

**LDsystems** LD  
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**LDPRE2 2 Channel  
Microphone And  
Line Mixer**



# LDsystems LDPRE2 2 Channel Microphone And Line Mixer User Manual

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your sound. our mission.

**LDsystems LDPRE2 2 Channel Microphone And Line Mixer**



## Specifications

- Product Name: PRE 2 – 2-Channel Microphone and Line Mixer LDPRE2
- Dimensions: 13 x X x X (please refer to manual for detailed dimensions)
- Website: [www.ld-systems.com/LDPRE2-downloads](http://www.ld-systems.com/LDPRE2-downloads)

## Product Usage Instructions

### Introduction

Congratulations on choosing the PRE 2 2-Channel Microphone and Line Mixer LDPRE2. This device has been designed to provide high-quality audio performance for your needs.

### Safety Instructions

Before operating the device, please read and understand all safety instructions provided in the manual to ensure safe usage.

### Connections and Setup

1. Identify the input and output connections on the device.
2. Connect microphones or line inputs to the appropriate channels.
3. Adjust the levels using the operating and display elements as needed.

### Maintenance and Care

- Regular maintenance is essential for optimal performance. Clean the device regularly and store it in a dry, dust-free environment.

### Under/On-Table Mounting

- If you choose to mount the device under or on a table, follow the instructions provided in the manual for secure installation.

### Disposal

- When disposing of the device, follow local regulations for electronic waste disposal to minimize environmental impact.

## FAQ

- **Q:** Where can I find the complete user manual for the PRE 2 LDPRE2?
  - **A:** You can download the complete user manual in multiple languages from the LD Systems website at [www.ld-systems.com/LDPRE2-downloads](http://www.ld-systems.com/LDPRE2-downloads).
- **Q:** What do the symbols in the manual indicate?
  - **A:** The symbols in the manual indicate different levels of warnings and hazards, such as immediate danger, potential danger, caution, and attention required. Please refer to the definitions section in the manual for detailed explanations.

## INTRODUCTION

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

### INFORMATION ON THIS SHORT MANUAL

- These instructions do not replace the detailed operating instructions ( [www.ld-systems.com/LDPRE2downloads](http://www.ld-systems.com/LDPRE2downloads) ).
- Please always read the detailed operating instructions first before operating the unit and observe the additional safety instructions contained therein!

### 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 ordered not to play with the device).

## SYMBOL EXPLANATIONS

### DEFINITIONS AND SYMBOL EXPLANATIONS

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



- This symbol identifies hazards that can cause electric shock.



- This symbol identifies hazardous areas or hazardous situations.



- This symbol indicates hazards caused by hot surfaces.



- This symbol indicates dangers due to high volume levels.



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



- This symbol denotes a device that does not contain any user-serviceable parts.



- This symbol indicates a device that may only be used in dry rooms.

## SAFETY INSTRUCTIONS

### DANGER:

1. Do not open the device and do not make any modifications.
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 mains. The 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 power cable of the device is damaged, do not operate the device.
4. Permanently attached power cables may only be replaced by a qualified person.

**ATTENTION:**

1. Do not switch on the device if it has been exposed to extreme temperature fluctuations (for example, following 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 supply correspond to the values indicated 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 power cables.
3. To disconnect the device from the mains at 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 specified on the device.
5. Make sure that appropriate measures have been taken against power surges (e.g. lightning strike).
6. Observe the specified maximum output current on devices with Power Out connection. Ensure that the total current consumption of all connected devices does not exceed the specified value.
7. Replace pluggable power cables only with original cables.

**DANGER:**

1. Danger of suffocation! 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 using only accessories of the type recommended and supplied by the manufacturer.
3. During installation, observe the safety regulations applicable in your country.
4. After connecting the device, check all cable routes to avoid damage or accidents, e.g. due to tripping hazards.
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.
2. In the case of devices with motor-driven components, there is a risk of injury due to the movement of the device. Sudden movement of the device can cause shock reactions.

