

USER'S MANUAL
BEDIENUNGSANLEITUNG
MANUEL D'UTILISATION
MANUAL DE USUARIO
INSTRUKCJA OBSŁUGI
MANUALE D'USO

LDsystems 



DQOR® SUB 8 (W)

PASSIVE INSTALLATION SUBWOOFER

LDDQORSUB8, LDDQORSUB8W

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ENGLISH

YOU MADE THE RIGHT CHOICE!

This device was developed and manufactured under high quality requirements to ensure many years of trouble-free operation. This is what LD Systems stands for with its name and many years of experience as a manufacturer of high-quality audio products. Please read these operating instructions carefully so that you can quickly and optimally use your new LD Systems product.

You can find more information about **LD Systems** on our website WWW.LD-SYSTEMS.COM

INFORMATION ON THIS USER MANUAL

- Carefully read the safety instructions and the entire manual before operating the device.
- Observe the warnings on the device and in the user manual.
- Always keep the user manual within reach.
- If you sell or pass on the device, it is important that you also include this user manual, as it is an integral part of the product.

INTENDED USE

The product is a device for professional audio installation!

The product has been developed for professional use in the field of audio installation and is not intended for household use!

Furthermore, this product is intended for installation by qualified personnel with specialist knowledge and for operation by properly trained persons!

Use of the product that is not in accordance with the specified technical data and operating conditions is considered improper use!

Liability is exempted when damage and third-party damage to persons and property is caused by inappropriate use!

The product is not suitable for:

- Use by persons (including children) with limited physical, sensory, or mental abilities or lack of experience and knowledge.
- Children (children must be instructed not to play with the device).

DEFINITIONS AND SYMBOL EXPLANATIONS

1. **DANGER:** The word DANGER, possibly in combination with a symbol, indicates immediately hazardous situations or conditions risking life and limb.
2. **WARNING:** The word WARNING, possibly in combination with a symbol, indicates potentially hazardous situations or conditions risking life and limb.
3. **CAUTION:** The word CAUTION, possibly in combination with a symbol, indicates situations or conditions that may lead to injury.
4. **ATTENTION:** The word ATTENTION, possibly in combination with a symbol, indicates situations or conditions that may lead to damage to property and/or the environment.



This symbol identifies hazards that can cause electric shock.



This symbol indicates hazardous areas or hazardous situations.



This symbol indicates hazards caused by hot surfaces.



This symbol indicates hazards due to high volume levels.



This symbol indicates hazards due to suspended loads.



This symbol indicates a device in which there are no user-serviceable parts.



This symbol indicates additional information on the operation of the product.

SAFETY INSTRUCTIONS



DANGER:

1. Do not open the device, and do not make any modifications to it.
2. If your device no longer functions properly, if liquids or objects get inside it, or if it has been damaged in any other way, switch it off immediately and disconnect it from the power supply. This device may be repaired only by authorised repair technicians.
3. For devices of protection class 1, the protective conductor must be connected correctly. Never disconnect the protective conductor. Devices of protection class 2 do not have a protective conductor.
4. Ensure that live cables are not kinked or otherwise mechanically damaged.
5. Never bypass the device fuse.



WARNING:

1. The device may not be operated if it shows obvious signs of damage.
2. The device may only be installed in a voltage-free state.
3. If the mains cable of the device is damaged, the device must not be used.
4. Permanently attached mains cables may only be replaced by a qualified person.

**ATTENTION:**

1. Do not operate the device if it has been exposed to large temperature fluctuations (for example, after transport). Moisture and condensation can damage the device. Switch on the device only when it has reached ambient temperature.
2. Make sure that the voltage and frequency of the mains correspond to the values specified on the device. If the device has a voltage selector switch, do not turn the device on until it has been set correctly. Use only suitable mains cables.
3. To disconnect the device from the mains on all poles, it is not sufficient to press the on/off switch on the device.
4. Make sure that the fuse used corresponds to the type printed on the device.
5. Ensure that suitable measures have been taken against overvoltage (for example, lightning strikes).
6. Observe the specified maximum output current on devices with a Power Out connection. Ensure that the total current consumption of all connected devices does not exceed the specified value.
7. Replace plug-in mains cables with original cables only.

