The CCLi-SUB subwoofer

- preliminary -



The CCLi-SUB is a flyable, compact high performance cardioid subwoofer. It houses two long excursion neodymium drivers in an integrated cardioid setup: a 15" driver in a bass-reflex design facing to the front and a 10" driver in a 2-chamber bandpass design radiating to the rear. The arrangement and tuning provide a cardioid dispersion pattern using a single amplifier channel.
Its frequency response extends from 39 Hz to 150/100 Hz.

The cabinet enclosure is constructed from marine plywood and has an impact and weather protected PCP finish. The front and rear of the cabinet is protected by 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)	39 Hz - 150 Hz
Frequency response (–5 dB 100 Hz mode)	39 Hz - 100 Hz
Frequency response (–10 dB standard, IEC60268)	35 Hz - 180 Hz
Frequency response (–10 dB 100 Hz mode, IEC60268)	35 Hz - 140 Hz
Max. sound pressure (1 m, free field)	
with D25/D20/25D/30D	129 dB
with D90/D80/D40/40D	132 dB
	(SPLmax: Broadband signal IEC60268)

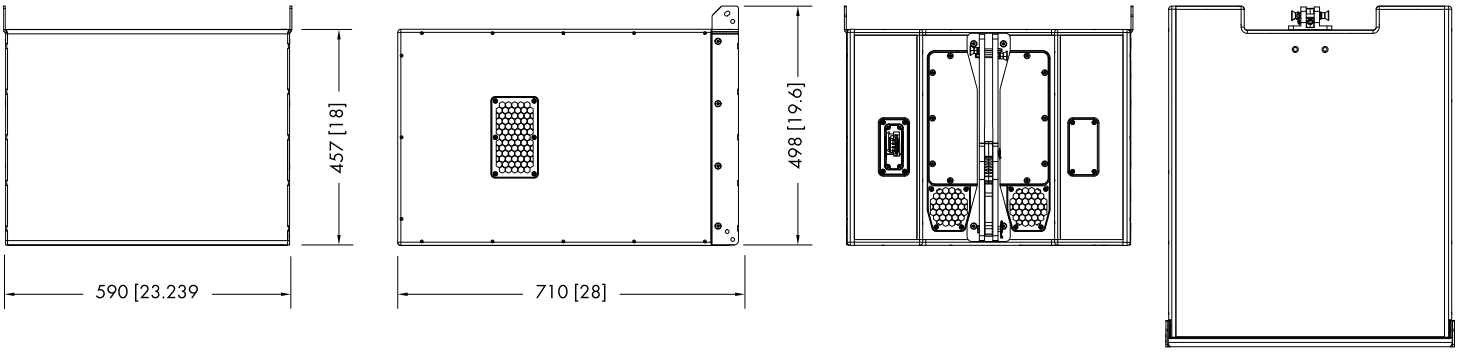
Loudspeaker data

Nominal impedance front/rear	10 ohms
Power handling capacity (RMS/peak 10 ms)	500/1200 W
Components	1 x 15" driver front/1 x 10" driver rear
Connections	Phoenix socket (Type: DFK PC 4/4 GF)
Weight	42.4 kg (93.5 lb)

d&b audiotechnik

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CCLi-SUB cabinet dimensions in mm [inch]

Applications

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

Features and benefits

- Cardioid output pattern rejects the transmission of energy towards the rear.
- Requires only one amplifier channel.

Architectural specifications

The loudspeaker shall be a flyable compact high performance, passive cardioid subwoofer.
It shall consist of two long excursion neodymium drivers in an integrated cardioid setup: a 15" driver in a bass-reflex design shall facing to the front and a 10" driver in a 2-chamber bandpass design shall radiating to the rear. The arrangement and tuning shall provide a cardioid dispersion pattern using a single amplifier channel.
The loudspeaker shall only be operated by a dedicated, compatible controller amplifier.
The cabinet enclosure shall be made from marine plywood with an impact resistant paint finish.
The front driver shall be protected by a rigid metal grill backed by an acoustically transparent foam.
The connection panel on the back shall be recessed and fitted a 4-pin Phoenix connector.
A cover plate which accepts single PG cable gland (Type PG13.5 for cable diameters from 6 - 12 mm) shall be available upon request.
The cabinet shall incorporate a three point rigging system for the assembly of vertical columns in connection with dedicated flying frames.
The power handling capacity shall be 500 W RMS and 1200 W peak (10 ms). The frequency response (–5 dB) measured on axis shall be 39 Hz to 150 Hz with a maximum sound pressure of at least 132 dB.
The dimensions (W x H x D) shall not exceed 590 x 457 x 835 mm (23.23" x 18" x 33") and shall weigh no more than 42.4 kg (93.5 lb).

The loudspeaker shall be the CCLi-SUB by:
d&b audiotechnik GmbH & Co. KG.

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