

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:

- » Theater
- » House of Worship
- » Educational Facilities
- » Live Music Spaces
- » Sporting Venues

The VC10-30i is a compact, high output, curved aperture, linear source module, with simple, robust, and versatile integrated rigging, purposefully designed versatile sound reinforcement solution for permanent installations.

Part of the Variable Curvature (VC) Series of products, VC10-30i is a passive short to medium throw product designed for audience application distances up to 20 m. The VC10-30i can be combined any VC10 models to form uniquely tailored continuously curved vertical or horizontal line sources or deployed individually as point sources.

Arrays can adapt to virtually any audience geometry through the employ of two vertical enclosure coverage patterns (15° or 30°), and three horizontal coverage patterns (70°, 90° or 120°), and a range of accessories for vertical or horizontal array deployment.

The VC10-30i features variable horizontal coverage between standard (90°) and wide (120°) ensuring exceptional frequency response consistency throughout the entire coverage envelope.

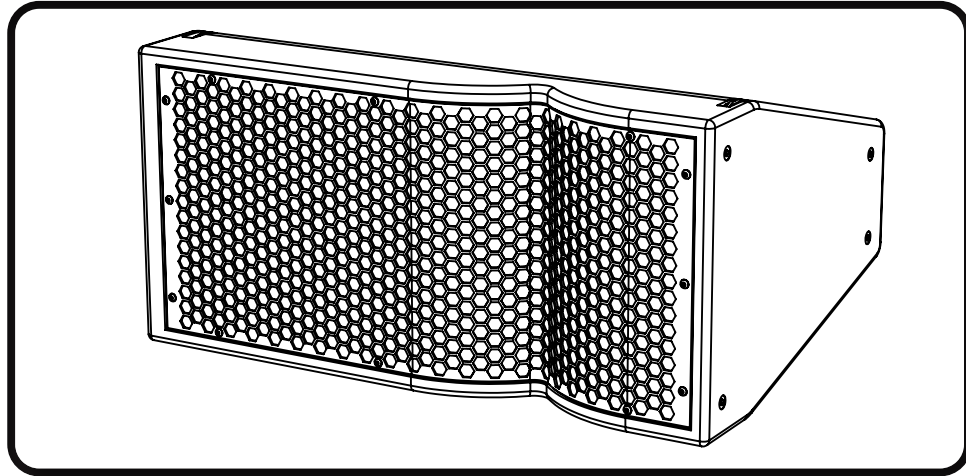
VC10-30i can also be used as a point source installation loudspeaker in either standard, or wide configurations, and is well suited for a wide variety of applications, from PA mains, to fill loudspeakers, to delay rings.

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 and extends the system bandwidth down to 37Hz.

The VC10-30i is a 2-way high performance curved line source array 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 confocal elliptic waveguide. The enclosure is constructed from birch hardwood ply, and is coated with a thick, impact and UV resistant polyurethane film. The front of the 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 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)	123dB	
Maximum SPL Peak (1m)	129dB	
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 30° Vertical (Standard) 120° Horizontal x 30° 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 or VC10-30i. Number decreases by formula with VCSUB inclusion at top of array. Maximum Array weight 1000 Lb (454 kg)	
Rigging Hardware	VCRF1 VCRF-EX VC-UMOUNT	Required Large Format Rigging Frame VCRF1 Extension arm, facilitates high uptilt, downtilt, wide spaced rigging points 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.