



**PreSonus**

# CDL18s

Dante-enabled Active Subwoofer

## Key Features

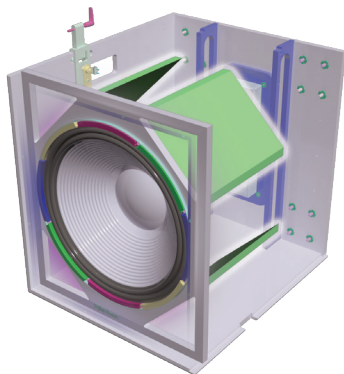
- Single 18-inch LF transducer with a 4-inch voice coil provides articulate low-end punch.
- Designed as the companion sub bass enclosure to the CDL12 full-range Constant Directivity Loudspeakers.
- Dante™ networking capability provides easy integration into established audio networks.
- Integrated PDA-1000 amplifier provides 2000W of peak power.
- Onboard DSP can be remotely controlled via WorxControl software for system optimization and speaker grouping.
- Integrated rigging hardware provides simple connection to other CDL-series enclosures and CDL Rigging Grid (sold separately).

## Applications

- Mobile sound reinforcement
- Permanent installation
- Sound reinforcement for mid-sized venues

## Efficient, Articulate Low-end Punch

A terrific complement for any full-range loudspeaker and the perfect companion for the PreSonus® CDL12 Constant Directivity loudspeaker, the CDL18s delivers a tight, coherent low-end, driven by an integrated 1000-watt Class D power amp, and features a unique ported design that maximizes efficiency in a compact form-factor. When flown together in a curved array, or combined for ground-stacked applications, the CDL18s and CDL12 form a complete, coherent loudspeaker system with an even response across the frequency spectrum.



The unique port configuration in the CDL18s enclosure maximizes efficiency to create a big bass sound from a compact cabinet. Each of the four triangle-shaped ports are placed in the corners so that they couple to the cabinet, taking advantage of the side walls to effectively elongate each port, allowing the CDL18s to move more air in a compact enclosure. This configuration also avoids port chuffing while minimizing baffle reflections to deliver better phase coherence. Its custom 18-inch low-frequency transducer with 4-inch voice coil can travel 7 mm before over-excursion, and easily handles 800W program / 1600W peak. Every design decision was made so that the CDL18s packs serious punch into a small footprint.

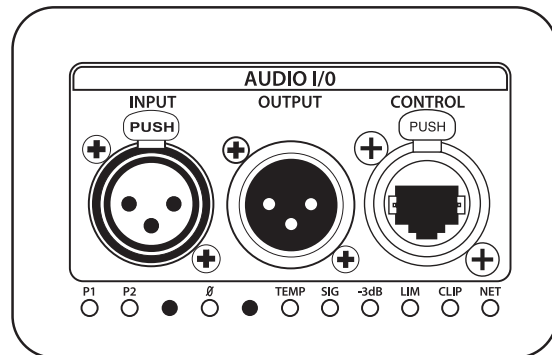
Its powerful bass performance and compact design make the CDL18s a desirable choice for both installed and mobile sound applications.

Each CDL18s is equipped with an integrated pole cup and supports ground-stacked systems with up to two CDL12 loudspeakers mounted up top. Need more bass from your mobile application? Rig two CDL18s subwoofers together and mount a single CDL12 loudspeaker using a 19-inch sub pole. Integrated pin-loaded rigging makes it easy to fly up to five CDL18s subwoofers, or suspend two CDL18s subwoofers with five CDL12 loudspeakers below to create a complete CDL constant curvature array system for suspended applications where professional concert level sound quality is essential.

## Onboard Processing Power

The CDL18s features an integrated PDA-1000, a heavy-duty 1000W Class-D power amplifier with robust onboard DSP. For more advanced applications, each CDL18s can be connected to a standard LAN network and remotely controlled using WorxControl software for macOS® and Windows®. When combined with the CDL12 and CDL18s, WorxControl provides speaker-management tools that include an 8-band EQ, polarity invert, compression, limiting, and 800 ms of delay. Speakers can be grouped and managed individually or together. Performance monitoring indicators allow you to monitor temperature and signal levels remotely.

## Dante® Ready



# Dante®

The onboard locking Ethernet connection supports both Control via WorxControl Software as well as Dante audio networking. Dante's multi-channel digital media networking technology delivers near-zero latency and synchronization. As an audio networking solution that has been adopted by many pro-audio manufacturers, it facilitates interoperability with a wide range of equipment—ensuring the CDL18s will integrate well into numerous installed sound environments.

