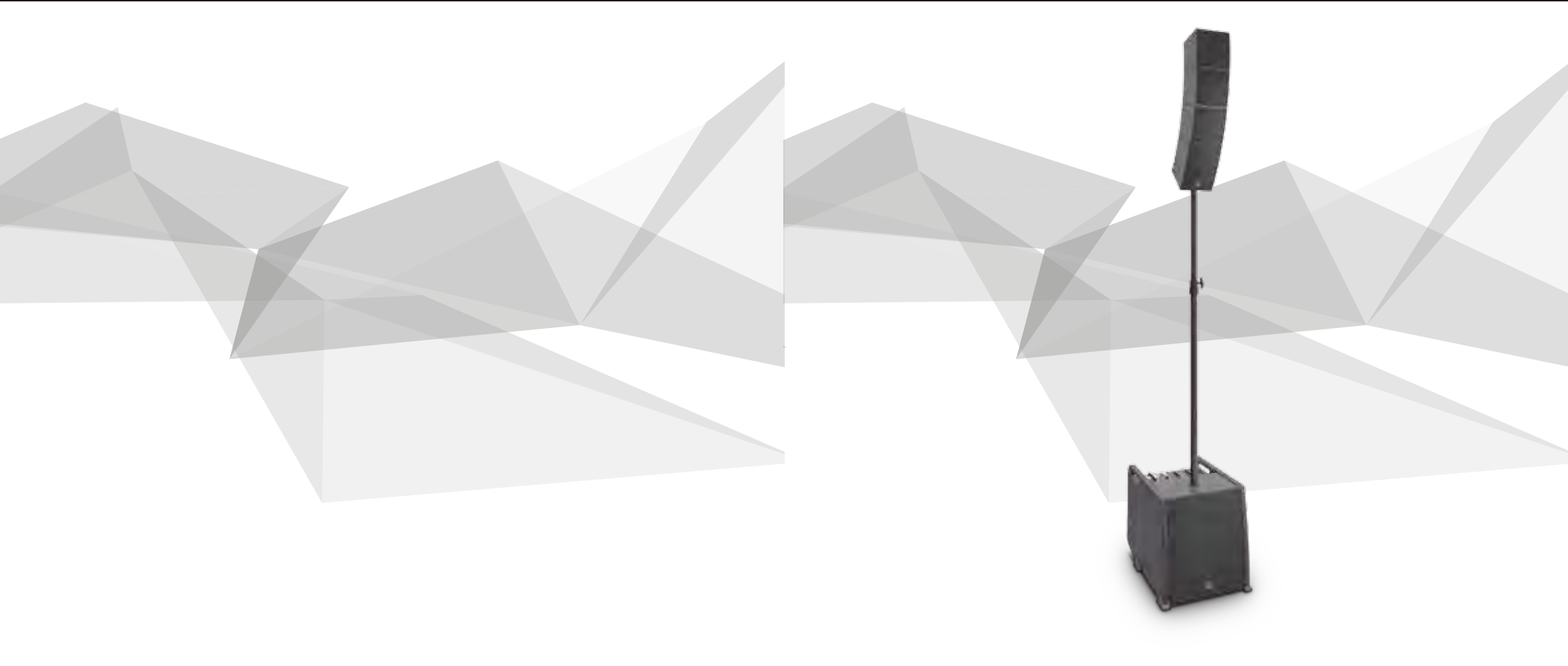




WWW.LD-SYSTEMS.COM

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



CURV 500[®]

PORTABLE ARRAY SYSTEM WITH 4-CHANNEL MIXER
LDCURV500 SERIES



EN 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

EN 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: 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.

* CURV500S, CURV500SE can be used in following electromagnetic environment: residential, commercial and light industrial, urban outdoors. They are the apparatus not intended for rack mounting.

* The peak inrush currents equal to 8.86 A.

*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. 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.

MANUFACTURER'S DECLARATIONS

EN 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.

