

## W SERIES

# W2-2W8

DUAL 8-INCH FULL-RANGE  
TWO-WAY 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. The W2-2W8 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 mid-range 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.

### 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

<b>Loudspeaker Type:</b>	Two-way, full-range
<b>Operating Range:</b>	65 Hz - 18 kHz
<b>Frequency Response:</b>	80 Hz - 15 kHz (±3 dB)
<b>Max Input Ratings (8 ohm):</b>	250W continuous, 500W program
<b>W2-2W8T Autoformer Taps</b>	
<b>70V:</b>	200W, 100W, 50W, 25W
<b>100V:</b>	200W, 100W, 50W
<b>Sensitivity (1W/1m):</b>	97 dB SPL (100 Hz to 13 kHz 1/3 octave bands) 98 dB SPL (250 Hz to 4 kHz speech range)
<b>Maximum Output:</b>	121 dB SPL / 127 dB SPL (peak)
<b>Nominal Impedance:</b>	8 ohms
<b>Minimum Impedance:</b>	4.6 ohms @ 190 Hz
<b>Nominal Coverage:</b>	120° H x 60° V
<b>Crossover Frequency:</b>	1000 Hz
<b>Drivers:</b>	LF 2 x 8" (203 mm) carbon fiber HF 1 x 1" (25.4 mm) exit

### PHYSICAL

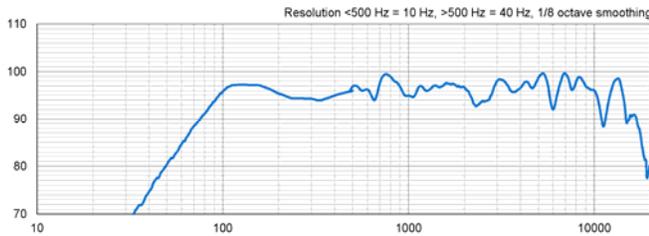
<b>Input Connection:</b>	16-2 SJOW (12 ft / 4m) 18-5 SJOW (T-Version)
<b>Enclosure:</b>	Hand-laminated fiberglass
<b>Finish:</b>	Black or white gelcoat
<b>Mounting / Rigging Provisions:</b>	Two (2) 1/2-13 threaded mounting points; yoke included
<b>Grille:</b>	Powder-coated, zinc-plated marine grade aluminum (5052 alloy), black or white finish (three-layer Weather-Stop™)
<b>Environmental:</b>	IP 55W rated per IEC 60529
<b>Dimensions—Height:</b>	10.13 inches (257 mm)
<b>Width:</b>	20 inches (508 mm)
<b>Depth:</b>	11.5 inches (292 mm)
<b>Weight (with yoke):</b>	40.4 lbs (18.3 kg)
<b>Shipping Weight:</b>	44 lbs (20 kg)

### OPTIONS

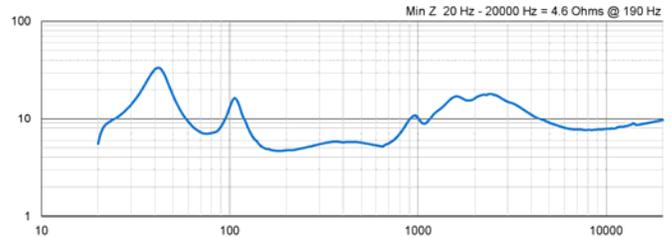
<b>Required Accessories:</b>	Electronic high pass filter (60 Hz, 24dB/octave)
<b>Included Accessory:</b>	Yoke

*Recommended signal processing available at [www.communitypro.com](http://www.communitypro.com).*

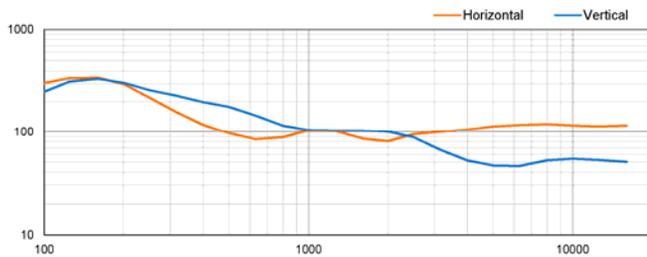
FREQUENCY RESPONSE



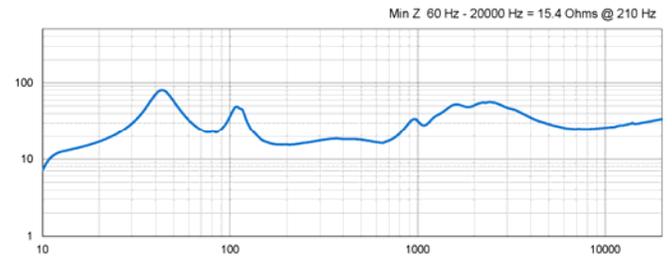
IMPEDANCE



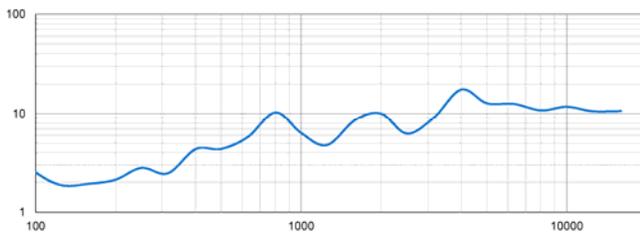
BEAMWIDTH



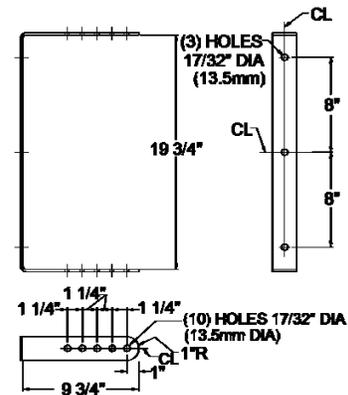
IMPEDANCE (100W AUTOFORMER)



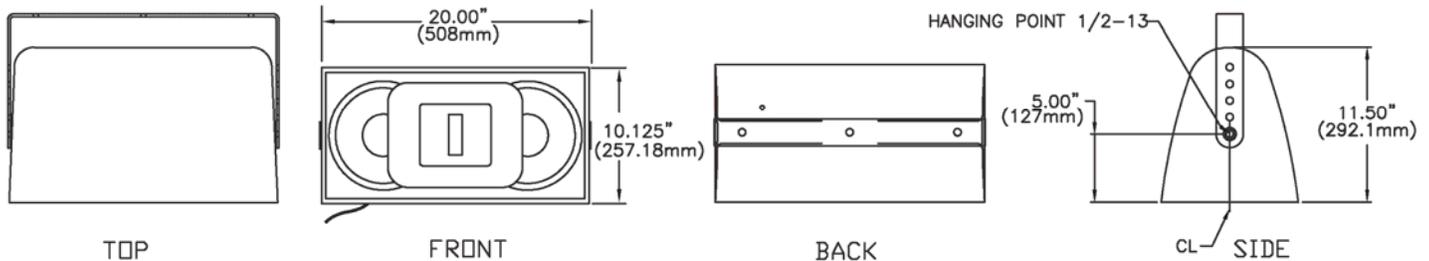
AXIAL Q



YOKE



DIMENSIONS



ARCHITECTURAL 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 ft. (4m) 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 ( $\pm 3$  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, 11.5 in. (292 mm) deep with a weight of 40.4 lbs (18.3 kg).