- User manual

Figure 1



1.2. Intended Use

This device is intended for professional use as a wall mount speaker. It can be installed indoors and outdoors. This device is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. Text Conventions

Throughout the user manual the following text conventions are used:

- References: References to parts of the device are in bold lettering, for example: "turn the **adjustment handle (05)**". References to chapters are hyperlinked
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.4. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.



DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.



Attention Indicates important information for the correct operation and use of the product.



Important Read and observe the instructions in this document.



Provides important information about the disposal of this product.

1.5. Symbols on the Information Label

This product is provided with an information label. The information label is located on the side of the device.

The information label contains the following symbols:



This device shall not be treated as household waste.



Read and follow the instructions in the user manual before installing, operating or servicing the device.

2. Safety



Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

2.1. Warnings and Safety Instructions



DANGER
Danger for children

For adult use only. The device must be installed beyond the reach of children.

- Do not leave any parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within the reach of children. Packaging material is a potential source of danger for children.



Attention
Speaker load

- Make sure that the total wattage of all connected speakers does not exceed the rated wattage of the amplifier.
- Make sure that the speaker cable run is appropriate for the total speaker load.



Attention
General safety

- Do not shake the device. Avoid brute force when installing or operating the device.
- If the device fails to work properly, discontinue use immediately.



Attention
For professional use only
This device must be used only for the purposes it is designed for.

This device is designed to be used as a streaming pre-amplifier. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households.
- This device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.



Attention
Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP54 rated. IP (Ingress Protection) 54 class means that the device is dust-protected. Ingress of dust does not interfere with satisfactory operation of the device. Water splashed against the enclosure from any direction shall have no harmful effect.

2.2. Requirements for the User

This product may be used by ordinary persons. Installation and maintenance may be carried out by ordinary persons. Service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the installation, service and maintenance of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and avoid hazards associated with the installation, service and maintenance of this product.

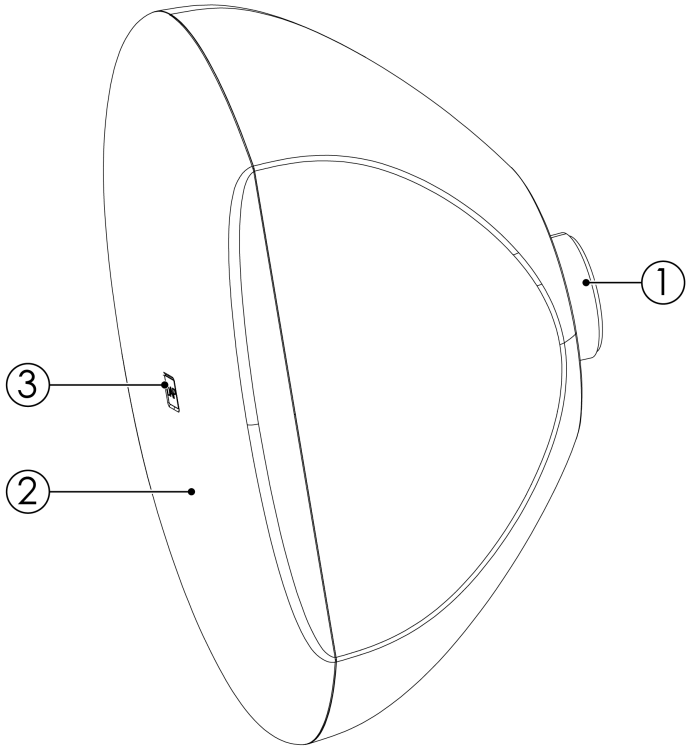
Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

3. Description of the Device

The DAP WMS8-W 16 Ohm (White) is a white 8-inch design wall speaker suitable for low-impedance audio installations. The device can be easily mounted to a wall, in a horizontal or vertical orientation. The DAP logo on the front is rotatable.