**ATTENTION:**

1. Do not install or operate the device near any radiators, storage heaters, 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 ignition sources such as lighted candles near the device.
3. Ventilation openings must not be covered and fans must not be blocked.
4. Use the original packaging or packaging provided by the manufacturer for transport.
5. Avoid shock or impact to the device.
6. Observe the IP protection class as well as the ambient conditions such as temperature and humidity according to the specification.
7. Devices can be continuously further developed. In the event of any discrepancies between the operating instructions and the device labelling with regard to operating conditions, performance or other device characteristics, the information on the device always takes precedence.
8. The device is not suitable for tropical climates and for operation above 2000 m above sea level.

**CAUTION:**

- Connecting signal cables can cause significant interference noise. Make sure that devices connected to the output are muted when plugged in. Otherwise, noise levels may cause damage.

**CAUTION: 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 (SPL) that may cause hearing damage. Avoid exposure to high volumes.

**INSTRUCTIONS FOR INDOOR INSTALLATION EQUIPMENT**

1. Devices for installation applications are designed for continuous operation.
2. Devices for indoor installation are not weather-resistant.
3. Surfaces and plastic parts can age even in installation equipment, e.g. due to UV radiation and temperature fluctuations. This generally does not impair functionality.
4. With permanently installed devices, the accumulation of impurities, e.g. dust, is to be expected. Always observe the care instructions.
5. Unless explicitly stated otherwise on the device or in the technical data, the devices are intended for installation heights of less than 5 m.

**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 incomplete or damaged.

## The packaging includes:

- 1 x PRE 2 installation preamplifier
- 1 x power supply unit
- 1 set of terminal blocks
- 1 set of rubber feet (pre-assembled)
- 1 x mounting set for under- or on-table mounting
- User manual

## INTRODUCTION

Part of the TICA®series, the PRE2 is a compact two channel line and mic mixer. Ideal for smaller installations, mix stereo audio from any media source with a microphone for announcements.

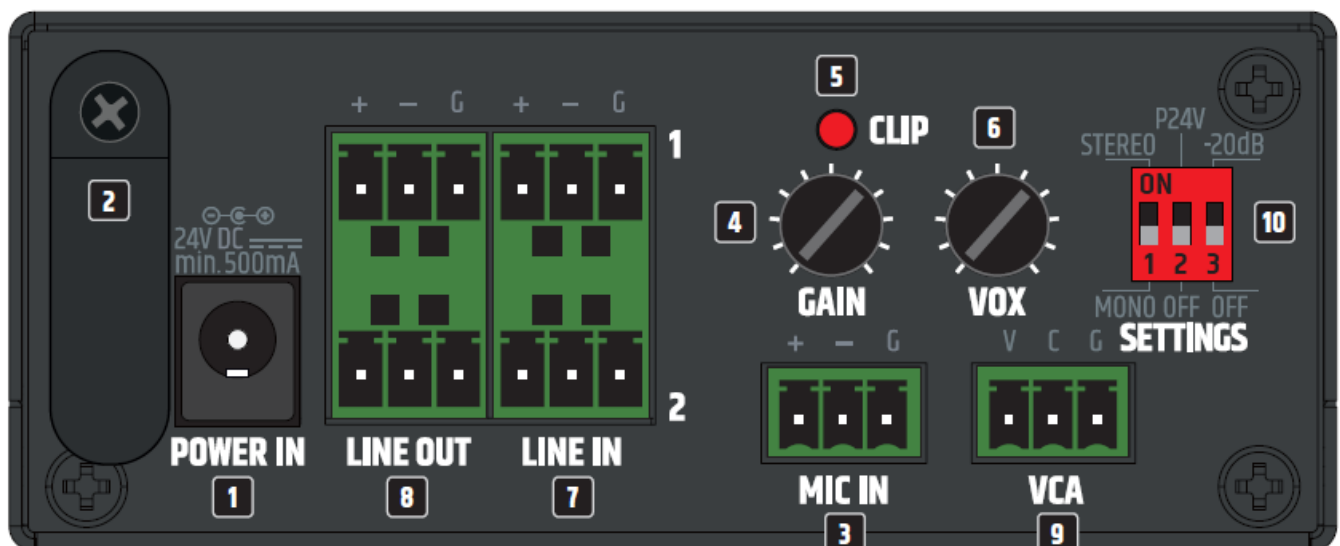
Incredibly easy to use with two simple volume control knobs, with signal presence and clip lights. The built in audio ducker function automatically reduces the music level when an announcement is being made. Connect a wired remote for simple master volume control. Dip switches let you configure it to work in stereo or mono mode.

