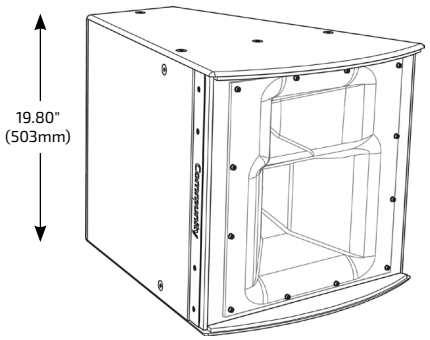
I SERIES
Point Source 800

IP8-0002/94

HIGH POWER MID-HIGH FREQUENCY
90° x 40° INSTALLATION LOUDSPEAKER



APPLICATIONS

MAIN PA *(Small to Medium Size Venues)*
Houses of Worship · Auditoriums · Restaurants
Meeting Rooms · Theaters · Corporate A/V Systems

DISTRIBUTED OR FILL *(Larger Size Venues)*
Arenas · Stadiums · Night Clubs · Theaters
Themed Entertainment · Larger Houses of Worship

DESCRIPTION

I SERIES Point Source 800 loudspeakers provide exemplary acoustic performance, modular flexibility and elegant aesthetics for modern performance venues. Designed to support the goals of systems integrators and consultants both acoustically and mechanically, I SERIES includes a wide variety of arrayable, rotatable coverage patterns and a comprehensive selection of modular bracket systems that accelerate system design and system commissioning.

FEA-optimized linear suspension, high-flux neodymium motor, and integral demodulation ring ensures precise control and very low distortion at high SPL levels. The matched diaphragms on the compression drivers provide natural, transparent sound quality with unrivaled intelligibility and transient response accuracy that complements any source.

Ideal for use as a down-fill loudspeaker in a larger I SERIES system or as part of a low-profile three-way or four-way array with the IP8-1151 LF, IS-115 or IS-118 subwoofers, the rotatable 18-inch (457mm) MF/HF waveguide provides well-defined coverage and a smooth off-axis response. The acoustic 8th order MF/HF passive crossover produces a smooth, consistent vertical off-axis response free from the polar lobing and power response losses inherent in similar systems. User selectable passive or biamp operating modes further expand performance capabilities.

FEATURES

- Matching ketone polymer MF and HF diaphragms provide unmatched uniform sound quality
- M200HP MF compression driver for signature Community intelligibility and articulation
- HF driver's non-metallic diaphragm and high-flux neodymium motor with demodulation ring significantly reduce harsh HF break-up modes and distortion
- Innovative low profile modular bracket systems create elegant arrays with simplified installation

TECHNICAL SPECIFICATIONS[1]			
Operating Mode	Passive or Biamp with DSP		
Operating Environment	Indoor		
Operating Range[2]	335 Hz to 16.5 kHz		
Nominal Beamwidth (H x V)	90° x 40°, rotatable waveguide		
Transducers	MF - M200HP, 2" exit, ketone polymer diaphragm, compression driver HF – 1 x 1.4" (36mm) exit neodymium compression driver, 2.6" (66mm) voice coil, demodulation ring, ketone polymer diaphragm		
Continuous Power Handling[3] @ Nominal Impedance	Passive	47V	275W @ 8 ohms (1100W peak)
	MF	35V	150W @ 8 ohms (600W peak)
	HF	32V	125W @ 8 ohms (500W peak)
Nominal Sensitivity[4]		@ 1W	@ 2.83V
	Passive	106 dB	106 dB
	MF	106 dB	106 dB
	HF	106 dB	106 dB
Nominal Maximum SPL[5] (Whole Space)		Peak	Continuous
	Passive	136 dB	130 dB
	MF	134 dB	128 dB
	HF	133 dB	127 dB
Equalized Sensitivity[6]	System	@ 1W	@ 2.83V
		107 dB	107 dB
Equalized Maximum SPL[7]	System	Peak	Continuous
		137 dB	131 dB
Recommended Amplifiers	Passive	275W - 550W @ 8 ohms, (47V - 66V)	
	MF	150W - 300W @ 8 ohms, (35V - 49V)	
	HF	125W - 250W @ 8 ohms (32V - 45V)	
PHYSICAL			
Input Connection	(2) Screw terminal blocks (6-position)		
Mounting Points	(14) M10 threaded rigging points		
Environmental	IPX4 per IEC 60529 , designed in accordance with MIL-STD-810G		
Dimensions/Weight/Finish	Refer to the Technical Drawing page		
OPTIONS			
Accessories *(Refer to Accessory Guide for complete listing)*	*Rigging kits include:* **BFR22:** BalancePoint™ Fly Rails; **IVY0002:** Vertical Yoke; **IAF55:** Isometric Array Frame; **HAB3-BFR38:** Sub/Dual 3-Way Horiz Array; **HSB3/VSB3:** Multiple Splay Brackets for Horiz/Vert Arrays with/without Sub Behind options; **DFS:** Downfill Splay Kit; **DVS-BFR22:** Dual Vert Splay Kit with BalancePoint™ Fly Rails; **TPK:** Tight Pack Kit		
Configure-to-Order (CTO)	Custom color		

