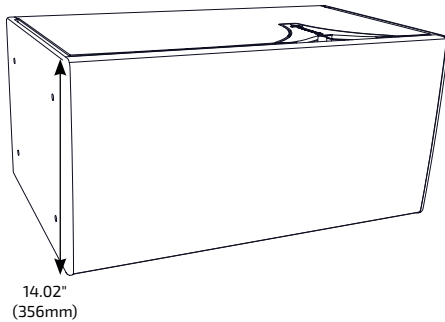


IV6-1122WR05

12-INCH 2-WAY WEATHER-RESISTANT
120° x 5° LOUDSPEAKER



DESCRIPTION

I SERIES Modular Vertical Array 600 is a scalable, adaptive sound reinforcement system featuring multiple vertically arrayable elements designed to be used in combination or separately, and with or without splay between cabinets, providing an extensive range of vertical coverage angle and throw distance configurations. Two carefully chosen array elements, 120° x 5° and 120° x 15°, overcome the physical limitations and acoustical tuning difficulties of conventional line arrays and constant-curvature (point source) arrays while maintaining the best qualities of each.

Two complementary, discreet coverage angles permit the creation of true line array configurations for longer throws, gently curving progressive curvature arrays for medium size applications and compact constant-curvature arrays where near-field point source coverage is required. Constraining the splay angle between any adjacent element to 0°, 2.5° or 5° eliminates excessive coverage overlap as well as gaps in coverage between adjacent elements that occur when typical line array elements are deployed in their straightest or most curved configurations. The splay brackets also provide adequate adjustment between IV6 elements to adapt the vertical coverage angle of an array to fit the needs of any application.

After resolving physical array configuration needs, typical vertical arrays still suffer from level and frequency response imbalances between the nearest and furthest listeners. Multi-channel DSP-based solutions are available to help correct these issues, but are typically complicated and expensive. Instead, the IV6 has a built-in passive system to resolve the issue that requires no additional amplifier or DSP channels, called Passive Acoustic Optimization (PAO).

PAO provides up to 19dB of frequency-selective attenuation in 1.5dB steps within each element, allowing passive correction of the level and response throughout an array's vertical coverage plane. In addition to the standard array aiming features found in EASE® Focus 3 Software, a Community exclusive Passive Acoustic Optimization module quickly calculates the ideal attenuation settings for each element in the array to achieve uniform SPL and frequency response throughout each listening area.

FEATURES

- Versatile configurations for both constant curve and line array applications
- Built-in Passive Acoustic Optimization settings allow array response shaping using one amplifier channel
- Elegant acoustics designed for permanent installations
- Exclusive Acoustic Optimization and Rigging Safety Check modules integrated into EASE® Focus 3
- Outdoor (weather-resistant) model