3.1. Front View

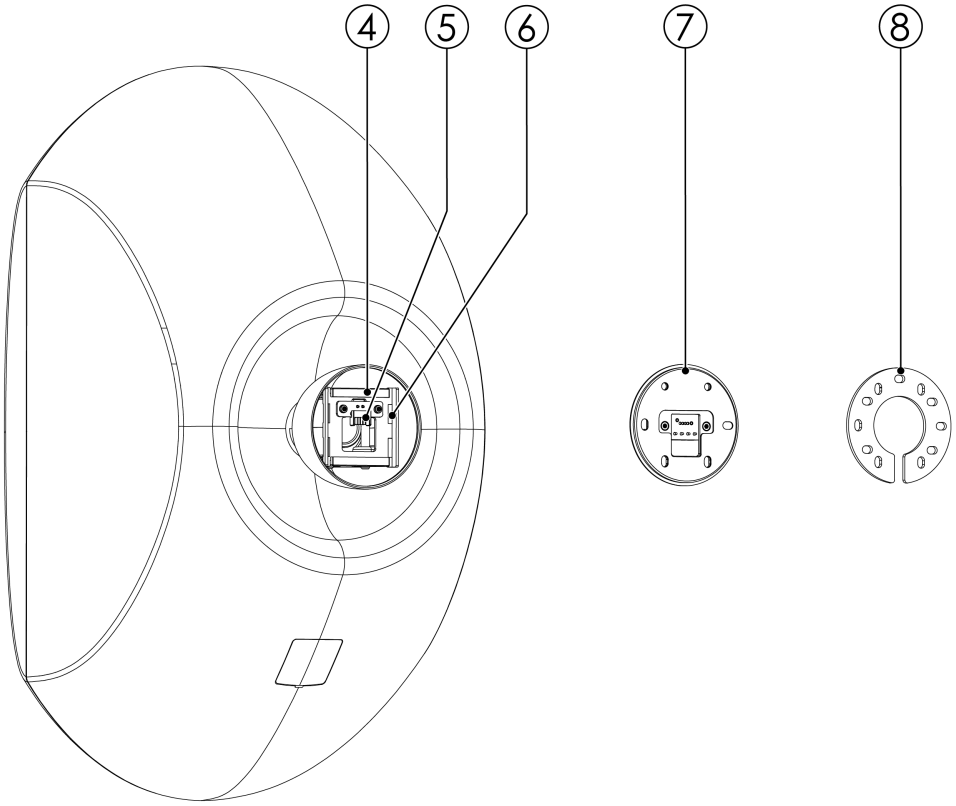
Figure 2



01) Rubber ball-joint cover
02) Speaker grille
03) Rotatable logo

3.2. Back View

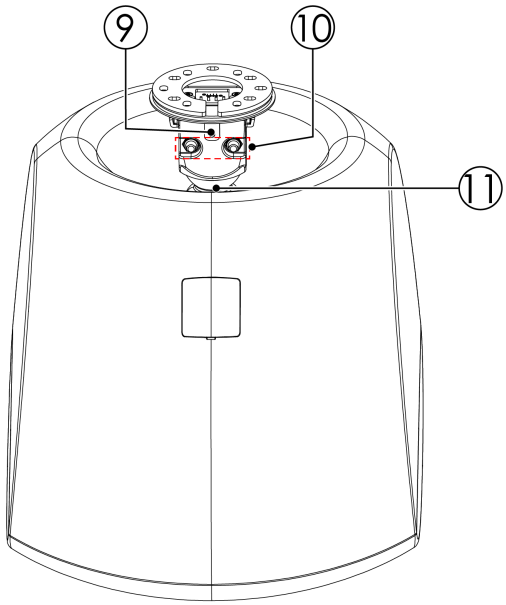
Figure 3



04) Mounting panel
05) 4x speaker mounting holes
06) Speaker connector
07) Mounting plate (see 3.4. Mounting Plate on page 9)
08) Rubber gasket

3.3. Bottom View

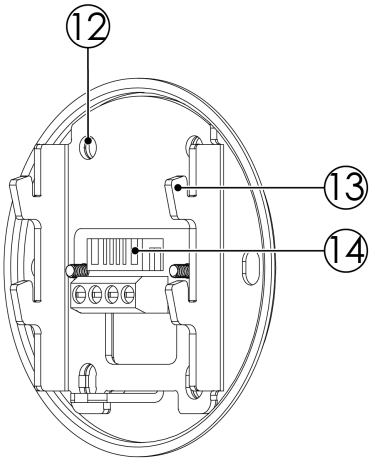
Figure 4



09) Mounting screw (M3 x 10 mm)
10) 2x adjustment screws (M6 x 45 mm)
11) Ball-joint

3.4. Mounting Plate

Figure 5



12) 4x mounting holes (Ø 5 mm)
13) 4x mounting hooks
14) 4-pin terminal connector

3.5. Product Specifications

Model:	WMS8-W 16 Ohm (White)

Inputs:	
RMS input power	80 W
Peak input power	240 W
Passive input connection	Terminal

Outputs:	
Passive output connector	Terminal

Audio specifications:	
Speaker system	2-way
Speaker sensitivity (1 W/1 m)	90 dB
Speaker impedance	16 Ω
Maximum SPL at 1 m	111 dB
Frequency response minimum	60 Hz
Frequency response maximum	20.000 Hz
Woofer diameter	8 "
Woofer voice coil diameter	1,5 "
Woofer magnet type	Ferrite
Compression driver voice coil	0,7 "
Compression driver magnet type	Ferrite
Dispersion angle (horizontal)	60°
Dispersion angle (vertical)	30°