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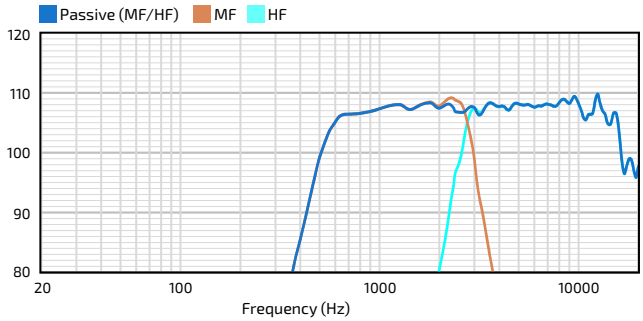
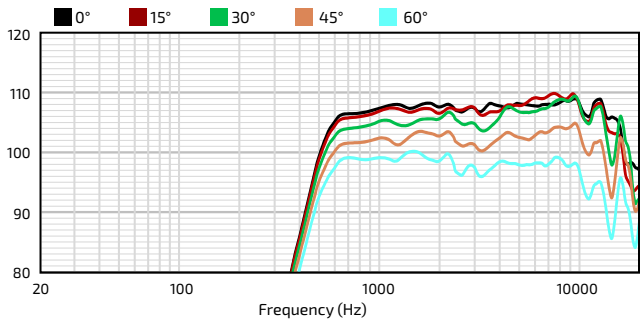
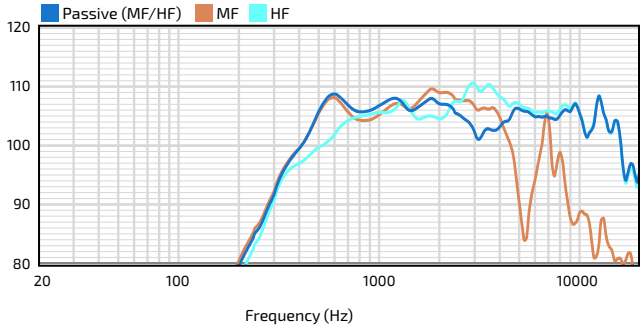
AXIAL PROCESSED RESPONSE (dB)[8]



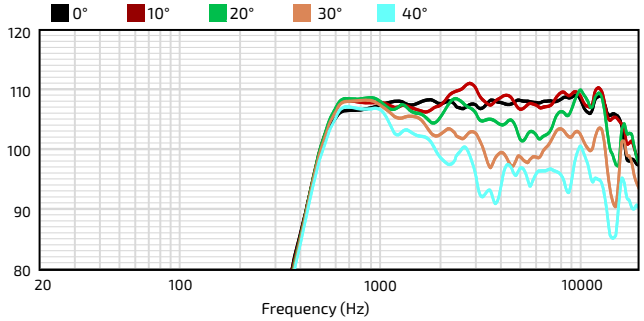
HORIZONTAL OFF-AXIS RESPONSE (dB)[10]



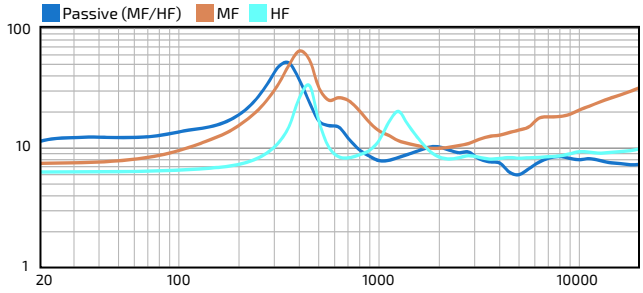
AXIAL SENSITIVITY (dB SPL)[9]



