


# The KSLi System.



**SL-Series**

**d&b**  
**audiotechnik** 



# From strength to strength. SL-Series, installed.

With broadband directivity embedded in its DNA, the KSLi System sets a new benchmark against which permanently installed audio can be measured. One where the unparalleled headroom, clarity, and dispersion control of the SL-Series is joined by the 40D amplifier; the most powerful installation platform in the d&b range.

All SL-Series systems achieve full bandwidth constant directivity control using a combination of clever cabinet geometry and cardioid techniques.

Directivity control favors speech intelligibility and clarity over reflections and reverberation, predictability over chaos, both indoors and out. The SL-Series increases accuracy and impact for the audience in front of the system and creates a superior working environment behind. The KSLi System inherits that same combination of technologies that gives

the SL-Series its sonic advantage: the ability to keep sound and silence where both should be. The headroom and sound characteristics possessed by the KSLi System accurately conveys any performance style, from the fine detail of acoustic musical genres and spoken word, to the high power requirements of dance and rock genres.

Exceptional sound with impeccable attributes is here to stay.

# Individual character.

The d&b Custom solutions team is on hand to develop made-to-measure adjustments such as special construction, weatherization, and aesthetic features for a precisely fashioned KSLi System that satisfies individual project requirements.

SVS (Special Version Stadium) loudspeakers include threaded inserts rather than integral rigging. This allows straightforward connection to project-specific metal brackets designed by the Custom solutions team that provide the required mechanical support. Once hung, individual loudspeakers can be removed from the array: a straightforward process that doesn't require dismantling the entire structure.

Climate considerations can also be accounted for, with WR (Weather Resistant) loudspeakers available as standard for the KSLi System. In harsher climates, SWR (Sea Water Resistant) variants offer a superior grade of resistance to wet or acidic environments.

If aesthetic demands are high on the agenda, KSLi System cabinets can take on any color you choose. For a truly customized look this can be combined with a variety of textured finishes.

Almost any combination of customization can be applied to the KSLi System, and the result will always provide the same acoustic performance as standard models.

# Peak installation power.

The 40D amplifier reaches new performance heights within the d&b installation range and sits at the heart of the KSLi System package. Here, current project demands and workflow requirements have been carefully considered alongside the voltage required to drive KSLi loudspeakers, resulting in a battery of enhancements:

- State-of-the-art DSP
- Information-rich monitoring display including device status, speaker setups, Input and Load monitoring, GPIO status, fault indication and more
- Enhanced energy saving features, power efficiency and AutoWakeup for environmentally responsible and sustainability Green Building requirements
- More GPIO ports (8 in + 4 out + General fault)



