



array  
**reinvented.**

**CURV 500<sup>®</sup>**

**LDsystems**   
your sound. our mission.

# CONNECT THESE 3 FOR EXCELLENCE



Up to 4 CURV 500® Array Satellites



CURV 500® SmartLink® Adapter

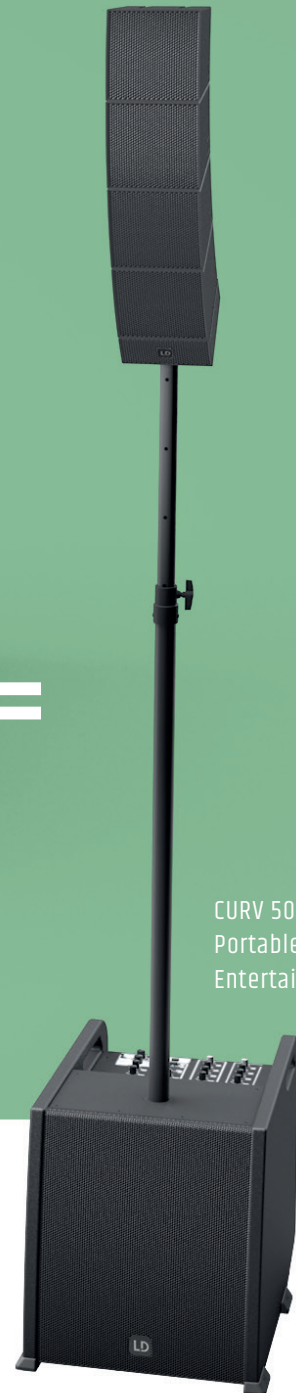
The CURV 500® is an innovative system, uniquely combining portability, sound perfection and ease of use. The system comprises 3 components that can be connected with ease. It is based around the SmartLink® adapter. Up to four Array Satellites can be effortlessly interconnected with the LD Systems-patented 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

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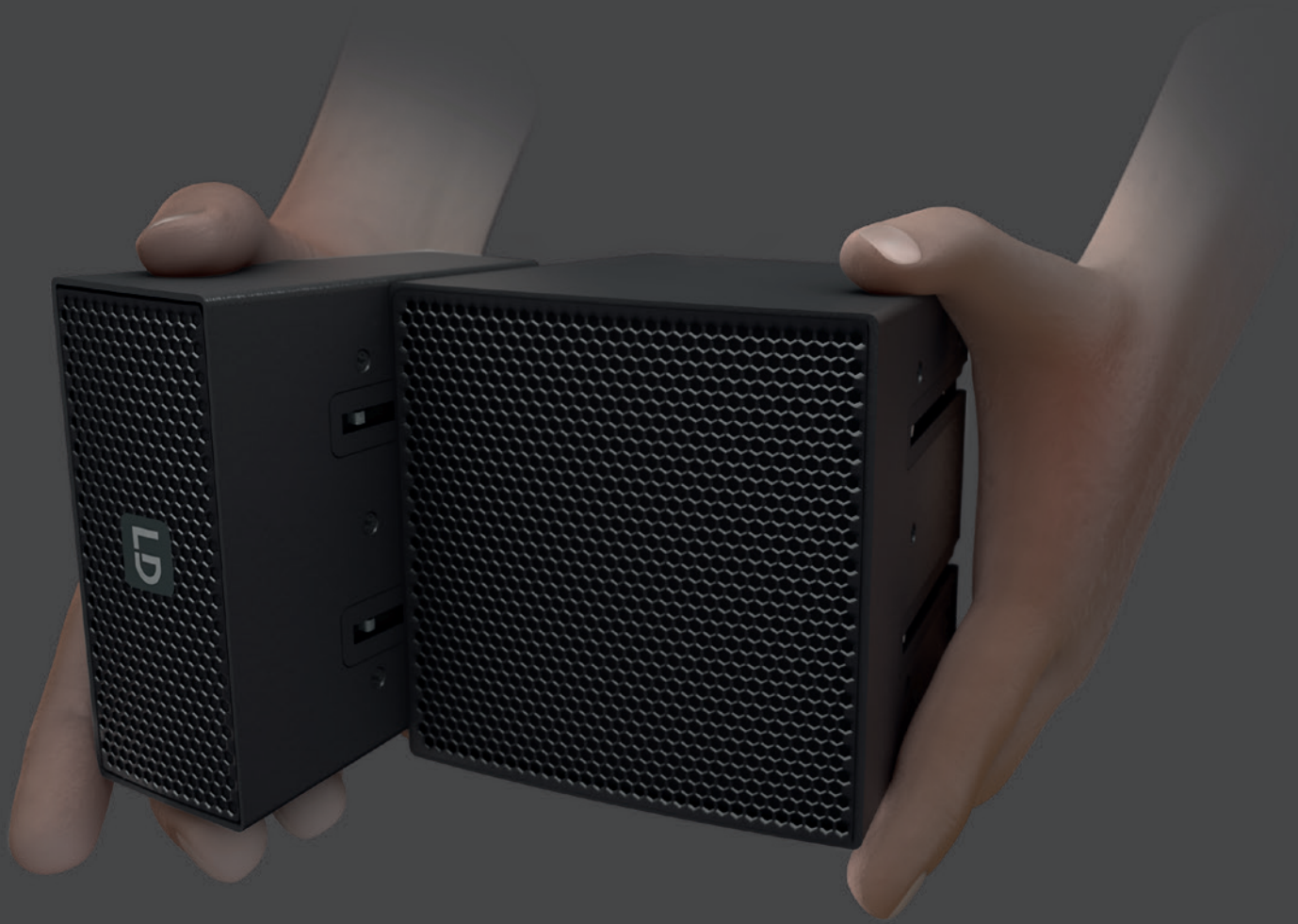