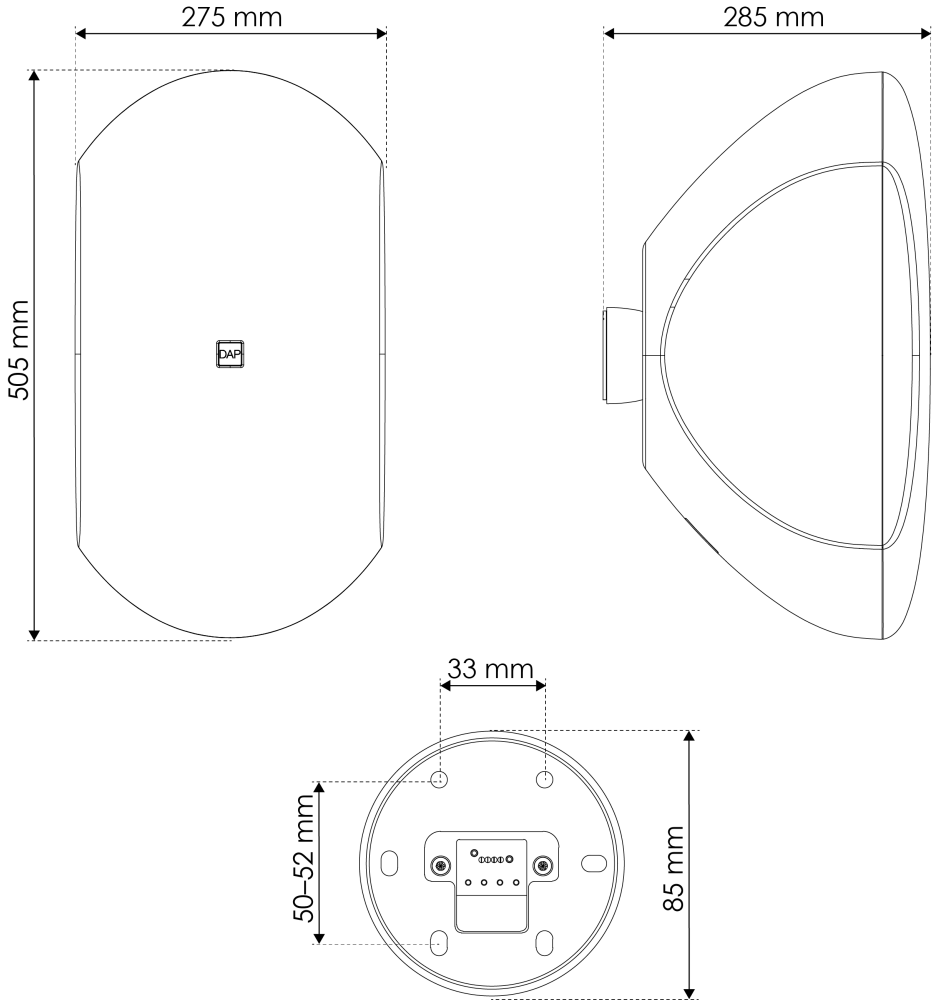
Mechanical specifications:	
Height	505 mm
Width	275 mm
Length	285 mm
Installation depth (excl. connector)	285 mm
Material	ABS
Color	White
Weight	6,9 kg
IP rating	IP54

Product properties:	
Speaker grille material	Aluminum

Thermal specifications:	
Maximum ambient temperature	40 °C
Minimum ambient temperature	-10 °C

3.6. Dimensions

Figure 6



4. Installation

4.1. Safety Instructions for Installation



WARNING
Incorrect installation can cause serious injuries and damage of property.

4.2. Installation Site Requirements

- The device can be used indoors and outdoors.
- The ambient temperature must be in the range -10 and 40 °C.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C.

4.3. Mounting and Setup

To mount the device, you need:

- Phillips screwdriver (PH1)
- Hex key (5 mm)
- Anchors
- Drill bits
- Power drill

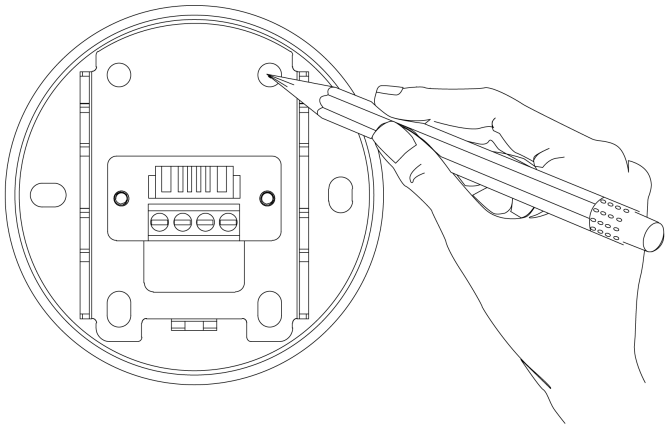
To mount and set up the device, follow the steps below:

01) Drill mounting holes on the wall (see 4.3.1. Drilling Mounting Holes).
02) Connect the amplifier and daisy-chain the WMS speakers (see 4.3.2. Connecting Devices).
03) Install the **mounting plate (07)** on the wall (see 4.3.3. Installing the Mounting Plate).
04) Install the speaker on the **mounting plate (07)** (see 4.3.4. Installing the Speaker).
05) Adjust the angle of the device (see 4.3.5. Adjusting the Angle).
06) Adjust the orientation of the logo (see 4.3.6. Adjusting the Logo).
07) Connect the amplifier to the power supply (see 4.3.7. Connecting the Amplifier).
08) Switch on the amplifier.