Measuring 106 x 44 x 222, its convenient form factor and included mounting plates allow it to be installed discreetly almost anywhere. Alternatively, it fits into ¼ 19 inch rack. Use the optional rack tray to slot up to four TICA®series products alongside each other and build a system to your exact requirements, using minimal rack space. The PRE2 uses an external 24 V power supply. Terminal block connections for the analogue inputs and outputs make wiring easy.

## FEATURES

- 1x Balanced stereo line-Input
- 1x Mic Input with gain control
- Stereo line output (switchable to mono)
- Remote level control
- Automatic music ducking for announcements

## CONNECTIONS, OPERATING AND DISPLAY ELEMENTS



- 1. POWER IN

- Low voltage socket for supplying power to the device. To avoid damage to the device, please use only the original power supply (power supply unit included).
- **2. STRAIN RELIEF**
  - Use the strain relief for the flexible cable of the power supply unit to protect the low voltage socket, the low voltage plug and the cable of the power supply unit from damage and to prevent the plug from being pulled out unintentionally.
- **3. MIC IN**
  - Microphone input with 3-pole terminal block connection (terminal block included).
  - The poles +, – and G are intended for the balanced input signal.
- **4. GAIN**
  - Control for adjusting the pre-amplification of the microphone input signal. Adjust the gain control so that the corresponding clip LED only lights up briefly during signal level peaks. If the clip LED lights up permanently, reduce the gain. If necessary, the signal level can be attenuated by 20 dB (see section 10 SETTINGS)
- **5. CLIP**
  - The red CLIP LED lights up when the input is operated at the distortion threshold.
  - Reduce the signal level using the GAIN control so that the CLIP LED no longer lights up.
- **6. VOX**
  - The VOX control allows you to set an audio threshold for an automatic mute circuit that mutes the line inputs LINE IN 1 and 2 if the microphone input signal reaches the predefined level. When the input level of the microphone channel falls below the set threshold again, the muting of the line inputs is cancelled.
  - Adjust the channel volume using the MIC VOLUME control on the front of the unit.
- **7. LINE IN 1 + 2**
  - Analogue line inputs with balanced terminal block connections. The +, – and G poles are for the balanced input signal (suitable for unbalanced cabling). Terminal blocks are included in the packaging content.
- **8. LINE OUT 1 + 2**
  - Analogue line outputs with balanced terminal block connections. The poles +, – and G are intended for the balanced output signal (suitable for unbalanced cabling). Terminal blocks are included in the packaging content.
- **9. VCA**
  - Terminal block connection for connecting an external volume control for continuously variable attenuation of the mix volume at the LINE OUT line output. The mixing ratio of the microphone and line channels is maintained when adjusting the mix volume. The maximum volume (control to the right stop) corresponds to the volume that is reached when no external volume control is connected to the device. Please observe the correct assignment of the terminal block poles (see TERMINAL BLOCK CONNECTIONS in this manual).
- **10. SETTINGS**

DIP switch 1 MONO / STEREO:

  - **STEREO:** A stereo signal applied to LINE IN is output in stereo at the line output LINE OUT 1 / 2.
  - **MONO:** A stereo signal applied to LINE IN is summed to mono and output at the line output LINE OUT 1 / 2.

◦ **DIP switch 2 P24V:**

  - If a condenser microphone is used, 24 V phantom power must be activated (switch -> ON).



Always make sure that the microphone is connected and the channel volume is set to minimum before switching on phantom power. Before disconnecting the microphone from the device, turn the channel volume to minimum and then deactivate phantom power (switch -> OFF).

