

Key Features:

- Multiple Horn Coverage Patterns
- Rotatable Horns, in 45° increments
- Highly versatile for live performance use
- Multiple installation bracket options
- Highly compact vs output
- Single amplification channel with advanced passive network
- Dual pole mount for versatile deployment

Applications:

- » Live Sound Monitoring
- » Theaters
- » Transportation Facilities
- » Theme Parks
- » Auditoriums
- » Night Clubs
- » Houses of Worship
- » Schools

The M12X is a coaxial stage monitor 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 coaxial loudspeaker can provide.

The M12X has an advanced high frequency wave-guide 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 cross-over 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 M12X features a 35° foldback angle for monitoring applications, with a clean, low profile yielding little to no impact on sightlines. Its tailorable pattern control, easy mounting and array ability with RMS-Acoustics array brackets allow a simple, versatile, and 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 enclosure is crafted from premium multi-ply birch with a finely textured polyurethane finish that is impact and UV resistant. A powder-coated, punched and laser cut steel grille protects the cabinet internal from the elements. Full weather protection and custom color finishes are also available. The weatherized option provides an IP54 rating.

The optimum processed amplifier solutions for the M12X are the Linea Research 44M10 and 44C10 series amplifiers, with proprietary presets provided by RMS-Acoustics. All other Linea Research M series and C series amplifiers can also be used.



System Specifications:

Frequency Range (-10dB) ^1	50 Hz - 20 kHz	
Frequency Response (+/-3dB)	65 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)	126dB	
Maximum SPL Peak (1m)	132dB	Measureable, useable, third party verifiable, realistic peak output
Long Term Power Rating (IEC)^3	FR	570W, 1100W, 2200W (Continuous, Program, Peak)
Long Term Power Rating (AES)^4	FR	1100W (4400W Peak), 2 hrs, 550W 100Hr
Nominal Coverage Pattern		70° Horizontal x 50° Vertical (FOCUS), 90° Horizontal x 55° Vertical (SIDE) -6dB Isophase
System Crossover		1000 Hz analog passive with Proprietary FIR overlay
Transducers	SPKR-12-0008	LF Driver 12" Neodymium cone loudspeaker with 2.5" voice coil, shorting ring and high performance convective cooling technology
	SPKRREP-1-0008	HF Driver Replacement diaphragm for Neodymium compression driver with 3" voice coil, shorting ring, and advanced phase plug geometry
	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) Polyurethane textured spray Additional Finishes available - See Options Below
Suspension and Mounting		Proprietary internal, captive rigging
Dimensions		20" w x 18.15" d x 13.5" h (508 mm x 462 mm x 343 mm)
Weight		38 Lbs (17.3 kg) Net
Finish Options		-X (Weatherized), -W (White), -C (Custom Color) Upcharge applies
Optional Accessories	M12X-HU	Horizontal U bracket for permanent installation
	WM-M	Medium wall mount with lateral orientation and vertical tilt

Free field, semi anechoic conditions. To compare with half space measurements, add 6dB to maximum output specifications.

1. Full Space, 4pi conditions

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.