4.3.1. Drilling Mounting Holes

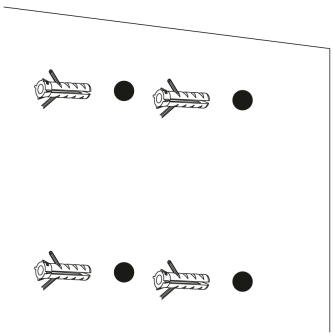
01) Hold the **mounting plate (07)** against the wall and mark the mounting locations.

Figure 7



02) Drill holes at the marked locations. Use the correct drill bit for drilling into wood or concrete.
03) Insert anchors into the drilled holes. Do not perform this step when mounting the device on a wooden wall.

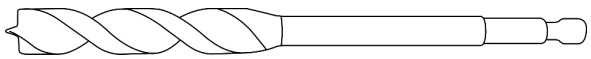
Figure 8



4.3.1.1. Drilling into Wood

If you drill into wood, use hardwood drill bits. Predrill before inserting screw to remove drill dust and to avoid damaging the wood.

Figure 9



Note:

Hardwood drill bits shall be of a diameter slightly smaller than the screws used (e.g. for Ø 5 mm screws, use a Ø 3,5 mm hardwood drill bit).

4.3.1.2. Drilling into Concrete

If you drill into a concrete wall, use drill bits for concrete. Do not drill into mortar joints. Screws installed in mortar joints cannot safely support the weight of the device.

Figure 10

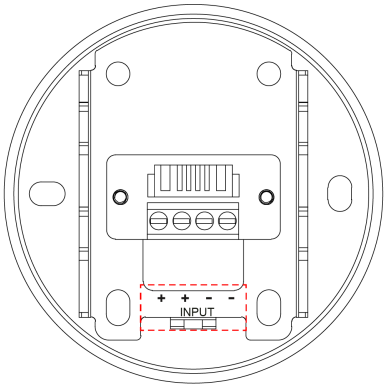


Note:

Drill bits shall be of the same diameter as the anchors.

