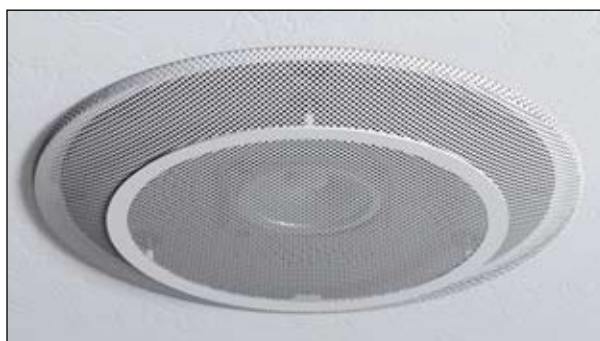
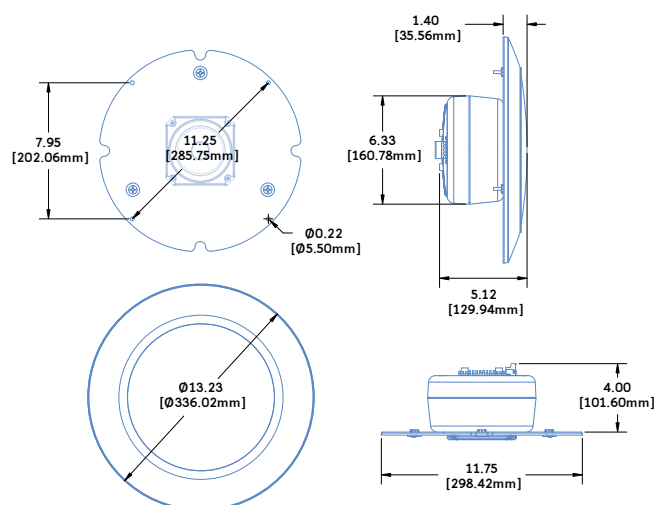




Stella™-4C : Ceiling Mount Installation Loudspeaker



Also available in black and custom colors
(backbox not included)



The Stella-4C ceiling mount installation loudspeaker is a self-powered loudspeaker engineered primarily for use in Meyer Sound's Constellation electroacoustic architecture. The Stella-4C delivers the same acoustical performance as the Stella-4 installation loudspeaker in a package specifically designed for flushmount ceiling and wall applications, where it mounts in a standard backbox for 8-inch drivers (with a minimum depth of 6.5 inches). The Stella-4C is housed in an aluminum die cast enclosure with a heatsink on the back.

Offering exceptional performance for a self-powered loudspeaker of its size, the Stella-4C's single 4-inch cone transducer is capable of producing a maximum peak SPL of 108 dB at one meter over a wide frequency range of 100 Hz to 22 kHz. The Stella-4C contains amplification and signal processing onboard, and exhibits the same low distortion, high intelligibility, and

flat frequency and phase response for which Meyer Sound products are known. As a self-powered loudspeaker, the Stella-4C offers simplified installation for the multichannel output of Constellation systems or other installation applications.

Balanced audio and DC power are fed to the Stella-4C from a 5-pin Phoenix connector on its rear panel. Meyer Sound's patented Iso-Input™ transformer-isolated differential input circuit yields a high common mode signal rejection ratio (CMRR). Powering the unit from a unipolar 12 to 18 V DC external power source reduces induced noise significantly, while the use of a low voltage supply eliminates the need for wiring conduits.

The required method for delivering balanced audio and DC power to the Stella-4C is with the Stella-188 external power supply. The single-space 19-inch rack unit receives eight channels of

balanced audio from its 25-pin D-sub connector and routes the audio, along with 18 V of DC power, to its 5-pin Phoenix output connectors for greater wiring convenience. Each of the eight channel outputs can deliver DC power to a single Stella-4C loudspeaker at cable lengths of up to 300 feet with just 1 dB of loss in peak SPL, using 18 AWG wire, or to up two Stella-4 loudspeakers with limited cable runs of 150 feet (also with 18 AWG).

The use of composite multiconductor cables (such as Belden® 1502R) allows a single cable to carry both audio and DC power from the Stella-188 to the Stella-4 loudspeakers. The Stella-4's amplifier and signal processing circuits are designed to tolerate supply voltage drops of up to 30 percent, thereby accommodating light-gauge cables and long cable runs. Internal energy storage circuits minimize the system's peak-to-average current demands, ensuring efficient use of the Stella-188's 18 V DC output.

PRELIMINARY SPECIFICATIONS

Operating Frequency Range	100 Hz – 22 kHz
Frequency Response, Free Field	115 Hz – 20 kHz ± 4 dB
Maximum Peak SPL	108 dB (free field, measured with music and referred to 1 meter)
Phase Response	250 Hz – 18 kHz $\pm 30^\circ$
Coverage	60° (3 kHz – 13 kHz $\pm 10^\circ$); 120° (below 2 kHz)
Transducer	One 4" cone driver
Voltage Requirement	12–18 V DC
Audio/Power Connector	Single 5-pin Phoenix (3 pins for audio, 2 pins for DC power)
Input Impedance	20 k Ω balanced internal isolation (Iso-Input) transformer
Nominal Input Sensitivity	+6 dBV (2.0 V rms, 2.8 V peak) continuous average is typically the onset of limiting for noise and music
Input Level	Audio source must be capable of producing +15 dBV (5.6 V rms, 8.0 V peak) into 600 Ω to produce maximum peak SPL over the operating bandwidth of the loudspeaker
Current Draw	1.5 A average; 3.3 A peak
Noise Floor	<20 dB A weighted
Dimensions	11.75" (front) x 4.00" (depth without grille) 298.42 mm (front) x 101.60 mm (depth without grille)
Weight	6.0 lbs (2.72 kg) without backbox

Stella-188 external power supply required



N775

Stella-4C — 04.161.004.03 B

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