**DANGER:**

1. Danger of suffocation/choking! Plastic bags and small parts must be kept out of reach of persons (including children) with reduced physical, sensory, or mental capabilities.
2. Danger caused by falling device! Make sure that the device is securely installed and cannot fall down. Only use suitable stands or mounts (particularly for fixed installations). Ensure that accessories are properly installed and secured. Ensure that all applicable safety regulations are observed.

**WARNING:**

1. Use the device in the prescribed manner only.
2. Operate the device only with the accessories recommended and intended by the manufacturer.
3. Observe safety regulations applicable in your country during installation.
4. After connecting the device, ensure that all cables are routed so as to avoid damage or accidents, such as from tripping.
5. Always observe the specified minimum distance to normally flammable materials! Unless explicitly stated, the minimum distance is 0.3 m.

**CAUTION:**

1. Moving components such as mounting brackets pose a jamming hazard.



ATTENTION:

1. Do not install or use the device in the vicinity of radiators, accumulators, stoves, or other heat sources. Ensure that the device is always installed in such a way that it is sufficiently cooled and cannot overheat.
2. Do not place any ignition sources such as burning candles near the device.
3. Ventilation openings must not be covered, and fans must not be blocked.
4. For transport, use the original packaging or packaging provided by the manufacturer.
5. Avoid any impacts to or shaking of the device.
6. Observe the IP rating and the ambient conditions such as temperature and humidity according to the specifications.
7. Devices can be continuously further developed. In the event of deviating information on operating conditions, performance, or other device properties between the user manual and the device labelling, the information on the device always takes priority.
8. The device is not suitable for tropical climate zones or for operation over 2,000 m above sea level.



CAUTION:

Connecting signal cables can cause significant interference noise. Make sure that devices connected to the output are muted while making connections. Otherwise, noise levels may cause damage.



ATTENTION: HIGH-VOLUME AUDIO PRODUCTS!

This device is designed for professional use. The commercial operation of this device is subject to the applicable national regulations and guidelines for accident prevention. Hearing damage due to high volume and continuous exposure: use of this product may generate high sound pressure levels (SPLs) that may cause hearing damage. Avoid exposure to high volumes.



INSTRUCTIONS FOR OUTDOOR INSTALLATION EQUIPMENT

1. Devices for installation applications are designed for continuous operation.
2. Equipment for outdoor installation is largely weather-resistant. Depending on the design, however, seals may be made of materials that deteriorate. These must be checked regularly and replaced if necessary.
3. The correct condition of the housing parts and connections must be checked regularly.
4. Surfaces and plastic parts can also weather in installation equipment, for example, due to UV irradiation. This generally does not impair functionality.
5. Damage to the surface coating can impair the device's corrosion protection. Damaged surface coating (for example, scratches) must be promptly repaired using suitable measures.
6. Screw connections can be impaired in their freedom of movement (for example, due to oxidation or impurities). Here, appropriate measures for loosening are to be implemented.
7. Unless explicitly stated otherwise on the device or in the technical data, the devices are intended for installation heights of less than five metres.

PACKAGING CONTENT

Remove the product from the packaging and remove all packaging material. Please check the completeness and integrity of the delivery and notify your distribution partner immediately after purchase if the delivery is not complete or if it is damaged.

