

Cinema Loudspeaker System

SC-324

Features

- 4-way selectable, tri or quadamplified screen channel system
- Unique HF/VHF diaphragm has less mass than traditional diaphragms resulting in exceptional dynamic range, extended high-frequency response and lower distortion
- LF-3215 is constructed of MDF and features single woofer chambers
- Low-distortion waveguides provide highly articulate dialogue
- Shallow depth (20") facilitates installation
- THX[™] approved for professional cinema applications



Developed specifically for the unique requirements of professional motion picture playback, the SC-324 extends QSC's commitment to the cinema market. As a member of the DCS Digital Cinema Speaker Series, the SC-324 is a 4-way, selectable tri or quad-amplified screen channel loudspeaker system comprised of two main units — the MHV-1090 mid-high-very high-frequency system and the LF-3215 low-frequency system.

The MHV-1090 mid-high-very high system features a high output, horn loaded 10" midrange cone driver and a coaxial neodymium high-frequency/very high-frequency compression driver. The MHV-1090 includes a driver protection network and a passive crossover for tri-amp operation. The protection circuitry prevents low-frequency signals from damaging the high-frequency and very high-frequency driver. A high power 10" cone driver allows operation as low as 250 Hz and the advanced phase plug coupling permits a crossover point of up to 1800 Hz to the high-frequency horn. This ensures that most of the dialog range is reproduced by a single element, for unmatched intelligibility.

The coaxial neodymium high-frequency/very high-frequency compression driver provides a dramatic improvement in dynamic response, clarity and transparency. The annular high-frequency diaphragm covers the frequency range between 1800 and 7000 Hz with a smooth, linear response. The large diaphragm excursion of +/-0.8 mm results in high output and increased power handling. The very high-frequency driver covers the frequency range from 7000 to 22,000 Hz and eliminates the dome break up of conventional drivers that can cause resonance and harsh, metallic sound.

The LF-3215 dual 15" (381 mm) lowfrequency enclosure is designed specifically to address the extended low-frequency response required for cinema applications. The LF-3215 covers the frequency range from 35 Hz to 250 Hz. Close Coupled Woofers (CCW), with their tight spacing between woofers, improves coupling and keeps coverage angles wide over a greater frequency range than more widely spaced designs.

The SC-324 is designed for ease of installation. The MHV-1090 components come pre-assembled to reduce field assembly time. Three bolts are all that are required to secure the MHV-1090 to the top of the LF-3215 enclosure.

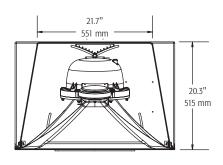


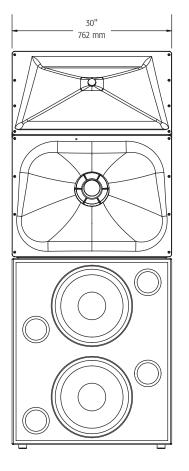
Specifications SC-324 Nominal Coverage 90° horizontal x +20 to -30° vertical Frequency Range 33 Hz - 16 kHz (-6 dB) Crossover Frequency 250, 1700 and 6000 Hz, 24 dB per octave LF-3215 **MHV-1090** MF: 8Ω HF: 8Ω VHF: 8Ω Impedance 4Ω Sensitivity 1 watt/1 meter, half space 98.5 dB Tri-amp Quad-amp MF:105 dB MF 105 dB HF/VHF: 110 dB HF/VHF: 110 dB VHF: 110 dB Maximum Input Power¹ 8 hours of 6 dB crest factor IEC 268 MF: 275 W RMS MF: 275 W RMS 600 W RMS noise spectrum HF/VHF: 230 W RMS HF 150 W RMS VHF: 80 W RMS 2 hours of 6 dB crest factor pink noise, 800 W RMS MF: 800 W RMS 50 Hz - 20 kHz, AES method HF/VHF: 500 W RMS maximum Recommended Amplifier Power 1200 W RMS maximum MF: 800 W RMS HF: 500 W RMS VHF: 300 W RMS maximum Recommended Processing Subsonic filter below 30 Hz, > 18 dB per octave 4th order LR crossover at 250, 1700, and 6000 Hz via QSC processor Connectors Barrier strip screw terminals accept up to #10 AWG stranded wire Transducers Two 15" (381mm) high efficiency, extended bass woofers featuring 3" MF: 10" high-efficiency, hornloaded cone with phase plug copper voice coils HF/VHF: coaxial neodymium compression driver with 3.5" (90 mm) HF diaphragm and 1.75" (44 mm) VHF diaphragm Enclosure Quasi B4 alignment, ported enclosure with fully flared ports, symmetrical Tilt/Pan Bracket ±10°vertical tilt port design, tuned to 36 Hz, constructed of MDF and heavily braced. Features vandal resistant woofer mounting bolts ±10° horizontal pan 36" x 30" x 20.3" (910 mm x 762 mm x 516 mm) Dimensions (HWD) 39" x 30" x 20" (990 mm x 762 mm x 508 mm) Weight - Net 172 lb (78 kg) 85 lb (18.4 kg) System Weight 256 lb (116 kg) Baffle Cut-Out 76" x 32"

1) Maximum input power tested in accordance with IEC 60268-5 recommendations, 50 Hz – 20 kHz band limiting, 6 dB signal crest factor.

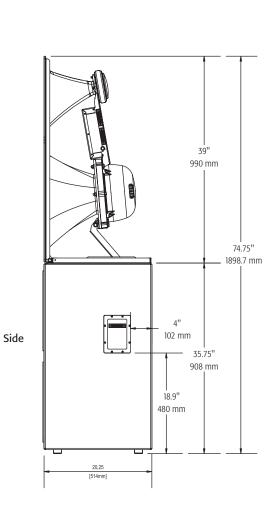


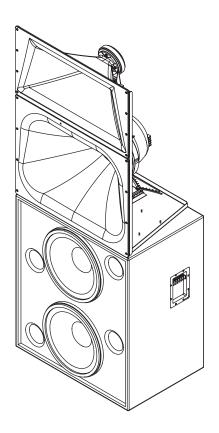
Тор





Front





Specifications subject to change without notice.





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