



CCL System

Compact cardioid line array

We are d&b audiotechnik

Made in Germany, used all over the world.
d&b audiotechnik sound systems are the
global standard in performance.

Holistic thinking, connected workflow,
support, education and design are
seamlessly combined to enable your
vision. From vast to intimate.

Welcome to d&b.

"d&b is known for being one of the best audio
systems globally; it has technology that is
ahead of other brands and is allowing us to
address our acoustic issues."

Malcom Giles
Coca Cola Arena

"We worked with d&b throughout the project.
HERE is a prestigious new venue, and the
strength at Clair Global group is the people.
It's important to us that for every project
we assemble a team of specialists that can
really deliver the best possible results. d&b
were a part of that team for HERE and the
support they provided was excellent – every
step of the way."

Tom Williams
Clair Global Integration



A flagship solution for focused spaces

Introducing the CCL and CCLi systems. The first full range of the CL-Series, a cardioid system unique among compact line arrays.

Our mission was to equip the CCL and CCLi System with meaningful features for those managing smaller venues and events: Broadband directivity control with low frequency cardioid behaviour, using an innovative new passive design.

A giant leap forward in a system that's just the right size.



CCL System highlights

- A newly revised and patented cardioid principle
- 2-way passive design to reduce system infrastructure complexity
- Dedicated flyable subwoofers and matching ground subwoofer B12-SUB and Bi12-SUB
- All-in-one master flying frame with components intelligently integrated for efficiency
- The industry standard and trusted d&b rigging and system management workflow



	CCL 8 • CCL12	CCL-SUB
Components	LF 2x 7" + 2x 5" HF 2x 1.75"	Front 1x 15" Rear 1x 10"
Output (1m) ^{1,2}	137 dB • 136 dB	132 dB
Frequency response (-5dB)	62 Hz - 18 kHz	39 - 150 Hz
Dispersion (H)	80° • 120°	cardioid
Dimensions (h/w/d)	209 x 593 x 355 mm 8.23 x 23.35 x 14"	457 x 590 x 710 ³ / 835mm 18 x 23.3 x 23.2 ³ / 33"
Weight	17.6 kg / 38.8 lb	44.5 kg / 98 lb

¹ SPLmax: Broadband signal IEC60268, ² max output only available with D40, 40D, D80, D90 amplifier, ³ dimensions without wheels



CCLi System highlights

- Install specific version of all CCL system loudspeakers, using the same acoustical design and functionality
- Lightweight and elegant install solution
- Unparalleled size-to-performance ratio with notably improved intelligibility
- Most flexible application scalability based on innovative transducer design
- Smart amplification solutions for most efficient system installation
- Custom solutions to satisfy unique requirements



	CCLi 8 • CCLi12	CCLi-SUB
Components	LF 2x 7" + 2x 5" HF 2x 1.75"	Front 1x 15" Rear 1x 10"
Output (1m) ^{1,2}	137 dB • 136 dB	132 dB
Frequency response (-5dB)	62 Hz - 18 kHz	39 - 150 Hz
Dispersion (H)	80° • 120°	cardioid
Dimensions (h/w/d)	209 x 593 x 355 mm 8.23 x 23.35 x 14"	457 x 590 x 710mm 18 x 23.3 x 23.2"
Weight	17.6 kg / 38.8 lb	44.5 kg / 98 lb

¹ SPLmax: Broadband signal IEC60268, ² max output only available with D40, 40D, D80, D90 amplifier

Amplification.

Smart power.

Optimal efficiency.

Amplifiers

The CCL and CCLi System can be paired with a range of d&b amplifiers, including the D25, 25D, 40D and D40. To achieve most flexible usage the D40 or 40D can power up to 8 top units or subwoofer of the CCL or CCLi system, including B12-SUB and Bi12-SUB. Or use any combination of tops and subs to maximum output, without restrictions, under any load conditions.

If the application allows for an optimized and smart amp setting, applications can also be realized with the D25 and 25D amplifiers. With just a modest reduction in output these amps are the right choice when it comes to an unbeatable price-to-performance package, while remaining a maximum in audio quality and intelligibility. Settings are also available for the 30D and D20 amplifiers.

	25D amplifier	D40 amplifier
User interface	4,3" Color TFT touchscreen	4,35" Color TFT touchscreen
Output channels	4	4
Input channels	4 x AES3 and 4 x analog	4 x AES3 and 4 x analog
Dynamic range (digital input), unweighted	118 dB	118 dB
Max output voltage	180 V _{peak}	180 V _{peak}
Maximum output power	4 x 1800 W into 4 ohms 4 x 900 W into 8 ohms	4 x 2000 W into 4/8 ohms
Input connectors	Phoenix Euroblock	3 pin XLR female/ AES3
Output connectors	Phoenix Euroblock	NL4 plus central NL8
GPIO connectors	8 x GPI, 4 x GPO	
Mains voltage	100 - 127 / 208 - 240 V, 50 - 60 Hz	100 - 127 / 208 - 240 V, 50 - 60 Hz
Weight (kg/lb)	13,3 kg / 29,3 lb	13,8 kg / 30,4 lb
Dimensions	2 RU x 19" x 465 mm	2 RU x 19" x 445 mm



D40 amplifier



25D amplifier

B12-SUB and Bi12-SUB

Complementing the CCL and CCLi System, the B12-SUB and Bi12-SUB are compact high performance cardioid subwoofers for ground stacked applications. A front facing 15" and a 10" rear facing driver provide a single-channel cardioid dispersion pattern, with a frequency response that extends from 39 Hz to 150 Hz.



B12-SUB



Bi12-SUB

B12-SUB · Bi12-SUB	
Components	1 x 15" front 1 x 10" rear
Output (1m) ^{1,2}	132dB
Frequency response (-5dB)	39 - 150 Hz
Dispersion (H)	cardioid
Dimensions (h/w/d)	457 x 590 x 697 ³ / 822mm 18 x 23.3 x 27.4 ³ / 32.4"
Weight	44.5 kg / 98 lb

¹ SPLmax: Broadband signal IEC60268, ² max output only available with D40, 40D, D80, D90 amplifier, ³ dimensions without wheels

Benefits of cardioid directivity

- **Clearer sound:** Less low frequency sound bouncing off the side and rear walls means a more focused listening experience.
- **Quieter stages:** Improves performance experience for artists and working environment for technical crews.
- **Reduced feedback:** Cardioid system behaviour helps prevent microphones on stage from picking up unwanted sound.
- **Improved intelligibility:** Speech and vocals are easier to understand. Focused sound towards the audience, and away from residential neighbours and other stages.
- **Enhanced audience experience:** Delivering sound directly to the audience creates a more immersive and enjoyable listening experience.

There is more to customization than color

Whenever a CL-Series product needs to be customized to match a particular need for an application, the d&b Custom solutions team is on hand to help.

Committed to satisfying unique requirements, Custom solutions develops special construction, weatherization, and aesthetic features for d&b loudspeakers to meet particular demands.

Discover the CL-Series



"The size of CCL makes it the perfect speaker system for a frontline PA in the Lyttelton - it fitted very neatly in front of the header. The cardioid nature meant we could focus more of the energy away from the walls and reduce unwanted reverberation. Its rear rejection also allowed us to get high SPL from the omnidirectional mics worn by the cast on stage, and the orchestra directly below."

Joel Price

Sound & Video Supervisor, Lyttelton Theatre



