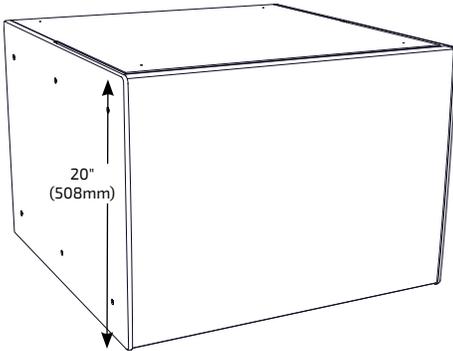


# IV6-118S

SINGLE 18-INCH  
SUBWOOFER



## APPLICATIONS

### MAIN PA

Houses of Worship · Auditoriums · Arenas  
Theaters · Stadiums · Themed Entertainment

## 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 elements, providing an extensive range of vertical coverage angle and throw distance configurations.

The IV6-118S is a high power 1 x 18" compact, direct-radiating subwoofer designed to complement the full range IV6-1122 elements in any array configuration with deep, impactful low frequency support. Large, balanced ports provide optimal enclosure tuning and even air pressure distribution to the driver cone, reducing distortion and extending system longevity. A FEA-optimized ferrite motor with long linear excursion capabilities provides deep bass response for the enclosure's size. With 800W @ 8 Ohms of continuous power handling (80V), the IV6-118S subwoofer can be conveniently driven by the same size power amplifier as the IV6-1122 full-range array elements.

The subwoofer can be ground-stacked or suspended at the top of, or behind, a flown array. Cardioid subwoofer tunings are easily deployed using the IV6-SB-AF (Sub Behind Array Frame) and can be integrated into a single full-range array or flown separately. The IV6-118S is fully compatible with all of the available accessory array frames in the series, presenting virtually limitless options for integration in any application.

## FEATURES

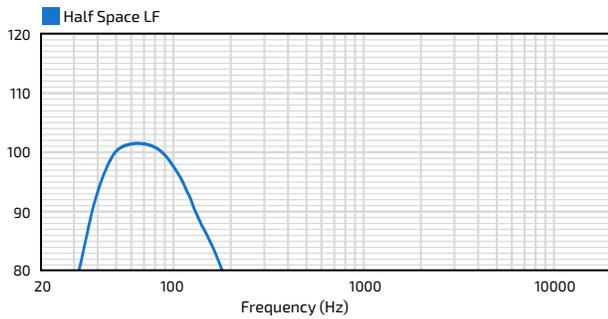
- Long excursion ferrite LF driver with FEA-optimized motor and symmetric movement suspension
- Matched-size enclosure and aligned suspension point for seamless flown array integration
- 800W continuous power handling (3200W peak)
- High sensitivity design minimizes power compression losses and required amplifier size
- Indoor and Outdoor (weather-resistant) models available

