



LD SYSTEMS LD DAVE G3 Series Active 2.1 DSP Based PA System User Manual

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LD SYSTEMS LD DAVE G3 Series Active 2.1 DSP Based PA System



You've made the right choice!

We have designed this product to operate reliably over many years. LD Systems stands for this with its name and many years of experience as a manufacturer of high-quality audio products. Please read this User's Manual carefully, so that you can begin making optimum use of your LD Systems product quickly.

You can find more information about LD-SYSTEMS at our Internet site WWW.LD-SYSTEMS.COM

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PREVENTIVE MEASURES

1. Please read these instructions carefully.
2. Keep all information and instructions in a safe place.
3. Follow the instructions.

4. Observe all safety warnings. Never remove safety warnings or other information from the equipment.
5. Use the equipment only in the intended manner and for the intended purpose.
6. Use only sufficiently stable and compatible stands and/or mounts (for fixed installations). Make certain that wall mounts are properly installed and secured.
Make certain that the equipment is installed securely and cannot fall down.
7. During installation, observe the applicable safety regulations for your country.
8. Never install and operate the equipment near radiators, heat registers, ovens or other sources of heat. Make certain that the equipment is always installed so that it is cooled sufficiently and cannot overheat.
9. Never place sources of ignition, e.g., burning candles, on the equipment.
10. Ventilation slits must not be blocked.
11. Do not use this equipment in the immediate vicinity of water (does not apply to special outdoor equipment – in this case, observe the special instructions noted below. Do not expose this equipment to flammable materials, fluids or gases. Avoid direct sunlight!
12. Make certain that dripping or splashed water cannot enter the equipment. Do not place containers filled with liquids, such as vases or drinking vessels, on the equipment.
13. Make certain that objects cannot fall into the device.
14. Use this equipment only with the accessories recommended and intended by the manufacturer.
15. Do not open or modify this equipment.
16. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
17. During transport, make certain that the equipment cannot fall down and possibly cause property damage and personal injuries.
18. If your equipment is no longer functioning properly, if fluids or objects have gotten inside the equipment or if it has been damaged in another way, switch it off immediately and unplug it from the mains outlet (if it is a powered device). This equipment may only be repaired by authorized, qualified personnel.
19. Clean the equipment using a dry cloth.
20. Comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.
21. Plastic bags must be kept out of reach of children.
22. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
23. The mains plug is used as the disconnect device, the disconnect device shall remain readily operable. **FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS**
24. CAUTION: If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground.
Never deactivate the protective ground of a power cord.
25. If the equipment has been exposed to strong fluctuations in temperature (for example, after transport), do not switch it on immediately. Moisture and condensation could damage the equipment. Do not switch on the equipment until it has reached room temperature.
26. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment. If the equipment has a voltage selection switch, connect the equipment to the power outlet only if the equipment values and the mains power values match. If the included power cord or power adapter does not fit in your wall outlet, contact your electrician.

27. Do not step on the power cord. Make certain that the power cable does not become kinked, especially at the mains outlet and/or power adapter and the equipment connector.
28. When connecting the equipment, make certain that the power cord or power adapter is always freely accessible. Always disconnect the equipment from the power supply if the equipment is not in use or if you want to clean the equipment. Always unplug the power cord and power adapter from the power outlet at the plug or adapter and not by pulling on the cord. Never touch the power cord and power adapter with wet hands.
29. Whenever possible, avoid switching the equipment on and off in quick succession because otherwise this can shorten the useful life of the equipment.
30. **IMPORTANT INFORMATION:** Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service centre.
31. To disconnect the equipment from the power mains completely, unplug the power cord or power adapter from the power outlet.
32. If your device is equipped with a Volex power connector, the mating Volex equipment connector must be unlocked before it can be removed.
However, this also means that the equipment can slide and fall down if the power cable is pulled, which can lead to personal injuries and/or other damage. For this reason, always be careful when laying cables.
33. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.



CAUTION: Never remove the cover, because otherwise there may be a risk of electric shock. There are no user serviceable parts inside. Have repairs carried out only by qualified service personnel.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions.

CAUTION – HIGH VOLUME LEVELS WITH AUDIO PRODUCTS!

This equipment is intended for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations. As a manufacturer, Adam Hall is obligated to notify you formally about the existence of potential health risks.

