



## Cinema Loudspeaker System

### SC-444

#### Features

- 4-way selectable, tri or quad-amplified 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-4215 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-444 extends QSC's commitment to the cinema market. As a member of the DCS Digital Cinema Speaker Series, the SC-444 is a 4-way, selectable tri or quad-amplified screen channel loudspeaker system comprised of three main units – the MHV-1090 high-frequency system and dual LF-4215 low-frequency systems.

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-4215 dual 15" (381 mm) low-frequency enclosures are designed specifically to address the extended low-frequency response required for cinema applications. The dual LF-4215s cover 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-444 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-4215 enclosure.

# SC-444 Details

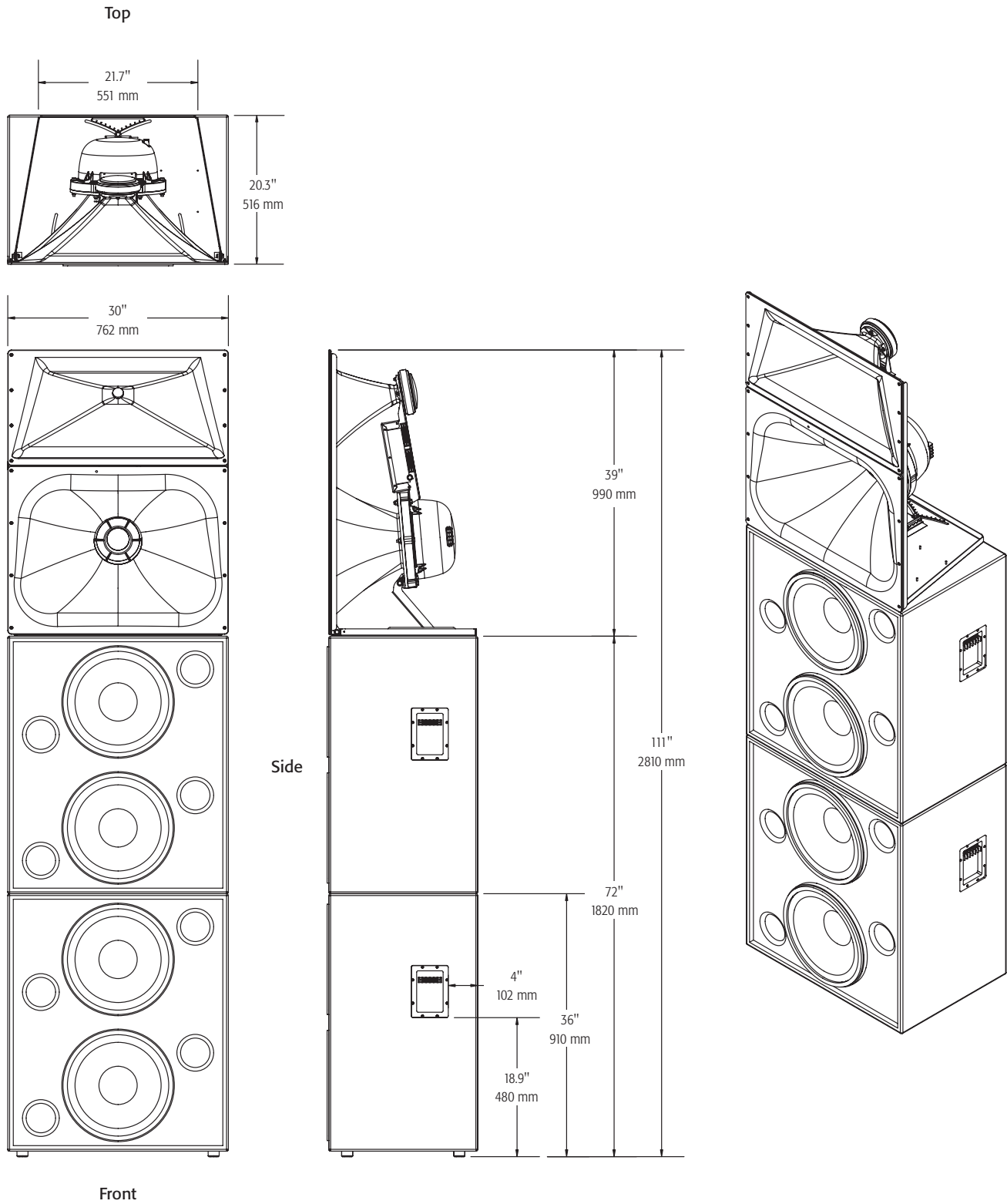
## Specifications

## SC-444

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		
	<b>(2) LF-4215</b>	<b>MHV-1090</b>	
Impedance	4Ω each	MF: 8Ω HF: 8Ω VHF: 8Ω	
Sensitivity 1 watt/1 meter, half space	102.5 dB	Tri-amp MF: 105 dB HF/VHF: 110dB	Quad-amp MF 105 dB HF/VHF: 110dB VHF: 110dB
Maximum Input Power <sup>1</sup>			
8 hours of 6 dB crest factor IEC 268 noise spectrum	800 W RMS	MF: 275 W RMS HF/VHF: 230 W RMS	MF: 275 W RMS HF 150 W RMS VHF: 80 W RMS
2 hours of 6 dB crest factor pink noise, 50 Hz – 20 kHz, AES method	1000 W RMS	MF: 800 W RMS HF/VHF: 500 W RMS maximum	
Recommended Amplifier Power	1600 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	Four 15" (381mm) high efficiency, extended bass woofers featuring 4" copper voice coils	MF: 10" high-efficiency, horn-loaded cone with phase plug 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 port design, tuned to 36 Hz, constructed of MDF and heavily braced. Features vandal resistant woofer mounting bolts	Tilt/Pan Bracket ±10° vertical tilt ±10° horizontal pan	
Dimensions (HWD)	72" x 30" x 20.3" (1820 mm x 762 mm x 516 mm)	39" x 30" x 20" (990 mm x 762 mm x 508 mm)	
Weight – Net	344 lb (156 kg)	84 lb (38.5 kg)	
System Weight	428 lb (193.5 kg)		
Baffle Cut-Out	111.6" x 32"		

1) Maximum input power tested in accordance with IEC 268-5 recommendations, 50 Hz – 20 kHz band limiting, 6 dB signal crest factor.

# SC-444 Technical Drawing



Specifications subject to change without notice.

**QSC**<sup>™</sup>

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