array
reinvented.

CURV 500®

LD systems
your sound. our mission.

CONNECT THESE 3 FOR EXCELLENCE

Up to 4 CURV 500® Array Satellites

+

CURV 500® SmartLink® Adapter

The CURV 500® is an innovative system, uniquely combining portability, sound perfection and ease of use. The system comprises 3 components that can be connected with ease. It is based around the SmartLink® adapter. Up to four Array Satellites can be effortlessly interconnected with the LD Systems-patented click mechanism delivering plug-and-play convenience. The adapter also provides the connection to the subwoofer, which serves as a control unit for the entire system, acting both as traditional bass box and mixing desk.

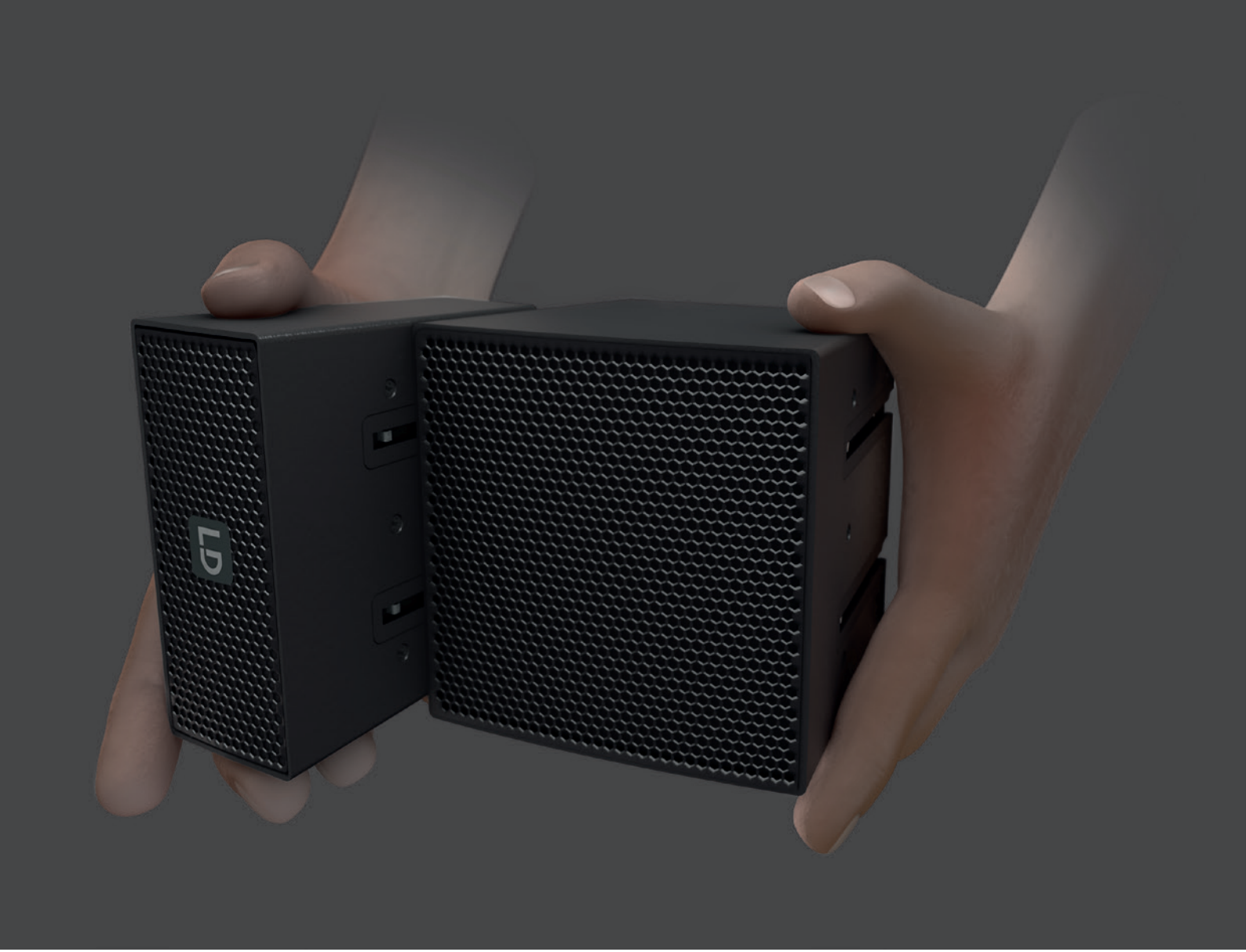
CURV 500® Subwoofer with control panel

=

CURV 500®
Portable Array System
Entertainer Set

GUESS WHY IT'S CALLED **"SMARTLINK®"?**

The innovative SmartLink® adapter forms the basis of the system. On top of that up to four Array Satellites can be effortlessly interconnected with the LD Systems-patented click mechanism: simply press the connection button, join the two modules by their guide rails and release the button to engage.



Easy-Click? Plug-and-Play? Whatever. Connected in 2 seconds is what counts. That's at least what our engineers thought. The mechanical connection also provides signal transmission: no other cables are needed.