- **DIP switch 3 -20dB:**
- Switch for attenuating the signal level at the MIC IN microphone input by 20 dB (switch -> ON).



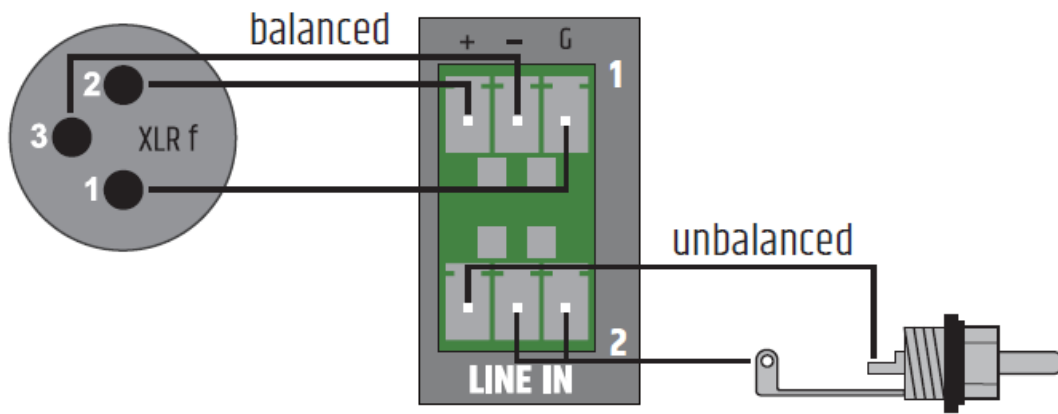
- **11. STANDBY BUTTON AND POWER SYMBOL**
  - Press the button to activate standby mode and again to deactivate standby mode. The power symbol lights up red when standby mode is activated. When standby mode is deactivated and the device is operational, the symbol lights up white.
- **12. MIC VOLUME**
  - Volume control for the microphone channel. Turning to the right increases the volume, turning to the left decreases it.
- **13. LINE VOLUME**
  - Volume control for the line channel. Turning to the right increases the volume, turning to the left decreases it.
- **14. SIG (SIGNAL)**
  - When an audio signal is present at the line output LINE OUT, the signal indicator lights up white.
- **15. CLIP**
  - The CLIP indicator lights up when the LINE OUT output is overloaded. If this occurs, reduce the volume level. Failure to do so may result in distorted sound reproduction and damage to connected equipment.

## AIR VENTS

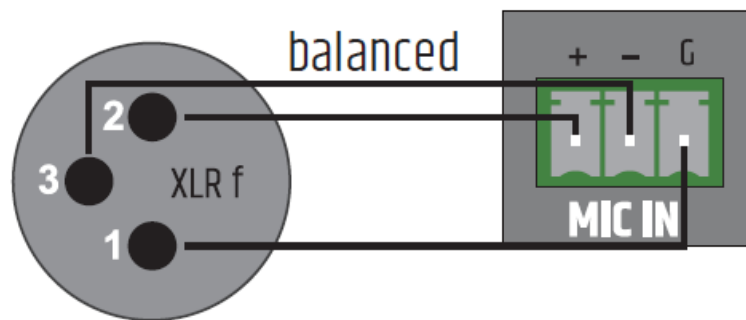
To prevent damage to the device, do not cover the ventilation openings on the left and right sides and on the top and bottom of the device and ensure that air can circulate freely. Covering the ventilation openings on the top or bottom of the enclosure when mounting it underneath or on top of a table is not critical, as the cooling provided by the ventilation openings on the remaining sides is sufficient.

