

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

LDsystems 



U500[®] SERIES
TRUE DIVERSITY WIRELESS SYSTEM

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ENGLISH

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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

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 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.

FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS

22. **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.
23. 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.
24. 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.
25. 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.
26. 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.
27. Whenever possible, avoid switching the equipment on and off in quick succession because otherwise this can shorten the useful life of the equipment.
28. **IMPORTANT INFORMATION:** Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service centre.
29. To disconnect the equipment from the power mains completely, unplug the power cord or power adapter from the power outlet.
30. 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.
31. 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.



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.

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.

INTRODUCTION

The radio transmission systems of the LD U500 Series offer professional performance and features including the automatic channel search and the convenient one-touch infrared synchronisation for easy set-up. With switchable RF power, pilot tone transmission, and a selection of dynamic and condenser microphones, U500 systems deliver excellent sound with advanced dynamics.

- Wireless True Diversity UHF microphone system
- Automatic channel scan for interference-free operation
- Frequency sync via infrared technology
- Individual user name
- Pilot tone for noise-free transmission
- Adjustable squelch
- Switchable transmission power (2, 10, or 30 mW)
- Hand-held and belt pack transmitter with comfortable Gain setting
- Mechanically decoupled capsules
- High-contrast OLED graphics display
- Simultaneous operation of up to 4 systems (LDU518) / up to 6 systems (LDU508 and LDU506UK) / up to 12 systems (LDU505 and LDU506)

The use of wireless microphone systems may require a license according to country-specific regulations. Please contact your local appropriate authority for more information.

SCOPE OF DELIVERY**Scope of delivery**

LDU5xxHHC: Single receiver plus hand-held transmitter and condenser capsule (cardioid), power supply, 2 x BNC antennas, audio cable, 2 x AA batteries, carrying case, instructions

LDU5xxHHD: Single receiver plus hand-held transmitter and dynamic capsule (cardioid), power supply, 2 x BNC antennas, audio cable, 2 x AA batteries, carrying case, instructions

LDU5xxBPH: Single receiver plus hand-held transmitter and headset (black), power supply, 2 x BNC antennas, audio cable, 2 x AA batteries, carrying case, instructions

LDU5xxBPHH: Single receiver plus hand-held transmitter and headset (skin coloured), power supply, 2 x BNC antennas, audio cable, 2 x AA batteries, carrying case, instructions

LDU5xxBPG: Single receiver plus hand-held transmitter and guitar cable, power supply, 2 x BNC antennas, audio cable, 2 x AA batteries, carrying case, instructions

LDU5xxBPL: Single receiver plus hand-held transmitter and lavalier microphone, power supply, 2 x BNC antennas, audio cable, 2 x AA batteries, carrying case, instructions

LDU5xxBPW: Single receiver plus hand-held transmitter and clip microphone for brass instruments, power supply, 2 x BNC antennas, audio cable, 2 x AA batteries, carrying case, instructions

LDU5xxHHC2: Dual receiver plus 2 x hand-held transmitter and condenser capsule (cardioid), power supply, 2 x BNC antennas, audio cable, 4 x AA batteries, carrying case, rack kit, instructions

LDU5xxHHD2: Dual receiver plus 2 x hand-held transmitter and dynamic capsule (cardioid), power supply, 2 x BNC antennas, audio cable, 4 x AA batteries, carrying case, rack kit, instructions

LDU5xxBPH2: Dual receiver plus 2 x hand-held transmitter and headset (black), power supply, 2 x BNC antennas, audio cable, 4 x AA batteries, carrying case, rack kit, instructions

LDU5xxBPHH2: Dual receiver plus 2 x hand-held transmitter and headset (skin coloured), power supply, 2 x BNC antennas, audio cable, 4 x AA batteries, carrying case, rack kit, instructions

An extensive selection of suitable LD U500 single components and accessories can be found at www.LD-SYSTEMS.COM

CONNECTIONS, CONTROLS AND INDICATORS



RECEIVER

1 POWER

On / Off switch. Press and hold the switch for approx. 2 seconds to turn the device on or off.