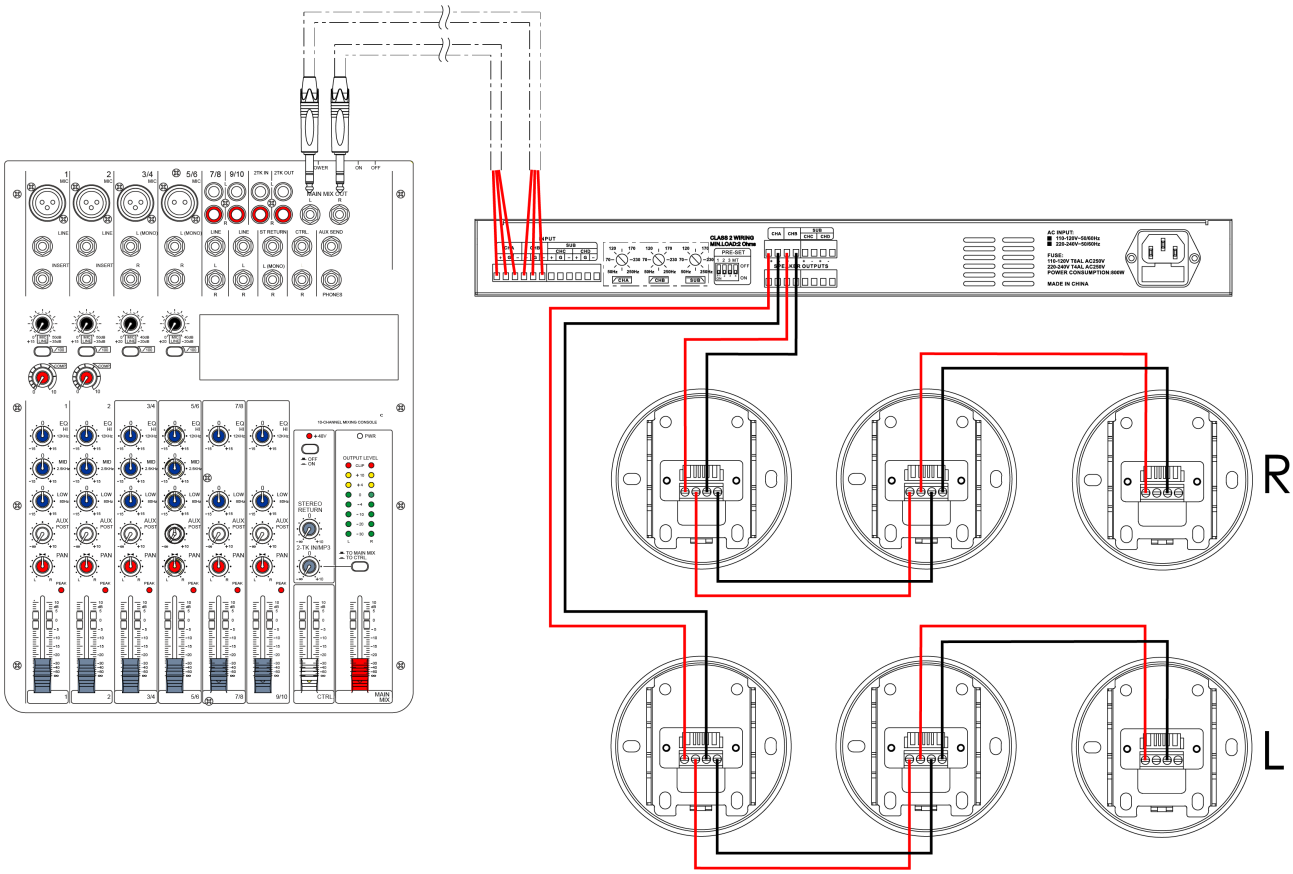
4.3.2. Connecting Devices

Connect all cables to the **mounting plate (07)**. Make sure that the cable polarity is correct. (+/-).



01) Connect the (-) output of the conventional amplifier to one of the (-) connectors on the **mounting plate (07)** of the first speaker.
02) Connect the (+) output of the conventional amplifier to one of the (+) connectors on the **mounting plate (07)** of the first speaker.
03) Connect multiple speakers.

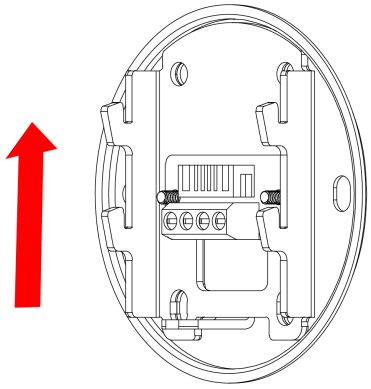
Figure 11



4.3.3. Installing the Mounting Plate

Install the **mounting plate (07)** with the mounting hooks facing up.

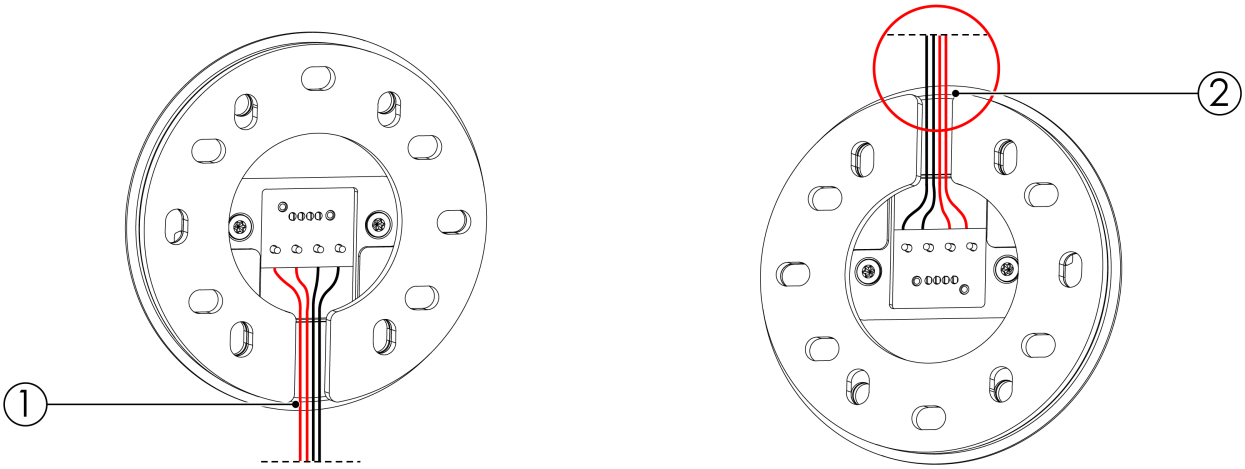
Figure 12



To install the **mounting plate (07)**, follow the steps below:

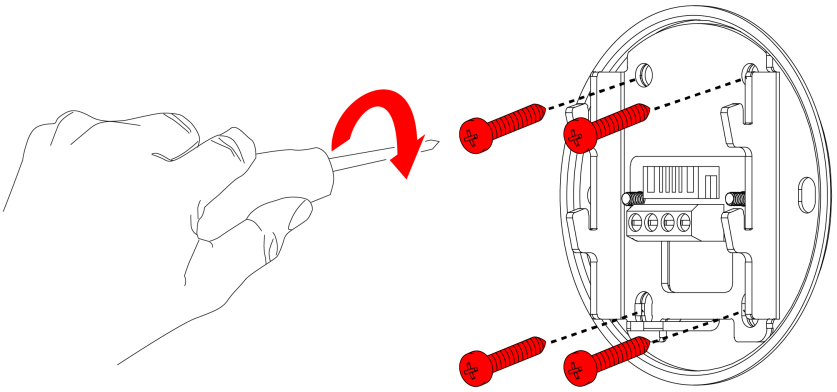
01) Hold the **mounting plate (07)**, with the **rubber gasket (08)**, against the wall, in such a way that all cables fit through the opening in the **rubber gasket (08)**.
02) Make sure that the opening in the gasket is located at the bottom (Pos. 1). If, for any reason, such installation is not possible, seal the opening with a waterproof sealant (Pos. 2) to protect the device from the ingress of water.

