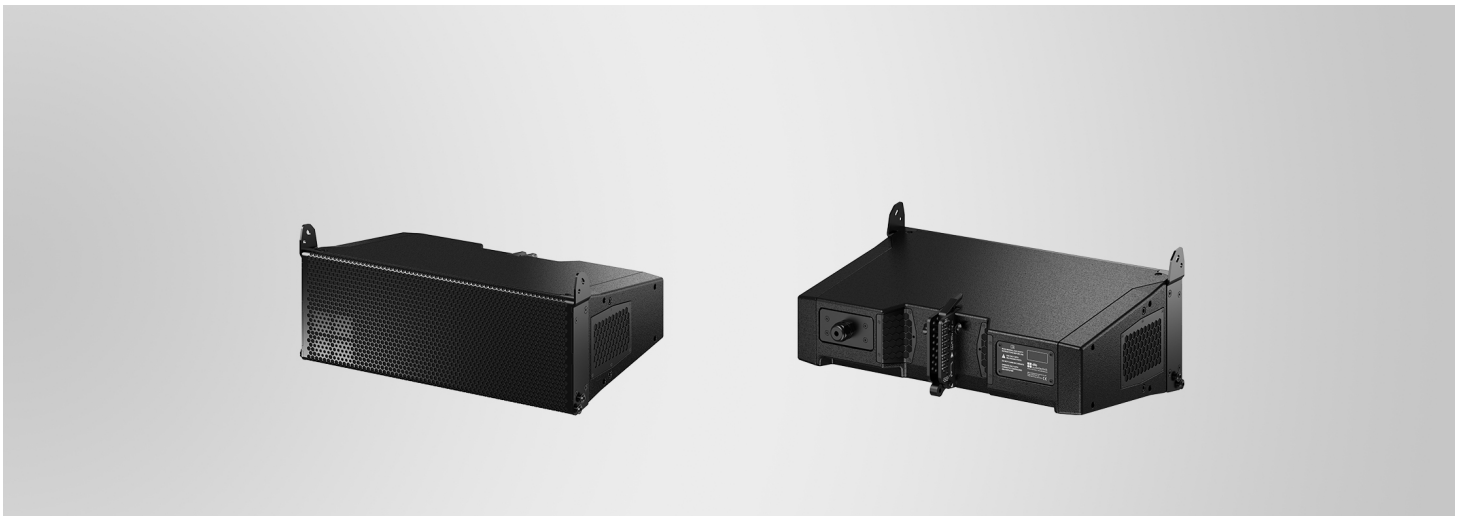
The CCLi8 loudspeaker

- preliminary -



The CCLi8 is a compact cardioid line array loudspeaker for small to medium-scale sound reinforcement in fixed install applications. When the CCLi Flying frame is used, up to 24 cabinets can be flown in vertical columns producing an 80° constant directivity dispersion pattern in the horizontal plane.
The cabinet is a 2-way passive design housing 2 x 7" neodymium forward LF drivers, 2 x 5" neodymium side firing LF drivers and two 1.75" HF compression drivers 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.
All components are arranged symmetrically around the center axis of the cabinet to produce a perfect symmetrical dispersion pattern. This setup allows for a 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 operating bandwidth.
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 baffle as well as the side and rear ports of the cabinet incorporate a rigid metal grill backed by an acoustically transparent and water repellent fabric. The front grill also incorporates an integrated mounting plate (Front link) on both sides.

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.