2 DISPLAY

Multi-functional OLED graphics display for displaying information such as radio frequency, radio signal level and audio signal level. Also indicates the menu items in order to adjust system settings as desired.

3 MENU

Combined pressure rotary encoder to access the Edit menu and to select and edit individual menu items.

4 VOL

Rotary encoder to adjust the audio signal volume of the audio outputs. As soon as volume changes are made, the volume setting will be shown immediately on the display (VOLUME 00 - 100). After approximately 3 seconds of inactivity, the display will automatically return to the main screen.

5

Infrared interface for synchronising the relevant system settings of the receiver and the transmitter (e.g. transmission frequency).

6 HEADPHONE OUTPUT

6.3 mm jack socket for connecting a headphone (dual receiver only).

7 HEADPHONE VOLUME LEVEL

Drehregler zum Einstellen der Kopfhörerlautstärke (nur Doppelpfänger).

8

Device for attaching the antennas for rack installation. Remove the covers, attach the BNC adapter to the front panel and connect the BNC antenna connectors (Fig. 11, dual receiver) to the BNC adapters on the front panel (short antenna cable and BNC adapter included). Now, the antennas can be attached to the front of the receiver.

9

Screw holes for 19" rack mounting.



10 DC SOCKET

Low-voltage socket for the power supply of the device. (Single receiver: DC 12V Plus internal/ 500 mA, Dual receiver: DC 12 V Plus internal/ 1000 mA). Please only use the power adapter included.

11 ANTENNA A/B

BNC antenna connector A and B. For optimal reception, please connect the supplied antenna to the connectors A and B and point them upward in "V" formation.

12 BALANCED OUTPUT

Balanced audio output with 3-pin XLR socket.

13 UNBALANCED OUTPUT

Unbalanced audio output with 6.3 mm jack socket.

14 INSTRUMENT / LINE

Level and impedance adjustment to instruments or line inputs for the unbalanced jack output. Using a suitable tool (e.g. a ball point pen), set the switch to the down position INSTRUMENT, when connecting the receiver to the input of an instrument amplifier (guitar amplifier, bass amplifier) and to the opposite position LINE, when connecting to the line input of a mixer or amplifier

15 BALANCED OUTPUT MIX OUT

Balanced audio output with 3-pin XLR socket (dual receiver only, signals from channels 1 and 2 are mixed).

16 UNBALANCED OUTPUT MIX OUT

Unbalanced audio output with 6.3 mm jack socket (dual receiver only, signals from channels 1 and 2 are mixed).

17 INSTRUMENT / LINE MIX OUT

Level and impedance adjustment to instruments or line inputs for the unbalanced jack output MIX OUT (dual receiver only). Using a suitable tool (e.g. a ball point pen), set the switch to the down position INSTRUMENT, when connecting the receiver to the input of an instrument amplifier (guitar amplifier, bass amplifier) and to the opposite position LINE, when connecting to the line input of a mixer or amplifier.

HANDHELD TRANSMITTER



BELT PACK TRANSMITTER



18 ON / OFF

On / Off switch. Set the switch to the ON position to turn the receiver on, and to the OFF position to turn it off.

19 DISPLAY

Multi-functional OLED graphics display for displaying the frequency group and channel, the username and battery status. Also indicates the menu items in order to adjust transmitter settings as desired.

20

Infrared interface for synchronising the relevant system settings with the receiver (e.g. transmission frequency).

21 MENU / SEL

Switch to access the Edit menu and to select individual menu items.

22

Switch to edit the individual menu options on the Edit menu.

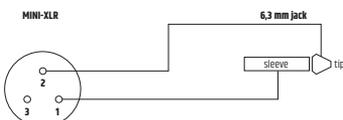
23 ANTENNA

Interchangeable antenna of the belt pack transmitter. For optimal reception, please do not obstruct or bend (belt pack transmitter only).

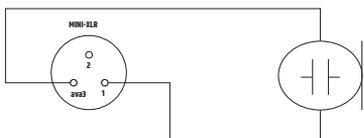
24 INPUT

3-pin mini XLR socket to connect a headset, lavalier or instrument microphone, as well as a guitar cable (belt pack transmitter only).