The packaging content for the product **LDDQORSUB8** includes:

- 1× passive DQOR SUB 8 subwoofer, black
- 1 pair of non-slip rubber feet (pre-assembled)
- 1× terminal cover
- Safety and compliance information (user manual as a download via QR code)

The packaging content for the product **LDDQORSUB8W** includes:

- 1× passive DQOR SUB 8 subwoofer, white
- 1 pair of non-slip rubber feet (pre-assembled)
- 1× terminal cover
- Safety and compliance information (user manual as a download via QR code)

INTRODUCTION

Part of the DQOR® series, the DQOR® SUB 8 is an installation subwoofer with an 8" woofer and a 10" passive radiator, designed for high performance in a compact form factor. Ideal for both indoor and outdoor installations, the DQOR® SUB 8 features a robust aluminium enclosure with powder coating for durability and an IP55 rating for outdoor use.

The clean and low-profile design ensures the DQOR® SUB 8 is a sleek addition to any room, combining aesthetics with powerful audio performance. With 240 W RMS and 4 ohm impedance, it delivers impressive sound quality at up to 108 dB SPL with low frequency extension down to 37 Hz.

The DQOR® SUB 8 has rubber feet for floor mounting, or it can be easily installed with the optional surface mount bracket, which includes flexible mounting options, holes for clean cable management, locking screws, a safety-locking mechanism, and a hinge mechanism for quick setup. The recessed connection area, with a clear plastic cover, ensures outdoor protection for the connections.

The 4-pole terminal block connector allows for parallel (2 Ohm) or serial connections (8 Ohm).

The DQOR® SUB 8 can be used in a wide variety of applications including hospitality, retail, entertainment or corporate applications.

It is available in two colours: black (RAL9005) and white (RAL9016).

FEATURES

- 8" Subwoofer with 10" passive radiator
- Clean, low-profile design with robust aluminium enclosure
- IP55 rated for outdoor use
- 240 W RMS, 400 W Peak @ 4 Ohms
- Optional Surface Mount bracket (wall + ceiling) with hinges for easy installation
- Available in black or white

INSTALLATION



Always place the subwoofer in a suitable location on a sufficiently stable, level, and horizontal surface. Do not place the subwoofer, for example, on wall projections from which it could fall, such as due to vibration!



Before connection, make sure that the amplifier system to which the subwoofer is to be connected is switched off and that the connection cables are de-energised!



Outdoor installation: make sure that the subwoofer is not permanently in water and that water cannot accumulate on the speaker cone.

ASSEMBLY



DANGER: Overhead mounting requires extensive experience, including the calculation of the load limit values of the installation material and regular safety inspection of all installation materials and devices. If you do not have these qualifications, do not attempt to perform an installation yourself. Refer instead to a qualified professional. There is a risk that devices that are incorrectly installed and secured and may come loose and fall down. This can cause serious injury or death.



Only use the LD Systems original accessory LDDQRSUB8WMB for wall and ceiling mounting!