Hearing damage due to high volume and prolonged exposure: When in use, this product is capable of producing high sound-pressure levels (SPL) that can lead to irreversible hearing damage in performers, employees, and audience members.

For this reason, avoid prolonged exposure to volumes in excess of 90 dB.



To prevent possible hearing damage, avoid listening at high volume levels over long periods of time. Even exposure to short bursts of loud noise can result in hearing loss. Please keep the volume constantly at a comfortable level.



Warning! This symbol indicates a hot surface. Certain parts of the housing can become hot during operation. After use, wait for a cool-down period of at least 10 minutes before handling or transporting the device.



Warning! This device is designed for use below 2000 metres in altitude.



Warning! This product is not intended for use in tropical climates.

NOTE: 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:

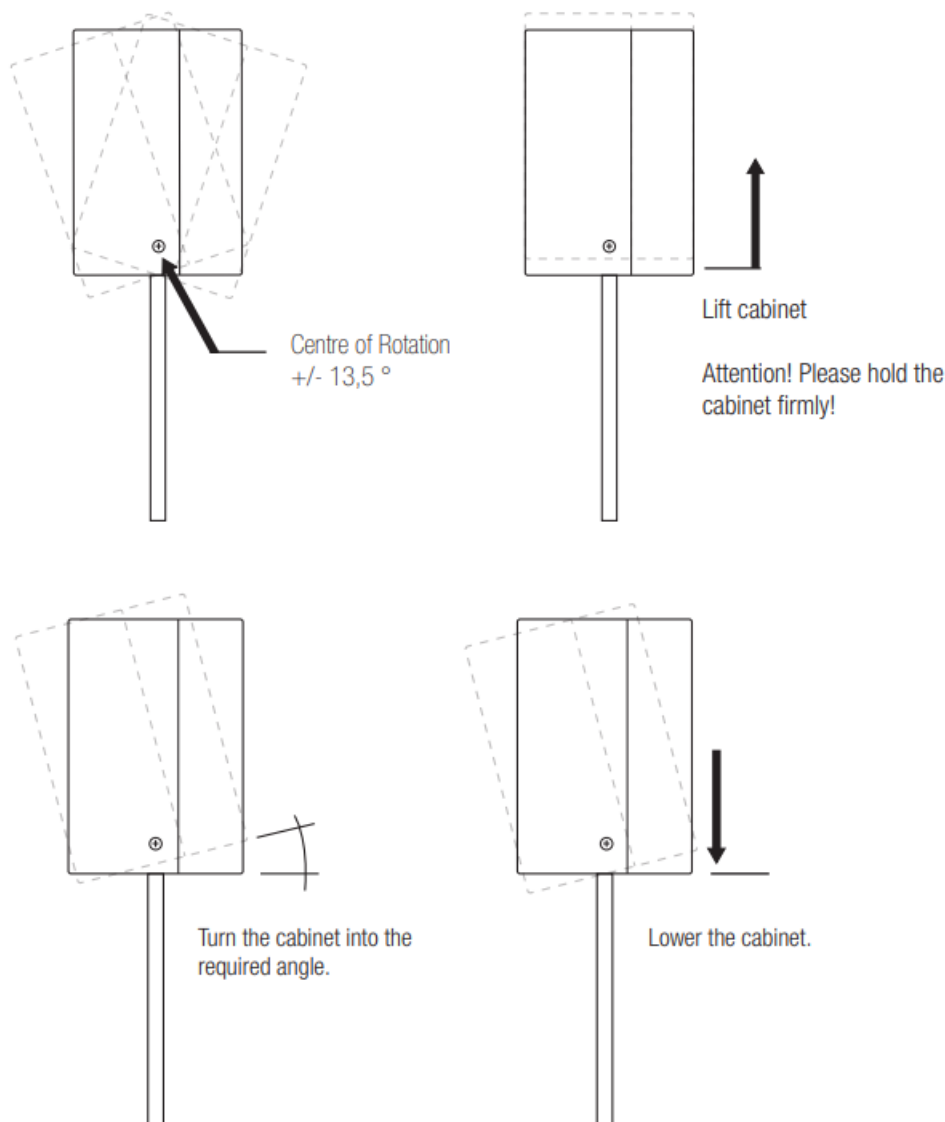
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

INTRODUCTION

The LD Systems Dave G³ series loudspeakers are designed for professional use. They offer DSP based 2.1 sound reinforcement units with high quality components, powerful amplification and a well balanced sound across the entire range of frequencies, all at a very fair price.