System data

Frequency response (–5 dB standard)	60 Hz - 18 kHz
Frequency response (–5 dB CUT mode)	90 Hz - 18 kHz
Frequency response (–10 dB standard, IEC60268)	55 Hz - 20 kHz
Frequency response (–10 dB CUT mode, IEC60268)	80 Hz - 20 kHz
Max. SPL (Peak, 1 m, free field, broadband signal IEC60268)	
with D25/D20/25D/30D	135 dB
with D90/D80/D40/40D	137 dB
4x CCLi8 (far field, scaled to 1 m)	
with D90/D80/D40/40D	149 dB

Loudspeaker data

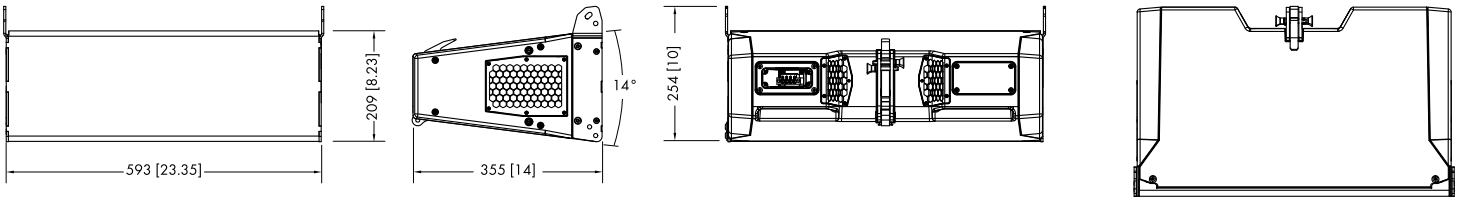
Nominal impedance	10 ohms
Power handling capacity (RMS/peak 10 ms)	400/1200 W
Nominal horizontal dispersion angle	80°
Splay angle setting	0 ... 14° (1° increment)
Components	2x 7" front LF driver
	2x 5" side LF driver
	(2x 8.7" total equivalent* LF driver size)
	2x 10.2 x 63 mm exit HF compression drivers with 1.75" coil
	Passive crossover network
Connections	Phoenix socket (Type: DFK PC 4/4 GF)
Weight	18.1 kg (40 lb)

* Calculated equivalent diameter of coherent addition of front and side radiating LF drivers.

d&b audiotechnik

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CCLi8 cabinet dimensions in mm [inch]

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Applications

- Small and medium scale sound reinforcement applications
- Concert halls
- Houses of Worship
- Theaters
- Clubs and music venues

Features and benefits

- Constant directivity behavior over the entire operating range using cardioid techniques in the lower range.
- Exceptional broadband headroom.
- Requires only one amplifier channel.
- ArrayProcessing optimizes the level and tonal balance over the complete audience listening area.
- For short arrays where ArrayProcessing is not required, two loudspeakers can be linked and driven in the Line/Arc mode.

Architectural specifications

The loudspeaker system shall be a bipolar 2-way design with passive crossover network consisting of two forward 7" LF neodymium drivers in a vented enclosure radiating to the front, two sideward 5" LF neodymium drivers and two coaxially mounted 10.2 x 63 mm exit HF compression drivers with 1.75" voicecoils, coupled to a waveshaping device.
The total equivalent front facing LF driver size shall be 2x 8.7".
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 baffle as well as and side and rear ports shall be protected by a rigid, perforated steel grill backed with acoustically transparent and water repellent fabric.
The cabinet shall incorporate a three point rigging system for the assembly of vertical line source arrays in connection with dedicated flying frames.
The power handling shall be 400/1200 W (RMS/peak 10 ms).
The frequency response (–5 dB) measured on axis shall extend from 60 Hz - 18 kHz
Maximum sound pressure level (SPLmax peak/1 m/free field) of single cabinet shall be at least 137 dB while maximum sound pressure level (SPLmax far field, scaled to1 m) of 4 modules shall be at least 149 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 back shall be recessed and fitted a 4-pin Phoenix connector.
A cover plate which accepts a single PG cable gland (Type PG13.5 for cable diameters from 6 - 12 mm) shall be available upon request.
The dimensions (W x H x D) shall not exceed 593 x 209 x 355 mm (23.35" x 8.23" x 14") and shall weigh no more than 18.1 kg (40 lb).

The loudspeaker shall be the CCLi8 by:
d&b audiotechnik GmbH & Co. KG.

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