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

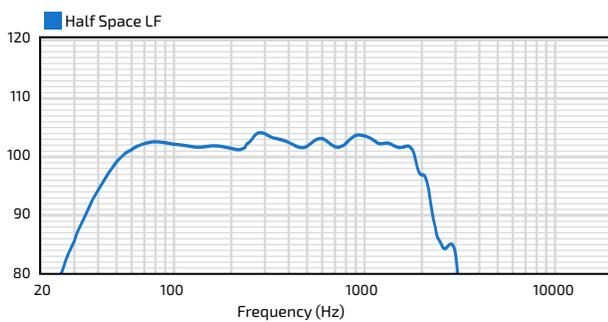
<b>Operating Mode</b>	Passive		
<b>Operating Environment</b>	Indoor or Weather-Resistant Outdoor		
<b>Operating Range<sup>2</sup></b>	37 Hz to 132 Hz		
<b>Transducers</b>	1 x 18" (457mm) double-treated cone with 4" (102mm) inner/outer wound voice coil, ferrite construction		
<b>Continuous Power Handling<sup>3</sup> @ Nominal Impedance</b>	80V, 800W @ 8 ohms (3200W peak)		
<b>Recommended Amplifiers</b>	800W - 1600W @ 8 ohms, (80V - 113V)		
	Half Space	Whole Space	
<b>Nominal Sensitivity<sup>4</sup> (1W/1m)</b>	102 dB	96 dB	
<b>Nominal Maximum SPL<sup>5</sup> Peak (Continuous)</b>	137 dB (131 dB)	131 dB (125 dB)	
<b>Equalized Sensitivity<sup>6</sup> (1W/1m)</b>	99 dB	93 dB	
<b>Equalized Maximum SPL<sup>7</sup> Peak (Continuous)</b>	134 dB (128 dB)	128 dB (122 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) (4) User-installed rubber feet (for ground stack applications)		
<b>Environmental</b>	Outdoor: IP55W per IEC 60529, designed in accordance with MIL-STD-810G		
<b>Weight</b>	132.6 lbs (60.1 kg) loudspeaker and 1 pair of splay brackets		
<b>Dimensions (H x W x D)</b>	20.00" x 28.12" x 28.08" (508 x 714 x 713 mm)		
<b>Finish</b>	Refer to the Technical Drawing		
<b>Required Accessories</b>	<b>EASE® Focus 3 Software:</b> Acoustic optimization - array configuration Free - go to "DOWNLOADS" tab here: <a href="http://www.communitypro.com/products/i-series/IV6-118S">http://www.communitypro.com/products/i-series/IV6-118S</a> <b>IV6-S1:</b> IV6 Splay Bracket Pairs (Type 1) One pair must be ordered for each subwoofer-to-subwoofer or element connection if flown		
<b>OPTIONS</b>			
<b>Accessories</b>	Rigging - refer to <a href="#">page 16</a> for item drawings		
<b>Configure-to-Order (CTO)</b>	Custom color		

# IV6-118S SINGLE 18-INCH SUBWOOFER

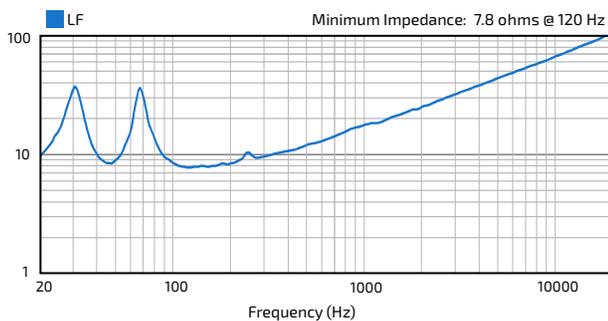
## AXIAL PROCESSED RESPONSE (dB)<sup>8</sup>



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



## IMPEDANCE (Ohms)



## ORDERING DATA

### Subwoofers

Part Number	Description
IV6-118SB	Subwoofer indoor black
IV6-118SW	Subwoofer indoor white
IV6-118SWR	Subwoofer weather-resistant grey
IV6-118SWRB	Subwoofer weather-resistant black
IV6-118SWRW	Subwoofer weather-resistant white

### Splay Brackets (required if flown)

**Important Note:** 1 pair must be ordered for each element from the 2nd in the array to the last one. A pair of S1s for the top subwoofer is included with the marked (\*) frames listed below.

Part Number	Description
IV6-S1	Splay bracket 1 – maximum splay black

### 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 the model specification sheets available via the website.*

# IV6-118S

SINGLE 18-INCH  
SUBWOOFER

## TECHNICAL DRAWING / DIMENSIONS / FINISH

**H x W x D**

20.00" x 28.12" x 28.08"  
(508 x 714 x 713 mm)

**Unit Weight**

130.1 lbs (59.0 kg) subwoofer only  
132.6 lbs (60.1 kg) with one pair of splay brackets

**Shipping Weight**

144.1 lbs (65.4 kg)

**Indoor Models:**

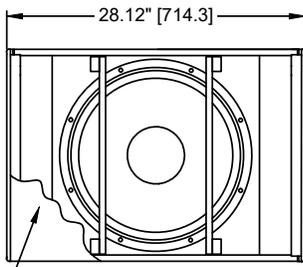
**Grille:** Powder-coated perforated steel backed with color-matched acoustically transparent woven fabric. Black (RAL#9005) or White (RAL#9003)

**Enclosure / Finish:** Black (RAL#9005) or White (RAL#9003) low gloss, uniformly textured painted 15mm Baltic Birch plywood.