This series includes three 2.1 subwoofer/satellite systems of different size. The LDDAVE10G3 with a 10" subwoofer and 350W RMS system power, the LDDAVE12G3 with a 12" subwoofer and 500W RMS system power and the LDDAVE15G3 with a 15" subwoofer and 700W RMS system power.

The internal LD LECC DSP offers digital sound processing such as crossover, equalizing, compressor and limiter functionality which is perfectly adjusted for all LD DAVE G³ models to maintain the system's best audio performance.



INSTALLATION & OPERATING

INSTALLATION

Please place subwoofers and satellite speaker stands on stable and even ground. Do not place subwoofers and satellite speakers on mobility carts, chairs, tables or something similar in order to prevent accidents. We recommend Adam Hall speaker stand SPS56 or speaker pole SPS822 (M20 thread, mounted on subwoofer) and mounting fork for speaker stands SPS823 for use with the LD DAVE G³ satellites. The LDDAVE10G³ satellites are equipped with a speaker stand flange of 5° slope for best sound distribution.

The LDDAVE12G³ and LDDAVE15G³ satellites are equipped with the patented SM707 speaker stand flange with variable slope. For slope angle adjustment lift the satellite speaker slightly and carefully from the latching mechanism (approximately 1/2 cm), turn into desired angle and lower the cabinet.

OPERATING / BETRIEB

In order to prevent unpleasant start-up noise caused by connected devices like mixers etc., the LD DAVE G³ system should be the last to be switched on and the first to be switched off. Before switching power on, the main level control should be set to minimum.

OPTIONAL ACCESSORIES

- **CASTOR BOARD + PROTECTIVE COVER FOR SUBWOOFERS AND SATELLITES**

LDDAVE10G3SET

LDDAVE12G3SET

LDDAVE15G3SET



- **CASTOR BOARD**

38110G3

38112G3

38115G3



- **PROTECTIVE COVERS FOR SATELLITES**

LDD10G3SATBAG

LDD12G3SATBAG

LDD15G3SATBAG



- **PROTECTIVE COVER FOR SUBWOOFER**

LDD10G3SUBBAG

LDD12G3SUBBAG

LDD15G3SUBBAG



- **2 X SPEAKER STANDS WITH TRANSPORT BAG**
SPS023SET



- **2 X SPEAKER STANDS WITH TRANSPORT BAG + 2 X SPEAKER CABLES**
(2 X 1,5MM² SPEAKON COMPATIBLE/ SPEAKON
COMPATIBLE, 5M)
SPS023SET2



BACK PANEL LDDAVE10G³

SAT POWER OUT (LEFT/RIGHT

Powered Speakon compatible output for LD DAVE G³ series

POWER

Power ON/OFF switch. Before switching power on, all level controls should be set to minimum.

MAINS SOCKET (VOLEX POWER PLUG)

With built-in fuse holder AC connection via IEC connector (220 – 240V AC). A power cord with a lockable Volex connector is supplied with this unit. **IMPORTANT:** Replace fuse only by fuse of same type and rating! If fuse blows repeatedly please contact authorized service center!

ON LED

Lights up when power is switched on and mains cable is connected correctly.