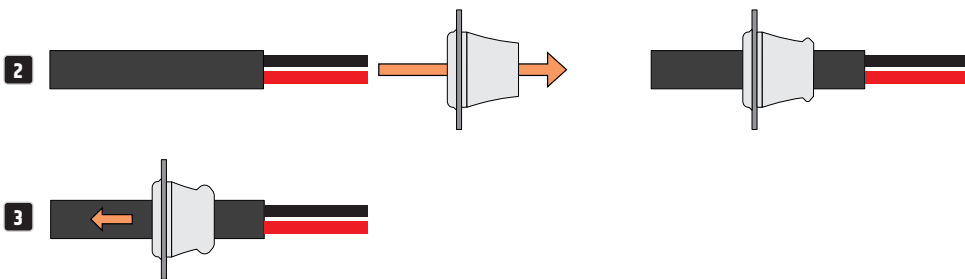
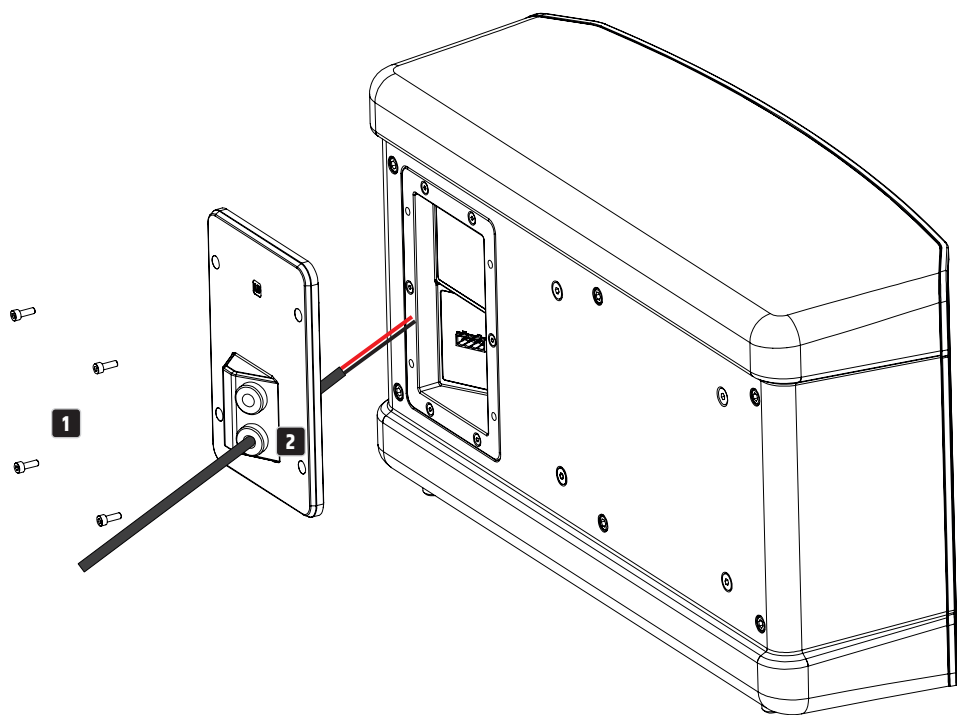


Before connection, make sure that the amplifier system to which the speaker is to be connected is switched off and that the connection cables are de-energised!

CONNECTION TERMINAL

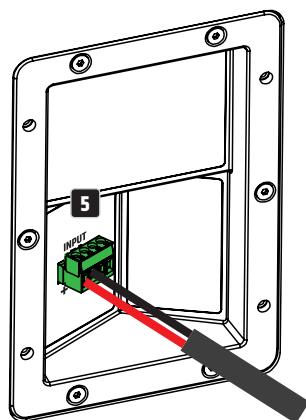
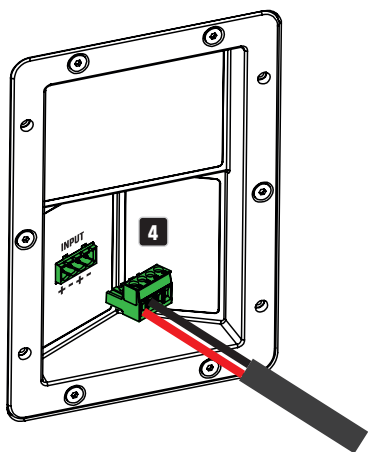
The cover for sealing the connection terminal is mandatory for outdoor installation; the cover can be optionally used for indoor installation.

- 1** Remove the cover for sealing the connection terminal from the subwoofer (loosen the four Allen screws with a suitable tool).
- 2** Pierce the centre of the rubber membrane of the rubber cable bushing with a pointed object (for example, Phillips screwdriver) and insert a suitable round cable (5 to 9 mm outer diameter).
- 3** Pull the cable back a short distance until the sealing lip of the rubber cable bushing folds in.

