IV6-1122/15

12-INCH 2-WAY
120° x 15° LOUDSPEAKER

Community®

13.99"
(355mm)

FEATURES

- Modular, can be combined to make arrays of up to twenty elements @ 10:1 safety ratio
- 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
- Indoor and Outdoor (weather-resistant) models available
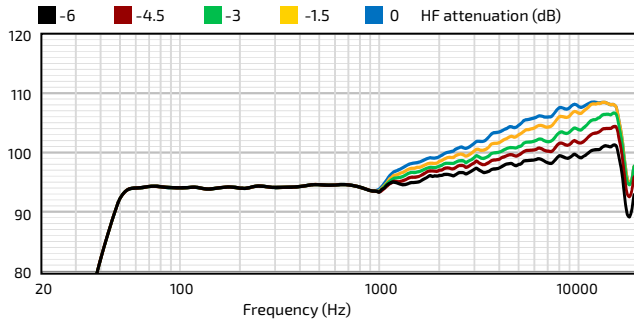
DESCRIPTION

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 VenuePolar™ module quickly calculates the number and type of cabinets, their splay, and ideal attenuation settings for each element to achieve uniform SPL and frequency response throughout each listening area.

TECHNICAL SPECIFICATIONS[1]

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	Indoor or Weather-Resistant Outdoor				
Operating Range[2]	40 Hz to 18.5 kHz				
Nominal Beamwidth	Horizontal: 120° Vertical: Array dependent, 15° 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 Handling[3] @ Nominal Impedance	80V, 400W @ 16 ohms (1600W peak)				
Recommended Amplifiers	400W - 800W @ 16 ohms, (80V - 113V) equivalent to 1600W - 3200W @ 4 ohms				
	Number of 15° elements *(in continuous array using S3 brackets)*				
	1	2	4	6	8
Nominal Sensitivity (1W/1m per element)	100 dB	101 dB	101 dB	102 dB	103 dB
Nominal Maximum SPL[5] Peak (Continuous)	132 dB (126 dB)	136 dB (130 dB)	139 dB (133 dB)	142 dB (136 dB)	144 dB (138 dB)
Equalized Sensitivity[6] (1W/1m)	100 dB	101 dB	101 dB	102 dB	103 dB
Equalized Maximum SPL[7] Peak (Continuous)	132 dB (126 dB)	136 dB (130 dB)	139 dB (133 dB)	142 dB (136 dB)	144 dB (138 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
Weight	73.2 lbs (33.2 kg) loudspeaker and 1 pair of splay brackets
Dimensions (H x W x D)	13.99" x 28.12" x 16.72" (355 x 714 x 425 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

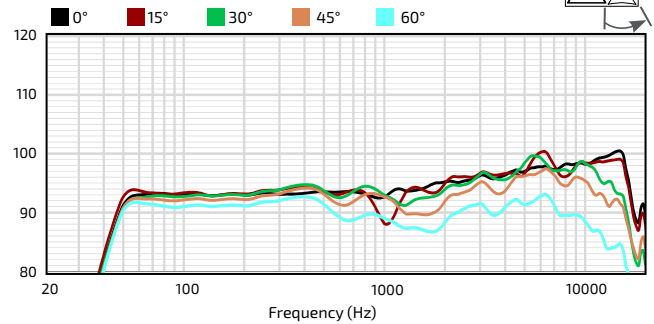| Accessories	Rigging - refer to page 10 for item drawings Additional rigging/mounting options are available from PolarFocus
Configure-to-Order (CTO)	Custom color

Community strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.

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120° x 15° LOUDSPEAKER

AXIAL PROCESSED RESPONSE (dB)[8]

■ -6   ■ -4.5   ■ -3   ■ -1.5   ■ 0   HF attenuation (dB)

AXIAL SENSITIVITY (dB SPL)[9]

■ -6   ■ -4.5   ■ -3   ■ -1.5   ■ 0   HF attenuation (dB)

HORIZONTAL OFF-AXIS LEFT RESPONSE (dB)[10]