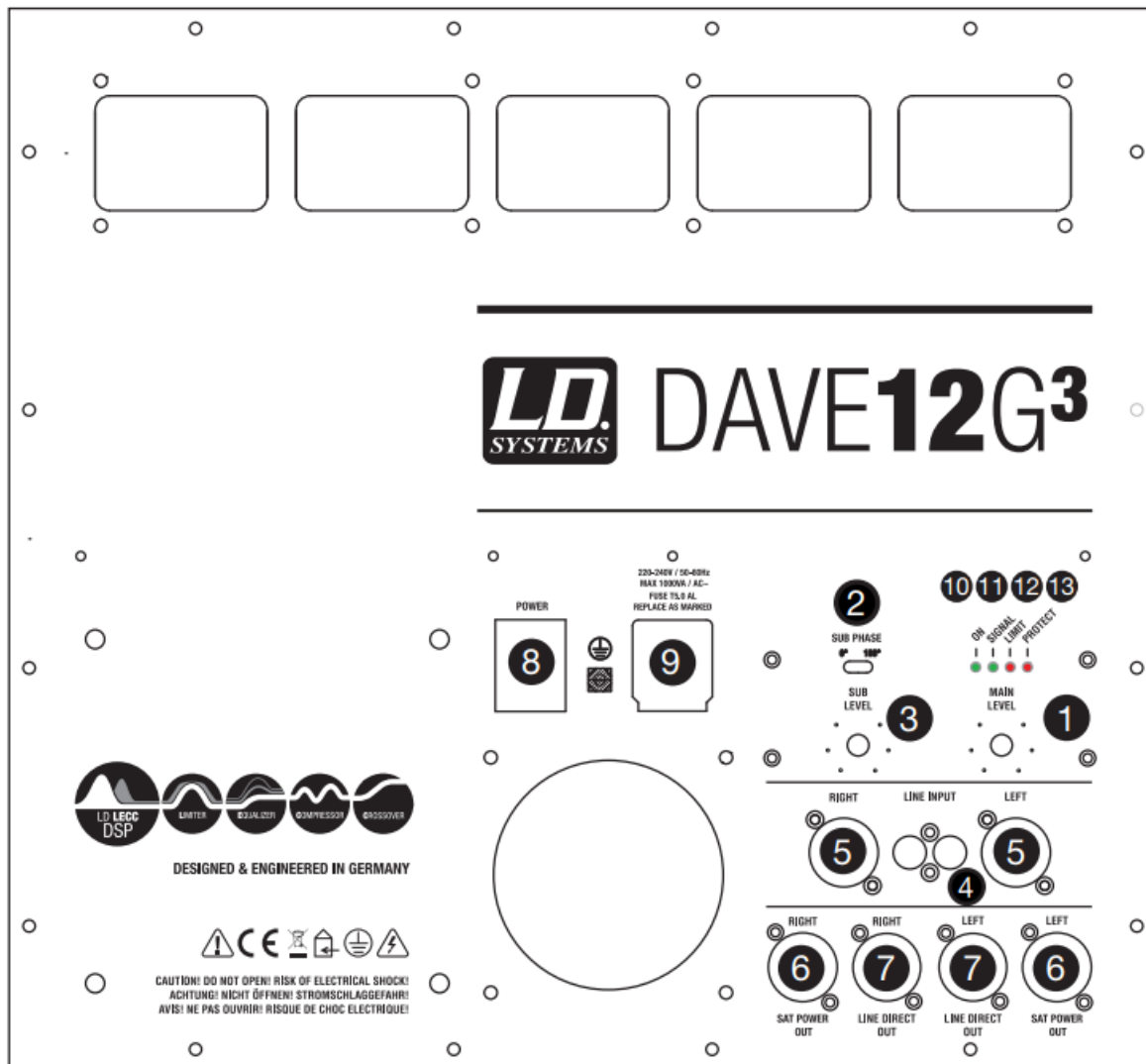
SIGNAL LED

Lights up when the unit receives an audio signal.

LIMIT LED

Lights up when the loudspeaker is operated at its limit. Short-term blinking of the LED is not critical. If the limiter LED lights up longer than a brief moment or permanently (= over-driving the system), reduce the volume of the connected signal source. Non-compliance will lead to unpleasant and distorted sound and may cause malfunction of the speaker system.

BACK PANEL LDDAVE12G³ (SHOWN) & LDDAVE15G³



CONTROL ELEMENTS

MAIN LEVEL

Main volume control of the 2.1 loudspeaker system. Volume of subwoofer and satellites affected in same way.

SUB PHASE

Inverts the phase of subwoofer (0°, 180°).

SUB LEVEL

Volume control of subwoofer. Adjust the volume of the subwoofer in relation to satellites. Recommended setting centre position (12:00h).

LINE INPUT (LEFT/RIGHT)

Unbalanced RCA line input.

LINE INPUT (LEFT/RIGHT)

Balanced XLR/6.3 mm jack (combo) line input.