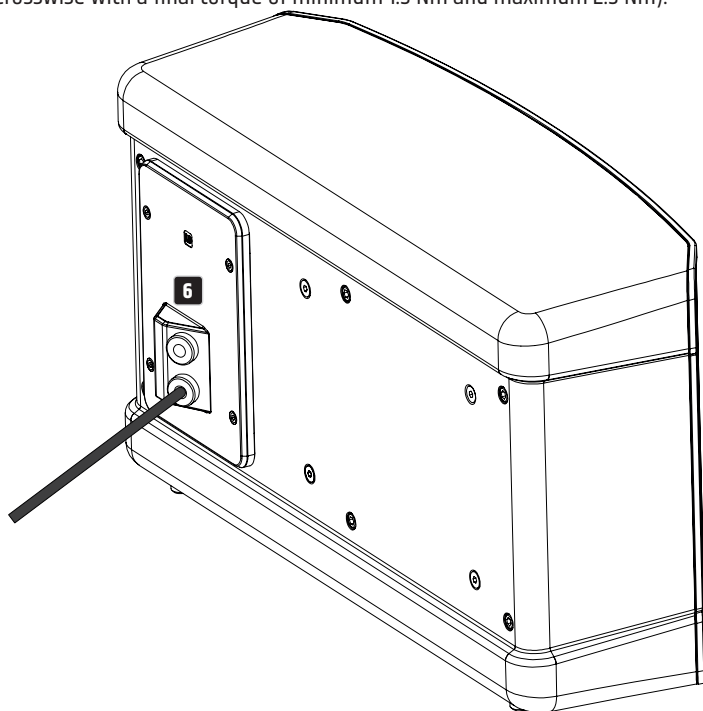


4 Connect the cable to the terminal block (pay attention to the polarity, see markings under the terminal block connection. If necessary, connect a second cable to forward the signal and pay attention to the total impedance).

5 Connect the terminal block to the terminal block connection.



6 Screw the cover for sealing the connection terminal onto the subwoofer (carefully tighten the four Allen screws crosswise with a final torque of minimum 1.5 Nm and maximum 2.5 Nm).



CARE, MAINTENANCE, AND REPAIR

In order to ensure the long-term, proper functioning of the device, it must be regularly cleaned and, if necessary, serviced. The care and maintenance required depends on the intensity of use and the environment in which it is used.

We recommend a visual inspection before each operation. Furthermore, we recommend carrying out all the applicable service measures specified below once every 500 operating hours or, in the case of a lower intensity of use, at the latest after one year. Warranty claims may be limited should defects result from inadequate service and maintenance.

CARE (CARRIED OUT BY USER)



WARNING! Before carrying out any care and maintenance work, the power supply and, if possible, all device connections must be disconnected.



NOTE! Improper care can lead to impairment or even destruction of the device.

1. Housing surfaces must be cleaned with a clean, damp cloth. Make sure that no moisture can penetrate the device.
2. Air inlets and outlets must be regularly cleaned of dust and dirt. If compressed air is used, make sure that damage to the device is prevented (for example, fans must be blocked in this case).
3. Cables and connectors must be cleaned regularly, and dust and dirt must be removed.
4. In general, no cleaning or disinfection agents or abrasive agents may be used, as they may damage the surface finish. Solvents in particular, such as alcohol, can impair the function of housing seals.
5. Devices must generally be stored in a dry environment and protected from dust and dirt.

MAINTENANCE AND REPAIR (BY QUALIFIED PERSONNEL ONLY)



DANGER! There are live components in the device. Even after disconnecting from the mains, there may still be residual voltage in the device, for example, due to charged capacitors.



PLEASE NOTE! There are no user-serviceable assemblies in the device.



PLEASE NOTE! Maintenance and repair work may only be carried out by specialist personnel authorised by the manufacturer. If in doubt, consult the manufacturer.



PLEASE NOTE! Improperly performed maintenance work may affect warranty claims.

