CSX-LIVE 218
Dual-Driver, Direct Radiating Powered Subwoofer

Features

• Dual-driver, self-powered subwoofer
• 2 x 18” (460mm) drivers with 4” (100mm) voice coils
• Very high output capability
• Onboard Class D amplification and DSP
• Dante™ Digital Audio networking
• Global mains operation with Power Factor Correction
• Tour-grade plywood enclosure with flying inserts
• IP24 rating option with rain cowl

Applications

• Live sound reinforcement
• Theatre sound
• Corporate AV events
• Fixed installations in concert halls, ballrooms and HoW
• Bars and clubs

The CSX-LIVE 218 achieves the ultimate in subwoofer performance for the most demanding professional applications—delivering very high output levels and superb transient performance with minimal distortion. With an operating range of 35Hz-150Hz ± 3dB, it houses dual 18” long-exursion (460mm)/4” (100mm) voice coil drivers with water-resistant cones and triple roll surrounds. The design of the 18” drivers maximises output while minimising power compression and distortion, and the eight reflex ports have a large frontal area to reduce turbulent air noise at very high levels. With a prodigious maximum SPL capability of 143dB peak at 1 metre, the CSX-LIVE 218 is the ideal subwoofer for touring sound reinforcement, theatre and portable live sound applications—as well as premium installations—that require low frequency augmentation with low distortion at very high output levels.

A self-powered system, the CSX-LIVE 218 incorporates a Class D amplifier, DSP and Dante™ digital audio networking—simplifying set-up, enhancing control and eliminating amplifier racks. The onboard amplifier delivers a total of 4000W peak output to the drivers, and its switched-mode power supply auto-ranges to global mains voltages from 100 to 240V 50/60Hz. DSP functions—including parametric EQ, delay, muting, gain and preset selection—can be controlled over Ethernet from a PC or Windows® tablet via intuitive VU-NET™ proprietary software.

For simple set-ups, ‘plug-and-play’ presets for operation with the CDD-LIVE 8, 12 or 15—as well as a user-defined preset—can be selected on the rear panel, instead of using computer control. Additional presets provide the appropriate settings for the rear-facing subwoofer in a cardioid pair.

As an alternative to its analogue inputs, the CSX-LIVE 218 is Dante enabled for digital audio distribution and control over a single CAT5 cable to maintain audio quality however long the cable run.

The enclosure is constructed from multi-laminate plywood with a durable polyurea coating and equipped with a perforated steel grille, four grab handles, skids and M10 flying inserts.
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Technical Specifications

Acoustics
- **TYPE**: Dual-driver, direct radiating powered subwoofer
- **FREQUENCY RESPONSE**: 35Hz – 150Hz ±3dB, -10dB @ 30Hz
- **DRIVER**: 2x 18” (460mm)/4” (100mm) voice coil, long excursion, ferrite magnet, waterproof cone
- **INPUT SENSITIVITY**: -20dBu for 100dB SPL (CDD12/15 pre-set)
- **MAXIMUM SPL**: 140dB continuous / 143dB peak
- **DISPERSION**: Omnidirectional / or Cardioid (paired)
- **CROSSOVER**: Active
  - Presets for CDD Live 8, 12 & 15 mono-pole or cardioid (paired)

Module
- **Audio input**
  - **CONNECTORS**: Female XLR input, male XLR link output, Dante Audio Neutrik® Ethercon
  - **ANALOGUE INPUT IMPEDANCE**: 20 kΩ balanced to ground
  - **MAXIMUM ANALOGUE INPUT LEVEL**: 24.6 Vpp (+21dBu), over voltage protected

- **Internal Processing**
  - Multi-channel DSP, programmable via TCP/IP using VU-Net software
  - PEQ/shelving filters
  - Up to 48dB/Oct LPF
  - Up to 200mS input delay
  - Pre-set selection via rear panel switch

Network
- **CONNECTORS**: 2x Neutrik® Ethercon RJ45
- **PROTOCOL**: TCP/IP and UDP/IP

Amplifier Module
- **TYPE**: Two 2 channel switch-mode, class D, Bridged Tied Load
- **PEAK OUTPUT POWER**: 4000W
- **CONTINUOUS OUTPUT POWER**: 2000W
- **AVG/EFFICIENCY**: 89%
- **COOLING**: External fan
- **MAXIMUM AMBIENT TEMPERATURE**: 40°C (104°F) for full output

Power Supply
- **TYPE**: Switch mode, fixed frequency with PFC
- **AC INPUT OPERATING RANGE**: 85 – 265V ~ AC, 50 - 60Hz
- **POWER FACTOR**: > 0.98
- **NOMINAL POWER CONSUMPTION**: 550W
- **MAINS CONNECTOR**: Neutrik® Powercon True1

Mechanical
- **ENCLOSURE**: Extensively braced multi-laminate plywood
- **FINISH**: Textured black PU coating
- **PROTECTIVE GRILLE**: HEX perforated mild steel with protective zinc plating and black powder coat finish

- **FITTINGS**: Two skids on base, with mating channels on top
- **Four rear-mounted 100mm (4in) castors**
- **24 x M10 mounting points**
- **4x Bar handles, 2 on each side**
- **4x fittings for optional transit cover**
- **Optional weather protection cowl**

- **IP RATING**: IP24 factory option available

- **DIMENSIONS**: (W x H x D) 1085mm x 537mm x 792mm (42.7in x 21.1in x 31.16in).
- **WEIGHT**: 105kg (231lbs).

Architectural Specifications

The loudspeaker shall be a self-powered subwoofer consisting of two 18” reflex-loaded, long-exursion, low frequency transducers. The on-axis frequency response shall be 35Hz-150kHz +/- 3dB and the loudspeaker shall produce a maximum SPL of 143dB peak at 1 metre.

The loudspeaker shall incorporate a Class D amplifier module which shall deliver a total of 4000W peak output to the transducers and include onboard DSP and networking capabilities for remote control and monitoring. The loudspeaker shall be Dante™ enabled for Audio over IP. Its power supply shall employ Power Factor Correction and operate from 100-240V, 50-60Hz AC.

Audio connectors shall be male and female XLR type and the AC power connector shall be a Neutrik® Powercon True1. Network connectors shall be Neutrik® Ethercon RJ45 type.

The loudspeaker enclosure shall be constructed from multi-laminate plywood with a textured polyurea coating. The drivers shall be protected by a perforated steel grille and the enclosure shall be fitted with grab handles, skids and flying inserts.

An IP24 rating version with a rain cowl shall be available as a factory option.

Dimensions excluding castors (W x H x D) shall be 1085mm x 537mm x 792mm (42.7in x 21.1in x 31.16in). Dimensions including castors (W x H x D) shall be 1085mm x 537mm x 920mm (42.7in x 21.1in x 36.2in). Weight shall be 105kg (231lbs).

The loudspeaker shall be the Martin Audio CSX-LIVE 218.