Figure 13



03) Insert and tighten the screws to install the **mounting plate (07)** and the **rubber gasket (08)** on the wall. The screws shall be at least 12,5 mm long. Do not overtighten the screws as this can damage the **mounting plate (07)**. The damaged **mounting plate (07)** cannot support the weight of the device and breaks easily.

Figure 14

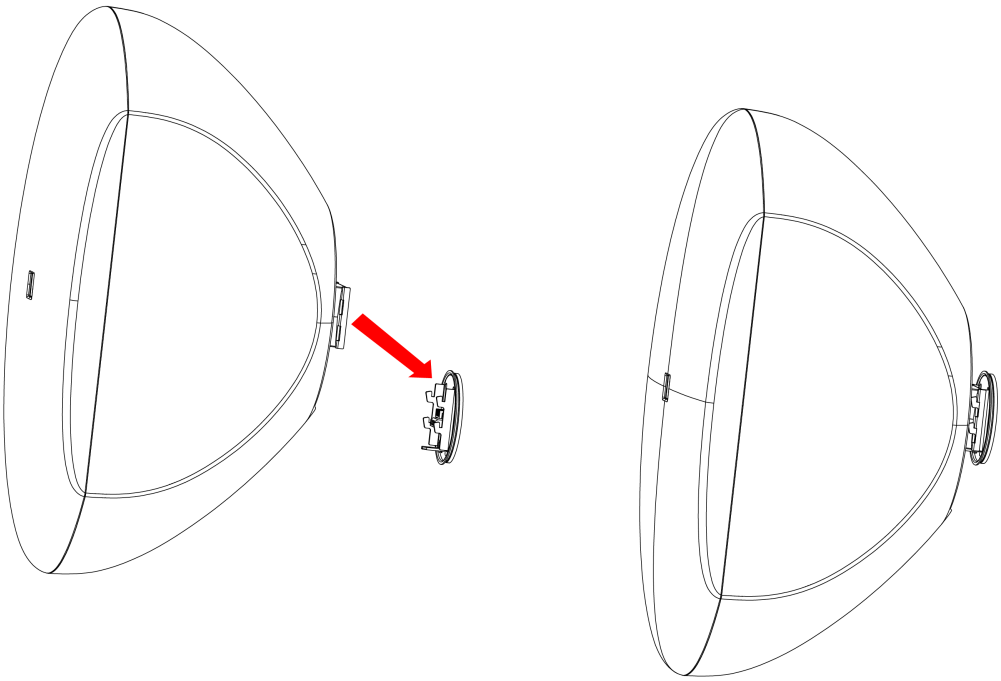


4.3.4. Installing the Speaker

To mount the speaker, follow the steps below:

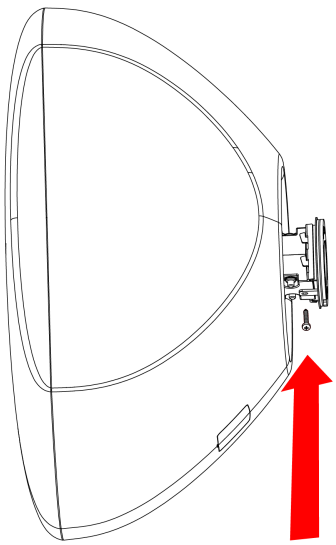
01) Turn the **mounting screw (09)** counter-clockwise to remove it.
02) Hang the speaker on the **mounting plate (07)**.
- The **4x mounting hooks (13)** must go through the **4x speaker mounting holes (05)** on the **mounting panel (04)**.
- The **speaker connector (06)** must fit in the **4-pin terminal connector (14)** on the **mounting plate (07)**.

Figure 15



03) Insert the **mounting screw (09)** and tighten it with the Phillips screwdriver.