TECHNICAL DATA

Item number	LDDQORSUB8
Product type	Passive Installation Subwoofer
Loudspeaker inputs	1
Link-Outputs	1
Input Section	
Input Connectors	4-pin terminal block (pitch 5.08 mm)
Acoustic Specifications	
Frequency response (-3dB)	43 Hz - fx Hz
Power Rating (RMS)	240 W
Power Rating (Peak)	400 W
Impedance	4 Ohms
SPL (1W / 1m)	86 dB @ 100 Hz
Max. SPL	108 dB Peak @ 100 Hz @ 10% distortion
Recommended Crossover Frequency	Maximum 200 Hz
Directivity	Omnidirectional
Woofer Size	8" Woofer; 10" Passive Radiator
Woofer Magnet	Ferrite
Woofer Brand	Custom Made
Woofer Voice Coil	2.5"
Acoustic Concept	Passive Radiator
Mechanical Specifications	
IP Protection Class	IP 55, MIL-SPEC 810
Material	Die-Cast chassis Aluminum, Plastic Front panel, Aluminum Speaker Grille
Housing Color	White (RAL9010) / Black (RAL9005)
General	
Operating Temperature	-30°C - 50 °C
Max. Humidity in operation (non condensing)	85 %
Dimensions (W x H x D)	537 x 303 x 205mm (height with rubber feet)
Weight	13.7 kg
Optional Accessories	LDDQORSUB8WMB (Wall Mounting Bracket)

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EXPLANATORY NOTES ON THE IP PROTECTION CLASS

1. An IP rating only reflects protection from solid objects and water. It does not describe general weather resistance, such as protection from UV radiation and temperature, etc.

2. The first digit indicates protection from dust, solid objects, and contact:

IP2X	Protected against solid foreign objects ≥ 12.5 mm in diameter
IP3X	Protected against solid foreign objects ≥ 2.5 mm in diameter
IP4X	Protected against solid foreign objects ≥ 1.0 mm in diameter
IP5X	Protected against dust in harmful quantities and completely protected against contact
IP6X	Are dust-tight and completely protected against contact

3. The second digit indicates protection from water:

IPX0	No protection
IPX1	Protection against dripping water
IPX2	Protection against dripping water when the device is tilted by up to 15°
IPX3	Protection against falling spray water up to 60° from the vertical
IPX4	Protection against splashing water on all sides
IPX5	Protection against water jets (nozzle) from any angle
IPX6	Protection against strong water jets
IPX7	Protection against temporary immersion

4. In addition, some device-specific measures such as covers and sealing caps are necessary in order to achieve the specified protection class (for example, protective caps on unused connections).



The IP rating of the product can be found in the technical specifications and is printed on the device.

DISPOSAL



Packaging:

1. Packaging can be fed into the reusable material cycle using the usual disposal methods.
2. Please separate the packaging in accordance with the disposal laws and recycling regulations in your country.



Device:

1. This device is subject to the European Directive on Waste Electrical and Electronic Equipment, as amended. WEEE Directive Waste Electrical and Electronic Equipment. Waste equipment and batteries do not belong in household waste. Waste equipment or batteries must be disposed of via an authorised waste disposal company or a municipal waste disposal facility. Please 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.

MANUFACTURER'S DECLARATIONS

MANUFACTURER'S WARRANTY AND LIMITATION OF LIABILITY

Adam Hall GmbH, Adam-Hall-Str. 1, D-61267 Neu-Anspach / Email Info@adamhall.com / +49 (0)6081 / 9419-0.

Our current warranty conditions and limitation of liability can be found at:

https://cdn-shop.adamhall.com/media/pdf/MANUFACTURERS-DECLARATIONS_LD_SYSTEMS.pdf.

For service requests, please contact your distribution partner.

CE CONFORMITY

Adam Hall GmbH hereby confirms that this product meets the following guidelines (where applicable):

Low-Voltage Directive (2014/35/EU)

EMC Directive (2014/30/EU)

RoHS (2011/65/EU)

RED (2014/53/EU)

EC DECLARATION OF CONFORMITY

Declarations of conformity for products subject to the LVD, EMC, and RoHS Directives can be requested from info@adamhall.com.

Declarations of conformity for products subject to RED

can be downloaded from www.adamhall.com/compliance/.