VERTICAL OFF-AXIS UP RESPONSE (dB)[10]

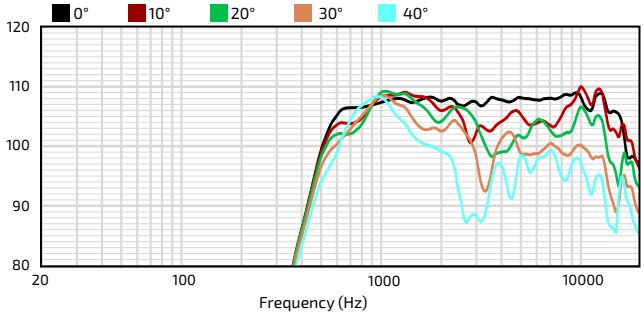


IMPEDANCE (Ohms)

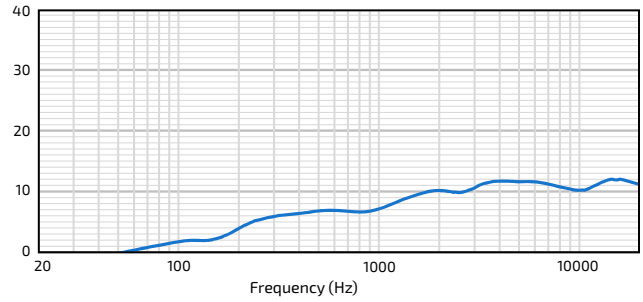


Min Impedance: (MF) 10 ohms @ 1800 Hz, (MF/HF) 6 ohms @ 5000 Hz, (HF) 8.1 ohms @ 2240 Hz

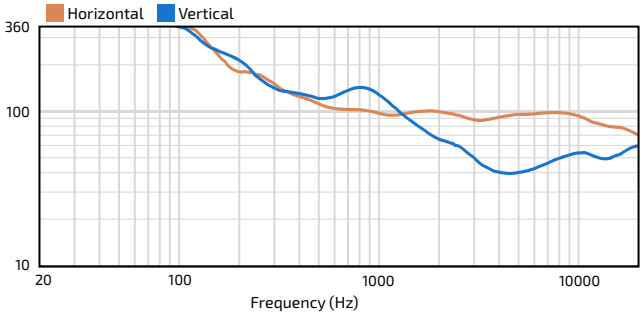
VERTICAL OFF-AXIS DOWN RESPONSE (dB)[10]



DIRECTIVITY INDEX (dB)[11]



BEAMWIDTH (Degrees)[12]



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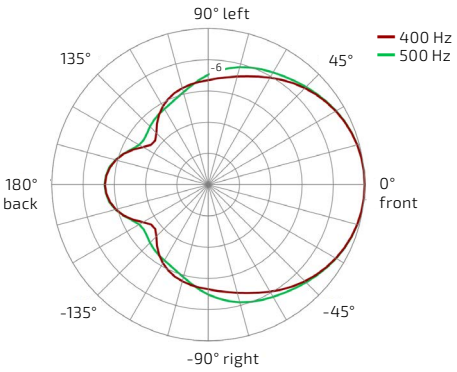
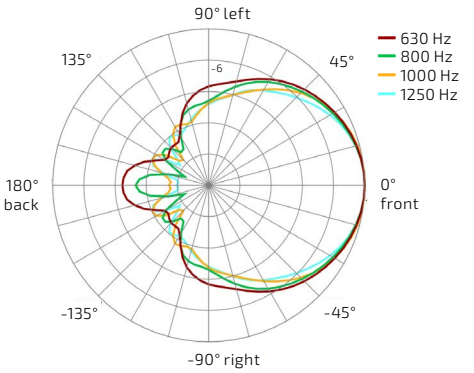
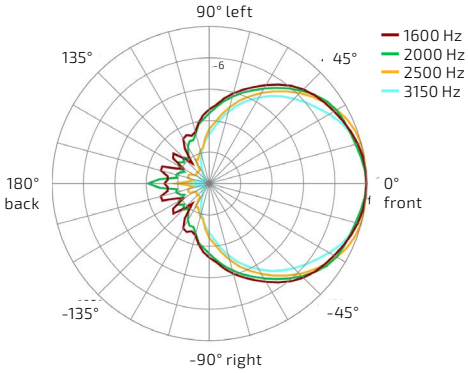
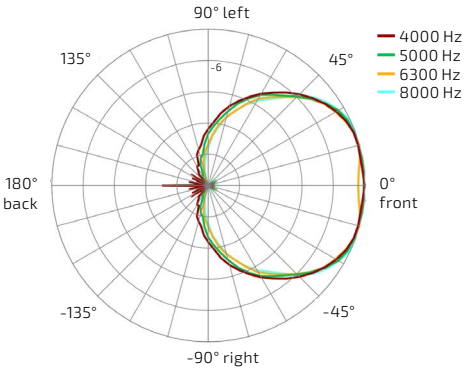
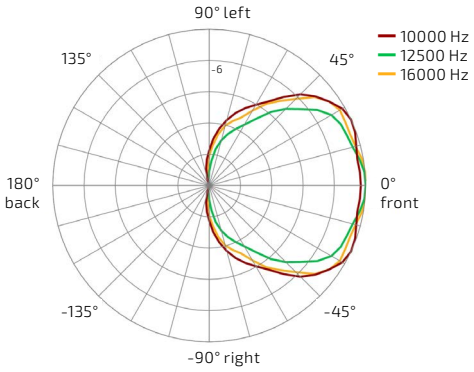
HORIZONTAL POLAR DATA *(30dB Scale, 6dB per major division)*