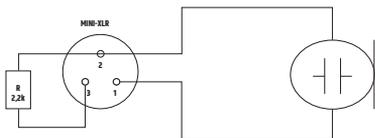
BELTPACK MINI-XLR PIN ASSIGNMENT



Guitar & Bass and other high impedance sources.



Condenser with internal pull up resistor.



Condenser without internal pull up resistor.

RECEIVER OPERATION

When operating the wireless transmission system, be sure to place the receiver in the line of sight of the transmitter. For optimal reception, perform the automatic frequency search after switching on the receiver. Leave the corresponding transmitter off, but other radio systems turned on, if necessary. For the operating steps, see **FREQ AUTO RUN**.

DISPLAY

After switching on the receiver, “**WELCOME**” appears for a short time, then the main screen displays the following information: individual username, battery status, radio signal level (RF), active antenna (A / B), level of the audio signal, frequency group and channel (GR.xx and CH.xx) and the radio frequency in MHz.



IR SYNC RUN

To synchronize the transmitter with the radio frequency set in the receiver and the individual username, bring the infrared port of the transmitter in direct visual contact with the infrared port of the receiver (distance approx. 10 cm) and turn on the transmitter. Now press the pressure rotary encoder of the receiver (MENU) to access the Edit menu and select the menu item **IR SYNC RUN** by rotating the encoder (light background). Press again on MENU to initiate the synchronization process. After a few seconds, the process is completed and the display of the transmitter switches for a short time to “IR SYNC ✓”, confirming successful synchronization. To cancel the operation, press MENU. Press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown.



FREQ AUTO RUN

Automatic frequency search (frequency scan) to determine an interference-free radio frequency in the current environment and to allow for optimal reception. For this purpose, leave the corresponding transmitter off, but other radio systems turned on, if necessary. Press the pressure rotary encoder (MENU) to access the Edit menu and select the menu item **FREQ AUTO RUN** by rotating the encoder (light background). To initiate the process, press again on MENU. Progress is now indicated on the display by an animation and the scanning process is completed after approx. 30 seconds (to cancel, press MENU). The resulting frequency is automatically enabled and, as in “IR SYNC RUN”, you can now switch on the transmitter and synchronize it with the receiver. Press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown.



GROUP

Menu item to adjust the frequency group. The LD U500 wireless system has 8 frequency groups, which can be selected as desired. Press the pressure rotary encoder (MENU) to access the Edit menu and select the menu item **GROUP** by rotating the encoder (light background). Press MENU again and select one of the groups 01 to 08 by rotating the encoder. To confirm, press MENU. Pressing MENU once more will take you up one level in the menu structure. Press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown.



CHANNEL

Menu item to adjust the frequency channel. The LD U500 wireless system has 8 frequency groups featuring 12 channels each, which can be selected as desired. Press the pressure rotary encoder (MENU) to access the Edit menu and select the menu item **CHANNEL** by rotating the encoder (light background). Press MENU again and select one of the channels 01 to 12 by rotating the encoder. To confirm, press MENU. Pressing MENU once more will take you up one level in the menu structure. Press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown.



FREQ MAN

Manual adjustment of the radio frequency in 25 kHz increments. Press the pressure rotary encoder (MENU) to access the Edit menu and select the menu item **FREQ MAN** by rotating the encoder (light background). Press MENU and adjust the frequency in the MHz range by rotating the encoder. Press MENU again and adjust the frequency in the kHz range in 25 kHz increments by rotating the encoder. To confirm, press MENU. Pressing MENU once more will take you up one level in the menu structure. Press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown. The display will now show U for user under group GR. and CH.1 under channel.



NAME

To clearly assign transmitters and receivers to a specific performer, you have the ability to show names, numbers, or characters on the display. Press the pressure rotary encoder (MENU) to access the Edit menu and select the menu item **NAME** by rotating the encoder (light background). Press MENU and then, as desired, select the letter, number or symbol for the first of the 8 digits provided by rotating the encoder and confirming with MENU; now, the second digit can be set as desired, etc. Once the last digit has been confirmed, pressing MENU again will take you to a higher level in the menu structure. Press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown. In addition to the radio frequency, the name is also transferred to the transmitter when synchronizing.