CURV 500®  
Portable Array System  
Entertainer Set

# 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, three-dimensional 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.

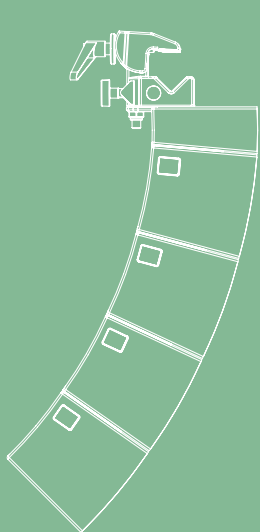


The CURV 500® feels at home wherever there's music playing: in bars, clubs, studios and even as a home entertainment system. It can be permanently installed with versatile wall and ceiling bracket systems wherever perfect sound quality is called for. This is where the benefits of the compact CURV 500® come into their own.

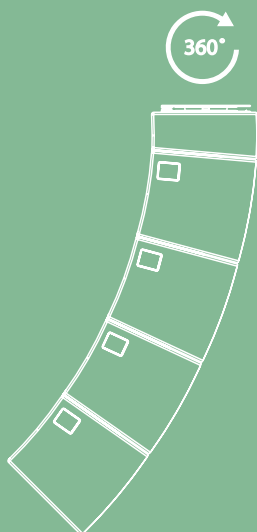
(CURV 500®AVS also available in white!)

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!

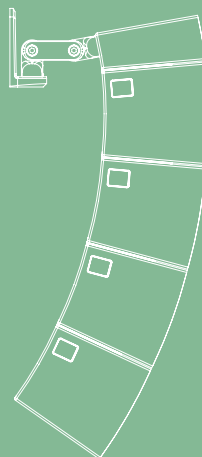
# GREAT SOUND CAN BE INSTALLED.