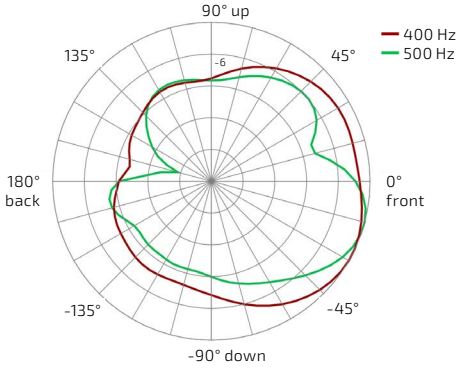


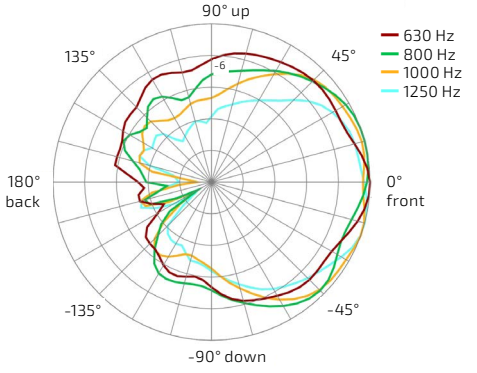


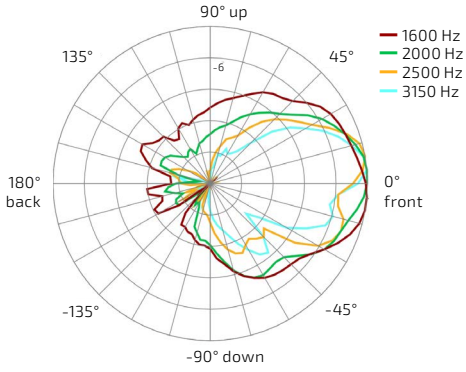


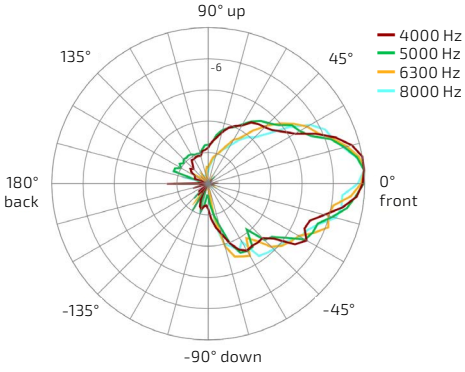


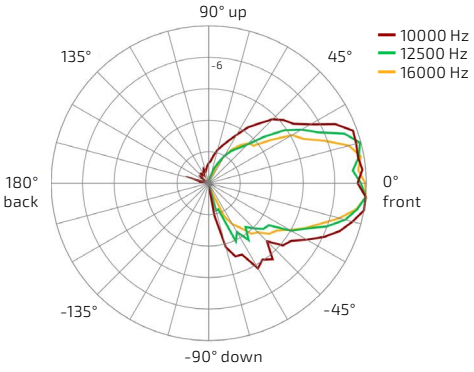
VERTICAL POLAR DATA *(30dB Scale, 6dB per major division)*