PILOT TONE

The pilot tone feature protects a wireless microphone system against interference of unwanted signals, for example from other radio equipment. The transmitter adds a second inaudible signal, the pilot tone, to the signal to be transmitted. The receiver identifies this as the matching pilot tone and frees the corresponding signal. Signals without pilot tone remain muted. Press the pressure rotary encoder (MENU) to access the Edit menu and select the menu item **PILOT TONE** by rotating the encoder (light background). Press again on MENU and using the encoder, select ON, for initiating pilot tone (right turn), or OFF for pilot tone equipment switched off (turn left). To confirm, press MENU. Pressing MENU once more will take you up one level in the menu structure. Press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown.



SQUELCH

The squelch control prevents unwanted background noise when the transmitter is turned off. In addition, sudden background noises are suppressed when the signal transmitted from the transmitter to the receiver is not strong enough (for instance because of excessive distance). Set the squelch control (with the transmitter switched off) to the lowest setting, which still effectively suppresses background noises. In unfavourable conditions, in the "HIGH" setting, the transmission range may decrease. Press the pressure rotary encoder (MENU) to access the Edit menu and select the menu item **SQUELCH** by rotating the encoder (light background). Press MENU again and select the optimum setting for your application by rotating the encoder (LOW = low, MID = mid and HIGH = high threshold). To confirm, press MENU. Pressing MENU once more will take you up one level in the menu structure. Press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown.

**BRIGHTNESS**

Menu item to adjust the brightness of the display illumination. Press the pressure rotary encoder (MENU) to access the Edit menu and select the menu item **BRIGHTNESS** by rotating the encoder (light background). Press MENU again and select the optimum setting for your application by rotating the encoder (LOW = low, MID = mid and HIGH = high brightness). To confirm, press MENU. Pressing MENU once more will take you up one level in the menu structure. Press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown.

**PANEL LOCK**

To protect the receiver against accidental and unauthorised operation, it is possible to initiate an automatic locking of the controls. Press the pressure rotary encoder (MENU) to access the Edit menu and select the menu item **PANEL LOCK** by rotating the encoder (light background). Press again on MENU and using the encoder, select ON, for initiating the automatic lock (right turn), or OFF to switch it off (turn left). To confirm, press MENU. Pressing MENU once more will take you up one level in the menu structure. Press briefly(!) on POWER to return directly to the main display. If the automatic lock is activated, after approx. 10 seconds, "DISPLAY IS LOCKED" is displayed for a short time and also if one of the controls is activated; a change to the settings of the receiver via the control elements is then not possible. Press and hold the pressure rotary encoder for approx. 3 seconds to unlock the control elements ("DISPLAY IS UNLOCKED" is displayed for about 1 second).

**EXIT**

To exit the Edit menu and return to the main display, select **EXIT** (light background) by rotating the pressure rotary encoder and press MENU. Alternatively, press briefly(!) on POWER to return directly to the main display. After about 10 seconds of inactivity, the main display is automatically shown.

**BATTERY STATUS**

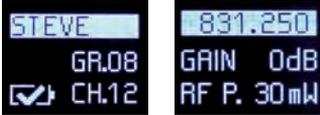
The battery status of the corresponding transmitter will appear on the display and is constantly updated. When the battery is fully charged, the icon (= approx. 70%, = approx. 30%) will appear. As soon as the icon for "low battery" is displayed, the display changes to "LOW BATTERY" and shows approximately every 5 seconds. Replace the batteries immediately.



TRANSMITTER OPERATION

MAIN DISPLAY

After switching on the transmitter, the main screen displays the following information: username, frequency group and channel (GR.xx and CH.xx) and battery status. Remove the battery compartment cover on the transmitter to release the controls SEL and arrow buttons (hand-held transmitter: remove the screwable cover shell by rotating it to the left, belt pack transmitter: pull cover shell by pressing on the markings on the sides of the housing). Now press the arrow button, and the radio frequency, gain and transmission power are displayed (back with arrow button).