Figure 16



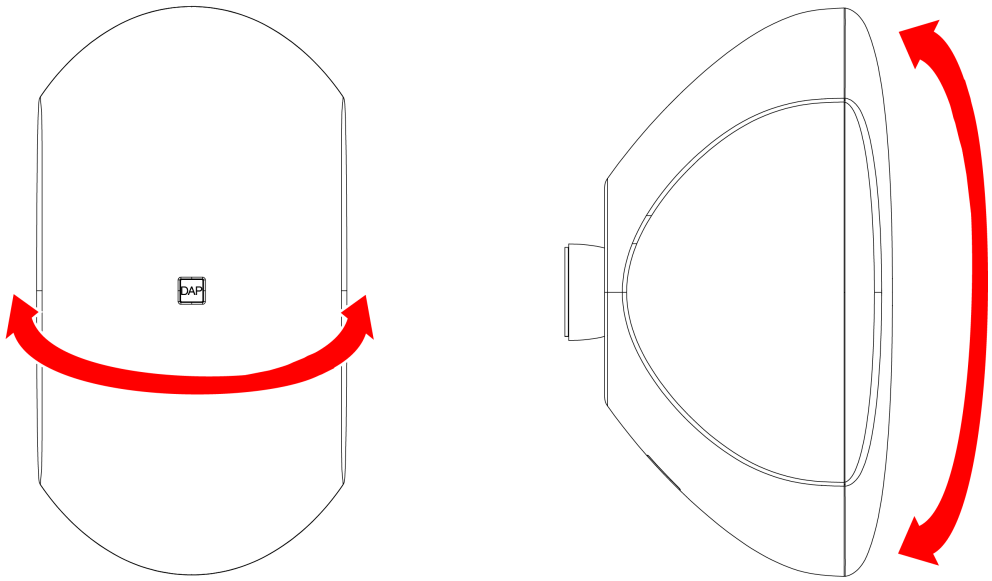
4.3.5. Adjusting the Angle

You can adjust the angle of the device with the **adjustment screws (10)**.

To adjust the angle, follow the steps below:

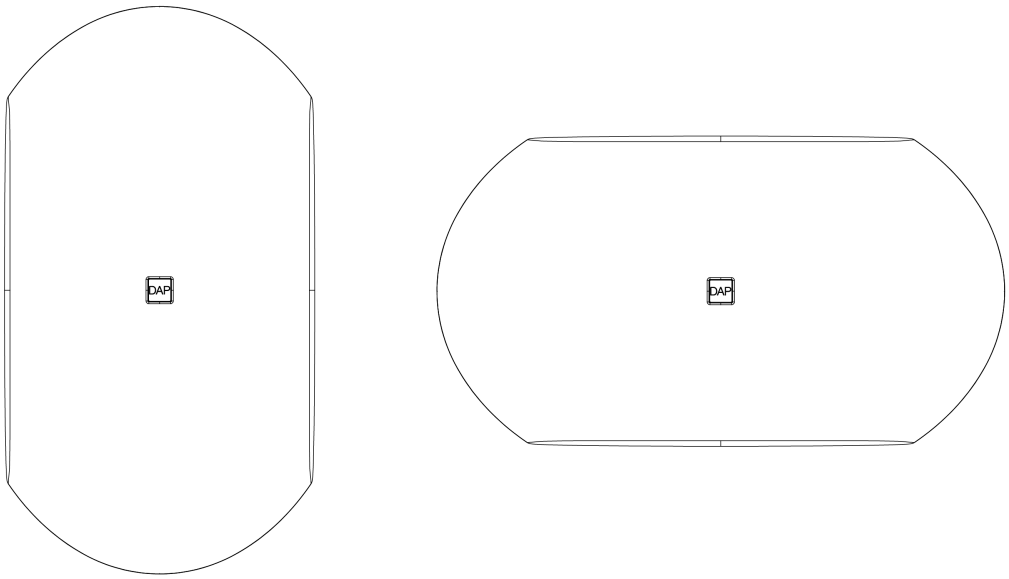
01) Fold the **rubber ball-joint cover (01)** to get access to the **adjustment screws (10)**.
02) Loosen the **adjustment screws (10)** with the hex key.
03) Tilt the device. The tilt range is 30° in all directions.

Figure 17



04) Rotate the **ball-joint (11)** to set the device in a vertical or horizontal orientation. The ball-joint rotation range is 90°.

Figure 18



05) Tighten the **adjustment screws (10)** with the hex key, so that the device cannot move freely.
06) Unfold the **rubber ball-joint cover (01)**.

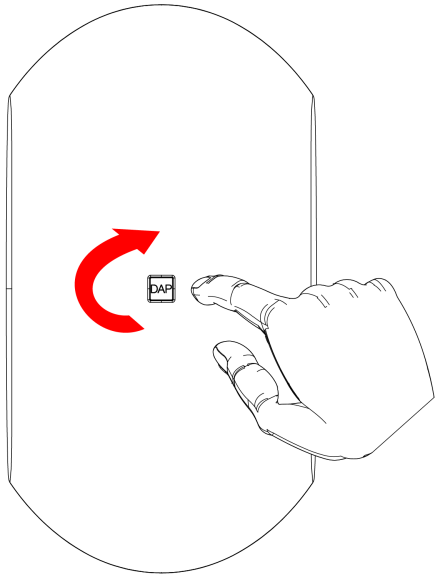
4.3.6. Adjusting the Logo

You can adjust the orientation of the DAP logo on the speaker grille so that it is always legible, regardless of the orientation of the device.

4.3.6.1. Option 1

01) Use a tool to pry up the **rotatable logo (03)**.
02) Move the **rotatable logo (03)** to the correct orientation.