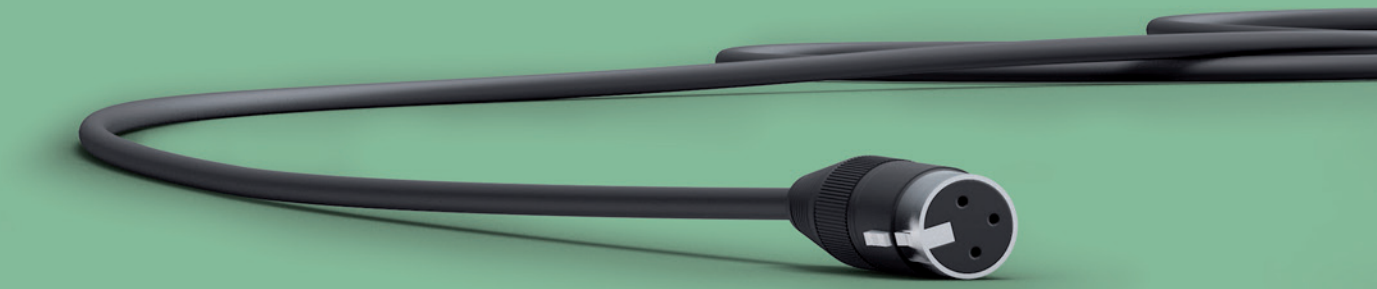
SIZE: XS
SOUND: XL!

The speaker columns are equipped with up to four modular array satellites arranged in a curve. The result is extremely clear, threedimensional sound – similar to the sound generated by large line arrays.

Even a single 12 x 12 cm array satellite produces excellent sound results. This is guaranteed by LD Systems' in-house developed WaveAhead® technology, whereby three tweeters are arranged vertically in front of a high power fullrange driver, perfectly blending and dispersing the sound.

Actual Size

SOUND TO GO.



The CURV 500® is the first truly portable modular array system. Sophisticated technology, elegant design and a modularity that enables it to be transported conveniently and compactly.

Actual Size

A masterpiece of design technology and simplicity: the aluminium unibody construction of the CURV 500® array satellites sets new standards and is an essential component of the system's outstanding audio quality.

Singer-songwriters, jazz musicians, entertainers, speakers: everyone loves technology that fits into any trunk, is simply to assemble and produces the very best results. Like the new CURV 500®.

The integrated 4-channel mixing desk provides connectivity for microphones, instruments and laptops. Its built-in Bluetooth® technology permits wireless data transmission from smartphones or tablets and digital sound effects can also be generated via the 24-bit processor.

DESIGNED TO MAKE YOUR LIFE EASIER.

Subwoofer with integrated 4-Channel Mixer

Inputs
1x Mic/Hi-Z
(XLR/6,3mm Jack Combo)
1x Mic
(XLR/6,3mm Jack Combo)
2x Line
(XLR/6,3mm Jack Combo)
3,5 mm Jack

Outputs
2 x Array Satellite Out
(Speakon compatible)
Line Out (XLR)
System Out (5-pin XLR)

Features
DFX (Ch1-2)
DFX Presets
DSP Presets
Bluetooth® Link
Mono/Stereo
Sub Level
Main Level

back view

top view

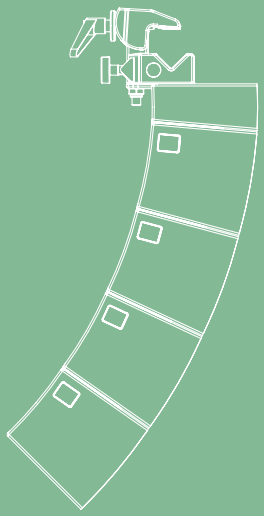
POWER TO THE PEOPLE.

The CURV 500® is an all-rounder – for music and for speaking. It provides a big live music sound, is a DJ's high-performance powerhouse and delivers clear spoken words and lectures. Thanks to its versatility, it is also ideal for use on exhibition stands, in clubs and smaller spaces. It represents an ideal, ultra-portable unit for stand-alone entertainers, bands and speakers and always delivers the right sound. One way or another:
the audience listens. With pleasure.

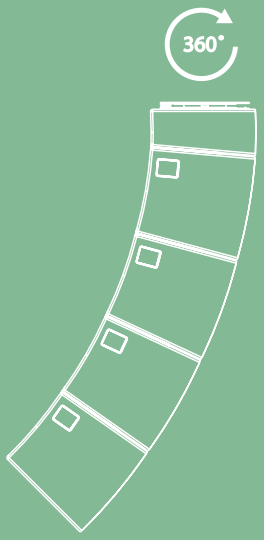
Extremely high-performance
as a double pack:
the CURV 500® Power Set.

One system – several options. The CURV 500® can be installed on the wall or ceiling, depending on the configuration of the space. Up to 4 Array Satellites can be combined, in ascending or descending order, using the discreet fixing modules and the phoenix connectors on the rear side of the SmartLink® adapter. Whatever works best!

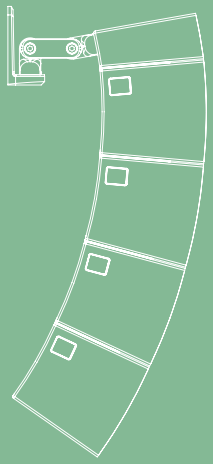
GREAT SOUND CAN BE INSTALLED.