SPECIFICATIONS

EN

Model name	CURV500ES	CURV500AVS	CURV500PS
Type:	Portable Array System Entertainer Set	Portable Array System AV Set	Portable Array System Power Set
Rated System Power (RMS):	460 W	380 W	920 W
Number of Satellites:	4	2	8
Number of Adaptors:	1	2	2
Number of Subwoofers:	1	1	2
Max. SPL (continuous):	122 dB	116 dB	128 dB
Max. SPL (peak):	128 dB	122 dB	134 dB
Subwoofer 500S/SE:	10" bass reflex		
Satellite:	MF: 1 x 4" / HF: 3 x 1" with WaveAhead® Technology / 16 ohms		
Frequency response:	47 Hz - 20 kHz		
Dispersion (H x V):	110° horizontal, 10° vertical per satellite		
Amplification:	Class D		
Power Output (RMS/Peak):	Subwoofer: 300 W / 1200 W Satellite: 2 x 160 W / 2 x 640 W		Subwoofer: 300 W / 1200 W Satellite: 2 x 160 W / 2 x 640 W Subwoofer Extension: 300 W / 1200 W, 1 x 160 W / 1 x 640 W (Satellite)
Protection:	DSP based multiband-limiter, Short Circuit, Overheating, Over-current		
Subwoofer 500S Features:	4 channel mixer, Bluetooth®, 16 DFX Presets, 4 System DSP Presets, threaded M20 flange, 3 ergonomic handles		
Subwoofer 500SE Features:	Ground lift, threaded M20 flange, 3 ergonomic handles		
Subwoofer 500S Controls:	Input Level (Ch1-4), Hi-Z, Hi/Low EQ (Ch1-2), DFX (Ch1-2), DFX Presets, DSP Presets, Bluetooth Link, Mono/Stereo, Sub Level, Main Level		
Subwoofer 500SE Controls:	Ground lift		
Subwoofer 500S Indicators:	Signal, Limit, Clip, Bluetooth, Power		
Subwoofer 500SE Indicators:	Power		
Subwoofer 500S Connectors:	1x Mic/Hi-Z (XLR/6,3mm Jack Combo), 1x Mic (XLR/6,3mm Jack Combo), 2x Line (XLR/6,3mm Jack Combo), 3,5mm Jack, 2x Satellite Out (Speakon compatible), Line Out (XLR), System Out (5-pin XLR), Mains In		
Subwoofer 500SE Connectors:	1x Satellite Out (Speakon compatible), System In (5-pin XLR), System Out (5-pin XLR), Mains In		
Subwoofer 500S/SE Material:	Plywood		
Subwoofer 500S/SE Surface:	PA Painting		
Satellite Features:	WaveAhead® Technology, internal crossover, metal grille, SmartLink® System		
Satellite Material:	Diecast Aluminium		
Satellite Surface:	Powder coating		
SmartLink® Adaptor Features:	dual 16 mm flange, 4x M6 thread for optional wall/ceiling/truss mount, SmartLink® System, 4x rubber feet for desktop use		
SmartLink® Adaptor Connectors:	1x Speakon compatible, 1x Terminal block		
SmartLink® Adaptor Material:	Diecast Aluminium		
SmartLink® Adaptor Surface:	Powder coating		
Power Supply:	SMPS with PFC		
Power Connector:	IEC		
Operating Voltage:	AC 100-240V, 50/60Hz		
Power Consumption (max.):	900W		
Temperature Range:	0°C - 50°C		
Humidity Range:	10% - 70% rel. (non condensing)		
Subwoofer Dimensions (W x H x D):	325 x 383 x 491 mm		
Satellite Dimensions (W x H x D):	122 x 122 x 122 mm		
SmartLink® Adaptor Dimensions (W x H x D):	122 x 57 x 122 mm		
Subwoofer Weight:	16,5 kg		
Satellite Weight:	1,73 kg		
Adaptor Weight:	0,54 kg		

LD CURV 500® SATBAG

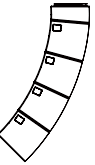
EN Carrying Case for 4 x satellite + 2 x SmartLink® Adapter

LD CURV 500® SUBPC

EN Transport trolley for CURV 500® Subwoofer

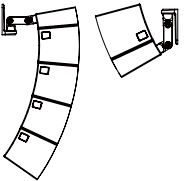
LD CURV 500® CMB

EN Ceiling mounting bracket for LD CURV 500® satellites



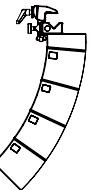
LD CURV 500® WMB(W)

EN Ceiling mounting bracket for CURV 500® satellites



LD CURV 500® TMB

EN Truss mounting adapter for CURV 500 satellites (Truss clamp not included)



LD CURV 500® SSB

EN Tripod base



LD CURV 500® DB

EN Distance bar



LD CURV 500® SS

EN Tripod base + Distance bar

LD CURV 500® CABLE1

EN Speaker cable with Speakon-compatible plugs (2.2 m)

LD CURV 500® CABLE2

EN Speaker cable with Speakon-compatible plugs on terminal block (3 m)

LD CURV 500® CABLE3

EN 5-pin XLR system cable (10 m)

LD CURV 500® CABLE4

EN Speaker cable with Speakon-compatible plugs (8 m)

INTRODUCTION

EN Introduction

The compact, transport-friendly CURV 500® is an easily configurable array system with a maximum of 4 satellites, latching into each other, which are operated via a SmartLink® adapter. The elements, only 12 x 12 cm in size, are equipped with LD System's own WaveAhead® technology, a 4" and three 1" drivers provide a coherent and extremely detailed playback with high pressure and dynamics.