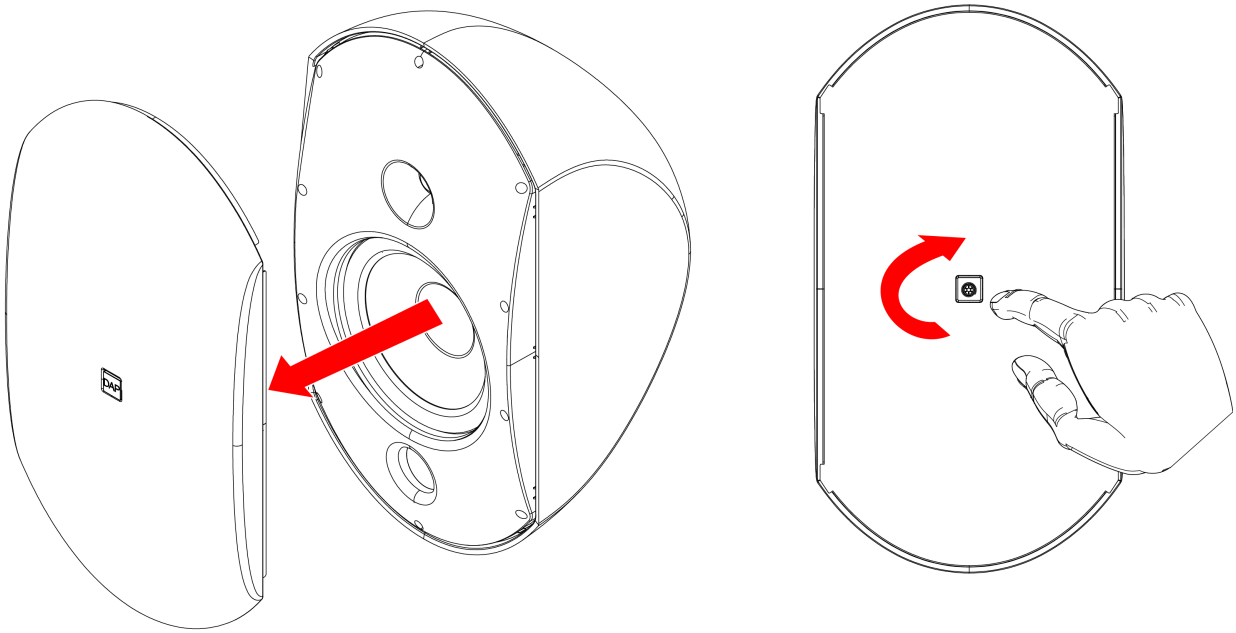
Figure 19



4.3.6.2. Option 2

01) Pry up the **speaker grille (02)** and remove it from the device.
02) On the inside of the **speaker grille (02)**, press on the spring-loaded pin and move the **rotatable logo (03)** to the correct orientation.

Figure 20



03) Release the spring-loaded pin.
04) Install the **speaker grille (02)** on the device.

4.3.7. Connecting the Amplifier



Attention
Speaker load.

Before connecting the amplifier to the power supply, make sure that the total load of all connected speakers is below the maximum rating of the amplifier. If the total load is higher, it may cause damage to the amplifier and to the speakers.

To determine if the settings are correct:

01) Add up the wattage settings of all connected speakers.
02) Compare the value with the maximum rating of the amplifier. If necessary, disconnect speaker(s).

5. Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts.

Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function at all	Bad connection	• Check if the connections between the devices are correct
	No power to the amplifier	• Check if the amplifier is on
	Incorrect settings	• Check if the amplifier is compatible with the device
No sound	Incorrect polarity of the connections	• Check if the polarity of the connections between the devices is correct

6. Maintenance

6.1. Preventive Maintenance



Attention
Before use, examine the device visually for any defects.

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixings and installation points.
- The power cables are not damaged and do not show any material fatigue.

6.1.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for at least 5 minutes.
03) Clean the device with a soft, lint-free cloth.



Attention

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.

6.2. Corrective Maintenance

The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

7. Deinstallation, Transportation and Storage

7.1. Instructions for Deinstallation

WARNING
Incorrect deinstallation can cause serious injuries and damage of property.

- Let the device cool down before dismounting.
- Disconnect power supply before deinstallation.
- Always observe the national and site-specific regulations during deinstallation and derigging of the device.
- Wear personal protective equipment in compliance with the national and site-specific regulations.

7.2. Instructions for Transportation

- Use the original packaging to transport the device, if possible.
- Always observe the handling instructions printed on the outer carton box, for example: "Handle with care", "This side up", "Fragile".

7.3. Storage

- Clean the device before storing (see 6.1.1. Basic Cleaning Instructions on page 21).
- Store the device in the original packaging, if possible.

8. Disposal



Correct disposal of this product

Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

9. Approval

Check the respective product page on the website of Highlite International (www.highlite.com) for an available declaration of conformity.

DAP