



## LD SYSTEMS LDMIX62AG3 LD MIX G3 Active 2-Way Loudspeaker with 4-Channel Mixer User Manual

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**LD SYSTEMS LDMIX62AG3 LD MIX G3 Active 2-Way Loudspeaker with 4-Channel Mixer**



### **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](http://WWW.LD-SYSTEMS.COM)

### **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. Keep a minimum distance of 20 cm around and above the device.

12. 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!
13. 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.
14. Make certain that objects cannot fall into the device.
15. Use this equipment only with the accessories recommended and intended by the manufacturer.
16. Do not open or modify this equipment.
17. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
18. During transport, make certain that the equipment cannot fall down and possibly cause property damage and personal injuries.
19. If your equipment is no longer functioning properly, if fluids or objects have gotten inside the equipment or if it has been damaged in any other 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.
20. Clean the equipment using a dry cloth.
21. Comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.
22. Plastic bags must be kept out of reach of children.
23. Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS**

24. **CAUTION:** If the power cord of the device is equipped with 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 main 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 authorized 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:**

To reduce the risk of electric shock, do not remove cover (or back). There are no user serviceable parts inside. Maintenance and repairs should be exclusively carried out by qualified service personnel.

- The warning triangle with lightning symbol indicates dangerous uninsulated voltage inside the unit, which may cause an electrical shock.
- The warning triangle with exclamation mark indicates important operating and maintenance instructions.
- The housing surface of the spotlight can heat up to temperatures as high as 70 °C in regular use. Ensure that it is not possible to come into contact with the housing unintentionally. Always allow sufficient time for the lamp to cool down before dismantling, carrying out maintenance work or charging etc.
- Warning! This device is designed for use below 2000 metres in altitude.
- Warning! This product is not intended for use in tropical climates.

**CAUTION! HIGH VOLUMES IN AUDIO PRODUCTS!**

This device is meant 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.

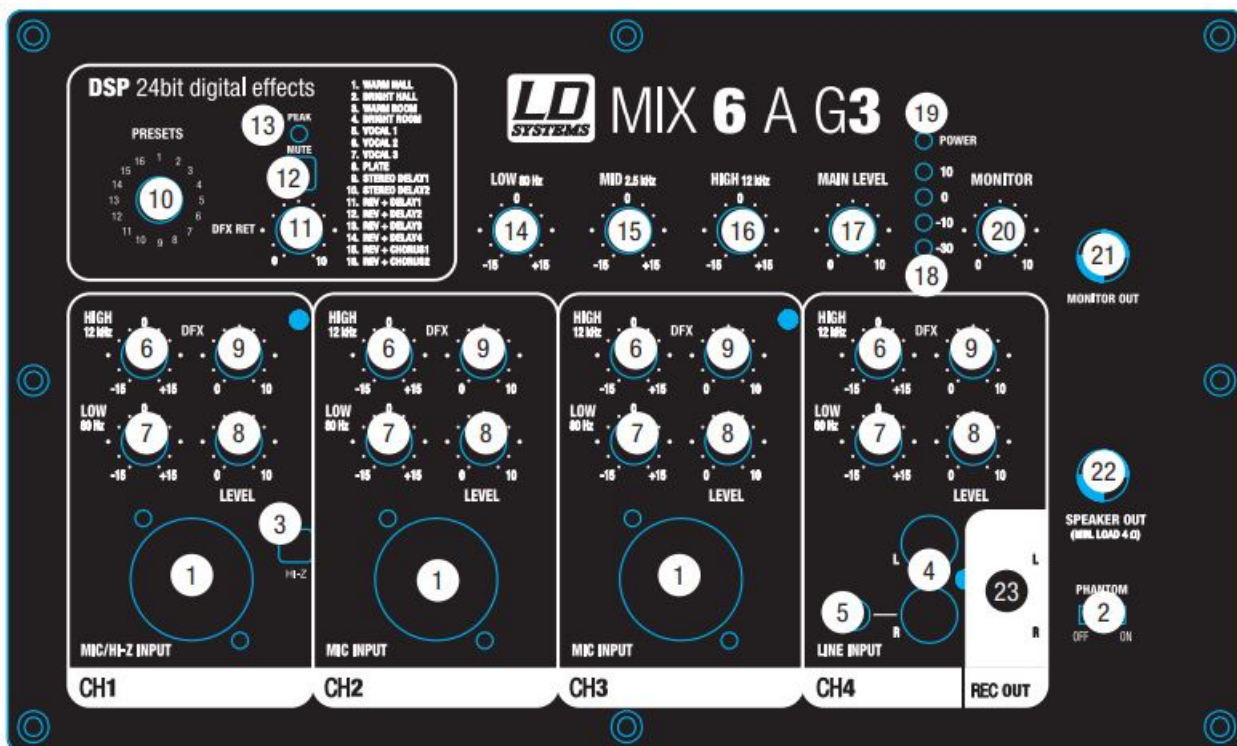
**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can 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 light, compact MIX 6 A G3 active and MIX 6 G3 passive speakers have 6.5" woofers with a frequency response of 80 Hz to 20 kHz and a dispersion angle of 80° x 50°. In combination, they are ideal for small PA and monitor applications. The integrated mixer of the MIX 6 A G3 offers one line channel and three microphone channels with 2-band equalizer, a switchable Hi-Z input, RSA outputs, phantom power and 24-bit digital effects.