GAIN

To avoid distortions and to adjust the transmitter optimally to the input audio signal, it is possible to adjust the audio levels in 3dB increments from 0dB to -27dB. Open the battery compartment cover as previously described to reveal the controls. Press SEL to access the Edit menu and press SEL repeatedly, if necessary, to select the menu item **GAIN** (light background). Now lower the audio level if necessary by repeatedly pressing the arrow button until you have no more distortion and the peak indicator AF PK in the display of the receiver goes out (watch out for peak levels). To exit the menu item, press SEL, call up the menu item EXIT by pressing SEL repeatedly if necessary, and confirm by pressing the arrow button. After approximately 10 seconds of inactivity, the display will automatically return to the main screen.



RF POWER

Adjust the output power of the transmitter according to the application (recommendation: outdoors = 30mW, stage = 10mW, conference setting = 2mW). Open the battery compartment cover as previously described to reveal the controls. Press SEL to access the Edit menu and press SEL repeatedly, if necessary, to select the menu item **RF POWER** (light background). Now, using the arrow keys, select the desired output power (30mW, 10mW, 2mW - in the frequency range of 863 - 865 MHz, the output power is automatically reduced to 10 mW in accordance with legal requirements). To exit the menu item, press SEL, call up the menu item EXIT by pressing SEL repeatedly if necessary, and confirm by pressing the arrow button. After approximately 10 seconds of inactivity, the display will automatically return to the main screen.



EXIT

In order to exit the Edit menu and return to the main display, call up the menu item **EXIT** and confirm by pressing the arrow button. After approximately 10 seconds of inactivity, the display will automatically return to the main screen.



BATTERY STATUS

The battery status of the transmitter will appear in the display and is constantly updated. When the battery is fully charged, the icon (= approx. 70%, = approx. 30%) will appear. As soon as the icon for "low battery" is displayed, the display changes to "LOW BATTERY" and shows approximately every 5 seconds. Replace the batteries immediately.



ATTACHING THE PACK TRANSMITTER

Attach the transmitter to a belt or strap as shown below.



BATTERY REPLACEMENT

Open the battery compartment of the hand-held transmitter by turning the battery compartment cover counter-clockwise and pull it from the housing. Remove the used batteries and insert new batteries (AA, Mignon) as shown on the illustration inside the battery compartment. Replace the battery compartment cover on the housing and close the battery compartment by turning clockwise. If the transmitter is not in use for a long period of time, remove the batteries from the battery compartment on the transmitter to avoid damage caused by defective batteries.

Open the battery compartment of the hand-held transmitter by pressing on both markings on the sides of the battery compartment cover (Fig. A) and pull it away until it stops. Remove the used batteries and insert new batteries (AA, Mignon) as shown on the illustration inside the battery compartment. Slide the battery compartment cover back onto the housing until the cover clicks into place. If the transmitter is not in use for a long period of time, remove the batteries from the battery compartment on the transmitter to avoid damage caused by defective batteries.



TROUBLESHOOTING

| PROBLEM | DISPLAY | SOLUTION |
|------------------------------|--|---|
| No audio signal or low level | Receiver: Reception is not displayed on antenna A or B. | Verify that the transmitter is turned on. Check the batteries in the transmitter. |
| | Receiver: Display light is off | Check the power supply in the transmitter. |
| | Receiver: Reception is not displayed on antenna A or B. Transmitter: Device is turned on. Charge status of the batteries is ok. | Check whether radio frequency of transmitter and receiver match. Check the transmission output. Reduce the distance between transmitter and receiver. Make sure that there is a direct line of sight between the transmitter and receiver. Make sure that the antennas of the receiver are aligned upward and into a V-shape. Reduce the amount of noise reduction (SQUELCH) |
| | Receiver: Neither antenna A nor antenna B LED is displayed. | Increase the signal level or check the GAIN setting on the transmitter. |
| Distortion and interference | Receiver: Radio signal is displayed | Remove possible sources of interference (digital devices, other wireless systems). Increase the level of noise reduction (MUTE level) on the receiver. |
| Distorted sound | Transmitter and Receiver: "LOW BATTERY" is displayed. Receiver: AF PK peak indicator is displayed on the receiver display. | Replace the batteries in the transmitter. Increase the signal level or lower the audio level GAIN on the transmitter. |

OPTIONAL ACCESSORIES

LDU500CH - Microphone head with condenser capsule and hyper cardioid directivity (matt black)

LDU500DH - Microphone head with dynamic capsule and hyper cardioid directivity (matt black)

LDU500CC - Microphone head with condenser capsule and hyper cardioid directivity (matt silver)

LDU500DC - Microphone head with dynamic capsule and hyper cardioid directivity (matt silver)

LDU500RK - 19" rack installation kit for mounting a single receiver (2 rack brackets, 2 BNC adapters, 2 short antenna cables and 1 set of screws included).