The 10" bass-reflex subwoofer also houses the DSP controlled Class-D power amplifier of the CURV 500® including a limiter, protection against short circuit, overheating, over-voltage, as well as a 4-channel mixer with 16 digital effect presets and Bluetooth®, Combo, and Speakon-compatible sockets offer extensive connectivity options, and the subwoofer features 4 digital system presets, an M20 threaded flange and 3 ergonomic carrying handles. Available in 3 sets for mobile and fixed use, the convenient overall solution CURV 500® boasts a low weight and a wide, far-reaching sound dispersion.

EN General information

Before start-up, the subwoofer of the LD Systems CURV 500® array system must be placed upright on its rubber feet, on a flat surface. Never operate your system on a trolley, as there is a risk that the entire system might be unstable. Accidents and damage may result. To ensure adequate cooling, during operation a minimum distance of 50 cm must be maintained between the back of the subwoofer and other objects such as walls for example. Please ensure the correct connection of audio and power connections for the system and all connected devices such as mixers, CD players, etc. Use only undamaged cables of suitable diameter and always unwind cable reels completely. If necessary, use cable bridges to avoid tripping over loose cables. Never place the device directly on an edge. Do not place the subwoofer on a table. To avoid unwanted background noise when turning on connected devices, always turn on the system last and turn it off first.

LD CURV 500® STS

EN Set Contents:

- 1 x LD CURV 500® SSB Tripod base
- 1 x LD CURV 500® DB Spacer Bar
- 1 x LD CURV 500® SLA SmartLink® Adapter
- 1 x LD CURV 500® CABLE4 Speaker cable with Speakon-compatible plugs (8 m)



LD CURV 500® SE(W)

EN Subwoofer Extension including power cable



LD CURV 500® S2(W)

EN 2 x LD CURV 500® SAT Satellite



LD CURV 500® SLA(W)

EN SmartLink® Adapter



LD CURV 500® PES(W)

EN Set Contents:

- 1 x LD CURV 500® SE Subwoofer Extension
- 1 x LD CURV 500® DB Distance Bar
- 1 x LD CURV 500® SLA SmartLink® Adapter
- 4 x LD CURV 500® SAT Satellite
- 1 x LD CURV 500® CABLE3 5-pin XLR system cable (10 m)
- 1 x LD CURV 500® CABLE1 Speaker cable with Speakon-compatible plugs (2.2 m)
- 1 x power cable



SETUP

EN In order to allow for a wide variety of configuration options, the LD Systems CURV 500® array system is designed to be modular. Described below is a representative setup of the LD CURV 500® ES Entertainer Set. Examples of setups for other Sets can be found on the following pages of this user's manual.

The LD CURV 500® ES Entertainer Set consists of 4 components:

- A. subwoofer with mixer, built-in DSP (digital signal processor) and class-D power amplifier for the system components.
- B. height adjustable spacer bar
- C. SmartLink® adapter as the base for up to 4 CURV 500® array satellites.
- D. Four CURV 500® array satellites with the patented click mechanism and WaveAhead® technology.

Once the subwoofer (A) has been placed in the desired location, the spacer bar (B) is screwed into the subwoofer (flange on the top). When using 1 or 2 CURV 500® satellites, plug the SmartLink® adapter (C) using the rear flange (mark satellite 1 + 2, upright position, fig. E) onto the top of the spacer bar; when using 3 or 4 CURV 500® satellites using the front flange (mark satellite 3 + 4, forward inclined position, fig. F). Now slide a CURV 500® satellite (D) from the rear onto the SmartLink® adapter (C) until it stops, while pressing the spring-loaded release button on the side of the satellite. Ensure that the two guide rails of the satellite properly slide into the grooves of the SmartLink® adapter in order to ensure a tight fit and establish a contact for both components. Now release the button to lock the connection and to bring the button back to its original position. Proceed in the same manner as described above to add other satellites. Now connect the speaker output SATELLITE OUT of the CURV 500® subwoofer with the speaker input INPUT SIGNAL (G) of the SmartLink® adapter using the supplied speaker cable. When disassembling, please proceed in reverse order. For fixed installations and desktop applications, a terminal block connector (fig. H, terminal block included) is located on the back of the SmartLink® adapter. The speaker input INPUT SIGNAL (G) is parallel wired with the terminal block connector (H).