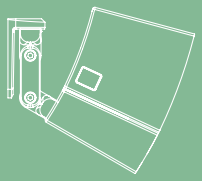
CURV 500 TMB
Clamp for Truss



CURV 500 CMB
Ceilingmount

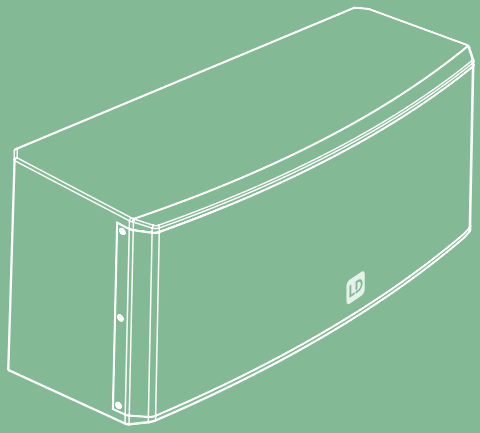


CURV 500 WMB /W
Wallmount downward

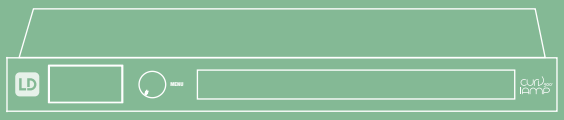


Wallmounted upward

The brackets can be fixed to the wall or ceiling. Wall-mounted, the line array can be assembled from the floor up or even suspended.



CURV 500 ISUB
10" Installation subwoofer

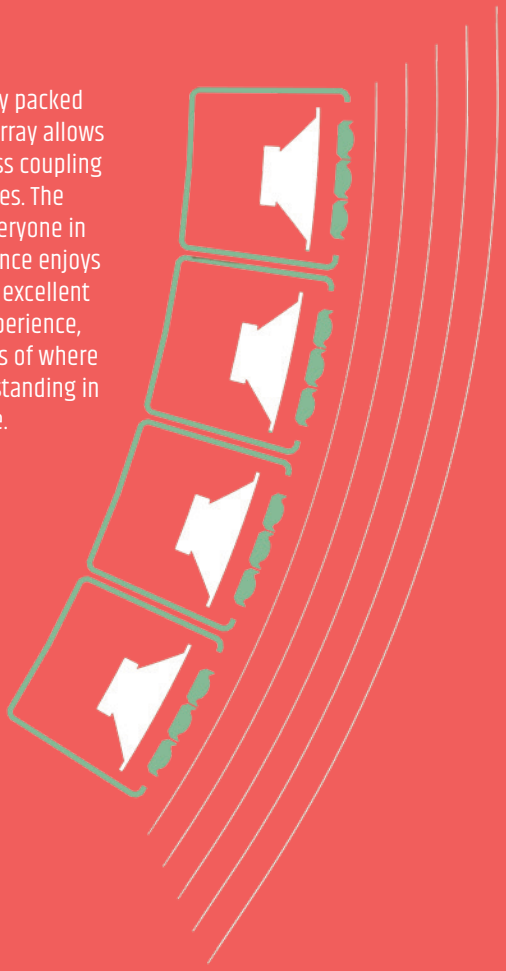


CURV 500 I AMP
4-Channel installation amplifier

BIG TECHNOLOGY:
COMPACT DIMENSIONS

LD Systems' WaveAhead® technology places a vertical tweeter array in front of a high-performance full range transducer. This proprietary design reduces reflections from ceilings and floors resulting in clear, consistent coverage.

The tightly packed tweeter array allows a seamless coupling of satellites. The result: everyone in the audience enjoys the same excellent sound experience, regardless of where they are standing in the venue.



Loudspeaker with WaveAhead® technology

Symmetrical horizontal dispersion

Wide dispersion of mid and high frequencies

Conventional loudspeaker

Asymmetrical horizontal dispersion

Wide dispersion of mid frequencies, narrow dispersion of high frequencies

The coaxial arrangement of the WaveAhead® technology solves the interference issues of conventional loudpseakers and allows for a wide and even sound dispersion. With this unique setup you get the best of both worlds, an extra large sound coverage and a very compact design.

SPECIFICATIONS

MODEL NAME	CURV 500®ES	CURV 500®AVS	CURV 500®PS
TYPE:	Portable Array System Entertainer Set Including Distance Bar & Speaker Cable	Portable Array System AV Set Including Speaker Cables	Portable Array System Power Set Including Distance Bars & Speaker Cables
RATED SYSTEM POWER (RMS):	460 W	380 W	920 W
NUMBER OF ARRAY SATELLITES:	4	2	8
NUMBER OF SMARTLINK® ADAPTERS:	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:	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 FEATURES:	4 channel mixer, Bluetooth®, 16 DFX Presets, 4 System DSP Presets, threaded M20 Flange, 3 ergonomic handels		
SUBWOOFER CONTROLS:	Input Level (Ch1-4), Hi-Z, Hi/Low EQ (Ch1-2), DFX (Ch1-2), DFX Presets, DSP Presets, Blutetooth Link, Mono/Stereo, Sub Level, Main Level		
SUBWOOFER INDICATORS:	Signal, Limit, Bluetooth®, Power		
SUBWOOFER 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, 2 x Array Satellite Out (Speakon compatible), Line Out (XLR), System Out (5-pin XLR)		
SUBWOOFER MATERIAL:	Plywood		
SUBWOOFER SURFACE:	PA Painting		
ARRAY SATELLITE FEATURES:	WaveAhead® Technology, internal crossover, metal grille, thread for safety rope.		
ARRAY SATELLITE MATERIAL:	Diecast Aluminium		
ARRAY SATELLITE SURFACE:	Powder coating		
SMARTLINK® ADAPTER FEATURES:	dual 16 mm fange, 2x M6 thread for optional wall mount, 4x Thread for optional ceilling mount		
SMARTLINK® ADAPTER CONNECTORS:	1x Speakon compatible, 1x Phoenix		
SMARTLINK® ADAPTER MATERIAL:	Diecast Aluminium		
SMARTLINK® ADAPTER SURFACE:	Powder coating		
SUBWOOFER DIMENSIONS (W X H X D):	325 x 383 x 491 mm		
ARRAY SATELLITE DIMENSIONS (W X H X D):	122 x 122 x 122 mm		
SMARTLINK® ADAPTER DIMENSIONS (W X H X D):	122 x 57 x 122 mm		
SUBWOOFER WEIGHT:	16,5 kg		
ARRAY SATELLITE WEIGHT:	1,7 kg		
SMARTLINK® ADAPTER WEIGHT:	0,6 kg		