## TERMINAL BLOCK CONNECTIONS

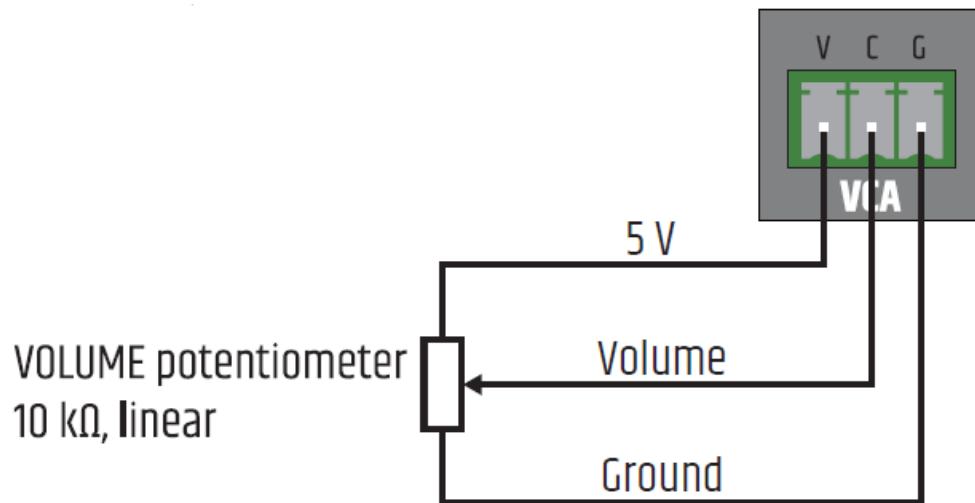
### Connections LINE IN 1 / 2



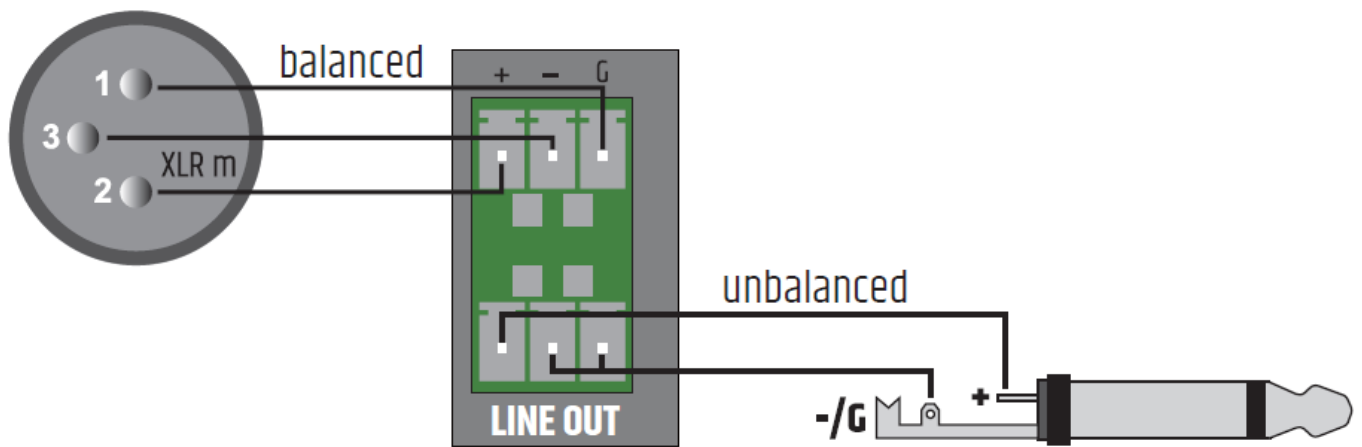
Connection MIC IN



Connection VCA



Connections LINE OUT



### ATTENTION

- When wiring terminal blocks, please note the correct assignment of the poles/ terminals. The manufacturer accepts no liability for damage caused by faulty wiring!