## CONNECTIONS, OPERATING AND DISPLAY ELEMENTS MIX 6 A G3



### 1. MIC INPUT CH1 – CH3

Balanced microphone input (combined XLR / 6.3 mm jack). It is also possible to use an unbalanced microphone cable (mono jack). There is a switchable 15 V phantom power supply (switch no. 2).

### 2. PHANTOM ON / OFF

Switchable 15 V phantom power for the microphone inputs on channels 1 to 3 (CH1 – CH3) for use of a condenser microphone. In the ON position, the phantom power is on, in the OFF position it is switched off.

### 3. HI-Z

This pressure switch can be used to change the channel 1 (CH1) input to high-impedance (press switch to activate). This allows channel 1 to be used as an instrument channel, e.g. for an electric guitar.

### 4. LINE INPUT CH4 (CINCH L/R)

Unbalanced line input with cinch sockets to connect an input device (e.g. laptop, MP3 player). This stereo input is internally set to mono.

### 5. LINE INPUT CH4 (3.5 MM STEREO JACK)

Unbalanced line input with a 3.5 mm stereo jack socket. This stereo input is internally set to mono.

### 6. HIGH

Equalizer high band (12 kHz) for input channels 1 to 4 (CH1 – CH4). Turn anti-clockwise to reduce the treble and clockwise to increase. In central position (snap-in point) the equalizer is inactive.

### 7. LOW

Equalizer bass band (80 Hz) for input channels 1 to 4 (CH1 – CH4). Turn anti-clockwise to reduce the bass and clockwise to increase.

In central position (snap-in point) the equalizer is inactive.

### 8. LEVEL

Volume control for input channels 1 to 4 (CH1 – CH4).

### 9. DFX

Effect send control for input channels 1 to 4 (CH1 – CH4). The signal from the relevant channel is picked up

before the volume control (post fader) and sent to the internal effects device (DSP) according to the effect send control setting. Here, care must be taken to ensure that the input of the effects device is not overmodulated (watch PEAK LED).

10. **PRESETS**

Continuous rotary knob to select one of the 16 internal digital effects. A list of all effects is to be found to the right of the controls for the effects device (DSP).

11. **DFX RET**

The effects return control can be used to add the effects signal to the main signal (MAIN).

12. **MUTE**

Pressing the MUTE button mutes the internal effects device, causing the PEAK LED to light up continuously. Pushing the button again cancels mute status, and the PEAK LED goes off.

13. **PEAK LED**

The PEAK LED lights up when the input of the internal effects device is overmodulated (reduce DFX effect send level on channels 1 to 4) and when the internal effects device is muted (MUTE).

14. **LOW**

Equalizer bass band (80 Hz) for the main channel. Turn anti-clockwise to reduce the bass and clockwise to increase. In central position (snap-in point) the equalizer is inactive.

15. **MID**

Equalizer mid-range band (2.5 kHz) for the main channel. Turn anti-clockwise to reduce the mid-range and clockwise to increase. In central position (snap-in point) the equalizer is inactive.

16. **HIGH**

Equalizer high band (12 kHz) for the main channel. Turn anti-clockwise to reduce the treble and clockwise to increase. In central position (snap-in point) the equalizer is inactive.

17. **MAIN LEVEL**

Volume control for the main channel (main volume).

18. **MAIN LEVEL METER**

4-segment level meter display for the main channel. When the red LED lights up, the device is operating at the distortion limit. Brief illumination at level peaks in the received signal is uncritical, but permanent illumination should be avoided by reducing the volume level.

19. **POWER LED**

Goes on when the device is correctly connected to the mains and switched on.

20. **MONITOR**

Volume control for the monitor channel. The signal is identical to the main signal and picked up before the volume control of the main channel (MAIN LEVEL) so it can be adjusted independently.

21. **MONITOR OUT**

Balanced line input with a 6.3 mm jack socket. An additional active speaker can be connected. Level adjustment using the MONITOR volume control (no. 20).