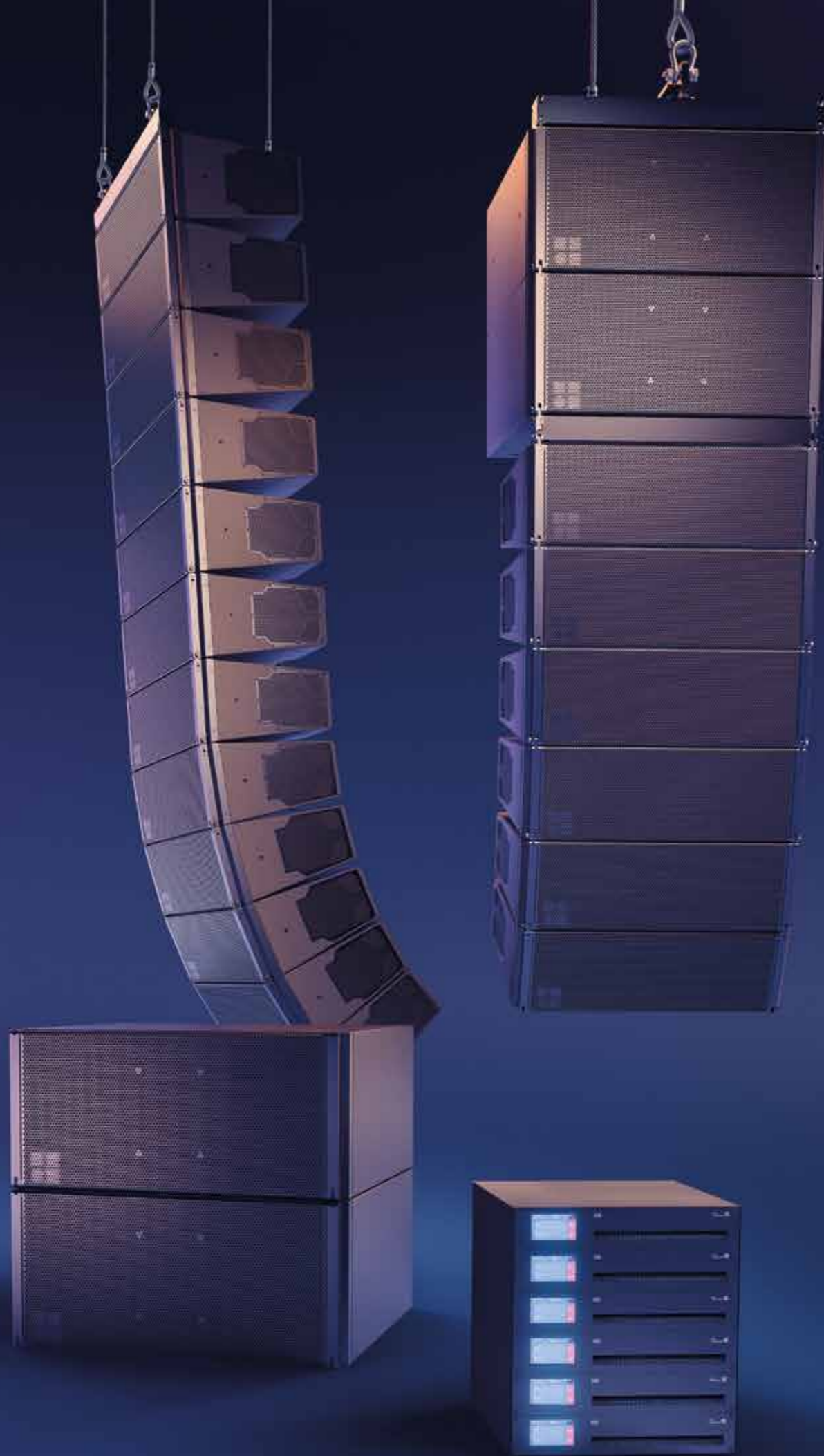
<b>User interface</b>	4,3" Color TFT touchscreen
<b>Output channels</b>	4
<b>Input channels</b>	4 x AES3 and 4 x analog
<b>Remote</b>	OCA / AES70 via 1 Gbit Ethernet RJ45
<b>Dynamic range (digital input), unweighted</b>	118 dB
<b>Max output voltage</b>	180 V <sub>peak</sub>
<b>Maximum output power</b>	4 x 2000 W into 4/8 ohms
<b>Input connectors</b>	Phoenix Euroblock
<b>Output connectors</b>	Phoenix Euroblock
<b>GPIO connectors</b>	8 x GPI, 4 x GPO
<b>Power supply</b>	Autosensing switched mode power supply with active PFC
<b>Mains voltage</b>	100 - 127 / 208 - 240 V, 50 - 60 Hz
<b>Weight (kg/lb)</b>	13,3 kg / 29,3 lb
<b>Dimensions</b>	2 RU x 19" x 465 mm

# Above and beyond.

True, the precise horizontal directivity control of the KSLi System loudspeakers elevates fixed installation audio to new heights. But as the name implies, the full potential of the KSLi System cannot be measured by loudspeakers alone.

The KSLi System is a complete package: one that considers all aspects of installation design, deployment and operation. Whether a mounting frame, adapter, or something more complex like custom construction is required, a solution to every eventuality is contained within the integrated whole.

These are the components you hear. In truth, the KSLi System consists of so much more.



## KSLi8 and KSLi12

The KSLi8 and KSLi12 loudspeakers maintain seamless, full bandwidth directivity control down to the lowest frequencies they produce.