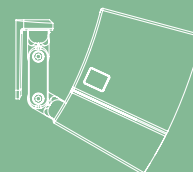
**CURV 500 TMB**  
Clamp for Truss



**CURV 500 CMB**  
Ceilingmount

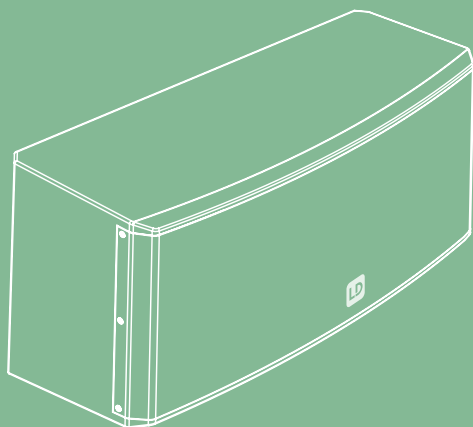


**CURV 500 WMB / W**  
Wallmount downward

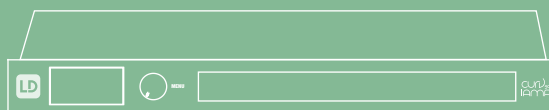


Wallmounted upward

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



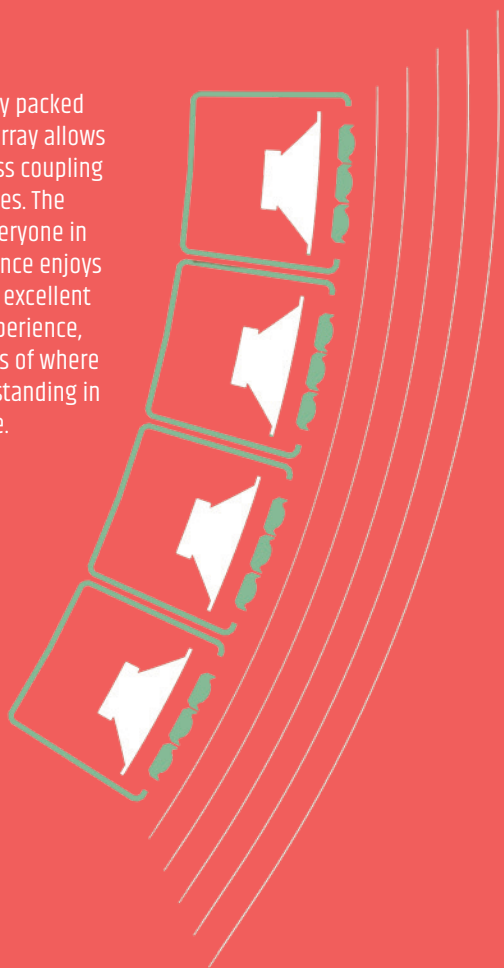
**CURV 500 I AMP**  
4-Channel installation amplifier

# 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

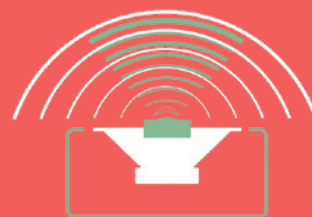


Wide dispersion of mid and high frequencies

#### 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 loudspeakers 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<br>Satellite: 2 x 160 W / 2 x 640 W                                                                                                                                       |                                                       | Subwoofer: 300 W / 1200 W, Satellite: 2 x 160 W / 2 x 640 W<br>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 handles                                                                                         |                                                       |                                                                                                                                       |
| SUBWOOFER 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 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 flange, 2x M6 thread for optional wall mount, 4x Thread for optional ceiling 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