22. **SPEAKER OUT**

Output (6.3 mm jack) with 70W RMS amplifier output for the passive speaker MIX 6 G3. The impedance of the connected speaker may not be less than 4 ohms. The volume is adjusted parallel to the main volume using the MAIN LEVEL volume control (no. 17). The signal is identical to the main signal.

## REC OUT

Line output with cinch sockets. The signal received is identical to the main signal and picked up before the volume control of the main channel (MAIN LEVEL) so it can be adjusted independently.

### 23. 110 – 120 V / 220 – 240 V

Switch to set the operating voltage. The mains voltage provided by your energy supplier and the operating voltage of your device must be the same!

### 24. IEC MAINS SOCKET WITH BUILT-IN FUSE HOLDER

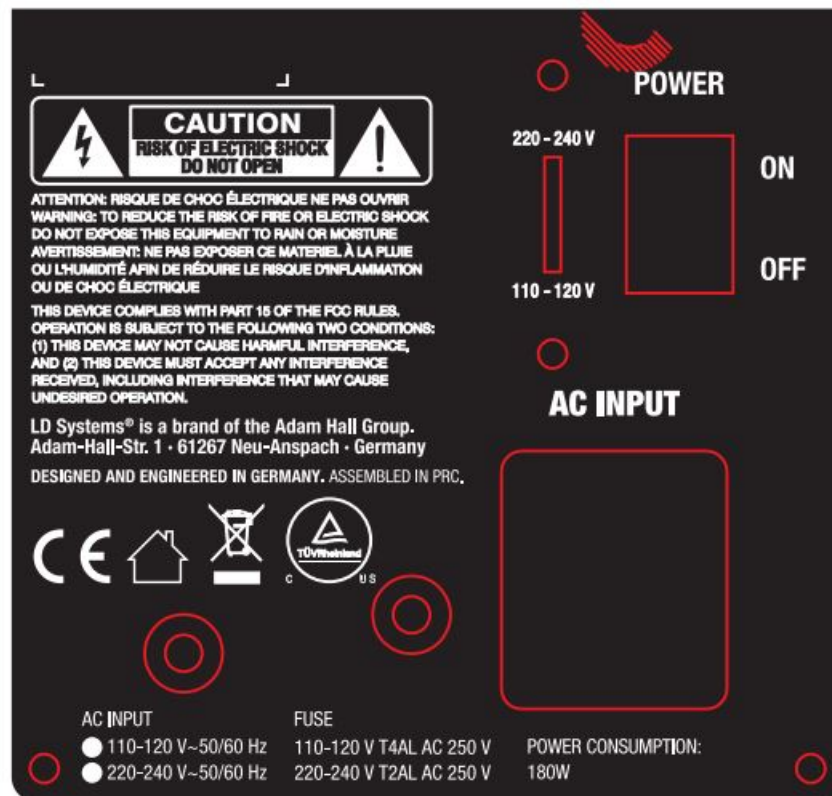
IMPORTANT: BEFORE you use the device make sure that the mains voltage provided by your energy supplier and the operating voltage of your device are the same! Replace the fuse only with a fuse of the same type and the same supply voltage (see label)!

In the event of repeated fuse failure, please contact an authorized service centre.

### 25. POWER ON / OFF

On / off switch for power supply to the device.

There is a 16 mm tripod flange (tripod optional) on two side panels for tripod mounting.



## MIX 6 G3 CONNECTION





### INPUT

The speaker input (6.3 mm jack socket) is on the back of the passive MIX 6 G3 speaker. There is a 16 mm tripod flange (tripod optional) on two side panels for tripod mounting.