### Tip

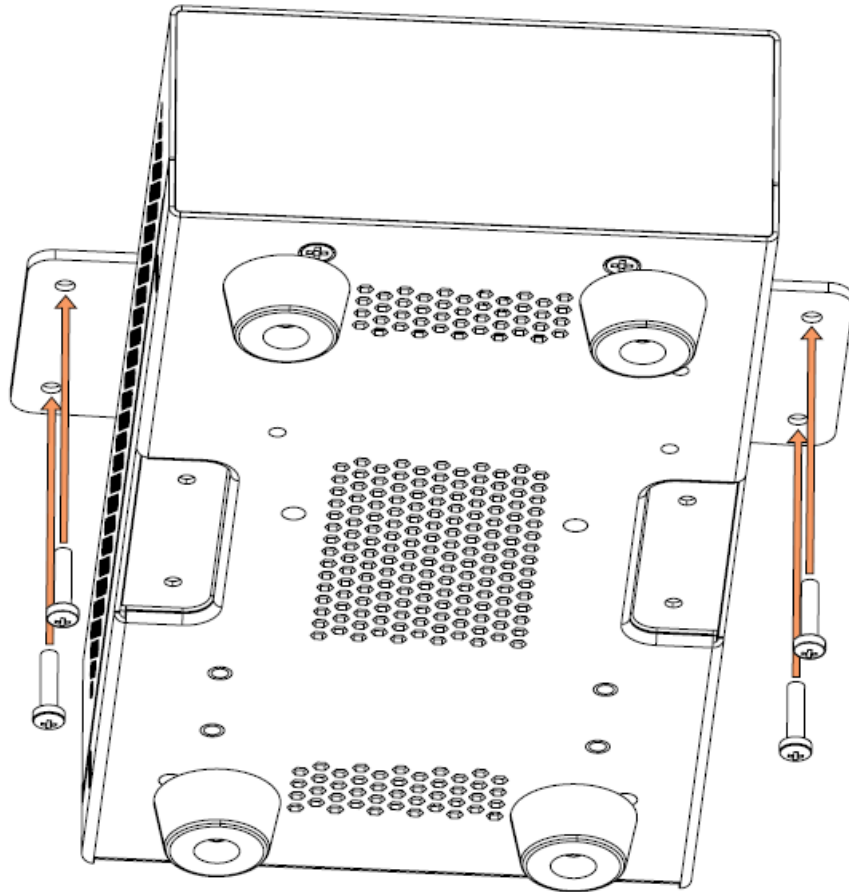
- For wiring analogue line inputs and outputs it is preferable to use balanced audio cables.

### CONNECTION EXAMPLE



## UNDER / ON-TABLE MOUNTING

There are two recesses on the top and bottom of the housing, each with two M3 threaded holes, for mounting underneath or on top of the table. Attach the two included mounting plates to the top or bottom using the included M3 countersunk screws. Now the amplifier can be mounted in the desired position (see illustration, mounting screws not included). For tabletop mounting, the four rubber feet must first be removed.



## 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 maintenance requirement 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.

