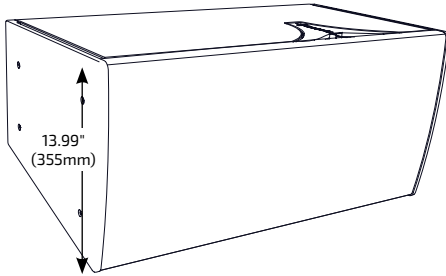


# IV6-1122WR15

12-INCH 2-WAY WEATHER-RESISTANT  
120° x 15° 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 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

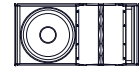
- Versatile configurations for both constant curve and line array applications
- Built-in Passive Acoustic Optimization settings allow array response shaping using one amplifier channel
- Elegant acoustics designed for permanent installations
- Exclusive Acoustic Optimization and Rigging Safety Check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

## TECHNICAL SPECIFICATIONS<sup>1</sup>

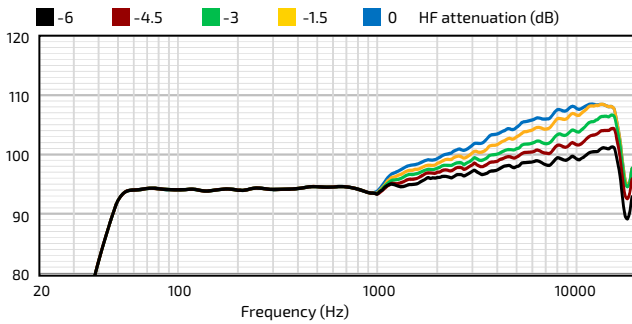
<b>Operating Mode</b>	Passive with Integrated Passive Acoustic Optimization				
<b>Passive Array Optimization Settings</b>	Element Attenuation: 15 dB range (in 1.5 dB steps) HF Attenuation: 6 dB range (in 1.5 dB steps)				
<b>Operating Environment</b>	Weather-Resistant Outdoor				
<b>Operating Range<sup>2</sup></b>	40 Hz to 18.5 kHz				
<b>Nominal Beamwidth</b>	Horizontal: 120° Vertical: Array dependent, 15° maximum splay				
<b>Transducers</b>	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				
<b>Continuous Power Handling<sup>3</sup> @ Nominal Impedance</b>	80V, 400W @ 16 ohms (1600W peak)				
<b>Recommended Amplifiers</b>	400W - 800W @ 16 ohms, (80V - 113V) equivalent to 1600W - 3200W @ 4 ohms				
	<b>Number of 15° elements (in continuous array)</b>				
	1	2	4	6	8
<b>Nominal Sensitivity (1W/1m)</b>	100 dB	101 dB	101 dB	102 dB	103 dB
<b>Nominal Maximum SPL<sup>5</sup> Peak (Continuous)</b>	132 dB (126 dB)	136 dB (130 dB)	139 dB (133 dB)	142 dB (136 dB)	144 dB (138 dB)
<b>Equalized Sensitivity<sup>6</sup> (1W/1m)</b>	100 dB	101 dB	101 dB	102 dB	103 dB
<b>Equalized Maximum SPL<sup>7</sup> Peak (Continuous)</b>	132 dB (126 dB)	136 dB (130 dB)	139 dB (133 dB)	142 dB (136 dB)	144 dB (138 dB)
<b>PHYSICAL</b>					
<b>Input Connection</b>	(1) Screw terminal block (2x 2-position), (2) NL4 Connectors				
<b>Mounting Points</b>	(8) M10 threaded rigging points (4 per side)				
<b>Environmental</b>	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)				
<b>Weight</b>	59.0 lbs (26.8 kg) loudspeaker and 1 pair of splay brackets				
<b>Dimensions (H x W x D)</b>	13.99" x 28.87" x 16.72" (355 x 733 x 425 mm)				
<b>Finish</b>	Refer to the Technical Drawing				
<b>Required Accessories</b>	EASE® Focus 3 Software: Acoustic optimization - array configuration Free - go to "DOWNLOADS" tab here: <a href="http://www.communitypro.com/products/i-series/IV6-1122">http://www.communitypro.com/products/i-series/IV6-1122</a> IV6-S1/S2/S3: IV6 Splay Bracket Pairs (Type 1, 2, or 3) One pair must be ordered for each element-to-element connection				
<b>OPTIONS</b>					
<b>Accessories</b>	Contact Community for Rigging information Additional rigging/mounting options are available from PolarFocus				
<b>Configure-to-Order (CTO)</b>	Custom color				