### OPTIONAL ACCESSORIES

#### SPEAKER STANDS FOR 16 MM FLANGE

LDSPS16



**2X SPEAKER STAND WITH TRANSPORT BAG + SPEAKER CABLE 10 M FOR LDMIX62(A)G3**  
LDMIX6G2SET2





**TRANSPORT BAG FOR LDMIX62(A)G3**  
LDMIX6G2B



**TRANSPORT BAG FOR 2X LDMIX62(A)G3**  
LDMIX6G2B2



**SET OF 2X ADAPTER FLANGE 36MM TO 16MM**  
LDMIX6G2SET1



## WIRING EXAMPLE



## TECHNICAL DATA

<b>Model name:</b>	<b>LDMIX62AG3</b>
Product type:	PA speaker with built-in mixer
Type:	Active
Large woofers:	6.5"
Large woofers:	165.1 mm
Woofers brand:	Custom made
Large tweeters:	1"
Large tweeters:	25 mm
Tweeter brand:	Custom made
Dispersion angle (H x V):	80° x 70°
Frequency response:	80 Hz – 20,000 Hz
Amplifier:	Class D
Amplifier output (RMS):	2 x 70 W
Amplifier output (peak):	2 x 140 W
Max. SPL:	122 dB
Protective circuitry:	Limiter, short circuit, overvoltage, overload, temperature
<b>Mixer</b>	
Channels:	4
Microphone input channels:	3
Microphone input connection types:	XLR / combined XLR / 6.3 mm jack
Microphone input channel controls:	EQ high, EQ low, DFX send, level, Hi-Z switch (only channel 1)
Line input channels:	1
Line input channel connection type:	3.5 mm stereo jack, 2x cinch
Line input channel controls:	EQ high, EQ low, DFX send, level
Monitor line outputs:	1
Monitor line output connection type:	6.3 mm jack (balanced)
Monitor line output controls:	monitor volume
Record output:	1
Record output connection type:	2 x cinch
Amplified main output:	1
Amplified main output connection type:	6.3 mm jack (min. impedance 4 ohms)
<b>DSP digital effects device</b>	
Number of DSP programmes:	16
DSP controls:	Presets, DFX return, mute switch
DSP display elements:	Peak LED
<b>Main section</b>	
Main section controls:	EQ low, EQ mid, EQ high, main level, phantom power, voltage switch, power switch
Phantom power:	15 V
Main section display elements:	4-segment LED level meter, power LED
Mains connection:	IEC power socket
Power supply:	Transformer
Operating voltage:	110 V AC – 120 V AC, 50 – 60 Hz 220 V AC – 240 V AC, 50 – 60 Hz
Power consumption (max.):	220 W
Ambient temperature (for operation):	0°C – 40°C
Relative air humidity:	<85%, non-condensing

Housing	
Housing type:	Bass reflex
Housing material:	MDF
Housing surface:	Textured finish
Housing colour:	Black
Width:	323 mm
Height:	215 mm
Depth:	222 mm
Weight:	7 kg
Additional features:	2x 16 mm tripod flange, rubber feet

Model designation:	LDMIX62G3
Product type:	PA loudspeakers
Type:	Passive
Large woofers:	6.5"
Large woofers:	165.1 mm
Woofers brand:	Custom made
Large tweeters:	1"
Large tweeters:	25 mm
Tweeter brand:	Custom made
Dispersion angle (H x V):	80° x 70°
Frequency response:	80 Hz – 20,000 Hz
Amplifier output (RMS):	70 W
Amplifier output (peak):	140 W
Impedance:	4 ohms
Sensitivity (1W/ 1m):	90 dB
Max. SPL:	122 dB
Speaker connections:	1
Speaker connection type:	6.3 mm jack
Housing type:	Bass reflex
Housing material:	MDF
Housing surface:	Textured finish
Housing colour:	Black
Width:	323 mm
Height:	215 mm
Depth:	222 mm
Weight:	4.4 kg
Additional features:	2x 16 mm tripod flange, rubber feet

## MANUFACTURER'S DECLARATIONS

### MANUFACTURER'S WARRANTY & LIMITATIONS OF LIABILITY

You can find our current warranty conditions and limitations of liability at: [https://cdn-shop.adamhall.com/media/pdf/Manufacturers-Declarations-LDSYSTEMS\\_DE\\_EN\\_ES\\_FR.pdf](https://cdn-shop.adamhall.com/media/pdf/Manufacturers-Declarations-LDSYSTEMS_DE_EN_ES_FR.pdf). To request warranty service for a product, please contact Adam Hall GmbH, Adam-Hall-Str. 1, 61267 Neu Anspach / Email: [Info@adamhall.com](mailto: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

1. 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
2. any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**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.

#### **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](http://www.adamhall.com).

Furthermore, you may also direct your enquiry to [info@adamhall.com](mailto:info@adamhall.com)

#### **UKCA-CONFORMITY**

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)

#### **UKCA-DECLARATION OF CONFORMITY**

Products that are subject to Electrical Equipment (Safety) Regulation 2016, EMC Regulation 2016 or RoHS Regulation can be requested at [info@adamhall.com](mailto:info@adamhall.com)

Products that are subject to the Radio Equipments Regulations 2017 (SI2017/1206) can be downloaded from [www.adamhall.com/compliance/](http://www.adamhall.com/compliance/)

#### **EU DECLARATION OF CONFORMITY**

Hereby, Adam Hall GmbH declares that this radio equipment type is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: [www.adamhall.com/compliance/](http://www.adamhall.com/compliance/)

Misprints and errors, as well as technical or other changes are reserved!

#### **Documents / Resources**



[LD SYSTEMS LDMIX62AG3 LD MIX G3 Active 2-Way Loudspeaker with 4-Channel Mixer](#) [pdf] User Manual  
LDMIX62AG3, LDMIX62G3, LD MIX G3 Active 2-Way Loudspeaker with 4-Channel Mixer