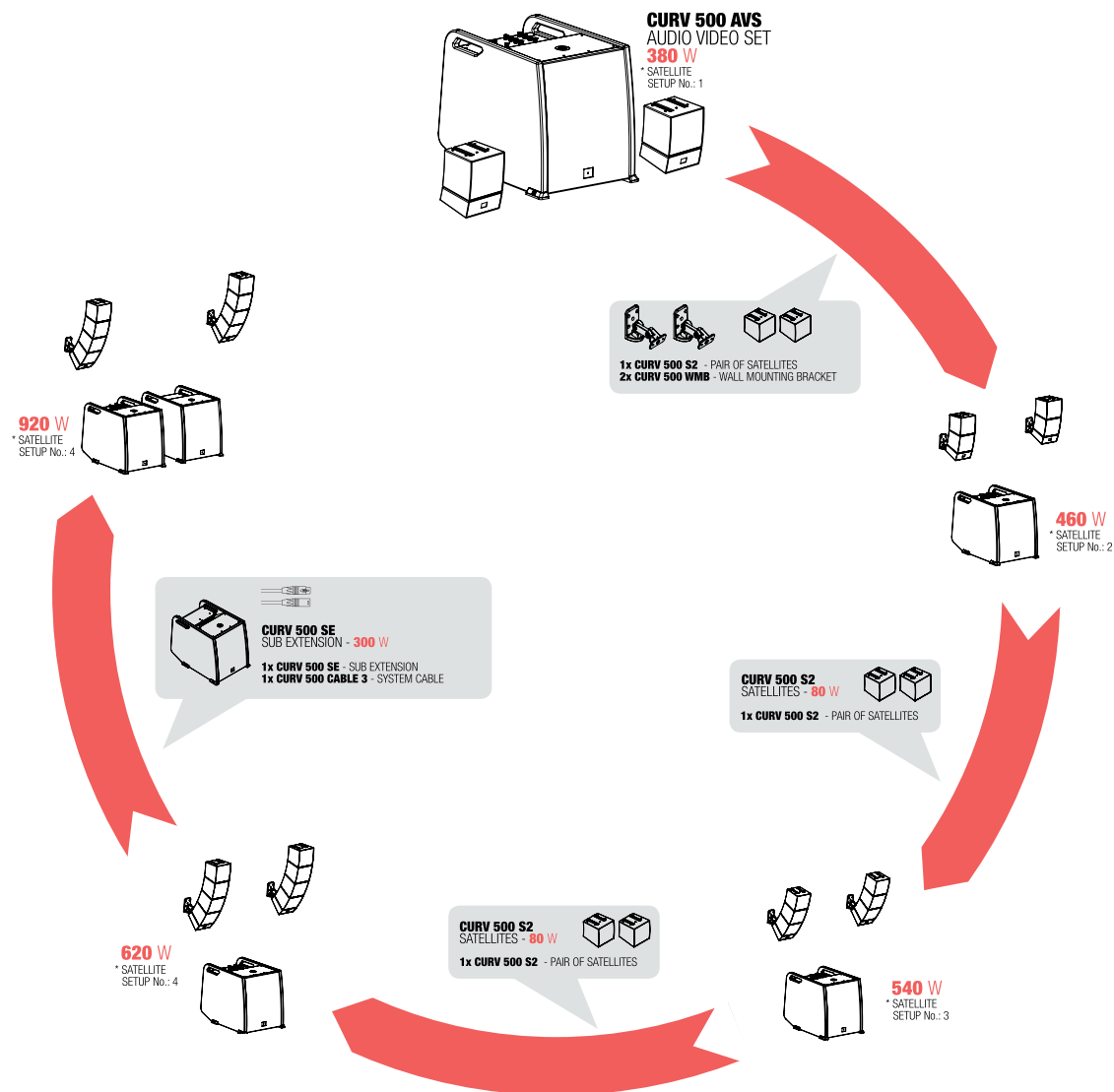
**CURV 500 SE**  
Subwoofer Extension  
for CURV 500® portable  
Array System

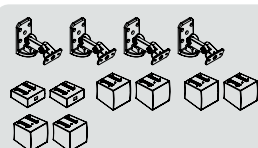
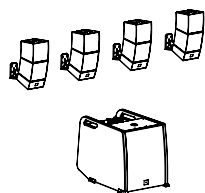


**CURV 500 SUB PC**  
Transport Trolley for  
CURV 500® Subwoofer

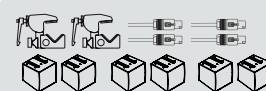
# AUDIO VIDEO SET CONFIGURATION GUIDE

SCALABILITY - MORE POWER

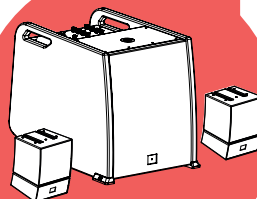
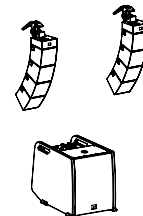




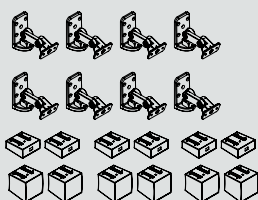
4x CURV 500 WMB - WALL MOUNTING BRACKET  
2x CURV 500 SLA - SMARTLINK® ADAPTER  
3x CURV 500 S2 - PAIR OF SATELLITES