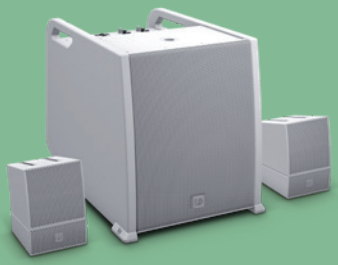
MODEL NAME	CURV 500®IAMP
TYPE:	4-Channel DSP controlled amplifier
RATED OUTPUT POWER (1 KHZ @ 2 OHM):	4 x 500 W
RATED OUTPUT POWER (1 KHZ @ 4 OHM):	4 x 300 W
RATED OUTPUT POWER (1 KHZ @ 8 OHM):	4 x 150 W
AMPLIFICATION:	Class D
FREQUENCY RESPONSE:	20 Hz - 20000 Hz
THD:	< 0,1 %
PROTECTION CIRCUITS:	Over-current, soft-Start, DC, thermal overload, short circuit
CONTROLS:	Push encoder
INDICATORS:	OLED graphic display
MAXIMUM DELAY / CHANNEL:	48 m
EQ:	8 x Parametric / Channel
LINE INPUTS:	4
LINE INPUT CONNECTORS:	XLR (symmetrical)
LOUDSPEAKER OUTPUTS:	4
SPEAKER OUTPUT CONNECTIONS:	Speakon compatible, terminal block (phoenix)
COOLING:	Temperature-controlled low-noise fan
OPERATING VOLTAGE:	Switching power supply, 115 V AC / 230 V AC (automatic switchable)
POWER CONSUMPTION @ FULL LOAD:	1000 W
DIMENSIONS (W X H X D):	482 X 44 X 350 mm
WEIGHT:	4,2 kg

MODEL NAME	CURV 500®ISUB
TYPE:	10" installation subwoofer
PRODUCT NUMBER:	LDCURV500ISUB
PRODUCT TYPE:	Installation subwoofer
TYPE:	Passive
LOW DRIVER DIMENSIONS:	10"
LOAD RATING (RMS):	300 W
FREQUENCY RESPONSE:	47 Hz - 150 Hz
IMPEDANCE:	4 Ohms
LOUDSPEAKER INPUTS:	2 x Speakon compatible , 1 x terminal block (phoenix)
CABINET MATERIAL:	15 mm MDF
CABINET SURFACE:	Texture paint
COLOR:	Black or white
CABINET CONSTRUCTION:	Bassreflex
DIMENSIONS (W X H X D):	610 X 310 X 230 mm
WEIGHT:	14,5 kg
FEATURES:	Low profile ceiling/ wall mounting bracket

SETS & EXTENSIONS

CURV 500 ES
Portable Array System
Entertainer Set

CURV 500 PS
Portable Array System
Power Set



CURV 500 AVS W
Portable Array System
A/V Set

CURV 500 AVS
Portable Array System
A/V Set

CURV 500 SSB
Speaker Stand Base for CURV 500® portable Array System

CURV 500 SLA /W
SmartLink® adapter for CURV 500® portable Array System

CURV 500 S2 /W
2 x Array Satellites for CURV 500® portable Array System

CURV 500 PES
Power Extension Set composed of 1 Subwoofer Extension + 4 Array Satellites + SmartLink® Adapter + Distance Bar + Speaker Cable.

CURV 500 STS
Stereo Set composed of a SmartLink® Adapter + distance bar + Speaker stand base + Cable.

