The XSLi8 SVS loudspeaker



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The XSLi8 SVS SVS is an installation-specific line array loudspeaker for small to medium-scale sound reinforcement applications. This Special Version Stadium (SVS) loudspeaker uses custom rigging solutions to meet the specific requirements of stadium applications. The XSLi8 SVS loudspeaker is optimized for permanent outdoor use with an enclosure rated at IP55.

The cabinets can be flown in vertical columns producing an 80° constant directivity dispersion pattern in the horizontal plane. The cabinet is a 3-way designs, housing 2×8 " neodymium forward LF drivers, 2×6.5 " neodymium side firing LF drivers, one horn-loaded 6.5" MF driver and 2×1 " exit HF compression drivers with 2" coils mounted to a dedicated wave shaping device. The cylindrical wave segments of each cabinet couple without gaps and sum up coherently. Splay angles between adjacent cabinets can be set in the range from 0° to 14° in 1° increments.

The cabinet is driven by two channels of the applicable d&b amplifier which provides dedicated processing functions for the front LF and passively crossed-over side LF and MF/HF sections.

All components are arranged symmetrically around the center axis of the cabinet to produce a perfectly symmetrical dispersion pattern. This setup allows for a very smooth crossover design with a well defined overlap of adjacent frequency bands resulting in a very consistent and accurate horizontal dispersion.

Due to the arrangement of the forward and sideward LF drivers in combination with their processing functions, the directivity is maintained across the entire frequency range.

The frequency response extends from 60 Hz to above 18 kHz.

The cabinet enclosure is injection molded (ABS polycarbonate) and has an impact and weather protected 2K finish. The front and side panels of the cabinet incorporates a rigid metal grill backed by an acoustically transparent and water repellent fabric.

d&b amplifiers

The d&b audiotechnik loudspeaker range is designed exclusively for operation with d&b amplifiers. These provide power as well as comprehensive control and protection functions tailored to achieve the performance, reliability and longevity associated with the d&b system approach.

The d&b 40D amplifier is recommended to drive the XSLi8 SVS loudspeaker with the appropriate loudspeaker setup selected. The d&b D80 and 30D amplifier can also be used.

System data

| Frequency response (-5 dB standard) | 60 Hz - 18 kHz |
|---------------------------------------|----------------------|
| Frequency response (-5 dB CUT mode) | 90 Hz - 18 kHz |
| Max. sound pressure (1 m, free field) | |
| With D40/D80 | 141 dB |
| With 30D | 138 dB |
| (SPLmax: Broadba | nd signal IEC 60268) |

Loudspeaker data

| Nominal impedance front LF | 8 ohms |
|--|--------------------------|
| Nominal impedance side LF/MF/HF | 8 ohms |
| Power handling capacity front LF (RMS/peak 10 ms) | |
| | |
| Power handling capacity side LF/MF/HF (RMS/peak 10 ms) | |
| | |
| Nominal horizontal dispersion angle | 80° |
| Splay angle setting0 | 14° (1° increment) |
| Components | 2 x 8" front LF driver |
| | .2 x 6.5" side LF driver |
| | 1 x 6.5" MF driver |
| | |
| Pas | sive crossover network |
| Connections Faston type connecto | r (2 x 6.3 mm), female |
| Weight | |



The XSLi8 SVS loudspeaker







XSLi8 SVS cabinet dimensions in mm [inch]

Applications

- Stadiums and arenas
- Outdoor venues
- Cruise ships
- All kind of applications with custom rigging requirements

Features and benefits

- Constant directivity behavior over the entire operating range using cardioid techniques in the lower range
- Exceptional broadband headroom
- Requires only two amplifier channels; one channel drives the front facing LF drivers, while the other amplifier channel drives the passively crossed over side firing LF drivers, the MF section and two HF drivers
- ArrayProcessing optimizes the level and tonal balance over the complete audience listening area
- For short arrays where ArrayProcessing is not required, two XSLi loudspeakers can be linked and driven in the Line/Arc mode
- Custom solutions availale (on request)
- Dedicated custom variants for either special color (SC), weather resistant (WR), stadium variant (SVS) or sea water resistant (SWR) options

Architectural specifications

The loudspeaker system shall consist of two forward 8" LF neodymium drivers in a vented enclosure radiating to the front, two sideward 6.5" LF neodymium drivers, one hornloaded 6.5" midrange driver and two coaxially mounted 1" exit compression drivers with 2" voicecoils coupled to a waveshaping device.

The loudspeaker system shall be 3-way, actively driven between the forward LF drivers and the sideward LF driver with mid/high sections. Passive crossovers shall be used between the sideward LF driver and the mid/high sections.

The loudspeaker shall only be operated by a dedicated, compatible controller amplifier.

The loudspeaker shall produce a cylindrical wave segment suitable for use as an element in a line array and maintain an extremely accurate horizontal dispersion pattern of 80° over its entire operating bandwidth.

The enclosure shall be injection molded (ABS polycarbonate) with an impact resistant and weather protecting 2K finish. The cabinet front and side shall be protected by a perforated steel grill backed with acoustically transparent and water repellent fabric.

The cabinet shall be rated IP55 in accordance to IEC529. The cabinet shall incorporate four M10 threated inserts on each side panel and one M10 on the rear panel for custom rigging accessories.

The power handling of the forward LF section shall be 400/1200 W while the power handling of the sideward LF drivers and MF/HF section shall be 300/850 W (RMS/peak 10 ms).

The frequency response (-5 dB) measured on axis shall extend from 60 Hz - 18 kHz with maximum sound pressure level (SPLmax peak/1 m) of at least 141 dB. The horizontal dispersion shall be 80°, while the vertical splay angle shall be adjustable in a range of 0° - 14° in 1° increments.

The connection panel on the rear shall recessed and include corresponding Faston type connectors (2 x 6.3 mm, female). A cover plate which accepts single or dual PG cable glands (Type PG13.5 for cable diameters from 6 - 12 mm) shall be provided.

The dimensions (W x H x D) shall not exceed 700 x 280 x 503 mm (27.5" x 11" x 18.8") and shall weigh no more than 37 kg (81.5 lb).

The loudspeaker shall be the XSLi8 SVS by: d&b audiotechnik GmbH & Co. KG.