■ 0°   ■ 15°   ■ 30°   ■ 45°   ■ 60°
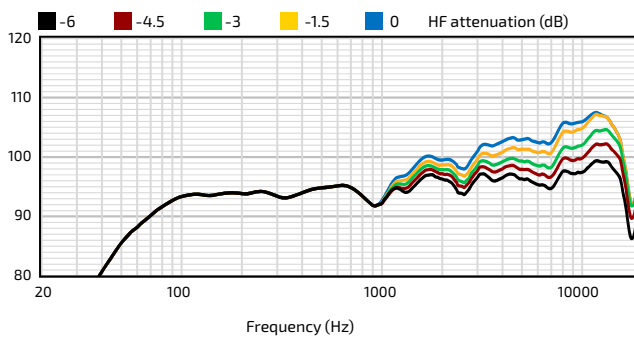
HORIZONTAL OFF-AXIS RIGHT RESPONSE (dB)[10]

■ 0°   ■ 15°   ■ 30°   ■ 45°   ■ 60°

IMPEDANCE (Ohms)

■ Passive

Minimum Impedance: 13.1 ohms @ 190Hz
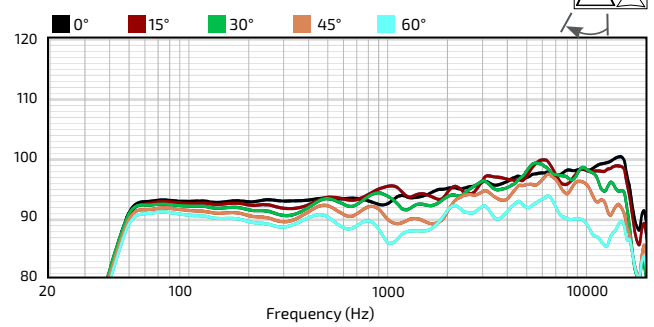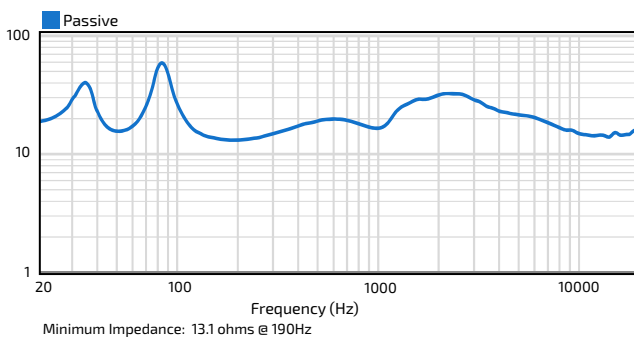
BEAMWIDTH (Degrees)[12]

■ Horizontal
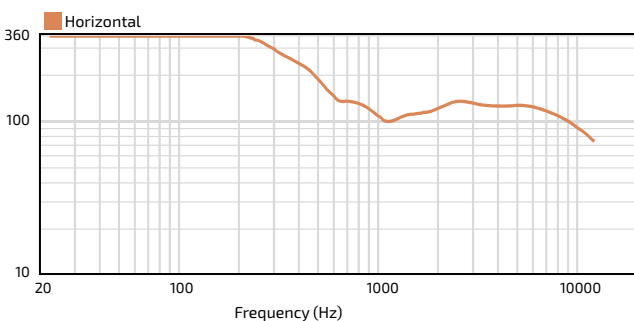
ORDERING DATA

Loudspeaker Elements

Part Number	Description
IV6-1122/15B	120° x 15° indoor black
IV6-1122/15W	120° x 15° indoor white
IV6-1122WR15	120° x 15° weather-resistant grey
IV6-1122WR15B	120° x 15° weather-resistant black
IV6-1122WR15W	120° x 15° weather-resistant white

Splay Brackets (required)

Important Note: One pair must be ordered for each element-to-element connection. A pair of S1's to connect to the top element is included with the marked (*) frames listed below. 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 Accessories

Part Number	Description
IV6-GP-AF	IV6 GlidePoint™ Array Frame*
IV6-SB-AF	IV6 Sub Behind Array Frame*
PY1-EN750-1550	Lift Point for Array Frame
IV6-LAF-PBB	IV6 Light Array Frame/Pullback Bar*
IV6-LAU	IV6 Light Frame Adapter U-Bracket

Rigging accessories shown above are black. If white finish is desired add "W" to the part number. Dimensions and additional accessories from Polar Focus appear on pg 10.