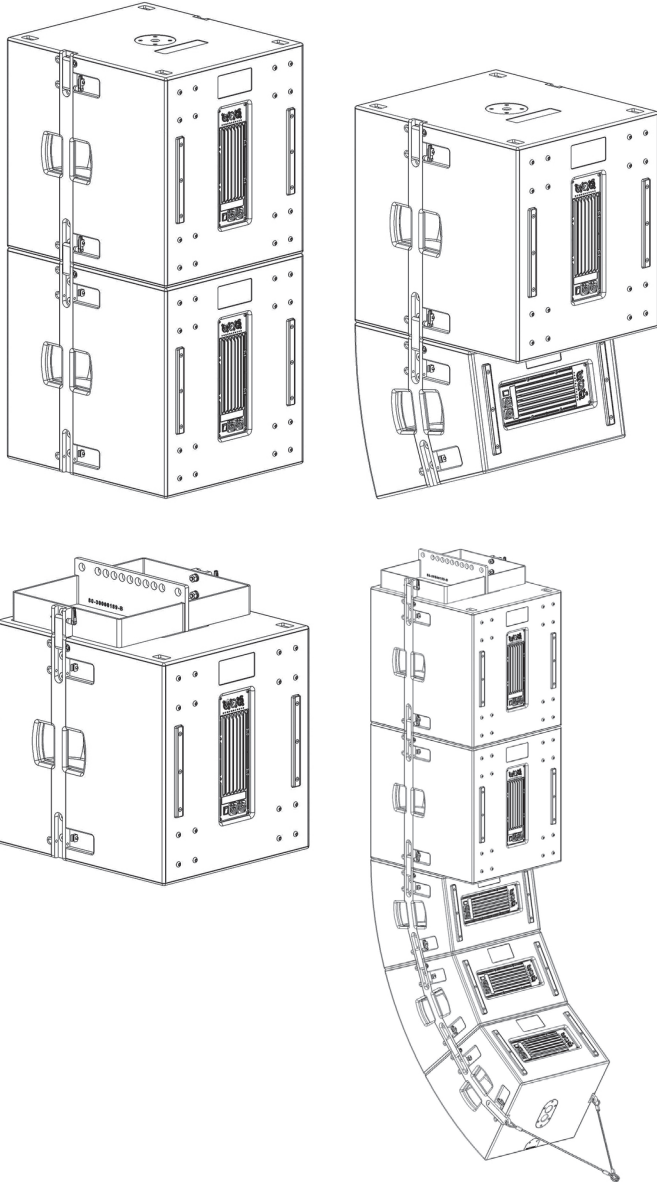
## Application and Deployment

The CDL18s can be configured individually or in a vertical array with other CDL18s subwoofers or CDL12 loudspeakers. Integrated rigging makes easy and secure box-to-box deployment. When suspending CDL-series loudspeakers, PreSonus requires the CDL Rigging Grid. This separately-sold rigging grid allows up to (6) CDL12 loudspeakers, (5) CDL18s subwoofers, or a number of combinations (see chart on following page) to be suspended in a vertical array.

The following table shows the maximum suspended loudspeaker load configurations.

## Supported Suspended Loudspeaker Configurations

Maximum Number of CDL12 Loudspeakers	0	2	3	4	5	6
Maximum Number of CDL18s Subwoofers	5	2	2	2	2	0



## Individual Component Weight

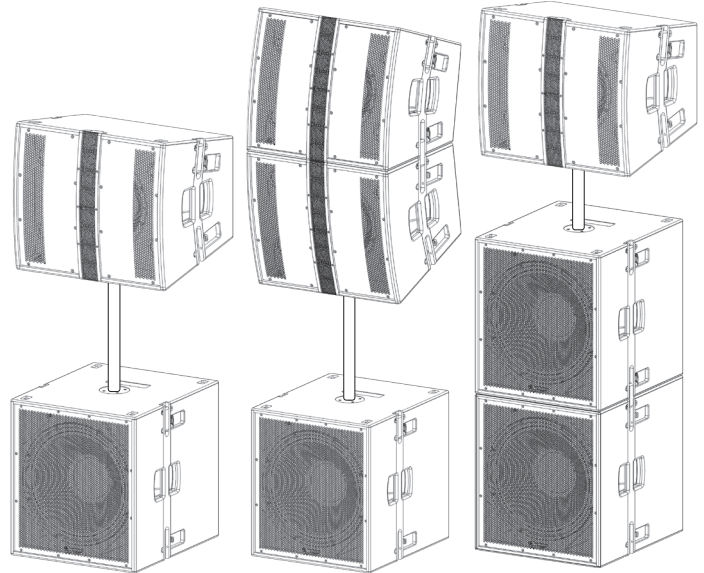
CDL12	CDL18s	CDL Rigging Grid	CDL Rigging Grid Extension Bar
65 lbs (29.5 kg)	105 lbs (47.6 kg)	24 lbs (10.9 kg)	5.8 lbs (2.6 kg)