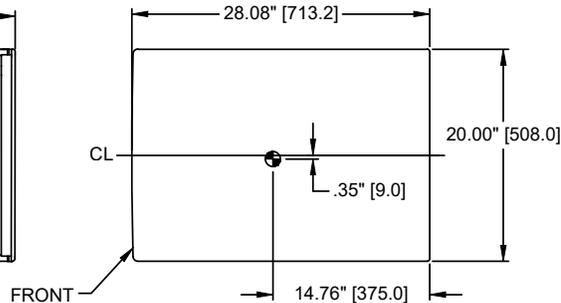
**\*Outdoor Models:**

**Grille:** Marine grade perforated aluminum with dual-layer powder-coat, featuring hydrophobically treated acoustically transparent woven black fabric backing. Black, White or Grey

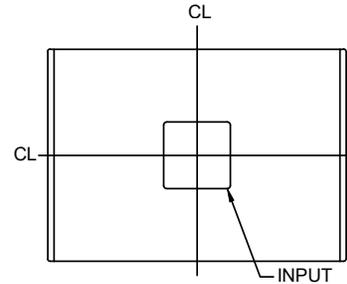
**Enclosure / Finish:** 15mm PolyGlas™, Black, White or Grey, heavily textured industrial-grade exterior-rated coating. Custom colors upon request.



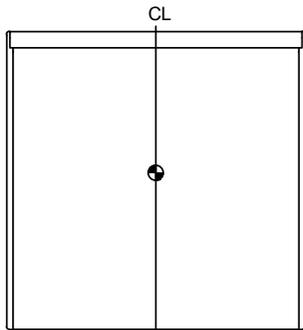
**FRONT**



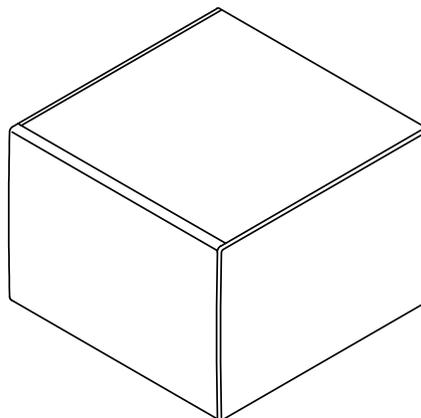
**SIDES**



**BACK**



**TOP/BOTTOM**





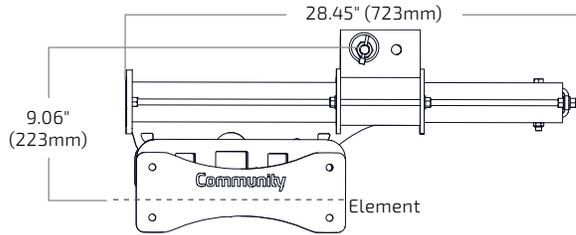
IV6-S1  
PAIR  
2.5 lbs (1.1 kg)

**SPLAY BRACKETS**  
*1 pair must be ordered for each element-to-element connection*

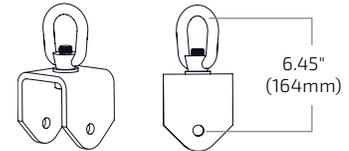
**\*Note:** The outdoor (WR) model drawing is available at [communitypro.com](http://communitypro.com) - Input panel and mounting point locations, the unit weight and the dimensions vary slightly from indoor model (shown).

