RMS ACOUSTICS

Model

VC10-15i

Full Range Loudspeaker
Single 10” Linear Array
2-way, Passive,
Optional Biamplified

Key Features:

» Compact installation variable curvature array system
» Integrated rigging for simple interconnect of enclosures and array frame
» Optimized internal passive crossover featuring equalization and HF protection
» Can be bi-amplified for maximum SPL

Applications:

» Educational Facilities
» Houses of Worship
» Theme Parks
» Live Music Venues
» Performing Arts Centers

The RMS-Acoustics model VC10-15i is a compact, high output, curved aperture, linear source module, purposefully designed for versatile sound reinforcement solution for permanent installations.

Part of the Variable Curvature (VC) Series of products, VC10-15i is a passive medium throw loudspeaker designed for audience application distances up to 35m. The VC10-15i can be combined with any VC10 models to form uniquely tailored vertical or horizontal line sources or deployed individually as point sources.

The VC10-15i features variable horizontal coverage between standard (90°) and NARROW (70°). This flexibility allows designers and integrators to adapt both the horizontal and vertical directivity of the overall linear source system uniquely to the audience geometry. This ensures exceptional frequency response consistency throughout the entire coverage envelope.

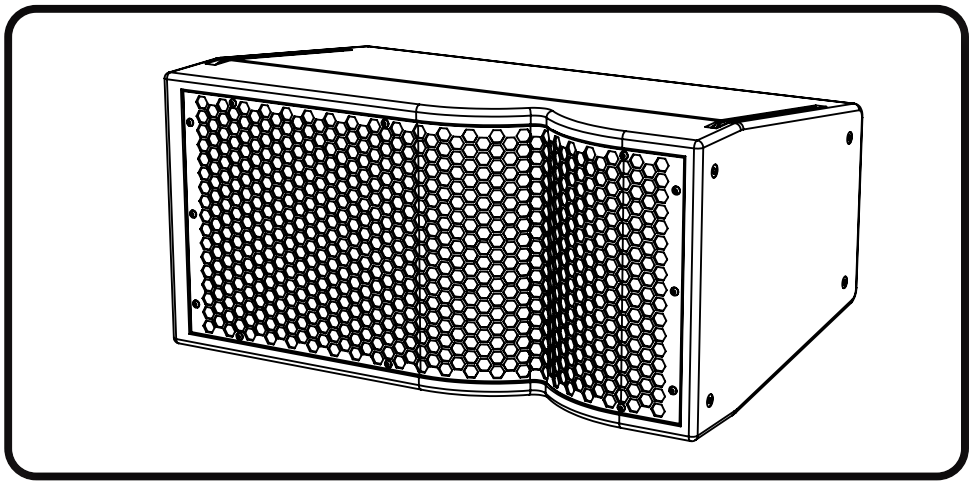
Combinations of VC10 models are designed to be flown together, forming a continuously curved vertical line source. VC10-15i is well suited for a wide variety of applications, from PA mains, to fill loudspeakers, to delay rings.

The low frequency is reinforced with the addition of the VC115Si subwoofer. This high impact, high output subwoofer is the ideal match for reinforcing the low end of VC systems and extends the system bandwidth down to 37Hz.

The VC10-15i is a 2-way high performance curved line source array loudspeaker system employing 1 10” LF loudspeaker and 1 1.4” exit HF compression driver, connected to an acoustic boundary element optimized waveguide. The horn features the proprietary RMS-Acoustics confocal elliptic waveguide, made with cutting edge additive manufacturing technology. The enclosure is constructed from birch hardwood ply, and is coated with a thick, impact and UV resistant polyurethane film. The front of the loudspeaker cabinet is protected by a hexagonal punched and laser cut steel grill, backed with an acoustically transparent foam. All rigging and structural mounting components are protected by heat cured epoxy powder coat, with additional primer layer.

The VC10 family is weatherized to achieve an IP54 rating for outdoor operations.

The optimum processed loudspeaker solution for the RMS-Acoustics VC Family are Linea Research C and M series amplifiers, with proprietary presets provided by RMS-Acoustics.



System Specifications:

SYSTEM::		
Frequency Range (-10dB) ^1	45 Hz - 20 kHz	
Frequency Response (+/-3dB)	60 Hz - 18 kHz	
System Sensitivity (1w, 1m)^2	97dB	Measured on LF band, average SPL over 300 to 1 kHz region. HF Sensitivity significantly higher
Maximum SPL Continuous (1m)	124dB	
Maximum SPL Peak (1m)	130dB	
Long Term Power Rating (IEC)^3	LF HF	250W, 500W, 1000W (Continuous, Program, Peak) 220W, 400W, 800W (Continuous, Program, Peak)
Long Term Power Rating (AES)^4	LF HF	600W (2400W Peak), 2 hrs, 400W 100Hr 110W (400W Peak), 2 hrs, 70W 100Hr
Nominal Coverage Pattern		90° Horizontal x 15° Vertical (Standard) 120° Horizontal x 15° Vertical (Wide) -6dB Isophase
System Crossover		1050 Hz with Traditional IIR, Proprietary, though around similar region FIR
Transducer	SPKR-10-0004 SPKR-1.4-0003	LF Driver - 10” Neodymium cone loudspeaker with 2.5” voice coil, shorting ring and high performance convective cooling technology HF Driver - 1.4” exit Neodymium coaxial compression driver with 3” voice coil, shorting ring, and advanced phase plug geometry
Impedance	Passive, LF, HF	8 Ohm, 8 Ohm, 8 Ohm
PHYSICAL:		
Input Connectors		Dual Neutrik NL4MP Connectors
Enclosure Materials		12 and 15mm 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
Flown Array Maximum		10x VC10-15i, VC10-30i. Number decreases by formula with VCSUB inclusion at top of array. Maximum Array weight 1000 Lb (454 kg)
Rigging Hardware	VCRF1	Required Large Format Rigging Frame
	VCRF-EX	VCRF1 Extension arm, facilitates high uptilt, downtilt, wide spaced rigging points
	VC-UMOUNT	Ceiling U Mount for VC Cabs, hang up to 3 VCxx or VCxxWIDE
Dimensions		24.4” w x 15.5” d x 11.7” h (620 mm x 394 mm x 297 mm)
Weight		70 Lbs (31.8 kg) Net
Finish Options		-X (Weatherized), -W (White), -C (Custom Color) Upcharge applies
Optional Accessories		

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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November 2019 Rev1B