LDU500RK2 - 19" rack installation kit for mounting a dual receiver (2 rack brackets, 2 connectors and 1 set of screws included).



MOUNTING



1

Screw the connectors (receiver A right, receiver B left).

2

Place both receivers together and screw into place.

3

Screw the rack brackets (receiver A right, receiver B left).

An extensive selection of suitable LD U500 wireless systems and further accessories can be found at www.LD-SYSTEMS.COM

SPECIFICATIONS

Receiver

| | | |
|------------------------|--|---------------|
| Model name: | LDU50xR | LDU50xR2 |
| Receiver type: | true diversity | |
| Modulation: | FM | |
| Frequency range: | 823 - 832 MHz & 863 - 865 MHz (LDU508), 584 - 607 MHz (LDU505), 655 - 679 MHz (LDU506), 604 - 614 MHz (LDU506UK), 1785 - 1800 MHz (LDU518) | |
| Channels: | 96 (8 x 12) | |
| Groups: | 8 | |
| Antenna connectors: | 2 x BNC | |
| Antenna Gain: | 2.15 dBi | |
| Frequency response: | 30 - 16.000 Hz | |
| Noise Reduction: | adjustable squelch | |
| THD: | <0.1% | |
| Signal-to-noise ratio: | >100dB | |
| Balanced output: | XLR | 2 x XLR |
| Balanced mix output: | XLR | |
| Unbalanced output: | 6.3 mm jack | 2x 6.3mm jack |
| Unbalanced mix output: | 6.3 mm jack | |

| | | |
|----------------------------------|--|--|
| Headphones output: | 6.3 mm stereo jack | |
| Audio output level (balanced): | +10dBu | |
| Audio output level (unbalanced): | +6dBV / 0dBV (Switchable Line / Instrument) | |
| Controls: | POWER on/off, MENU push-turn-control, VOL Volume control, switch INSTRUMENT/LINE | POWER on/off, 2x MENU push-turn-control, 2x VOL Volume control, 2x switch INSTRUMENT/LINE, headphones volume control |
| Indicators: | multifunctional OLED-graphic display, | 2 x multifunctional OLED-graphic display |
| Operating voltage: | 12V DC, 500 mA | 12V DC, 1000 mA |
| Operating temperature range: | 5°C ... 40°C | |
| Relative humidity in operation: | 20% ... 80% (non condensing) | |
| Dimensions (W x H x D): | 212 x 44 x 159mm | 484 x 44 x 200mm |
| Weight: | 0.95kg | 2.05 kg |
| Accessories included: | power adapter, 2 x antenna, audio cable | power adapter, 2 x antenna, audio cable, rack kit |
| Features: | channel scan function, infrared frequency synchronisation, pilot tone | |

Handheld transmitter

| | | |
|---------------------------------------|--|------------|
| Model name: | LDU50xMD | LDU50xMC |
| Modulation: | FM | |
| Frequency range: | 823 - 832 MHz & 863 - 865 MHz (LDU508), 584 - 607 MHz (LDU505), 655 - 679 MHz (LDU506), 604 - 614 MHz (LDU506UK), 1785 - 1800 MHz (LDU518) | |
| Channels: | 96 (8 x 12) | |
| Groups: | 8 | |
| Microphone type: | dynamic | condenser |
| Polar pattern: | cardioid | cardioid |
| Frequency response: | 60 - 16.000 Hz | |
| THD: | <0.2% @ 1kHz | |
| Signal-to-noise ratio: | >95 dB | |
| RF output power: | 2mW, 10mW, 30mW switchable and depending on the RF-Range | |
| Antenna Gain: | 0.5 dBi | |
| Controls: | Power on/off, Select, Arrow button | |
| Indicators: | multifunctional OLED-graphic display | |
| Power supply: | 2 x AA battery | |
| Operating time: | up to 10 h (depending on batteries) | |
| Operating temperature range: | 5°C ... 40°C | |
| Relative humidity range in operation: | 20% ... 80% (non condensing) | |
| Dimensions (L x Ø): | 257 x 51mm | 257 x 50mm |
| Weight (without batteries): | 0.2 kg | 0.21kg |
| Accessories included: | 2 x AA battery | |
| Features: | infrared frequency synchronisation | |