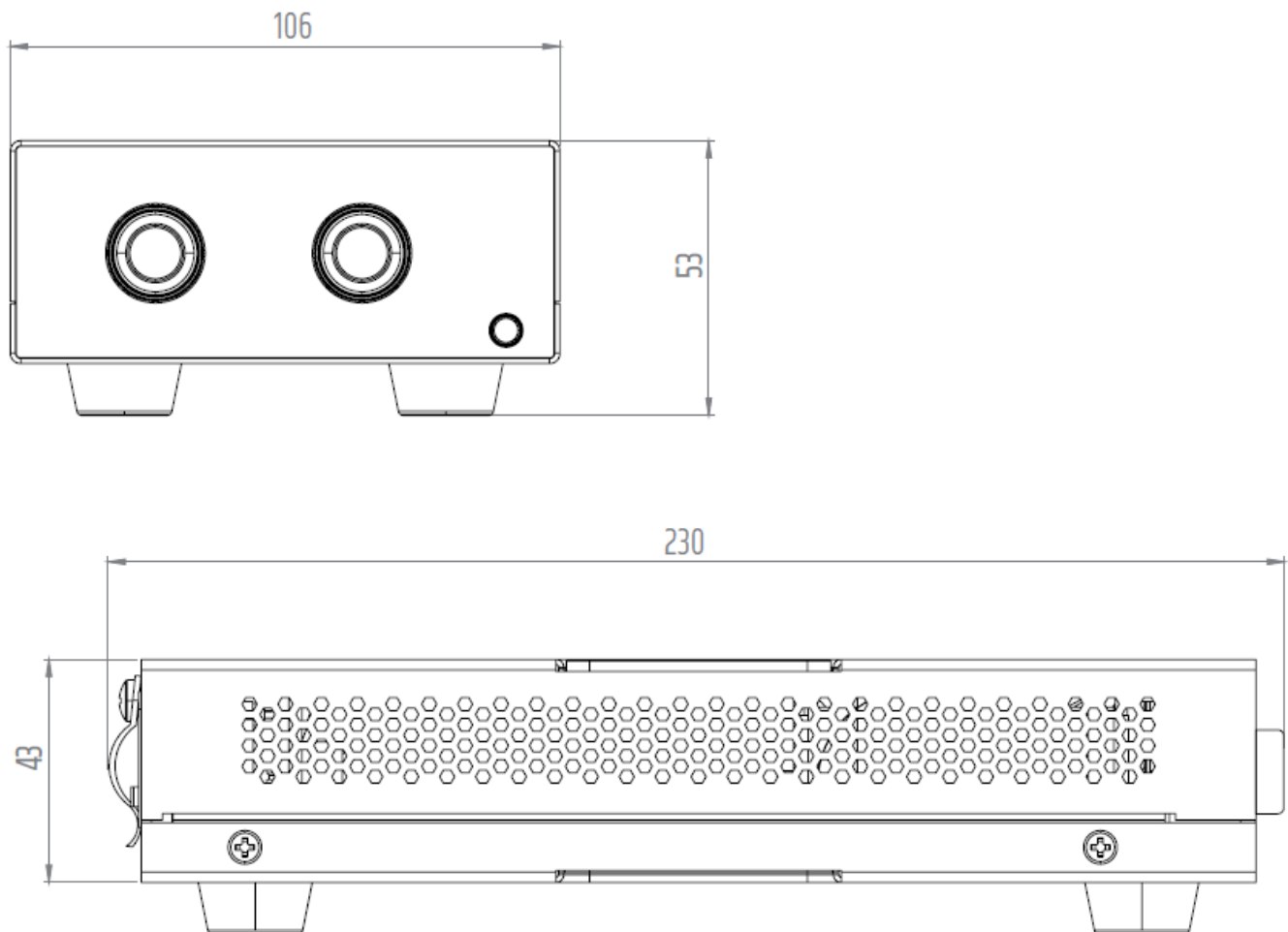
1. Housing surfaces must be cleaned with a clean, damp cloth. Make sure that no moisture can penetrate the device.
2. Air inlets and outlets must be regularly cleaned of dust and dirt. If compressed air is used, make sure that damage to the device is prevented (e.g. fans must be blocked in this case).
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 the mains connection, there may still be residual voltage in the device, e.g. due to charged capacitors.
- **PLEASE NOTE!** There are no user-serviceable assemblies in the device.
- **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.

## DIMENSIONS

### DIMENSIONS (mm)



## TECHNICAL SPECIFICATIONS

Item number	LDPRE2
Product type	Installation mixing preamplifier
Mic inputs	1
Line inputs	1 (Stereo)
Line outputs	1 (Stereo)
Cooling system	Convection cooling
Priority levels	2
<b>Mic input</b>	
Nominal input sensitivity	15 mVrms
Nominal input clipping	550 mVrms
THD+N	< 0.05%
Frequency response (-3dB)	150 Hz – 20 kHz
Input Impedance	Mic: 4 k Ohms
SNR	>85 dB
SNR (best conditions)	Mic: >90 dB
CMRR IEC	> 45 dB
Gain	Mic: 18 to 48 dB
Pad	-20 dB
Phantom power	+24 V, 10 mA Switchable
VOX threshold	Mic: 0%: Off, 25%: -40 dBu, 50%: -50 dBu, 100%: -63 dBu
Connector	3-pin Terminal Block, pitch 3.81mm
<b>Line input</b>	
Nominal input sensitivity	12 dBu (Sine 1 kHz, Gain max)
Nominal input clipping	14 dBu (Sine 1 kHz, Gain max)
THD+N	< 0.02% (20 – 20 kHz, Gain max, 20 kHz BW)
Frequency response	15 Hz – 30 kHz (-0.5 dB)
Input impedance	35 kOhms (Balanced)
SNR	>113 dB (Gain max (0 dB), VCA Level max, 22 kHz BW, A-weighted)
Stereo separation (crosstalk)	100dB (1kHz)
CMRR	> 50 dB
Gain	3dB
Connector	2x 3-pin Terminal Block, pitch 3.81mm