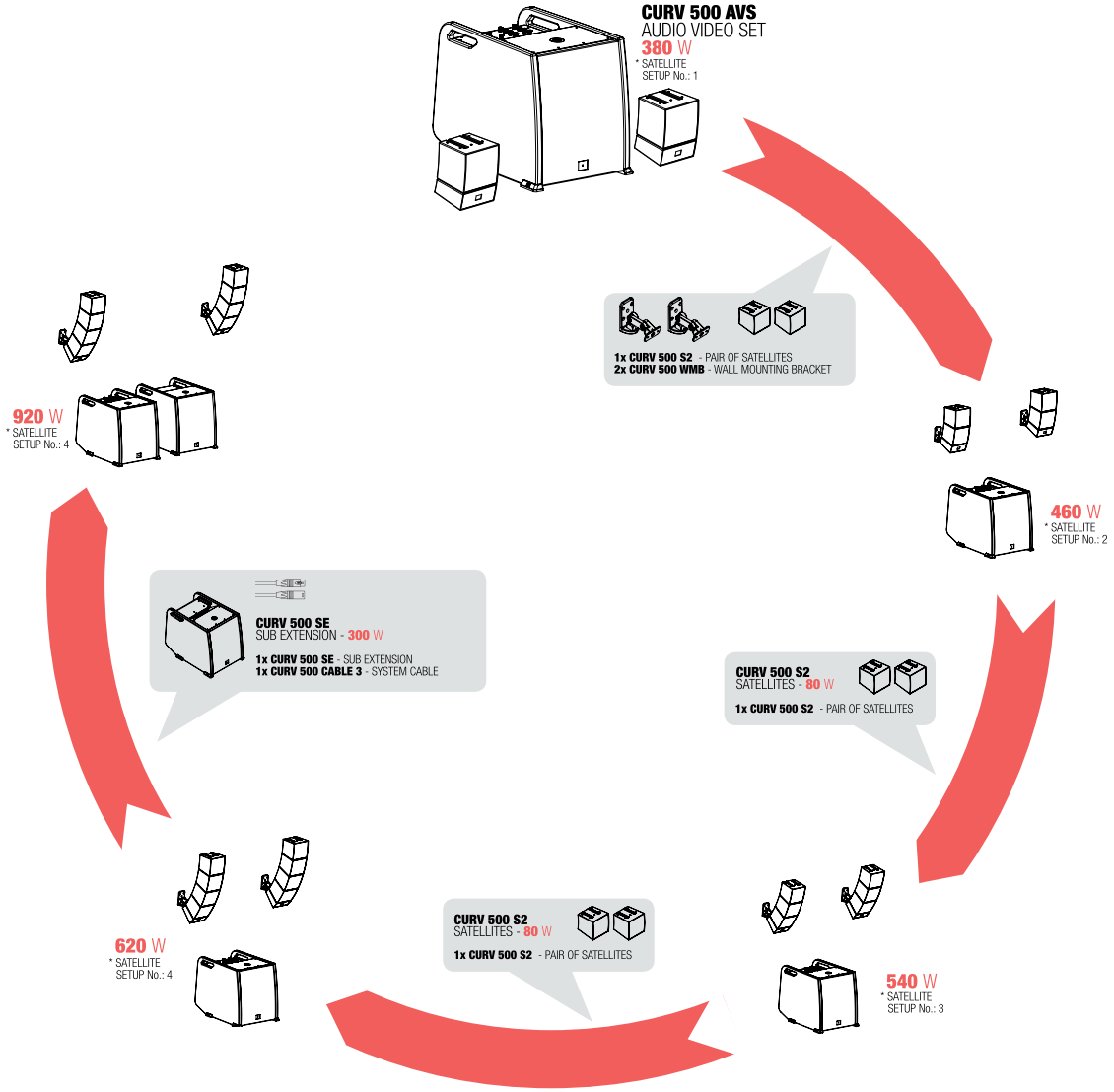
CURV 500 DB
Distance Bar for CURV 500® portable Array System

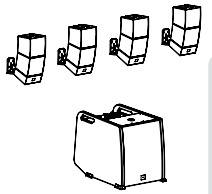
CURV 500 SAT BAG
Satellites Transport Bag for 4 CURV 500® Satellites

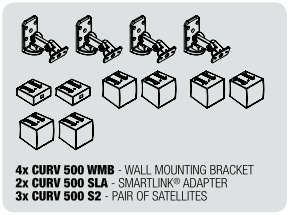
CURV 500 SE
Subwoofer Extension for CURV 500® portable Array System