Bodypack transmitter

| | | |
|------------------|--|--|
| Model name: | LDU50xBP | |
| Modulation: | FM | |
| Frequency range: | 823 - 832 MHz & 863 - 865 MHz (LDU508), 584 - 607 MHz (LDU505), 655 - 679 MHz (LDU506), 604 - 614 MHz (LDU506UK), 1785 - 1800 MHz (LDU518) | |

| | |
|---------------------------------------|---|
| Channels: | 96 (8 x 12) |
| Groups: | 8 |
| Input: | 3-pin mini-XLR (Low-Z/High-Z) |
| Frequency response: | 30 - 16.000 Hz |
| THD: | <0.1% @ 1kHz |
| Signal-to-noise ratio: | >90 dB |
| RF output power: | 2mW, 10mW, 30mW switchable and depending on the RF -Range |
| Antenna Gain: | 0.5 dBi |
| Controls: | Power on/off, Select, Arrow button |
| Indicators: | multifunctional OLED-graphic display |
| Power supply: | 2 x AA batteries |
| Operating time: | up to 10 h (depending on batteries) |
| Operating temperature range: | 5°C ... 40°C |
| Relative humidity range in operation: | 20% ... 80% (non condensing) |
| Dimensions (W x H x D): | 65 x 86 x 23 mm |
| Weight (without batteries): | 0,09 kg |
| Accessories included: | 2 x AA battery |
| Features: | infrared frequency synchronisation |

| Microphones | | | | |
|-----------------------|---|-----------------------------------|---|-----------------------------------|
| Model name: | LDWS100MH1 | LDWS100MH3 | LDWS100ML | LDWS1000MW |
| Microphone type: | headset | headset | lavalier microphone | wind instrument microphone |
| Capsule: | back-electret condenser | back-electret condenser | back-electret condenser | back-electret condenser |
| Polar pattern: | cardioid | cardioid | cardioid | cardioid |
| Frequency response: | 20 - 20.000 Hz | 70 - 16.000 Hz | 20 - 20.000 Hz | 50 - 18.000 Hz |
| Connector: | 3-pin mini-XLR | 3-pin mini-XLR | 3-pin mini-XLR | 3-pin mini-XLR |
| Accessories included: | foam windscreen | foam windscreen | foam windscreen | foam windscreen |
| Features: | | skin coloured | | |
| Model name: | LDU500CC | LDU500DC | LDU500CH | LDU500DH |
| Microphone type: | Microphone head for U500 handheld | Microphone head for U500 handheld | Microphone head for U500 handheld | Microphone head for U500 handheld |
| Capsule: | back-electret condenser | dynamic | back-electret condenser | dynamic |
| Polar pattern: | cardioid | cardioid | hyper cardioid | hyper cardioid |
| Connector: | LDU500 screw connection | LDU500 screw connection | LDU500 screw connection | LDU500 screw connection |
| Colour: | matt silver | matt silver | matt black | matt black |
| Features: | low noise -FET impedance converter, customized shock mount, gold contacts | shock mount, gold contacts | low noise -FET impedance converter, customized shock mount, gold contacts | shock mount, gold contacts |

Guitar cable

| | |
|--------------|----------------|
| Model name: | LDU500GC |
| Connector 1: | 3-pin mini-XLR |
| Connector 2: | 6.3 mm jack |
| Length: | 0.8 m |

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_LD_SYSTEMS.pdf To request warranty service for a product, please contact Adam Hall GmbH, Adam-Hall-Str. 1, 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):

RoTTE (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.

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/