SAT POWER OUT (LEFT/RIGHT)

Powered Speakon compatible output for LD DAVE G³ series

LINE DIRECT OUTPUT (LEFT / RIGHT)

Balanced XLR output which allows you to connect active loudspeakers etc. Provides same signal as input signal.

POWER

Power ON/OFF switch. Before switching power on, all level controls should be set to minimum.

MAINS SOCKET (VOLEX POWER PLUG)

With built-in fuse holder AC connection via IEC connector (220 – 240V AC). A power cord with a lockable Volex connector is supplied with this unit. **IMPORTANT:** Replace fuse only by fuse of same type and rating! If fuse blows repeatedly please contact authorized service center!

ON LED

Lights up when power is switched on and mains cable is connected correctly.

SIGNAL LED

Lights up when the unit receives an audio signal.

LIMIT LED

Lights up when the loudspeaker is operated at its limit. Short-term blinking of the LED is not critical. If the limiter LED lights up longer than a brief moment or permanently (= over-driving the system), reduce the volume of the connected signal source. Non-compliance will lead to unpleasant and distorted sound and may cause malfunction of the speaker system.

PROTECT LED

Lights up in case of unit overload/overheating. Amplifier switches to mute automatically. The unit will return to operation mode under normal conditions after a few minutes.

SPECIFICATIONS

| | | LDDAVE15G3 | LDDAVE12G3 | LDDAVE10G3 |
|----------------------|----|-------------------------|-------------------------|-------------------------|
| Product Sort: | | PA complete system | PA complete system | PA complete system |
| Type: | | powered, DSP controlled | powered, DSP controlled | powered, DSP controlled |
| Max. SPL Continuous: | dB | 121 | 117 | 115 |

| | | | | |
|-------------------------|----|---|---|---|
| Max. SPL Peak: | | 132 | 130 | 126 |
| Frequency Range: | Hz | 35 – 19,000 | 37 – 20,000 | 45 – 19,000 |
| Dispersion (H x V):° | ° | 90 x 40 | 90 x 50 | 70 x 70 |
| SUBWOOFER | | | | |
| Woofers Size: | “ | 15 | 12 | 10 |
| Woofers Size: | mm | 381 | 304.8 | 254 |
| Woofers Magnet: | | ferrit | ferrit | ferrit |
| Woofers Brand: | | custom made | custom made | custom made |
| Woofers Voice Coil: | “ | 3 | 2.5 | 2 |
| Woofers Voice Coil: mm | | 76.2 | 63.5 | 50.8 |
| Cabinet design: | | bass reflex | bass reflex | bass reflex |
| Cabinet Material: | | 18 mm plywood | 15 mm plywood | 15 mm MDF |
| Cabinet Surface: | | texture paint | texture paint | texture paint |
| Width: | mm | 480 | 435 | 345 |
| Height: | mm | 570 | 500 | 430 |
| Depth: | mm | 635 | 540 | 460 |
| Weight: | kg | 41.5 | 31.5 | 19.5 |
| Features: | | LD SYSTEMS evolutive handles, threaded flange (M20) | LD SYSTEMS evolutive handles, threaded flange (M20) | LD SYSTEMS evolutive handles, threaded flange (M20) |
| MID/HI SYSTEM | | | | |
| Midrange Speaker Size: | “ | 8 | 6.5 | 5.25 |
| Midrange Speaker Size | mm | 203.2 | 165.1 | 133.4 |
| Midrange Speaker Magnet | | ferrit | ferrit | ferrit |

| | | | | |
|---------------------------------|-----|---|--|--|
| Midrange Speaker Brand: | | custom made | custom made | custom made |
| Midrange Speaker Voice Coil: | “ | 1.5 | 1.75 | 1 |
| Midrange Speaker Voice Coil: | mm | 38.1 | 44.5 | 25.4 |
| Horn: | | CD horn | CD horn | radial |
| HF Driver Size: | “ | 1 | 1 | 1 |
| HF Driver Size: | mm | 25.4 | 25.4 | 25.4 |
| HF Driver Magnet: | | ferrit | ferrit | neodymium |
| HF Driver Brand: | | custom made | custom made | custom made |
| HF Driver Voice Coil: | “ | 1 | 1 | 1 |
| HF Driver Voice Coil: | mm | 25.4 | 25.4 | 25.4 |
| Impedance Mid/Hi System: | Ohm | 4 | 4 | 4 |
| Mid/Hi Input Connector Speaker: | | Speakon compatible | Speakon compatible | Speakon compatible |
| Cabinet Design Mid/Hi: | | sealed | | |
| Cabinet Material Mid/Hi System: | | 15 mm plywood | | |
| Cabinet Surface Mid/Hi System: | | texture paint | | |
| Width: | mm | 275 | 250 | 200 |
| Height: | mm | 430 | 400 | 300 |
| Depth: | mm | 260 | 250 | 230 |
| Weight: | kg | 9.7 | 8.5 | 4 |
| Features Mid/Hi System: | | ergonomic milled handles, stand support adjustable vertically (SM707) | ergonomic milled handle, stand support adjustable vertically (SM707) | ergonomic milled handle, stand support (5° sloped) |