CURV 500 SUB PC
Transport Trolley for CURV 500® Subwoofer

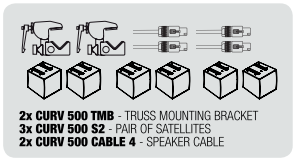
AUDIO VIDEO SET
CONFIGURATION GUIDE



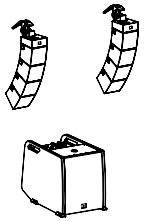


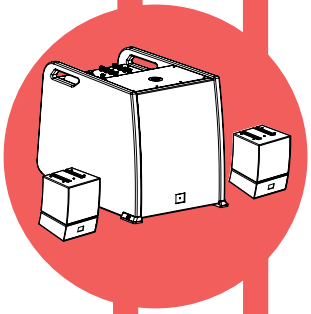


4x CURV 500 WMB - WALL MOUNTING BRACKET
2x CURV 500 SLA - SMARTLINK® ADAPTER
3x CURV 500 S2 - PAIR OF SATELLITES

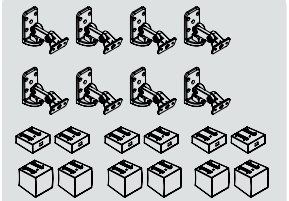


2x CURV 500 TMB - TRUSS MOUNTING BRACKET
3x CURV 500 S2 - PAIR OF SATELLITES
2x CURV 500 CABLE 4 - SPEAKER CABLE

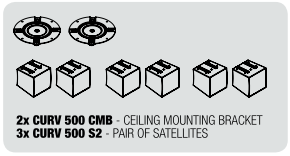




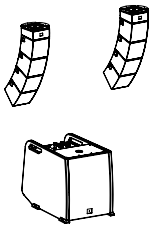
CURV 500 AVS
AUDIO VIDEO SET

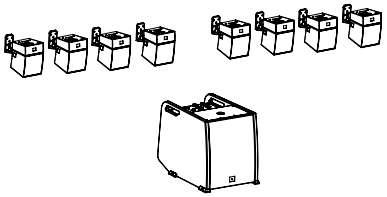


8x CURV 500 WMB - WALL MOUNTING BRACKET
6x CURV 500 SLA - SMARTLINK® ADAPTER
3x CURV 500 S2 - PAIR OF SATELLITES

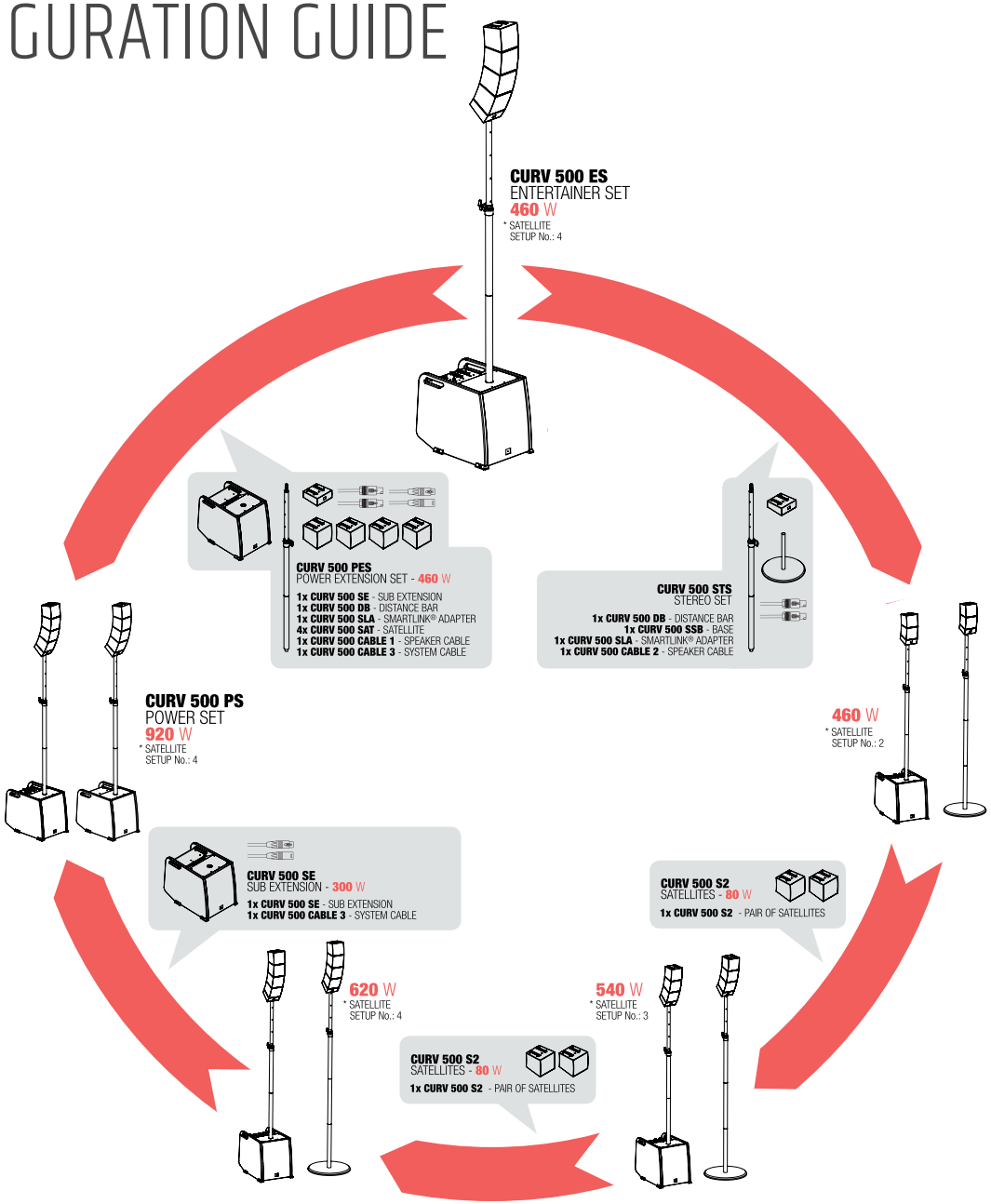


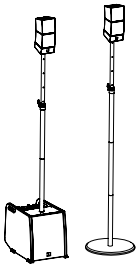
2x CURV 500 CMB - CEILING MOUNTING BRACKET
3x CURV 500 S2 - PAIR OF SATELLITES

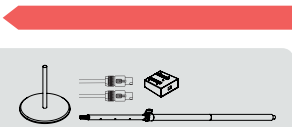




ENTERTAINER SET
CONFIGURATION GUIDE

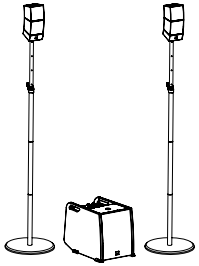


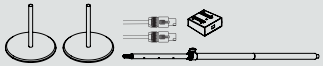




CURV 500 STS - STEREO SET

1x CURV 500 DB - DISTANCE BAR
1x CURV 500 SSB - BASE
1x CURV 500 SLA - SMARTLINK® ADAPTER
1x CURV 500 CABLE 4 - SPEAKER CABLE