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TECHNICAL DRAWING / DIMENSIONS / FINISH

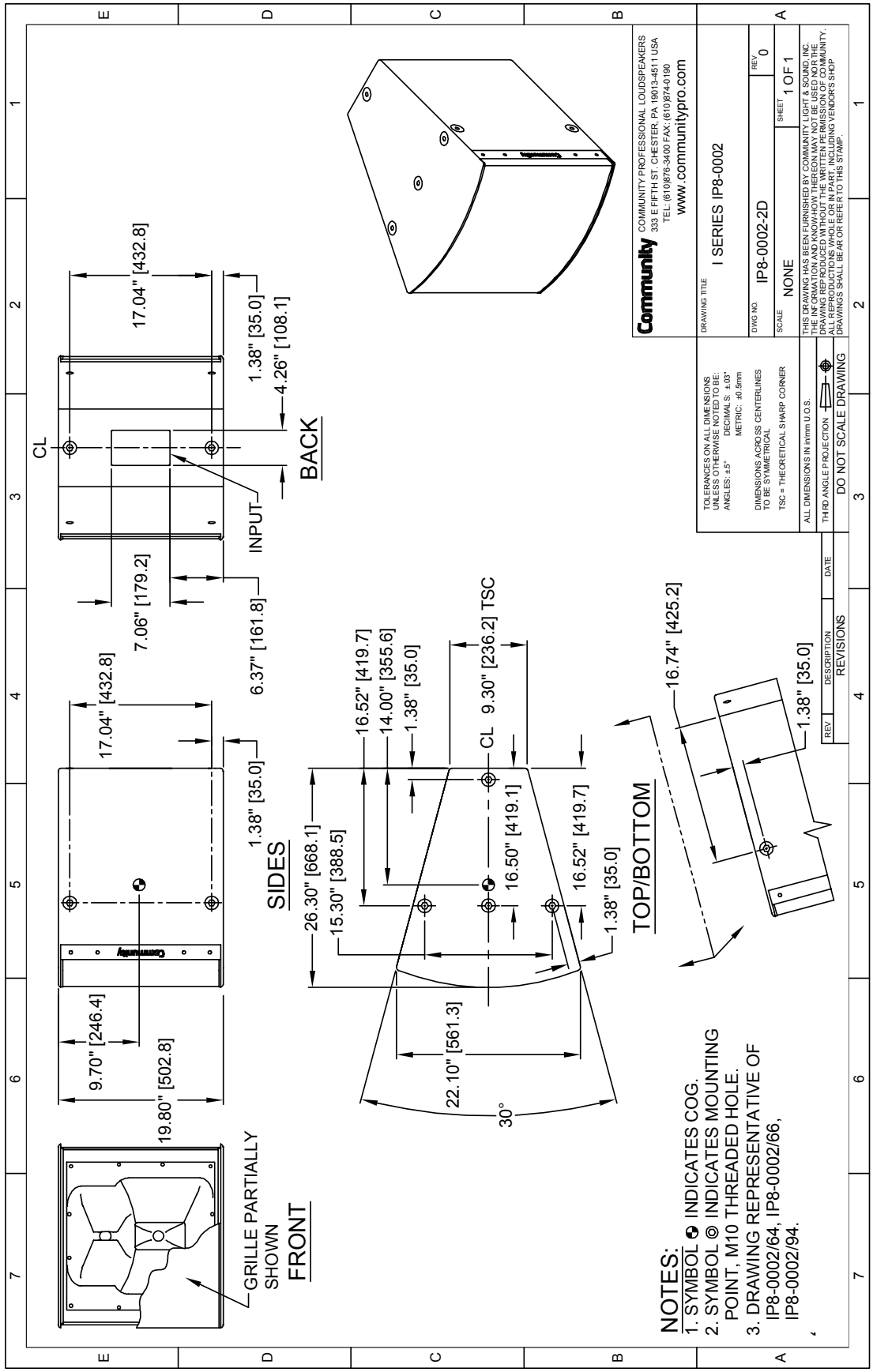
H x W x D
19.80" x 22.10" x 26.30"
(503 x 561 x 668 mm)

Unit Weight
63 lbs (28.6 kg) loudspeaker only

Shipping Weight
76 lbs (34.5 kg)

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

Enclosure / Finish
Black (RAL#9004) or White (RAL#9003)
low gloss, uniformly textured painted
15mm Baltic Birch plywood