All PreSonus CDL-series rigging and rigging accessories are rated for a 10:1 load. Structural suspension supports must also be rated for a 10:1 load.

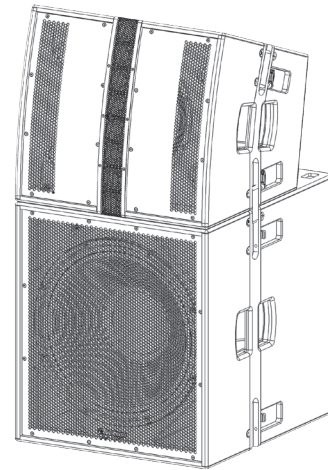
Up to (2) CDL12 loudspeakers may be used on a sub pole over the CDL18s subwoofer. The CDL12 is equipped with a two-position pole cup to provide more flexible coverage when pole-mounted (0° or 10° downward).

## Supported Pole-Mount Loudspeaker Configurations

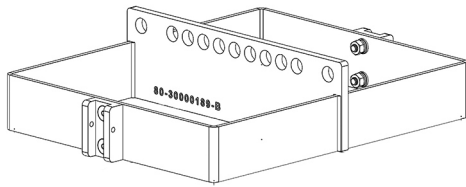
Maximum Number of CDL12 Loudspeakers	1	2
Maximum Number of CDL18s Loudspeakers	2	1



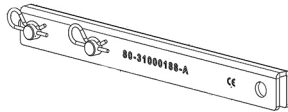
Ground-stacked, upward firing arrays, such as marching band applications that require covering the bleachers from a playing field are also supported. Up to (2) CDL12 loudspeakers can be mounted atop up to (2) CDL18s loudspeakers.



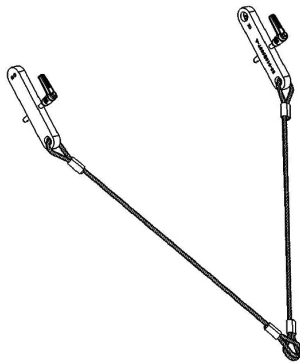
## Rigging Accessories (Sold Separately)



**CDL Rigging Grid.** The CDL Rigging Grid is required when suspending two or more arrayed CDL-series loudspeakers. Up to (6) CDL12 loudspeakers, (5) CDL18s subwoofers, or a number of combinations (see chart on previous page) can be suspended in a vertical array.



**CDL Rigging Extension Bar.** The CDL Rigging Extension Bar is an optional accessory for the CDL Rigging Grid that provides upward or downward tilt control for any suspended installation that requires it.



**CDL Rigging Sling.** The CDL Rigging Sling is required on all installations that include 4 or more CDL-series loudspeakers in a vertical array. Additionally, in installations using the CDL Rigging Extension Bar deployed with an upward or downward tilt of 12° or greater, the CDL Rigging Sling must be utilized.

## Technical Specifications

Type	Active Subwoofer
LF Driver	18" (4" Voice Coil)
Amplifier Type	Class D
Total System Power	2000W Peak, 1000W Program (500W RMS)
Frequency Range (-3 dB)	42 Hz – 150 Hz (Variable)
Maximum Peak SPL	135 dB
Input	1 Line (XLR)
Output	Direct Line Out (XLR)
Networking	Dante® (Audio and Control), Control (only) (Locking Ethernet)
Power Connection	powerCON® In and Out
User Controls	Preset Select, Polarity Invert
Indicators	Over Temperature, Signal, -3 dB, Limiter, Clip, Network Status
Enclosure	15 mm Eucalyptus plywood
Mounting	M20 Threaded pole receiver, Integrated rigging (10:1 load)
Dimensions (H x W x D)	22.2" x 20.8" x 24" (590 mm x 529 mm x 610 mm)
Weight	105 lbs. (47.6 kg)
Optional Accessories	ULT18-CSTR 4" Caster Kit, CDL18s-Cover Dust Cover