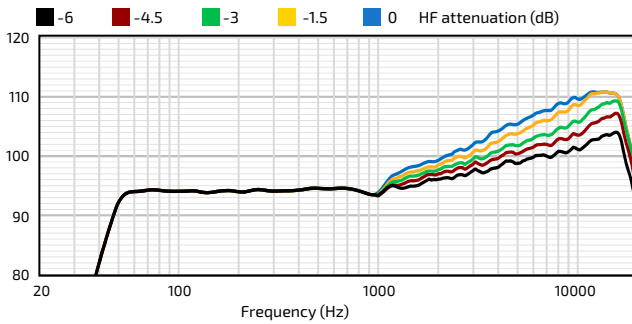
TECHNICAL SPECIFICATIONS¹

Operating Mode	Passive with Integrated Passive Acoustic Optimization					
Passive Array Optimization Settings	Element Attenuation: 15 dB range (in 1.5 dB steps) HF Attenuation: 6 dB range (in 1.5 dB steps)					
Operating Environment	Weather-Resistant Outdoor					
Operating Range²	40 Hz to 18.5 kHz					
Nominal Beamwidth	Horizontal: 120° Vertical: Array dependent, 5° maximum splay					
Transducers	LF: 1 x 12" (305mm) ferrite driver, 3" (76mm) voice coil, inherently weather-resistant cone HF: 2 x 1.7" (43mm) voice coil, 1" (25mm) exit, ketone polymer diaphragm, neodymium compression drivers					
Continuous Power Handling³ @ Nominal Impedance	80V, 400W @ 16 ohms (1600W peak)					
Recommended Amplifiers	400W - 800W @ 16 ohms, (80V - 113V) equivalent to 1600W - 3200W @ 4 ohms					
	Number of 5° elements (in continuous array)					
	1	4	6	8	12	16
Nominal Sensitivity (1W/1m)	102 dB	107 dB	108 dB	110 dB	113 dB	115 dB
Nominal Maximum SPL⁵ Peak (Continuous)	134 dB (128 dB)	145 dB (139 dB)	148 dB (142 dB)	151 dB (145 dB)	156 dB (150 dB)	159 dB (153 dB)
Equalized Sensitivity⁶ (1W/1m)	102 dB	107 dB	108 dB	110 dB	113 dB	115 dB
Equalized Maximum SPL⁷ Peak (Continuous)	134 dB (128 dB)	145 dB (139 dB)	148 dB (142 dB)	151 dB (145 dB)	156 dB (150 dB)	159 dB (153 dB)
PHYSICAL						
Input Connection	(1) Screw terminal block (2x 2-position), (2) NL4 Connectors					
Mounting Points	(8) M10 threaded rigging points (4 per side)					
Environmental	Outdoor: IP55W per IEC 60529, designed in accordance with MIL-STD-810G; Two (2) IP68-rated gland nuts included with Input panel cover accept cable diameters of 0.2-0.39" (5-10mm)					
Weight	62.0 lbs (28.1 kg) loudspeaker and 1 pair of splay brackets					
Dimensions (H x W x D)	14.02" x 28.84" x 16.59" (356 x 733 x 421 mm)					
Finish	Refer to the Technical Drawing					
Required Accessories	EASE® Focus 3 Software: Acoustic optimization - array configuration Free - go to "DOWNLOADS" tab here: http://www.communitypro.com/products/i-series/IV6-1122 IV6-S1/S2/S3: IV6 Splay Bracket Pairs (Type 1, 2, or 3) One pair must be ordered for each element-to-element connection					
OPTIONS						
Accessories	Contact Community for Rigging information Additional rigging/mounting options are available from PolarFocus					
Configure-to-Order (CTO)	Custom color					

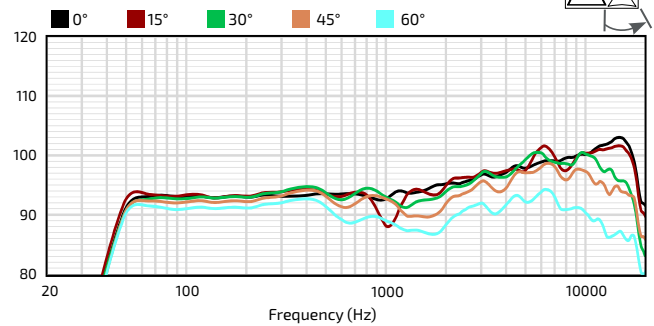
IV6-1122WR05 12-INCH 2-WAY WEATHER-RESISTANT
120° x 5° LOUDSPEAKER