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



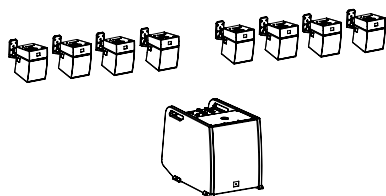
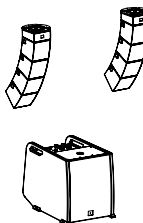
**CURV 500 AVS**  
AUDIO VIDEO SET



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

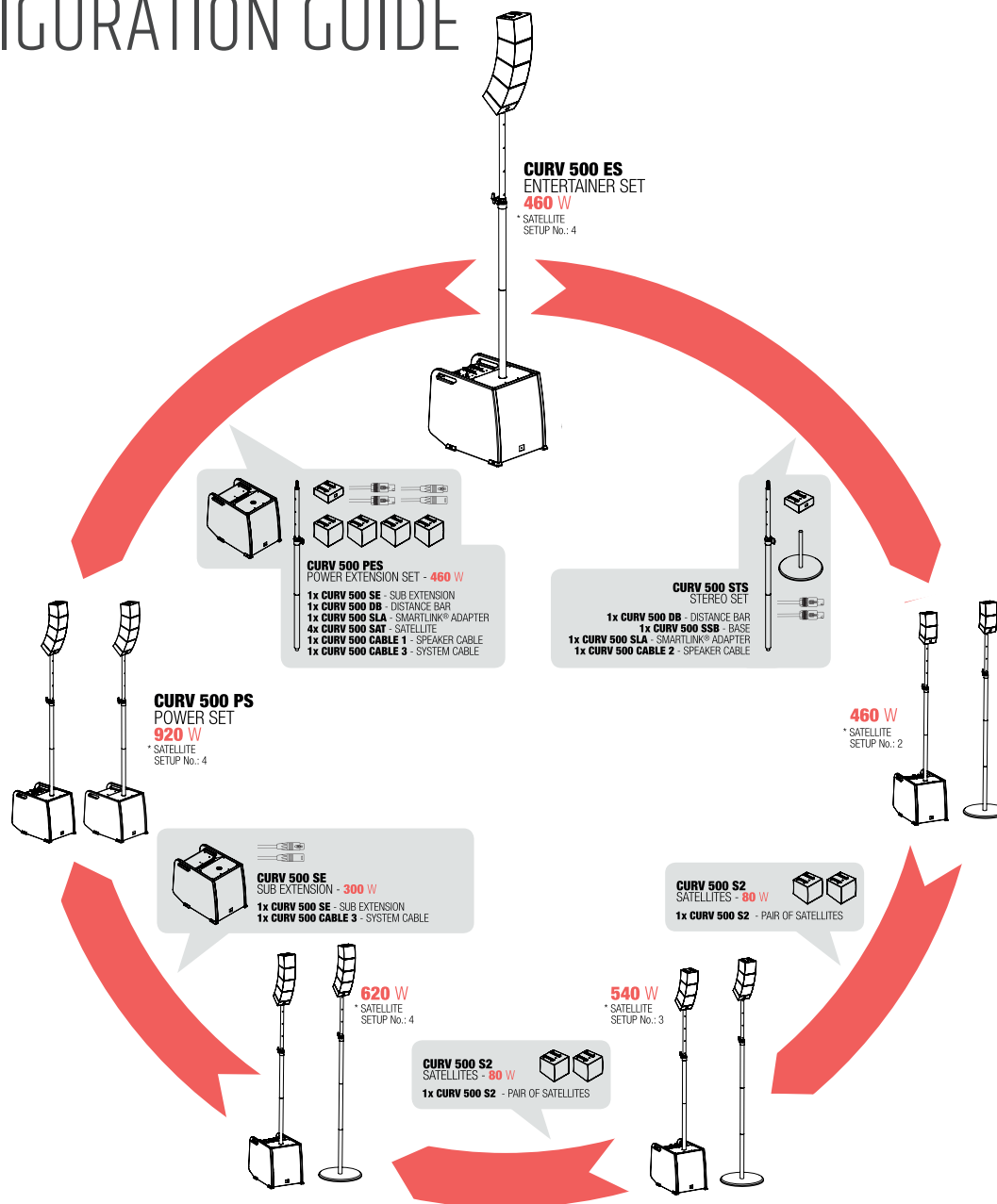


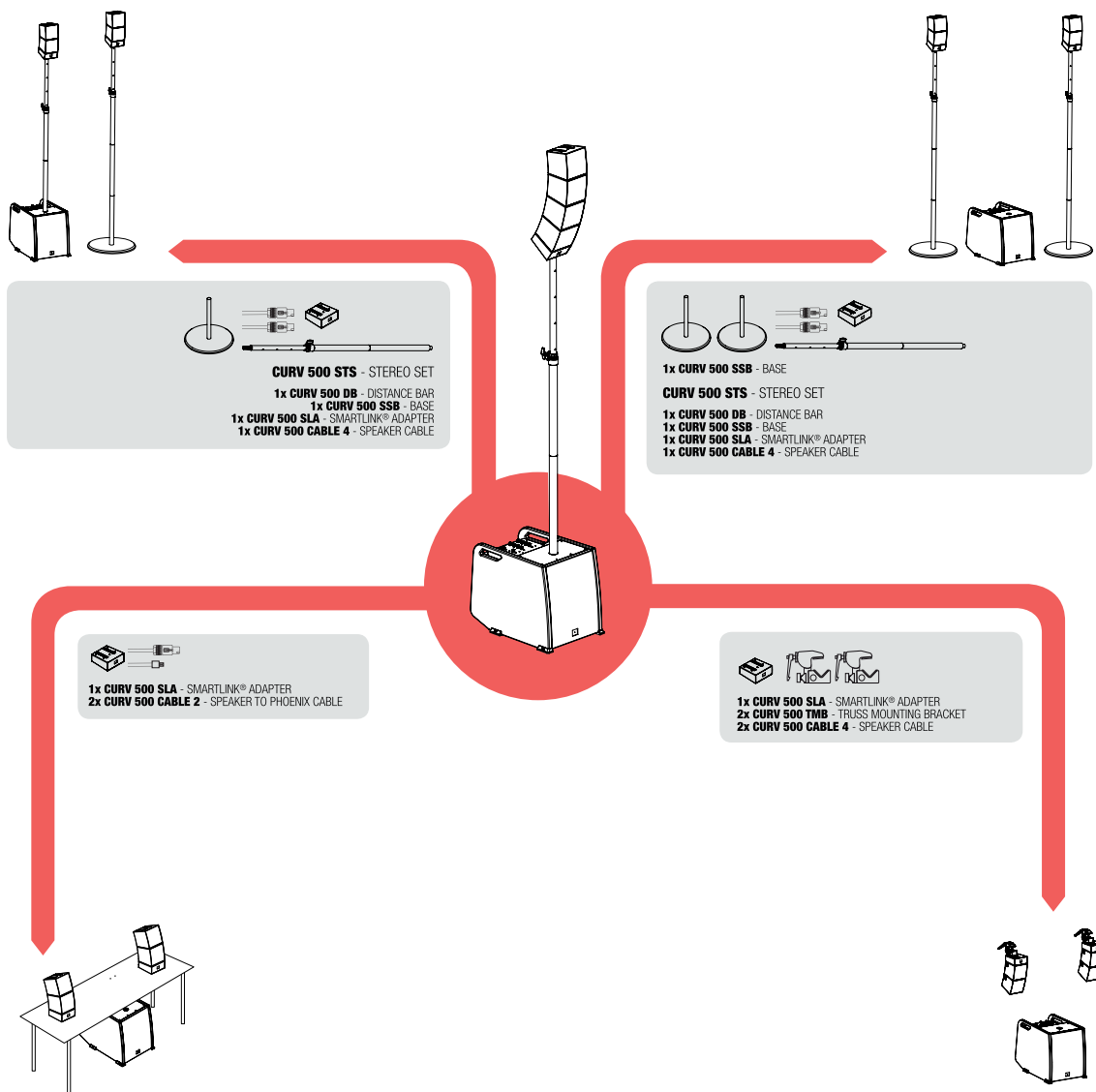
2x CURV 500 CMB - CEILING MOUNTING BRACKET  
3x CURV 500 S2 - PAIR OF SATELLITES