# IV6-1122WR15

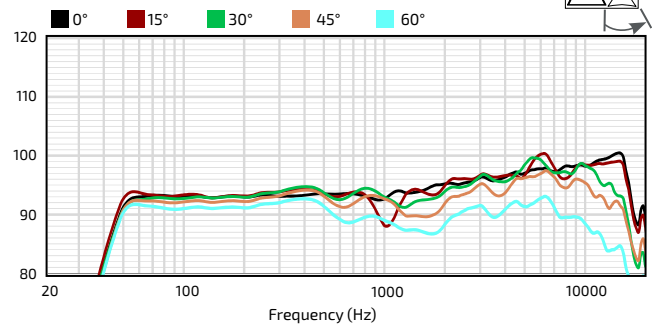
12-INCH 2-WAY WEATHER-RESISTANT  
120° x 15° LOUDSPEAKER



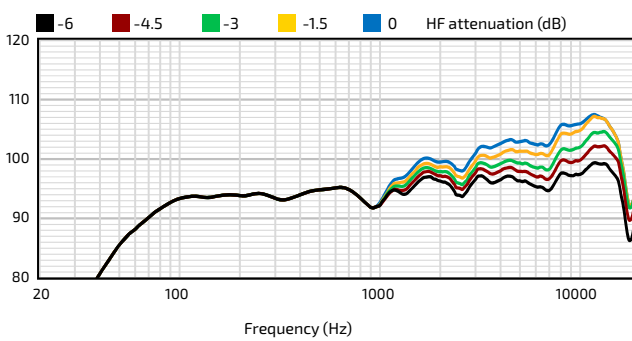
## AXIAL PROCESSED RESPONSE (dB)<sup>8</sup>



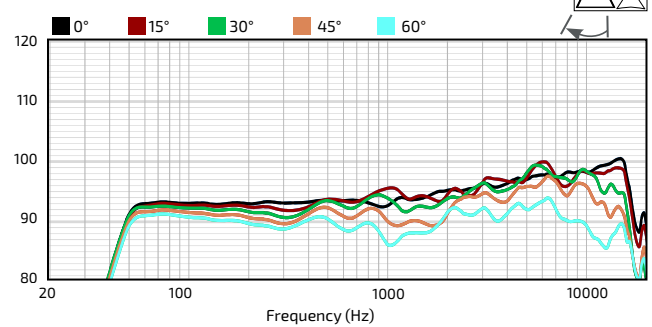
## HORIZONTAL OFF-AXIS LEFT RESPONSE (dB)<sup>10</sup>



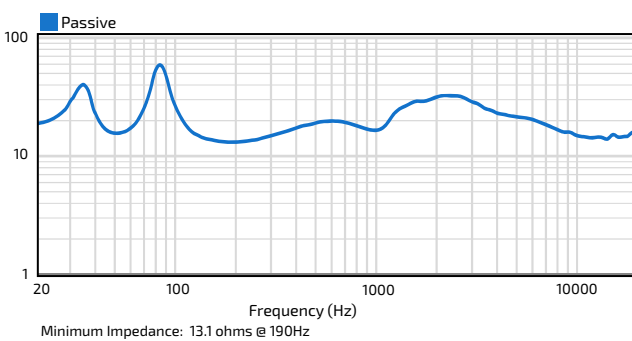
## AXIAL SENSITIVITY (dB SPL)<sup>9</sup>



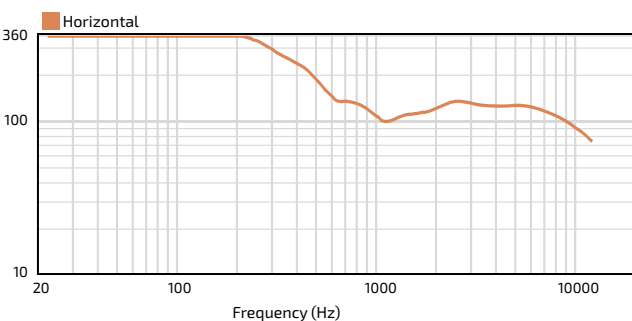
## HORIZONTAL OFF-AXIS RIGHT RESPONSE (dB)<sup>10</sup>



## IMPEDANCE (Ohms)



## BEAMWIDTH (Degrees)<sup>12</sup>



## ORDERING DATA

### Loudspeaker Elements

Part Number	Description
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. 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.