### Line Output

Connector	3-pin Terminal block, pitch 3.81mm
Maximum output level	16 dBu

### 3rd Party Control

Connector	3-pin Terminal block, pitch 3.5mm
Main volume (VCA)	10k (Linear Taper) External Potentiometer

### Power Supply

Type	External SMPS
Voltage range	100 VAC – 240 VAC ( $\pm 10\%$ ), 50 – 60 Hz
Power supply plugs	Type C – EU, Type A – USA/Canada, Type G – UK Type I – Australia
Power supply secondary	24 VDC / 500 mA
Max power consumption	6 W
Idle power consumption	5 W
Max. standby power consumption	0.4 W

### General

Housing material	Steel
Front panel material	Plastic
Dimensions (W x H x D)	106 x 54 x 227 mm (height with rubber feet)
Rack height	1 RU
Rack width	1/4 19"
Weight	0.8 kg
Operating temperature	0°C – 40°C
Max. operating humidity (non condensing)	85%
Included accessories	External power supply with interchangeable plugs, Mounting plates for surface mount applications
Optional accessories	Rack mounting hardware (LDTICARK)

## 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. Electronic devices and batteries do not belong in household waste. The device or batteries must be disposed of via an authorized 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 vendor of the product or the appropriate regional authorities.

## **MANUFACTURER'S DECLARATIONS**

### **MANUFACTURER'S WARRANTY & LIMITATIONS OF LIABILITY**

- Adam Hall GmbH, Adam-Hall-Str. 1, D-61267 Neu Anspach / E-mail [Info@adamhall.com](mailto: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](https://cdn-shop.adamhall.com/media/pdf/MANUFACTURERS-DECLARATIONS_LD_SYSTEMS.pdf).
- Contact your distribution partner for service.

### **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/)

### **CE CONFORMITY**

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

- R&TTE (1999/5/EC) or RED (2014/53/EU) as of June 2017.
- Low Voltage Directive (2014/35/EU)
- EMC 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 can also request it at [info@adamhall.com](mailto:info@adamhall.com).

## CE DECLARATION OF CONFORMITY

- Declarations of conformity for products subject to the LVD, EMC, RoHS Directive can be requested from [info@adamhall.com](mailto:info@adamhall.com).
- Declarations of conformity for products subject to RED Directive can be downloaded from [www.adamhall.com/compliance/](http://www.adamhall.com/compliance/).

Subject to misprints and errors, as well as technical or other modifications!

## CONTACT

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- **Phone:** +49 6081 9419-0
- [adamhall.com](http://adamhall.com)

### Adam Hall Ltd.

- The Seedbed Business Centre | SS3 9QY Essex | UK

[LD-SYSTEMS.COM](http://LD-SYSTEMS.COM)

## COMPLETE USER MANUAL

PRE 2 USER MANUAL ONLINE




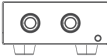

Scan this QR Code to get to the download section of LDPRE2.

Here you can get the complete User manual in the following languages: EN, DE, FR, ES, PL, IT

- [www.ld-systems.com/LDPRE2-downloads](http://www.ld-systems.com/LDPRE2-downloads)



## Documents / Resources

  	<p><a href="#">LDsystems LDPRE2 2 Channel Microphone And Line Mixer</a> [pdf] User Manual</p> <p>LDPRE2 2 Channel Microphone And Line Mixer, LDPRE2, 2 Channel Microphone And Line Mixer, Microphone And Line Mixer, And Line Mixer, Line Mixer, Mixer</p>
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## References

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