# ENTERTAINER SET CONFIGURATION GUIDE

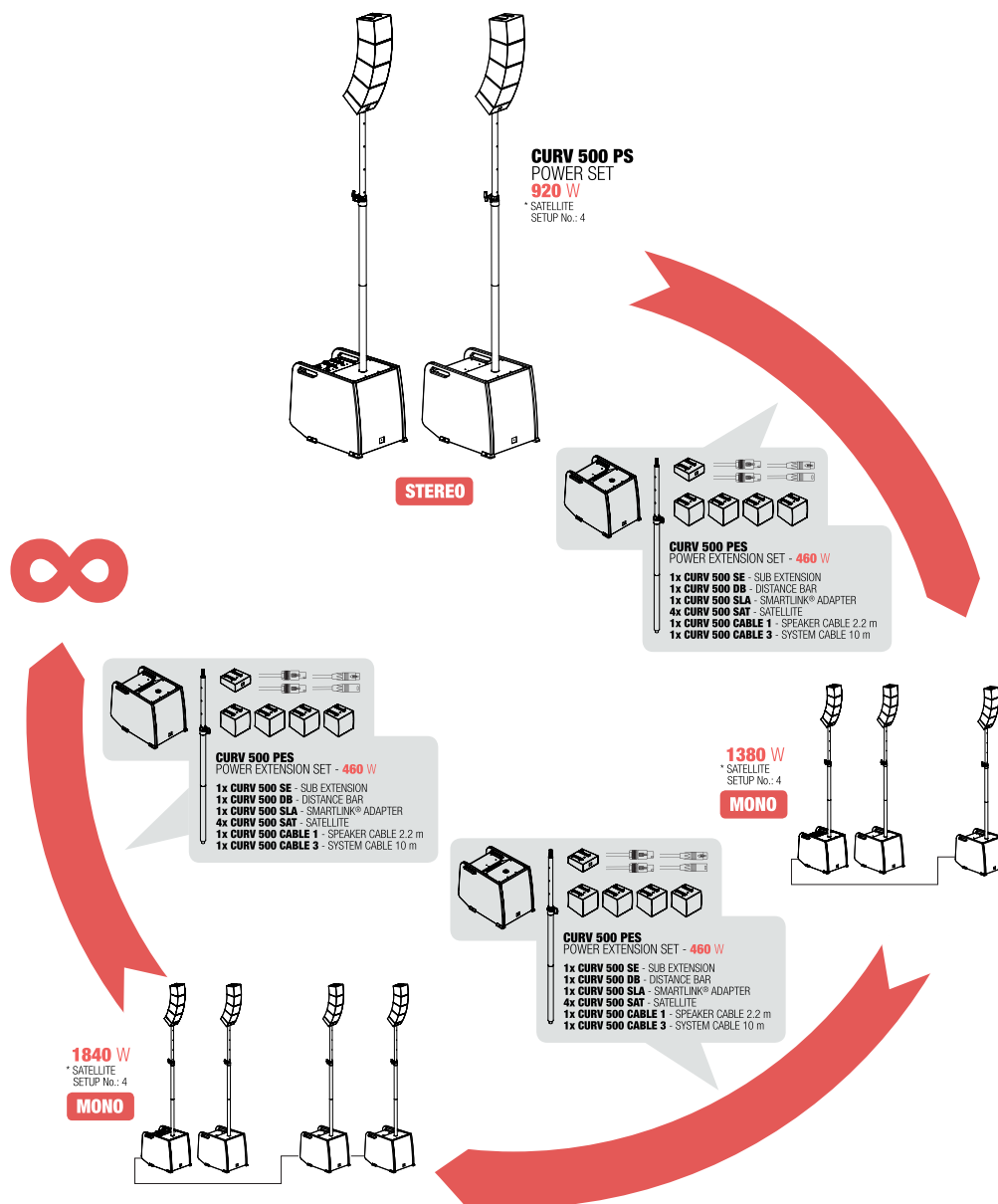
SCALABILITY - MORE POWER



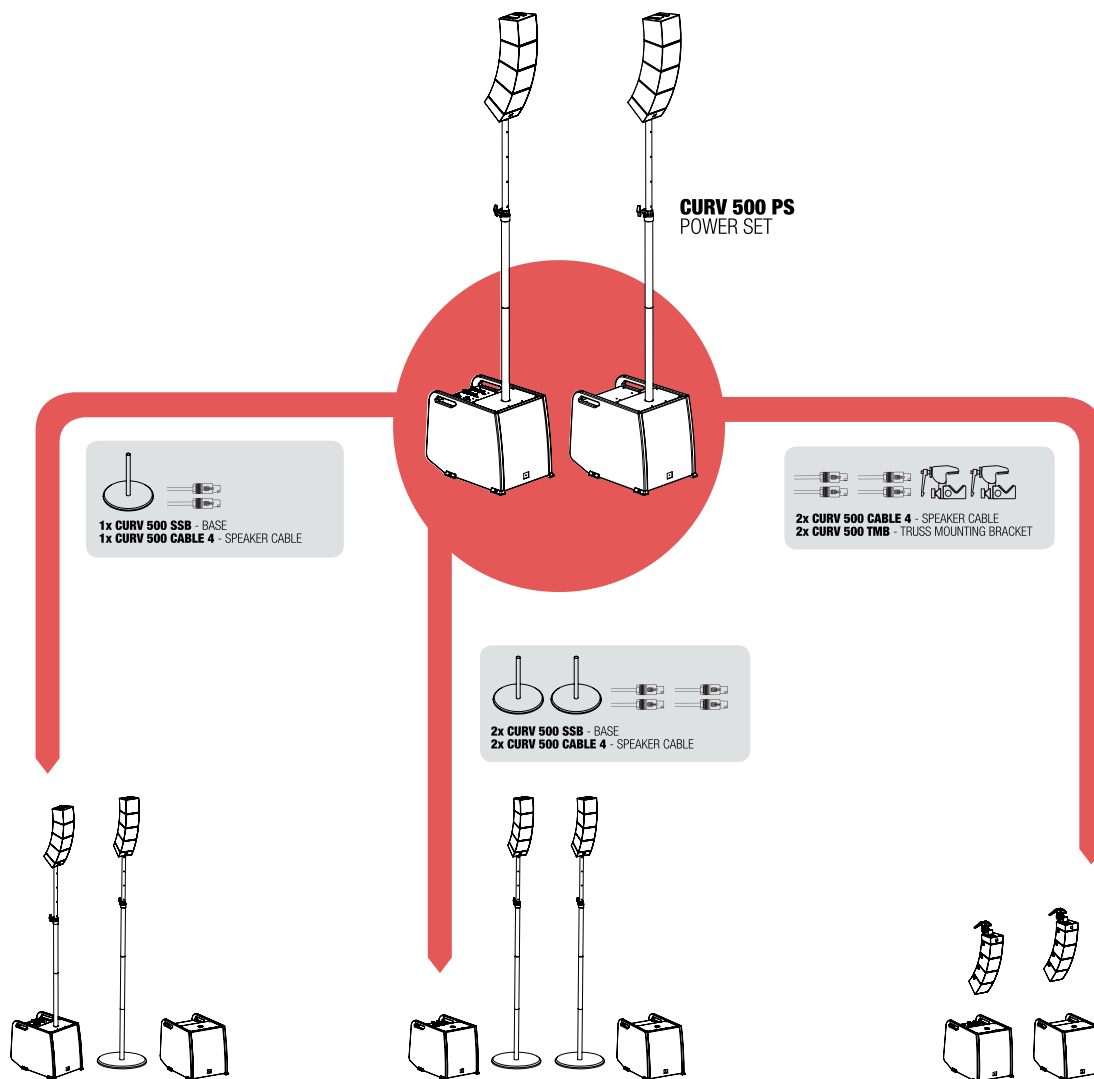


# POWER SET CONFIGURATION GUIDE

SCALABILITY - MORE POWER



## FLEXIBILITY - MORE APPLICATIONS



# AWARD WINNING DESIGN MADE PORTABLE.



reddot award

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your sound. our mission.

DESIGNED & ENGINEERED IN GERMANY  
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