



Full Range Loudspeaker Point Source, Single 12" Coaxial, 2.5" HF 2-way, Passive, Optional Biamplified

Key Features:

Multiple Horn Coverage Patterns Rotatable Horns, in 45° increments Multiple Mounting Points Multiple installation bracket options Highly compact vs output

Applications:

Schools»AuditoriumsHouses of Worship»TheatersTheme ParksNight ClubsTransportation Facilities

The C12 is a coxial loudspeaker system designed to deliver output levels comparable to the highest output conventional premium 2-way systems, with superior pattern control, directional consistency and a precise transient response that only a coxial loudspeaker can provide.

The C12 features an advanced high frequency waveguide that also acts as a phasing plug for the 12" cone loudspeaker. The horn is quite large for its size, yielding consistent pattern control and a low corssover point. The phasing plug improves the response of the cone loudspeaker minimizing the equalization and phase correction needed, thus aiding the transition between sources over the crossover band.

The C12 features a 40° trapezoidal angle to allow close mountings to walls or ceilings, with little to no impact on sightlines. Its tailorable pattern control, easy mounting and array ability with RMS Acoustics array brackets allow a simple, cost effective method to tailor a sound reinforcement solution to achieve the best possible acoustical results in almost any space.

Optimized nonlinear venting improves the low frequency impedance compared to conventional enclosures, while maintaining better mechanical cone control when low frequency extension is required. The result is tight, punchy bass that also goes deep.

The optimum processed loudspeaker solution for the RMS-Acoustics C12 is the Linea Research 44M06 series and 44C06 series amplifiers, with propriety presets provided by RMS-Acoustics. All other Linea Research M series and C series amplifiers can also be used.



System Specifications:

SYSTEM:		
Frequency Range (-10dB) ^1	50 Hz - 20 kHz	
Frequency Response (+/-3dB)	63 Hz - 18 kHz	
System Sensitivity (1w, 1m)^2	98dB	Measured on LF band, average SPL over 300 to 1 kHz region. HF Sensitivity significantly higher
Maximum SPL Continuous (1m)	125dB	
Maximum SPL Peak (1m)	131dB	
Long Term Power Rating (IEC)^3	; LF HF	250W, 500W, 1000W (Continuous, Pgm, Peak) 120W, 240W, 460W (Continuous, Pgm, Peak)
Long Term Power Rating (AES)^4	; LF HF	600W (2400W Peak), 2 hrs, 400W 100Hr 100W (400W Peak), 2 hrs, 70W 100Hr
Nominal Coverage Pattern		70° Horizontal x 50° Vertical (Standard), 90° Horizontal x 55° Vertical (Stan- dard), 120° Horizontal x 60° Vertical (Wide) -6dB Isophase
System Crossover		1200 Hz Proprietary FIR overlay
Transducer	SPKR-12-0006	LF Driver - 12" Neodymium cone loudspeaker with 2.5" voice coil, shorting ring and high performance convective cooling technology
	SPKREP-1-0006	HF Driver Replacement - 1.4" exit Neodymium compression driver with 3"
	Passive / LF / HF	Impedance - 8 Ohm, 8 Ohm, 8 Ohm
PHYSICAL:		
Input Connectors		Dual Neutrik NL4MP Connectors
Enclosure Materials		15 and 18mm Birch Hardwood Ply 1.3mm layers
Grille Materials		Cold Rolled steel, Epoxy powder coat, Acoustically transparent black foam backing
Finishes		Black finish (Standard) Polurethane textured spray
		Additional Finishes available - See Options Below
Suspension and Mounting		Proprietary internal, captive rigging
Dimensions		13.5" w x 22" d x 11.7" h (343 mm x 559 mm x 298 mm)
Weight		45 Lbs (20.5 kg) Net
Ordering Options		C12, -B (Biamplified, no crossover)
Finish Options		-X (Weatherized), -W (White), -C (RAL Custom Color) Upcharge applies
Optional Accessories & Rigging Hardware	C12-HU	Horizontal U Bracket specific to C12
	WM-L	RMS-Acoustics wall mount large with lateral orientation and vertical tilt
	WM-M	RMS-Acoustics wall mount medium with lateral orientation and vertical tilt
	C12-AF	Two box array frame for C12/C12XL

2. Measured Maximum SPL, based on power compression observation of 3dB

3. IEC Shaped pink noise with 6dB Crest Factor

4. AES Standard AES2-2012, one decade pink noise with 6dB Crest factor within device's applicable operating band, free air. Standard AES 2 hr rating are specific for low frequency transducers.