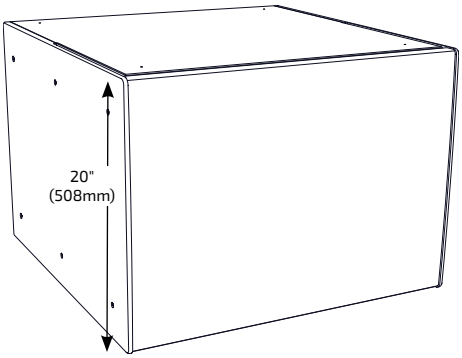
I SERIES Modular Vertical Array 600

IV6-118SWR

SINGLE 18-INCH
WEATHER-RESISTANT 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 IV6-118SWR is a high power 1 x 18" compact, direct-radiating subwoofer designed to complement the full range IV6-1122WR elements 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 IV6-118SWR subwoofer can be conveniently driven by the same size power amplifier as the IV6-1122WR full-range array elements.

The subwoofer can be ground-stacked or suspended separately from the main flown array.

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
- Outdoor (weather-resistant) model

TECHNICAL SPECIFICATIONS[1]		
Operating Mode	Passive	
Operating Environment	Indoor or Weather-Resistant Outdoor	
Operating Range[2]	37 Hz to 132 Hz	
Transducers	1 x 18" (457mm) double-treated cone with 4" (102mm) inner/outer wound voice coil, ferrite construction	
Continuous Power Handling[3] @ Nominal Impedance	80V, 800W @ 8 ohms (3200W peak)	
Recommended Amplifiers	800W - 1600W @ 8 ohms, (80V - 113V)	
	Half Space	Whole Space
Nominal Sensitivity[4] (1W/1m)	102 dB	96 dB
Nominal Maximum SPL[5] Peak (Continuous)	137 dB (131 dB)	131 dB (125 dB)
Equalized Sensitivity[6] (1W/1m)	99 dB	93 dB
Equalized Maximum SPL[7] Peak (Continuous)	134 dB (128 dB)	128 dB (122 dB)
PHYSICAL		
Input Connection	(1) Screw terminal block (2x 2-position), (2) NL4 Connectors	
Mounting Points	(8) M10 threaded rigging points (4 per side) (4) User-installed rubber feet (for ground stack applications)	
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	99.0 lbs (44.9 kg) loudspeaker and 1 pair of splay brackets	
Dimensions (H x W x D)	20.00" x 28.86" x 28.08" (508 x 733 x 713 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/IV6-118S **IV6-S1**: IV6 Splay Bracket Pairs (Type 1) One pair must be ordered for each subwoofer-to-subwoofer, or element connection if flown	
OPTIONS		
Accessories	Contact Community for Rigging information Additional rigging/mounting options are available from PolarFocus	
Configure-to-Order (CTO)	Custom color	

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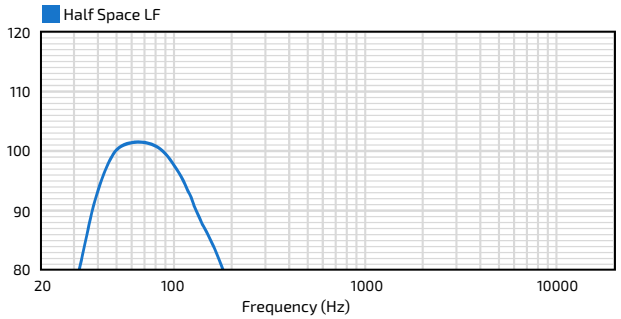
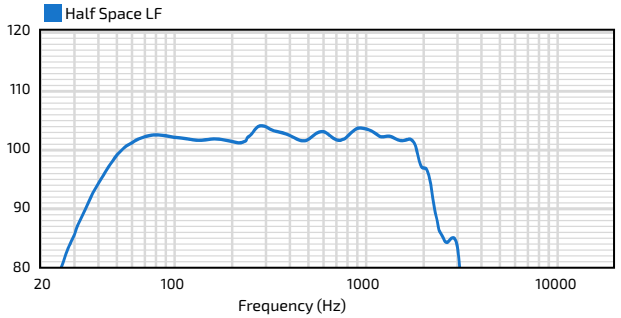
IV6-118SWR SINGLE 18-INCH WEATHER-RESISTANT SUBWOOFER

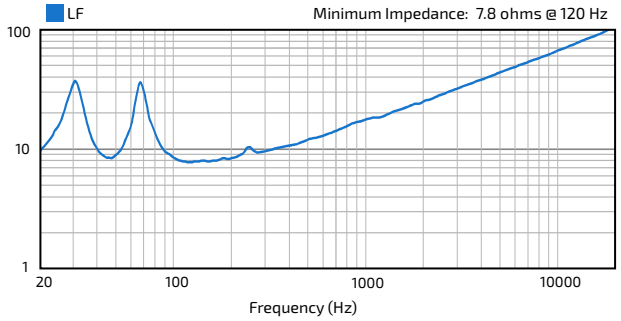
AXIAL PROCESSED RESPONSE (dB)[8]



AXIAL SENSITIVITY (dB SPL)[9]



IMPEDANCE (Ohms)



ORDERING DATA

Subwoofers

Part Number	Description
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 subwoofer-to-subwoofer connection.

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

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.