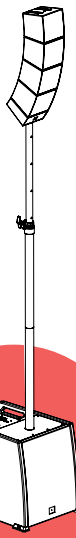




1x CURV 500 SSB - BASE

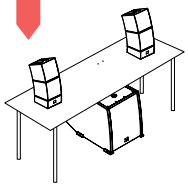
CURV 500 STS - STEREO SET

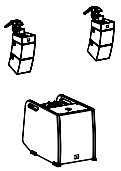
1x CURV 500 DB - DISTANCE BAR
1x CURV 500 SSB - BASE
1x CURV 500 SLA - SMARTLINK® ADAPTER
1x CURV 500 CABLE 4 - SPEAKER CABLE



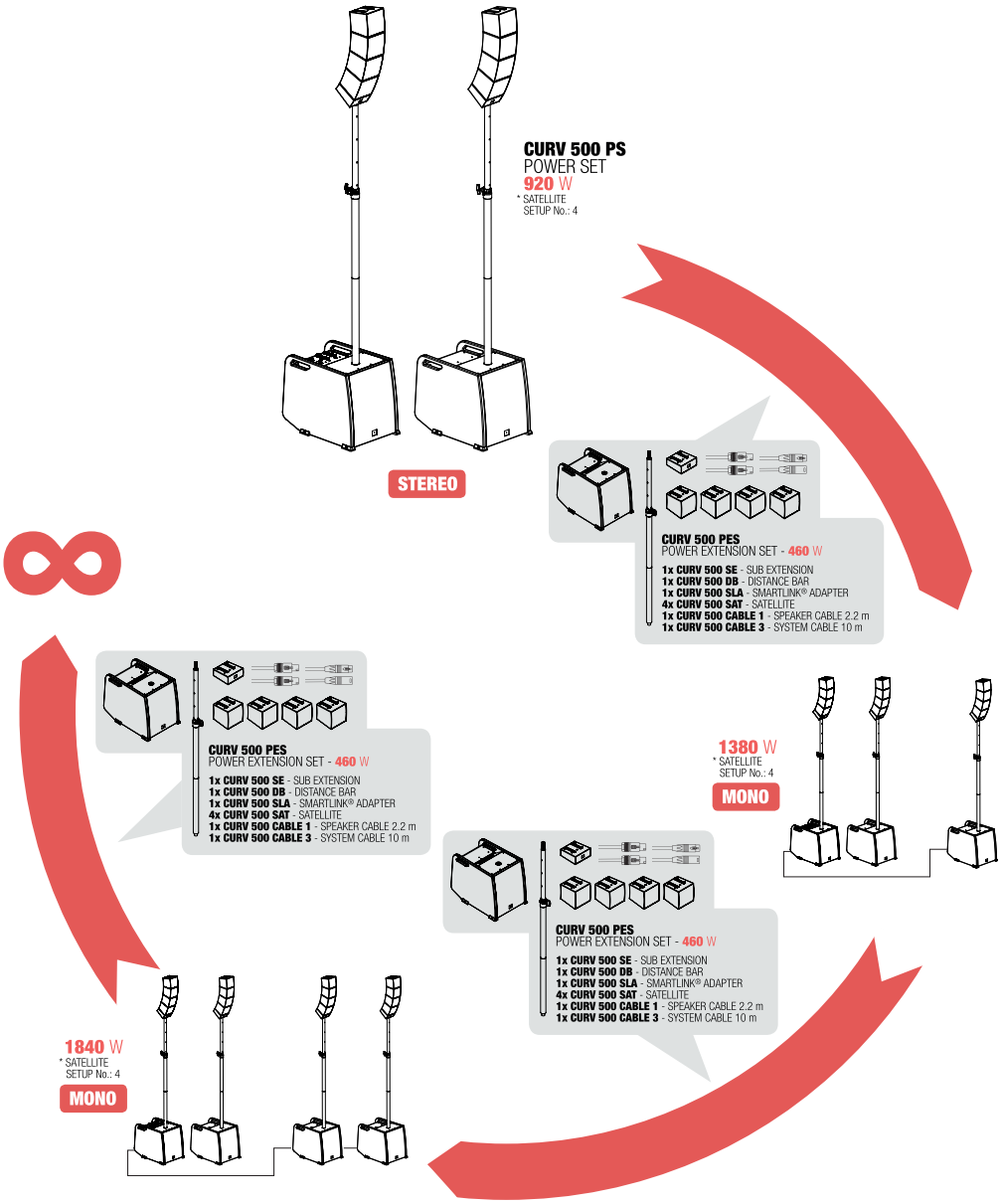
1x CURV 500 SLA - SMARTLINK® ADAPTER
2x CURV 500 CABLE 2 - SPEAKER TO PHOENIX CABLE