IV6-118S SINGLE 18-INCH SUBWOOFER

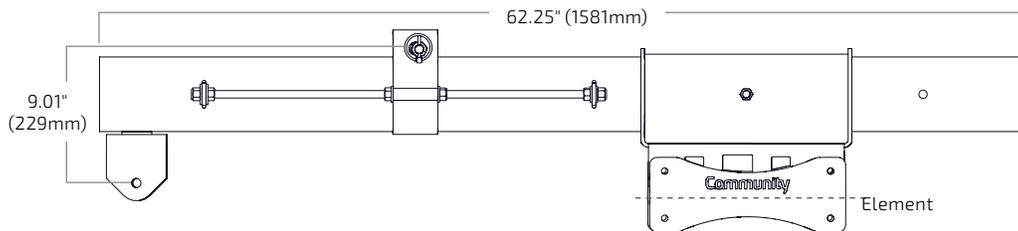
ACCESSORIES - not to scale



IV6-GP-AF: IV6 GlidePoint™ Array Frame



**PY1-EN750-1550**  
Lift Point for  
Array Frame



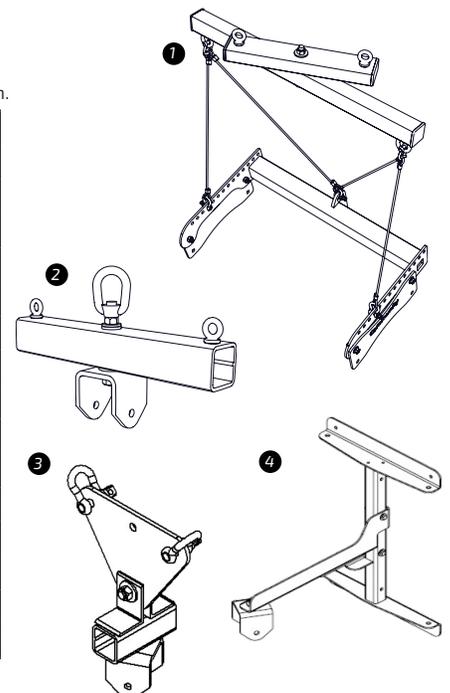
IV6-SB-AF: IV6 Sub Behind Array Frame

**ORDERING DATA:** Accessories can be ordered using the "bold" number. The parts have a black finish, if white finish is needed add 'W' to the part number.

ACCESSORY BRACKETS - available from Polar Focus

Some of the accessories are shown at right. Contact Polar Focus ([linearrayframes.com](http://linearrayframes.com)) for additional information.

	OFF THE SHELF	
<b>1</b>	IV6-ZB-TCK	Z-Beam and Tilt Cable Kit (for use with IV6-LAF-PBB)
	IV6-ZB-DHB	Z-Beam "Dead Hang" Bracket (for use with IV6-LAF-PBB)
<b>2</b>	<b>PY1-ZBH-1550</b>	Two Point Permanent Install Mount with Center Service Pick Point
	<b>PY1-ZBR-1550</b>	Self-Leveling Dual Hoist Mount
<b>3</b>	<b>PY1-SLH</b>	Self-Leveling Two Point Bridle Mount (1200lbs. WLL)
	<b>PY1-RBC-1-1100</b>	Level, Steel I-Beam Mount
	<b>PY1-BTP1212-1550</b>	12" x 12" Box Truss Plate Mount
	<b>RLP-X2-1800</b>	Redundant Load Point
<b>4</b>	<b>PY0-WMV-2226-250</b>	Wall Mount (250lbs. WLL)
	<b>PY0-STEM</b>	Hidden Two Point Permanent Install Through-Ceiling Mount (300lbs. WLL)
	<b>PY0-ZBH-300</b>	Two Point Permanent Install Mount with Center Service Pick Point (300lbs. WLL)
	<b>SEMI-CUSTOM</b>	<i>User-defined dimensions required</i>
	<b>PY1-UJEXT-POST</b>	Custom Length Ceiling Extension Post (available from 2ft. to 16ft.)
	<b>PY1-CBA-3</b>	Custom Sized Mount for Level or Sloped Wood-Based Beams (500lbs. WLL)
	<b>PY1-CBA-4</b>	Custom Sized Mount for Rolled Wood-Based Beams (450lbs. WLL)



