DATA SHEET

COMMUNITY

W2-2W8

TWO-WAY DUAL 8-INCH FULL-RANGE WEATHER-RESISTANT LOUDSPEAKER





APPLICATIONS

MAIN PA or DISTRIBUTED
Wide area outdoor coverage
Foreground music · Water parks
Theme and amusement parks
Outdoor entertainment centers

FILL or DELAY Outdoor underbalcony coverage · Stadiums · Themed entertainment

DESCRIPTION

Exhibiting a true 120° wide coverage pattern, the W2-2W8 is an innovative two-way loudspeaker that satisfies a variety of sound reinforcement, down-fill, underbalcony stage edge fill, monitoring, and other applications. The LF drivers and centrally placed 120° HF pattern control horn have been engineered to provide superior uniform pattern over the widest possible bandwidth. The unique molded "Super-V" configuration of the LF drivers provides exceptional uniform midrange coverage that would be impossible to create with a conventional flat wood baffle plate. Precise modeling and documentation prove that woofer/horn/woofer placement in traditional underbalcony fill-type loudspeaker designs exacerbates severe horizontal lobing. The Super-V configuration prevents the collapse of the horizontal coverage pattern throughout its range, especially the critical voicerange, when oriented in its usual horizontal position.

Engineered for permanent installations, the loudspeaker enclosure and faceplate are constructed of hand-laminated multilayer fiberglass composite, resulting in extreme structural strength. A three-layer Weather-Stop™ grille provides weather-resistance to the internal components, while all exposed hardware is stainless steel or powder-coated aluminum. A stainless steel mounting yoke is included.

FEATURES

- · All-weather, multilayer fiberglass composite enclosure with stainless steel hardware
- · Integral mounting points, included mounting yoke
- High power passive crossover and Ferrofluid-cooled drivers
- Available in black or white finishes
- · Powder-coated weather-resistant marine-grade aluminum grille and stainless steel yoke
- · Available with built-in 200W autoformer for 70V/100V applications

TECHNICAL SPECIFICATIONS

Operating Mode	Passive, low impedance model (W2-2W8) or 70V/100V model (W2-2W8T)	
Operating Environment	All conditions, suitable for continuous outdoor direct exposure	
Operating Range	65 Hz to 18 kHz	
Frequency Response	80 Hz - 15 kHz (±3 dB)	
Nominal Beamwidth	120° H x 60° V	
Transducers	LF 2 x 8" (203 mm) carbon fiber HF 1 x 1" (25.4 mm) exit	
Max Input Ratings (8 ohm)	250W continuous, 500W program	
Sensitivity (1W/1m)	97 dB SPL (100 Hz to 13 kHz 1/3 octave bands) 98 dB SPL (250 Hz to 4 kHz speech range)	
Maximum Output	121 dB SPL / 127 dB SPL (peak)	
Nominal Impedance	8 ohms	
Minimum Impedance	4.6 ohms @ 190 Hz	
Crossover Frequency	1 kHz	
W2-2W8T Autoformer Taps	70V Taps: 200W, 100W, 50W, 25W	100V Taps: 200W, 100W, 50W
Required Accessories	Electronic high pass filter (60 Hz, 24 dB/octave)	

PHYSICAL

Input Connection	W2-2W8: 16-2 SJOW (12 ft / 4m)	W2-2W8T: 18-5 SJOW
Mounting Provisions	Two (2) 1/2-13 threaded mounting points; yoke included	
Environmental	IP 55W rated per IEC 60529	
Dimensions H x W x D	10.13 x 20 x 11.5 inches (257 x 508 x 292 mm)	
Weight (with yoke) Unit Weight Shipping Weight	W2-2W8: 40.4 lbs (18.3 kg) 44 lbs (20 kg)	W2-2W8T: 44.4 lbs (20.14 kg) 48 lbs (21.8 kg)
Enclosure	Hand-laminated fiberglass	
Grille	Powder-coated, zinc-plated marine grade aluminum (5052 alloy), black or white finish (three-layer Weather-Stop™)	
Finish	Black or white gelcoat	
Accessories (included)	Mounting yoke	

OPTIONS

Accessories (optional)	PMB-1RR pole mount bracket for a single loudspeaker
	PMB-2RR pole mount bracket for mounting 2 loudspeakers

Recommended signal processing is available at www.biamp.com/community.

