RMS ACOUSTICS

Model

M15X

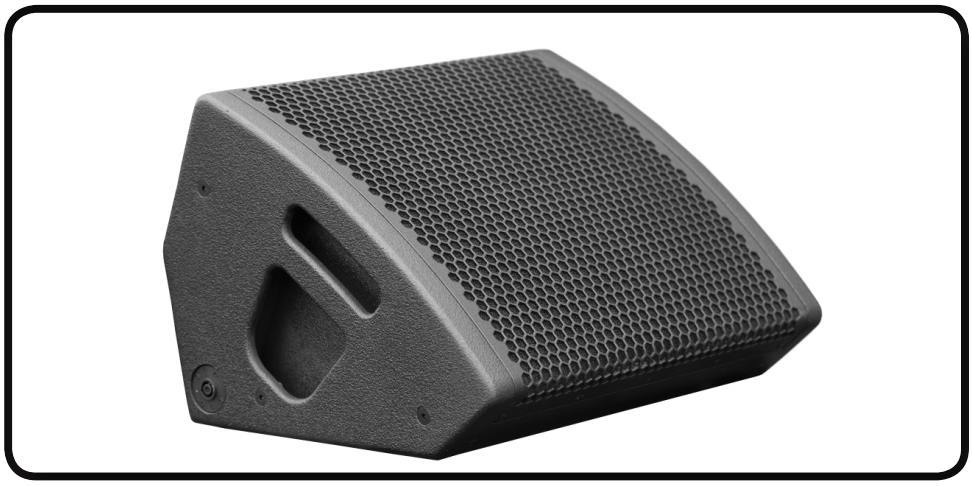
Full Range Loudspeaker
Stage Monitor, Multi Use
2-way, Biamplified

Key Features:

» Compact, highly versatile enclosure
» Incredible fidelity, Impressive output for size
» 70° x 50° confocal elliptic rotatable pattern
» 2-way Biamplified enclosure
» Curved laminar vents for maximum LF ext
» LF extension with M118 or M218

Applications:

» High output sound reinforcement
» High output stage monitoring
» Stage fill, side fill, and outfill applications
» Church sound systems
» Club sound systems



The M15X is a 2-way high performance stage monitor employing an integrated 15” LF and 1.5” exit horn loaded HF coaxial driver design that utilizes a central neodymium magnet.
The precise 50 X 70 (h x v) constant directivity horn delivers and accurate, consistent coverage area, whether on stage, or when deployed for mains PA applications. The M15X horn feautures the proprietary RMS-Acoustics confocal elliptic waveguides, made with cutting edge additive manufacturing technology.
When the M15X is used upright for mains PA applications, the horn will be in the 70 X 50 orientation, highly applicable to a wide variety of sound reinforcement applications.
The M15X enclosure is constructed from birch hardwood plywood, features integrated side handles, an impact and UV resistant polyurethane paint finish, 3/8-16 inserts and a 35mm socket to accept loudspeaker stands. The front of the loudspeaker cabinet is protected by a punched and laser cut steel grill backed with an acoustically transparent foam. Rubber feet recessed in the bottom panel protect the cabinet from scratching and prevent movement on stage.
The optimum processed loudspeaker solution for the RMS-Acoustics 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	45 Hz - 20 kHz	
Frequency Response (+/-3dB)	60Hz - 18 kHz	
System Sensitivity (1w, 1m)^2	98dB	Measured on LF band, average SPL over 300 to 1 kHz region. HF Sensitivity 108dB
Maximum SPL Continuous (1m)	129dB	6dB crest factor pink noise (with 12dB crest factor noise, specs are 6dB higher)
Maximum SPL Peak (1m)	135dB	
Long Term Power Rating (IEC)^3	LF	900W, 1600W, 3200W (Continuous, Program, Peak)
	HF	220W, 400W, 800W (Continuous, Program, Peak)
Long Term Power Rating (AES)^4	LF	1200W (4500W Peak), 2 hrs, 900W 100Hr
	HF	130W (500W Peak), 2 hrs, 90W 100Hr
Nominal Coverage Pattern		70° Horizontal x 50° Vertical (Standard) -6dB Isophase
System Crossover		950 Hz with Traditional IIR, Proprietary, though around similar region FIR
Transducer	SPKR-15-0002	LF Driver 15” Neodymium cond loudspeaker with 4” voice coil, shorting ring and high performance convective cooling technology
	SPKRREP-1-0003	HF Diaphragm 1.4” exit Neodymium compression driver diaphragm with 4” voice coil
PHYSICAL:		
Input Connectors		Dual Neutrik NL4MP Connectors, 2 additional NL4MPR Connectors, one on each side
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 12 3/8-16 Threaded eye bolts
Rigging Hardware	xx	
	xx	
Dimensions		22.7” w x 18.6” d x 14.4” h (576 mm x 473 mm x 366 mm)
Weight		50 Lbs (22.7 kg) Net
Ordering Options		M15X, M15Xi (Install version)
Finish Options		-X (Weatherized), -W (White), -C (Custom Color) Upcharge applies
Optional Accessories	SAF1	Side by side flown array system with center spine
	M15X-HU	Horizontal U bracket for permanent installation

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.

RMS Acoustics
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