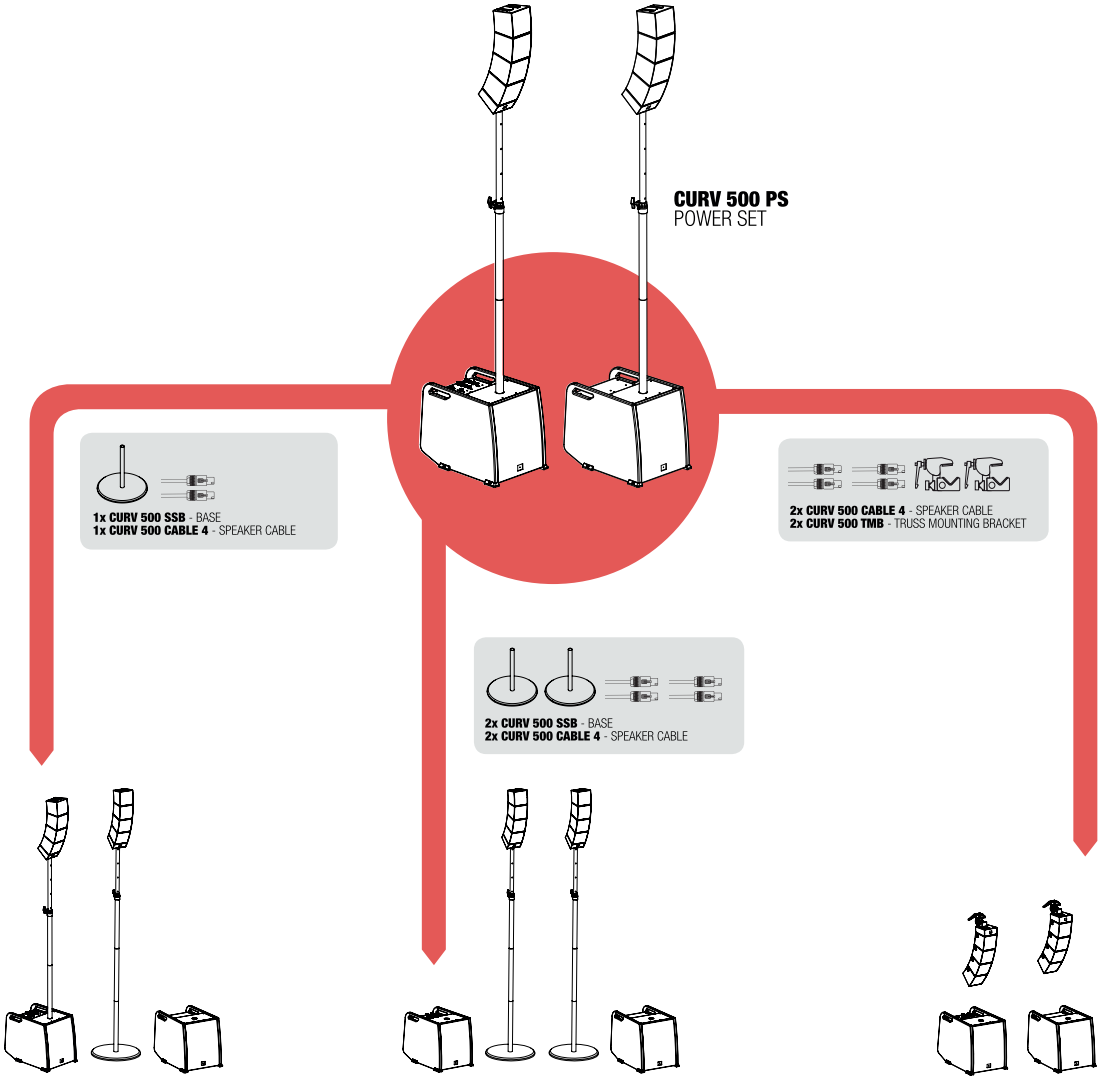
1x CURV 500 SLA - SMARTLINK® ADAPTER
2x CURV 500 TMB - TRUSS MOUNTING BRACKET
2x CURV 500 CABLE 4 - SPEAKER CABLE





POWER SET
CONFIGURATION GUIDE




CURV 500 PS
POWER SET
1x CURV 500 SSB - BASE
1x CURV 500 CABLE 4 - SPEAKER CABLE
2x CURV 500 CABLE 4 - SPEAKER CABLE
2x CURV 500 TMB - TRUSS MOUNTING BRACKET
2x CURV 500 SSB - BASE
2x CURV 500 CABLE 4 - SPEAKER CABLE

AWARD WINNING DESIGN MADE PORTABLE.

GERMAN DESIGN AWARD WINNER 2016

DESIGN AWARD 2016

reddot award

LD systems
your sound. our mission.

DESIGNED & ENGINEERED IN GERMANY
LD-SYSTEMS.COM

www.facebook.com/ldsystems
www.youtube.com/ldsystemsvideos
blog.adamhall.com

LD Systems® is a registered brand of the Adam Hall Group.

The information contained in this publication, including numerical data, has been prepared as a general guide to the products, but intending buyers and users must satisfy themselves as to the suitability and the safety of the products for their particular purposes and duties. No responsibility is assumed for any errors herein. The company reserves the right to alter the designs and material specifications of products shown in this publication without notice.

2021/12