

W2-2W8

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



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) treated paper 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)	

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 voice-range, 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.

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)	W2-2W8: 40.4 lbs (18.3 kg)	W2-2W8T: 44.4 lbs (20.14 kg)
Unit Weight	40.4 lbs (18.3 kg)	44.4 lbs (20.14 kg)
Shipping Weight	44 lbs (20 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
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Recommended signal processing is available at www.biamp.com/community.

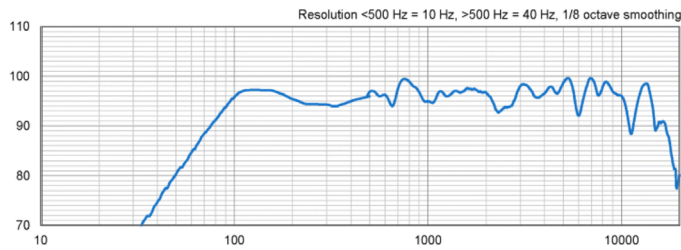
Biamp strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.

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.

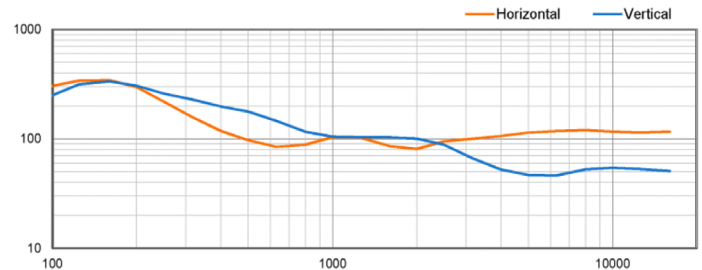
W2-2W8

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WEATHER-RESISTANT LOUDSPEAKER

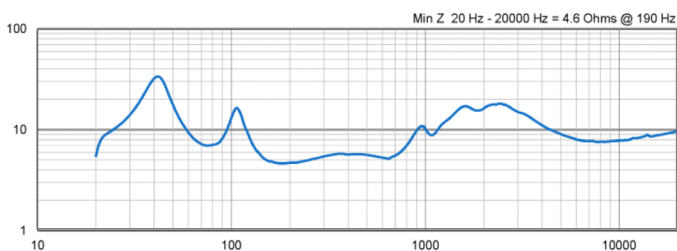
FREQUENCY RESPONSE (dB SPL)



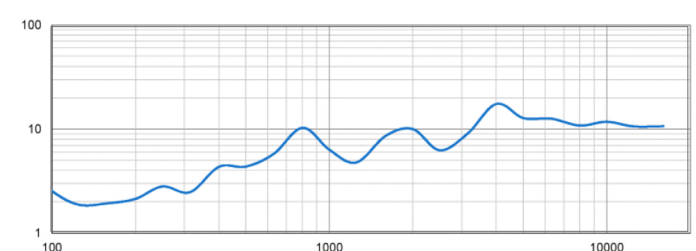
BEAMWIDTH (Degrees)



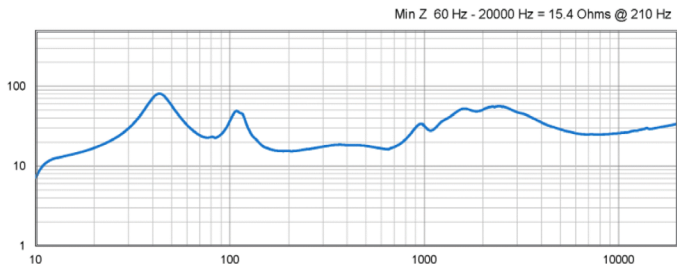
IMPEDANCE (Ohms)



AXIAL Q



IMPEDANCE 100W AUTOFORMER (Ohms)



ARCHITECTS & ENGINEERS SPECIFICATIONS

The loudspeaker shall be a two-way, weather-resistant design with two 8-inch treated paper 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

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TECHNICAL DRAWING / DIMENSIONS / FINISH

H x W x 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

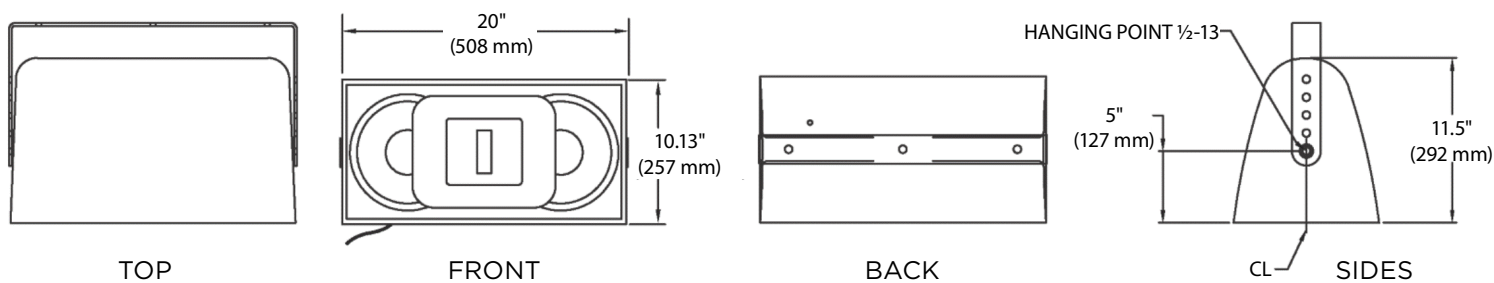
W2-2W8: 44 lbs (20 kg) (includes yoke)
W2-2W8T: 48 lbs (21.8 kg) (includes yoke)

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)



YOKE DETAIL