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IV6-118SWR SINGLE 18-INCH WEATHER-RESISTANT SUBWOOFER

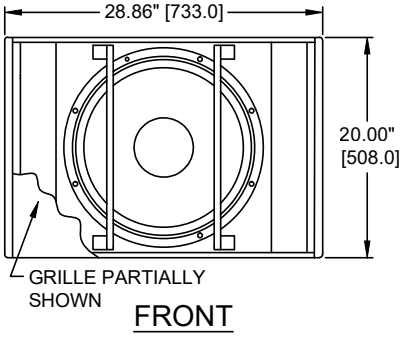
TECHNICAL DRAWING / DIMENSIONS / FINISH

H x W x D
20.00" x 28.86" x 28.08"
(508 x 733 x 713 mm)

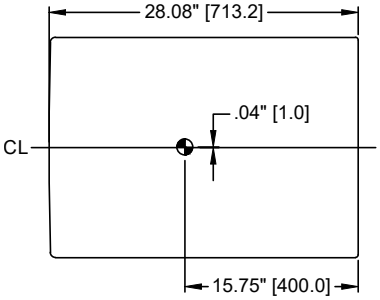
Unit Weight
96.5 lbs (43.8 kg) subwoofer only
99.0 lbs (44.9 kg) with one pair of splay brackets

Shipping Weight
110.5 lbs (50.1 kg)

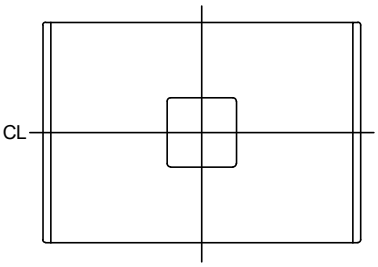
Outdoor Models:
Grille: Marine grade perforated aluminum with dual-layer powder-coat, featuring hydrophobically treated acoustically transparent woven black fabric backing. Black, White or Grey
Enclosure / Finish: 15mm PolyGlas™, Black, White or Grey, heavily textured industrial-grade exterior-rated coating. Custom colors upon request.



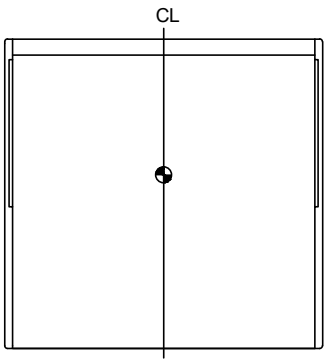
FRONT



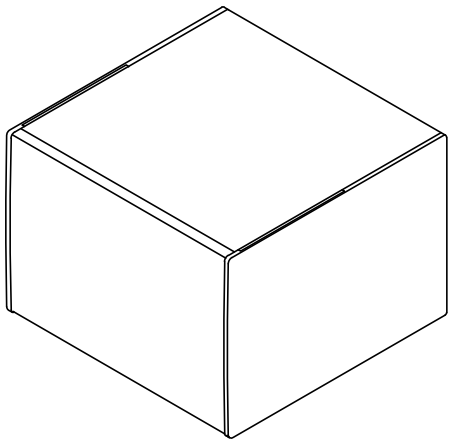
SIDES



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

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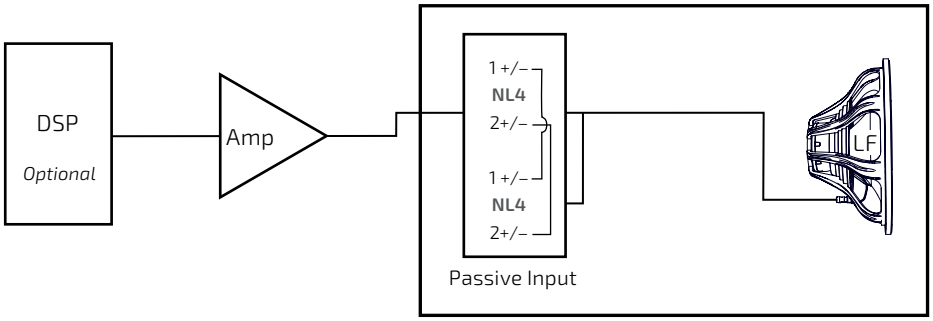
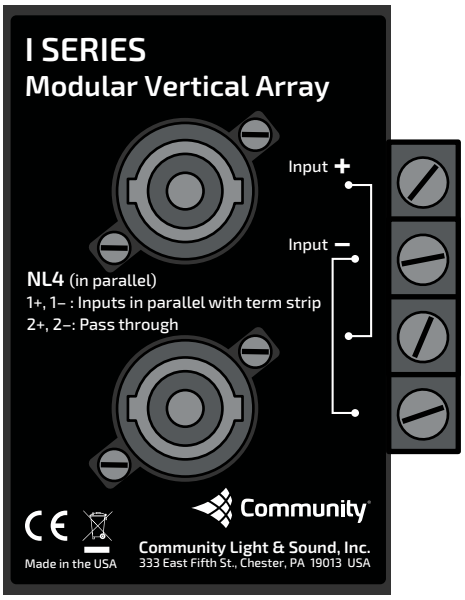
CONNECTION DIAGRAMS





Input panel

IMPORTANT: The NL4 connections cannot be used for outdoor operations. The covers must be in place on both attenuation and input panels to maintain weather resistance and validate the product warranty. Any unused gland nuts must be plugged to maintain weather-resistance.

NOTES

1. *PERFORMANCE SPECIFICATIONS All measurements are taken indoor 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.*
2. *OPERATING RANGE The frequency range in which the axial processed response remains within 10dB of the average SPL.*
3. *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.*
4. *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.*
5. *NOMINAL MAXIMUM SPL Calculated based on nominal / peak power handling, respectively, and nominal sensitivity; exclusive of power compression.*
6. *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.*
7. *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.*
8. *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.*
9. *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.

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CAUTION: Installation of loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting design.