RMS ACOUSTICS

Model

LA28

Full Range
Dual 8” Linear Array
2-way, Biamplified

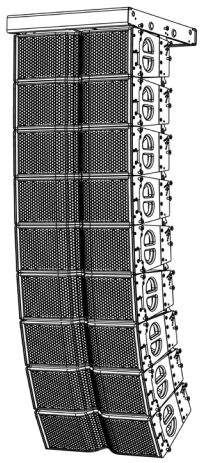
Key Features:

» Compact, highly versatile enclosure
» Incredible fidelity, Impressive output for size
» 90 x 10, 130 x 10 (Wide)
» 2-way Biamplified enclosure
» Curved laminar vents for maximum LF extension
» LF extension with M118 or M218

Applications:

» Main PA Sound reinforcement
» Tour Sound
» House of Worship sound systems
» Club sound systems
» High output monitoring
» Front fill sound reinforcement

The LA28 is a 2-way high performance linear array loudspeaker system employing 2 8” LF and a 1.4” exit HF connected to an acoustic boundary element optimized waveguide.
The precise 90 X 10 (h x v) constant directivity horn delivers and accurate, consistent coverage area when deployed for mains PA applications. The LA28 horn feautures the proprietary RMS-Acoustics confocal elliptic waveguides, made with cutting edge additive manufacturing technology.
The LA28 enclosure is constructed from birch hardwood ply, features integrated side handles, an impact and UV resistant polyurethane paint finish, and high resolution integrated interconnect rigging. The front of the loudspeaker cabinet is protected by a hexagonal punched and laser cut steel grill, backed with an acoustically transparent foam.
The optimum processed loudspeaker solution for the RMS-Acoustics LA28 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.



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System Specifications

SYSTEM:		
Frequency Range (-10dB) ^1	55 Hz - 20 kHz	
Frequency Response (+/-3dB)	70 Hz - 18 kHz	
System Sensitivity (1w, 1m)^2	103dB	Measured on LF band, average SPL over 300 to 1 kHz region. HF Sensitivity significantly higher
Maximum SPL Continuous (1m)	127dB	
Maximum SPL Peak (1m)	133dB	
Long Term Power Rating (IEC)^3	LF HF	600W, 1200W, 2400W (Continuous, Pgm, Peak) 220W, 400W, 800W (Continuous, Pgm, Peak)
Long Term Power Rating (AES)^4	LF HF	700W (2800W Peak), 2 hrs, 500W 100Hr 110W (400W Peak), 2 hrs, 70W 100Hr
Nominal Coverage Pattern		90° Horizontal x 10° Vertical (Standard) 130° Horizontal x 10° Vertical (Wide) -6dB Isophase
System Crossover		950 Hz with Traditional IIR, Proprietary, though around similar region FIR
TRANSDUCER SPECIFICATIONS:		
Low Frequency Driver	SPKR-8-0007	8” Neodymium cone loudspeaker with 2.5” voice coil, shorting ring and high performance convective cooling technology
High Frequency Driver	SPKR-1.4-0001	1.4” exit Neodymium compression driver with 3” voice coil, shorting ring, and advanced phase plug geometry
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
Rigging Hardware	LA28RF1	Required Large format Rigging Frame
	LA28RF2	Optional small format compact Rigging Frame, can sustemd a maximum of 8x LA28 or LA28WIDE - NOT DESIGNED FOR USE WITH M118
	LA28RF-EX	LA28RF1 Extension arm, facilitates high uptilt, downtilt, wide spaced rigging points
	LA28-UMOUNT	Ceiling Umount for LA28, hang up to 5x LA28 or LA28WIDE
Dimensions		28.5” w x 15.5” d x 9.7” h (723.9 mm x 393.7 mm x 246.4 mm)
Weight		62 Lbs (28.2 kg) Net
Ordering Options		LA28, LA28i, LA28WIDE, LA28iWIDE (i - indicates install version)
Optional Finish Options		-X (Weatherized), -W (White), -C (RAL Custom Color) Upcharge applies
Optional Accessories	LA28-CART1	Rolling Cart - Supports up to 6x LA28, including Frame and Cable Storage
	LA28-TOPPLATE	Top Plate - Top cover and 4x Corner poles, creates flat top with load support up to 200 Lbs
	LA28COVER4	Weather Cover 4 boxes - Weahter resistant cover for 4x LA28 on Cart
	LA28COVER6	Weather Cover 6 boxes - Weather resistant cover for 6x LA28 on Cart
	NL4JUMP	Cable Jumper
	NL4-18M	18m Cable (59 ft)
	NL4-25M	25m Cable (82 ft)
	NL4-30M	30m Cable (98.4 ft)

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.

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