Each cabinet features:

- Two custom designed 1.4" exit HF drivers with 3" voice coils in a compact format bring high output and resolution with an impeccable sonic quality
- A high sensitivity horn for the midrange, loaded with an 8" driver
- Two 10" LF drivers, coupled with two side facing 8" LF drivers that couple towards the front, cancel towards the rear and increase low frequency headroom

The extended frequency response and extreme low frequency output of the KSLi8 and KSLi12 loudspeakers is such that subwoofers do not always have to be flown with the main hangs.

## KSLi-SUB and KSLi-GSUB

The KSLi-SUB and KSLi-GSUB produce a cardioid dispersion pattern courtesy of two forward-facing 15" drivers, while a further 15" driver radiates to the rear. Sharing the same width as KSLi loudspeakers, the KSLi-SUB and KSLi-GSUB differ only in rigging hardware. The KSLi-SUB can be flown in KSLi arrays permitting low frequency extension without visual interference. The KSLi-GSUB is designed for ground stacked applications only, occupying relatively little space while still producing sizeable bass.



## KSLi8

## KSLi12

## KSLi-SUB

## KSLi-GSUB

<b>Components</b>	2 x 10" Front LF 2 x 8" Side LF 1 x 8" MF 2 x 1.4" exit HF 3" coil	2 x 10" Front LF 2 x 8" Side LF 1 x 8" MF 2 x 1.4" exit HF 3" coil	3 x 15" driver	3 x 15" driver
<b>Output (1 m)<sup>1</sup></b>	145 dB SPL	144 dB SPL	139 dB SPL	139 dB SPL
<b>Power rating<sup>2</sup> Front LF</b>	450 / 1800 W	450 / 1800 W		
<b>Power rating<sup>2</sup> Side LF/MF/HF</b>	250 / 1000 W	250 / 1000 W		
<b>Power handling capacity front/rear</b>			900 / 3500 W, 500 / 2000 W	900 / 3500 W, 500 / 2000 W
<b>Frequency response (-5 dB)</b>	54 Hz - 18 kHz	54 Hz - 18 kHz	36 Hz - 105 Hz	36 Hz - 105 Hz
<b>Dispersion (H)</b>	80° <sup>3</sup>	120° <sup>3</sup>	cardioid	cardioid
<b>Splay angle settings</b>	0° - 10° (1° increments)	0° - 10° (1° increments)		
<b>Cabinets per 40D (2-Way Active)</b>	2 (with ArrayProcessing) 4 (with Arc / Line mode)	2 (with ArrayProcessing) 4 (with Arc / Line mode)	2	2
<b>Dimensions mm (H x W x D)</b>	330 x 1000 x 572	330 x 1000 x 572	450 x 1000 x 900 <sup>4</sup>	450 x 1000 x 900 <sup>4</sup>
<b>Weight kg</b>	57	57	82	78
<b>Dimensions inch (H x W x D)</b>	13 x 39.4 x 22.5	13 x 39.4 x 22.5	17.7 x 39.4 x 35.5 <sup>4</sup>	17.7 x 39.4 x 35.5 <sup>4</sup>
<b>Weight lb</b>	126	126	181	172

<sup>1</sup> SPLmax: Broadband signal IEC 60268 <sup>2</sup> RMS / peak <sup>3</sup> ≥150 Hz <sup>4</sup> Dimensions without wheels



# Efficiency is everything.

Each system within the SL-Series is the result of applied evolution: an ongoing sequence of discoveries that unearth new approaches and technologies that fit comfortably within an integrated approach to sound reinforcement. The d&b Workflow considers every step taken right from the very beginning through to the final result.

That said, the physical components of the KSLi System form just one part of the complete package. The full functionality of any d&b system is instantly inherited from the software and hardware suite for planning, simulation and control.

From planning to performance, support at every stage of installation is provided by a range of tools including:

- Revit files
- ArrayCalc
- ArrayProcessing
- NoizCalc
- Dante and Milan audio network transport via the DS10 and DS20 Audio network bridges
- OCA / AES70
- R90 Touchscreen remote control
- R1 Remote control software

All completely integrated as part of the d&b Workflow.

An arsenal of tools combined with the highest degree of predictable dispersion behavior over the entire audio bandwidth, and a level of loudspeaker performance that outclasses their size.

At d&b, an efficient system is an effective system ready to fulfil every responsibility expected of them.