| AMP MODULE (INTEGRATED IN SUBWOOFER) | | | | |
|--------------------------------------|---|--|--|--|
| Amplification: | | Class A / B | Class A / B | Class A / B |
| Power System (RMS): | W | 700 | 500 | 350 |
| Power System (Peak): | W | 2,800 | 2,000 | 1,400 |
| Protection: | | short circuit, over-current, limiter | short circuit, over-current, limiter | short circuit, over-current, limiter |
| Cooling System: | | fan | fan | heatsink |
| Controls: | | Volume, Sub Level, 180° Phase Reverse, On / Off Switch | Volume, Sub Level, 180° Phase Reverse, On / Off Switch | Volume, Sub Level, 180° Phase Reverse, On / Off Switch |
| Indicators: | | On, Signal, Limit, Protect | On, Signal, Limit, Protect | On, Signal, Limit |
| Power Supply: | | transformer | transformer | transformer |
| Operating Voltage: | | 220 V AC – 240 V AC | 220 V AC – 240 V AC | 220 V AC – 240 V AC |
| Stereo Line Inputs: | | XLR/Jack 6.3 mm (combo), RCA | XLR/Jack 6.3 mm (combo), RCA | XLR/Jack 6.3 mm (combo), RCA |
| Stereo Line Outputs: | | XLR | XLR | |
| Stereo Powered Outputs Mid/Hi: | | Speakon compatible | Speakon compatible | Speakon compatible |

MANUFACTURER'S DECLARATIONS


MANUFACTURER'S WARRANTY & LIMITATIONS OF LIABILITY

You can find our current warranty conditions and limitations of liability at:

<http://www.adamhall.com/media/shop/downloads/documents/manufacturersdeclarations.pdf>. To request warranty service for a product, please contact Adam Hall GmbH, Daimler Straße 9, 61267 Neu Anspach / Email: Info@adamhall.com / +49 (0)6081 / 9419-0.

CORRECT DISPOSAL OF THIS PRODUCT



 (valid in the European Union and other European countries with a differentiated waste collection system)
 This symbol on the product, or on its documents indicates that the device may not be treated as household waste.

This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity. Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.

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, and
- (2) This device must accept any interference received, including interference that may cause undesired operation

CE Compliance

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

R&TTE (1999/5/EC) or RED (2014/53/EU) from June 2017

Low voltage directive (2014/35/EU)

EMV directive (2014/30/EU)

RoHS (2011/65/EU)

The complete declaration of conformity can be found at www.adamhall.com.

Furthermore, you may also direct your enquiry to info@adamhall.com.

Adam Hall GmbH | Daimlerstrasse 9 | 61267 Neu-Anspach | Germany

Tel. +49(0)6081/9419-0 | Fax +49(0)6081/9419-1000

web : www.adamhall.com | e-mail : mail@adamhall.com



Documents / Resources



[LD SYSTEMS LD DAVE G3 Series Active 2.1 DSP Based PA System](#) [pdf] User Manual
LD DAVE G3 Series Active 2.1 DSP Based PA System, LD DAVE G3 Series, Active 2.1 DSP Based PA System, 2.1 DSP Based PA System, DSP Based PA System, Based PA System, PA System

References

- [Eventtechnik Lösungen | Adam Hall Group](#)
- [Eventtechnik Lösungen | Adam Hall Group](#)
- [Eventtechnik Lösungen | Adam Hall Group](#)
- [LD Systems® | Your Sound. Our Mission.](#)