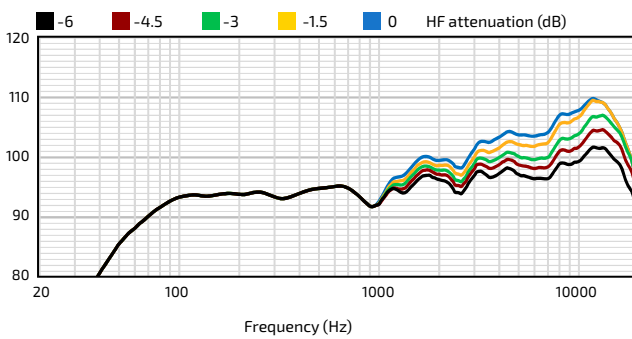
AXIAL PROCESSED RESPONSE (dB)⁸



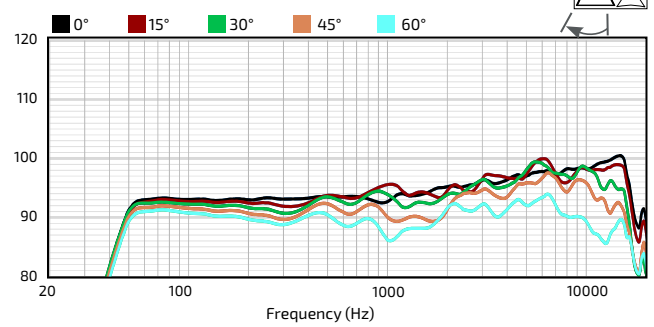
HORIZONTAL OFF-AXIS LEFT RESPONSE (dB)¹⁰



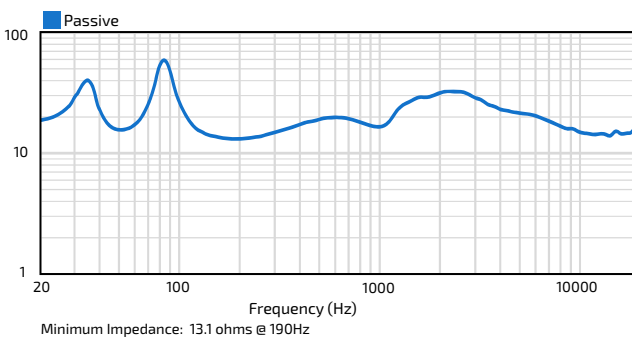
AXIAL SENSITIVITY (dB SPL)⁹



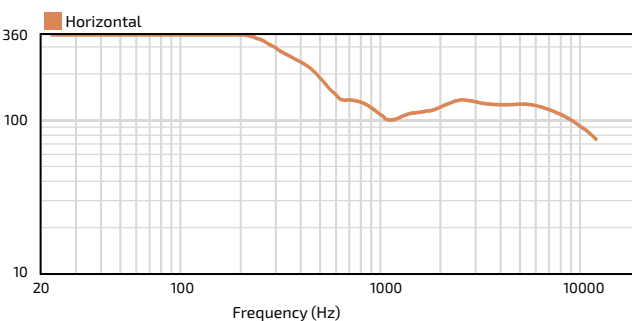
HORIZONTAL OFF-AXIS RIGHT RESPONSE (dB)¹⁰



IMPEDANCE (Ohms)



BEAMWIDTH (Degrees)¹²



ORDERING DATA

Loudspeaker Elements

Part Number	Description
IV6-1122WR05	120° x 5° weather-resistant grey
IV6-1122WR05B	120° x 5° weather-resistant black
IV6-1122WR05W	120° x 5° weather-resistant white

Splay Brackets (required)

Important Note: One pair must be ordered for each element-to-element connection. Order type based upon PAO modeling report from EASE® Focus 3.

Part Number	Description
IV6-S1	Splay bracket 1 [= maximum splay] black
IV6-S2	Splay bracket 2 [= max. splay minus 2.5°] black
IV6-S2W	Splay bracket 2 [= max. splay minus 2.5°] white
IV6-S3	Splay bracket 3 [= max. splay minus 5°] black
IV6-S3W	Splay bracket 3 [= max. splay minus 5°] white

Rigging / Mounting Accessory

Contact Community for information regarding mounting options for WR (outdoor) IV6 loudspeakers.

Important Note: The IV6-WR loudspeakers differ in width and mounting points and will NOT fit the IV6 indoor array frames.

Custom rigging is available from Polar Focus.