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

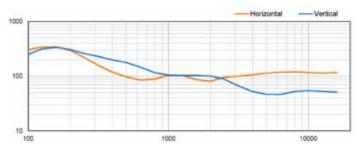
Data presented on this spec sheet represents the basic performance specifications for the model. For a detailed analysis of this loudspeaker's performance, please download the GLL file and/or the CLF file from www.biamp.com.



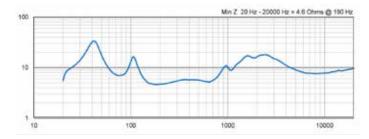
FREQUENCY RESPONSE (dB SPL)

Resolution <500 Hz = 10 Hz, >500 Hz = 40 Hz, 1/8 octave smoothing to 100 100 1000 1000

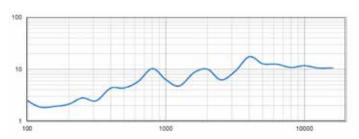
BEAMWIDTH (Degrees)



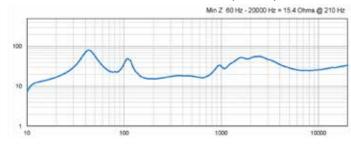
IMPEDANCE (Ohms)



AXIAL Q



IMPEDANCE 100W AUTOFORMER (Ohms)



ARCHITECTS & ENGINEERS SPECIFICATIONS

The loudspeaker shall be a two-way, weather-resistant design with two 8-inch carbon fiber cone woofers with a centrally mounted 1" exit titanium diaphragm HF compression driver mounted to a pattern control horn. The drivers shall be mounted on a one-piece multilayer fiberglass composite baffle. All components shall be connected to an integral crossover at a crossover frequency of 1 kHz. The input connection shall be one 12-foot (4 m) SJOW #16 gauge cable with stripped ends. The loudspeaker enclosure shall be of multilayer fiberglass composite with a powder-coated perforated zinc-plated marine grade aluminum grille backed by weather-resistant material. The enclosure shall contain two integral 1/2-13 threaded mounting points. The system shall meet the following performance criteria: amplitude response of 80 Hz to 15 kHz (±3 dB), 250 watts continuous power handling, 97 dB SPL sensitivity (100 Hz -13 kHz) at 1 meter with 1 watt applied. The nominal system impedance shall be 8 ohms. Nominal horn coverage pattern shall be 120° H x 60° V. Dimensions shall be 10.13 in. (257 mm) high, 20 in. (508 mm) wide and 11.5 in. (292 mm) deep. Warranty shall be 5 years for the loudspeaker system and 15 years for the structural integrity of the enclosure. The loudspeaker shall be Community W2-2W8.



W2-2W8

TECHNICAL DRAWING / DIMENSIONS / FINISH

$H \times W \times D$

10.13" x 20" x 11.5" 257 x 508 x 292 mm

Unit Weight

W2-2W8: 40.4 lbs (18.3 kg) (includes yoke) W2-2W8T: 44.4 lbs (20.14 kg) (includes yoke)

Shipping Weight

W2-2W8: 44 lbs (20 kg) (includes yoke) W2-2W8T: 48 lbs (21.8 kg) (includes yoke)

Grille:

Three-layer Weather-Stop™ powder-coated, zinc-plated marine grade aluminum (5052 alloy)

Enclosure / Finish

Hand-laminated fiberglass with gelcoat finish; White (RAL 9003) or Black (RAL 9005)