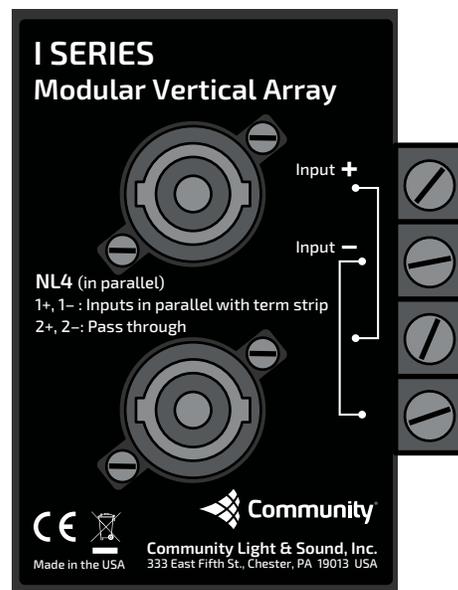
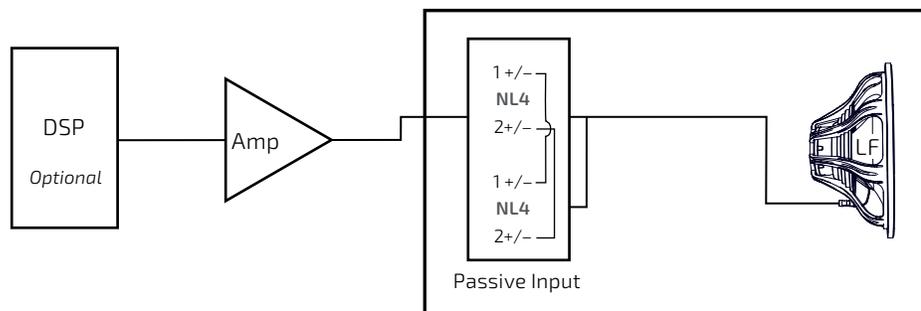
## I SERIES

Modular Vertical Array 600

# IV6-118S

SINGLE 18-INCH  
SUBWOOFER

## CONNECTION DIAGRAMS



Input panel

## NOTES

- PERFORMANCE SPECIFICATIONS** All measurements are taken indoors using a time-windowed and processed to eliminate room effects, approximating an anechoic environment, a distance of 6.0 m. All acoustic specifications are rounded to the nearest whole number. An external DSP with settings provided by Community Professional Loudspeakers is required to achieve the specified performance; further performance gains can be realized using Community's dSPEC226 loudspeaker processor with FIR power response optimization.
- OPERATING RANGE** The frequency range in which the axial processed response remains within 10dB of the average SPL.
- CONTINUOUS POWER HANDLING** Maximum continuous input voltage (and the equivalent power rating, in watts, at the stated nominal impedance) that the system can withstand, without damage, for a period of 2 hours using an EIA-426-B defined spectrum; with recommended signal processing and protection filters.
- NOMINAL SENSITIVITY** Averaged SPL over the operating range with an input voltage that would produce 1 Watt at the nominal impedance; swept sine wave axial measurements with no external processing applied in whole space, except where indicated.
- NOMINAL MAXIMUM SPL** Calculated based on nominal / peak power handling, respectively, and nominal sensitivity; exclusive of power compression.
- EQUALIZED SENSITIVITY** The respective SPL levels produced when an EIA-426-B signal is applied to an equalized loudspeaker system at a level which produces a total power of 1 Watt, in sum, to the loudspeaker subsections, referenced to a distance of 1 meter.
- EQUALIZED MAXIMUM SPL** The SPL produced when an EIA-426-B signal is applied to an equalized loudspeaker system, at a level which drives at least one subsection to its rated continuous input voltage limit, referenced to a distance of 1 meter. The peak SPL represents the 2:1 (6dB) crest factor of the EIA-426-B test signal.
- AXIAL PROCESSED RESPONSE** The axial magnitude response of the complete loudspeaker system and each pass band capable of being driven by an independent amplification channel with recommended signal processing applied. 1/6 octave smoothing applied.
- AXIAL SENSITIVITY** The SPL plotted against frequency, in all operating modes and for each pass band capable of being driven by an independent amplification channel, for a 1 Watt swept sine wave, referenced to 1 meter with no signal processing. 1/6 octave smoothing applied.

Data presented on this spec sheet represents a selection of the basic performance specifications for the model. These specifications are intended to allow the user to perform a fair, straightforward evaluation and comparison with other loudspeaker spec sheets. For a detailed analysis of this loudspeaker's performance, please download the GLL file and/or the CLF file from our website: [communitypro.com](http://communitypro.com).