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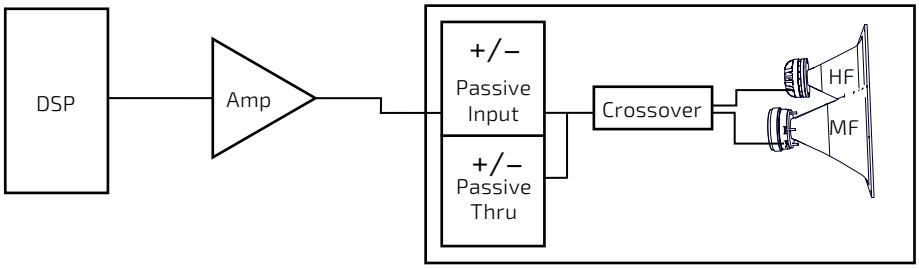
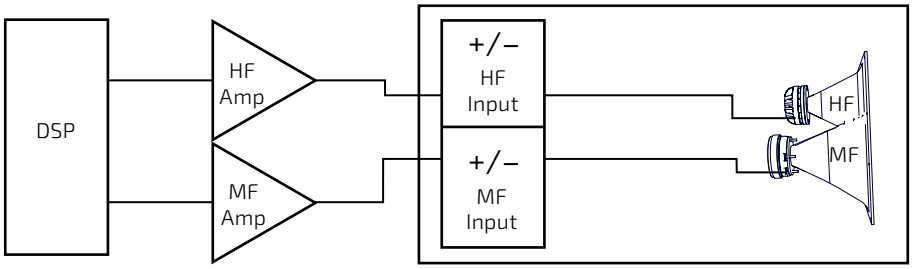
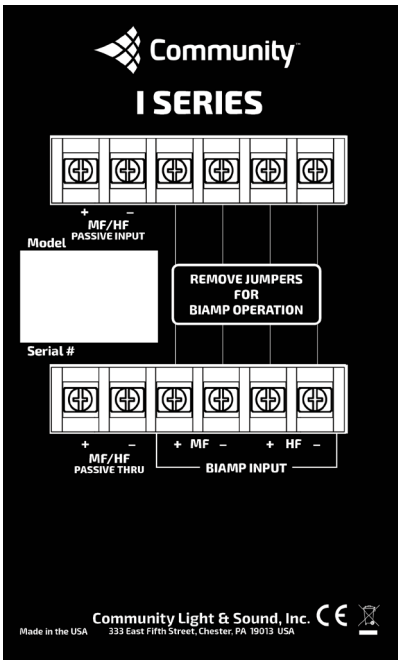
CONNECTION DIAGRAMS



Single amp



Biamp



Mid-high input panel

NOTES

1. *PERFORMANCE SPECIFICATIONS All measurements are taken indoor using a time-windowed and processed signal 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 on-axis 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 and the averaged SPL over the operating range with a fixed input voltage of 2.83V, respectively; 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 the equalized loudspeaker system at a level which produces a total power of 1 Watt , in sum, to the loudspeaker subsections and also at a level which produces a total voltage, in sum, of 2.83V to the loudspeaker subsections, respectively; each referenced to a distance of 1 meter.*
7. *EQUALIZED MAXIMUM SPL The SPL produced when an EIA-426-B signal is applied to the 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 on-axis variation in acoustic output level with frequency of the complete loudspeaker system with recommended signal processing applied. 1/6 octave Gaussian smoothing applied.*
9. *AXIAL SENSITIVITY The on-axis variation in acoustic output level with frequency for a 1 Watt swept sine wave, referenced to 1 meter with no signal processing. 1/6 octave Gaussian smoothing applied.*
10. *HORIZONTAL / VERTICAL OFF-AXIS RESPONSES The loudspeaker's magnitude response at various angles off-axis, with recommended signal processing applied in the operating mode which utilizes the largest number of individually amplified pass bands. 1/6 octave Gaussian smoothing applied.*
11. *DIRECTIVITY INDEX The ratio of the on-axis SPL squared to the mean squared SPL at the same distance for all points within the measurement sphere for each given frequency; expressed in dB. 1/6 octave Gaussian smoothing applied.*
12. *BEAMWIDTH The angle between the -6dB points in the polar response of the loudspeaker when driven in the operating mode which utilizes the largest number of individually amplified pass bands. 1/6 octave Gaussian 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.