

# R.5-96MAX HIGH OUTPUT FULL-RANGE 90° X 60° WEATHER-RESISTANT LOUDSPEAKER



## TECHNICAL SPECIFICATIONS

### SYSTEM

<b>Loudspeaker Type:</b>	Full-range, two-way, coaxial, weather-resistant
<b>Operating Range<sup>1</sup>:</b>	70 Hz to 20 kHz (-10 dB)
<b>Frequency Response<sup>1</sup>:</b>	95 Hz to 20 kHz (-3 dB)
<b>Max Input Ratings:</b>	600W RMS, 1200W Program 69 volts RMS, 138 volts momentary peak
<b>Maximum Output<sup>2</sup></b>	without EQ <sup>3</sup> : 130 dB (136 dB Peak) with EQ <sup>4</sup> : 129 dB (135 dB Peak)
<b>Sensitivity (1W / 1m)</b>	102 dB (125 Hz - 10 kHz)
<b>Free Space SPL<sup>3,5</sup>:</b>	103 dB (250 Hz - 4 kHz)
<b>Nominal Impedance:</b>	8 ohms, 4.8 ohms @ 200 Hz minimum
<b>Nominal Beamwidth (-6dB):</b>	90° x 60°, 1.6 kHz to 10 kHz
<b>Axial Q / DI:</b>	13.8/11.4, 1.6 kHz to 10 kHz
<b>Crossover Frequency:</b>	900 Hz
<b>Recommended Processing<sup>6</sup>:</b>	DSP with CONEQ™ power response correction
<b>Recommended Amplifier:</b>	1200W to 1800W at 8 ohms

### TRANSDUCERS

<b>Low Frequency:</b>	1 x 12" inherently weather-resistant cone with neodymium motor and aluminum demodulation ring
<b>High Frequency:</b>	1 x 1.4" exit compression, 2.87" Voice coil

### PHYSICAL

<b>Input Connection:</b>	12 foot (3.6 m) SJOW #16 gauge
<b>Enclosure:</b>	Rotomolded LLDPE plastic
<b>Finish:</b>	Black, White and Light Grey (RAL# 9004, 9003, and 7038)
<b>Mounting/Rigging Provisions:</b>	(5) 3/8"-16 rigging points; Steel zinc-rich epoxy dual-layer powder-coated bracket; Aluminum aiming strap to secure angle
<b>Grille:</b>	3-layer Weather-Stop™ with polyester mesh, foam, zinc-rich epoxy dual-layer powder-coated perforated steel color-matched to enclosure
<b>Environmental:</b>	IEC529 IP55W rating with a minimum 5° down-tilt
<b>Dimensions – H x W x D:</b>	16" x 16" x 16.19" (406 x 406 x 411 mm)
<b>Loudspeaker Unit Weight:</b>	44 lbs (20 kg) loudspeaker only 47 lbs (21.3 kg) with yoke bracket
<b>Shipping Weight:</b>	51 lbs (23.1 kg)

### ACCESSORIES

<b>Pole Mount Bracket:</b>	PMB-1RR or PMB-2RR
<b>400W Transformer:</b>	External 70V - 400W / 200W / 100W 100V - 400W / 200W



### APPLICATIONS

- Stadiums and Arenas
- Racing Tracks
- Theme Parks, Amusement Parks
- Outdoor Entertainment Centers
- Fairgrounds, Rodeos, Air Shows
- Multipurpose outdoor and indoor venues
- Convention Centers
- Portable Sound Systems

### FEATURES

- Low distortion, high quality musicality, excellent speech intelligibility in a compact enclosure
- High sensitivity, high output (130 dB max)
- Weather-resistant, rotomolded UV resistant enclosure
- Weather-resistant grille and drivers, and moisture-sealed crossover
- Corrosion-resistant zinc-rich epoxy dual-layer powder-coated steel grille and yoke
- Integral mounting points
- Light Grey, Black and White finish standard
- Five-year product warranty / Fifteen-year enclosure warranty

### DESCRIPTION

The R.5-96MAX is a two-way, full-range loudspeaker system designed to provide high quality voice and music reproduction in applications requiring extreme weather resistance. It is designed to withstand long-term exposure to tough, environmental conditions and to provide high output performance.

The R.5-96MAX has a 1.4-inch (36 mm) exit HF compression driver and a 12-inch (305 mm) cone 600W neodymium LF driver. The HF assembly is coaxially mounted with the LF driver allowing 90° x 60° coverage with low distortion. The system has been designed to provide a flat response with slightly rising HF.

The R.5-96MAX can act as both a musical entertainment loudspeaker and a voice PA loudspeaker simultaneously. Each system is backed by Community's five-year product warranty and fifteen-year enclosure warranty.

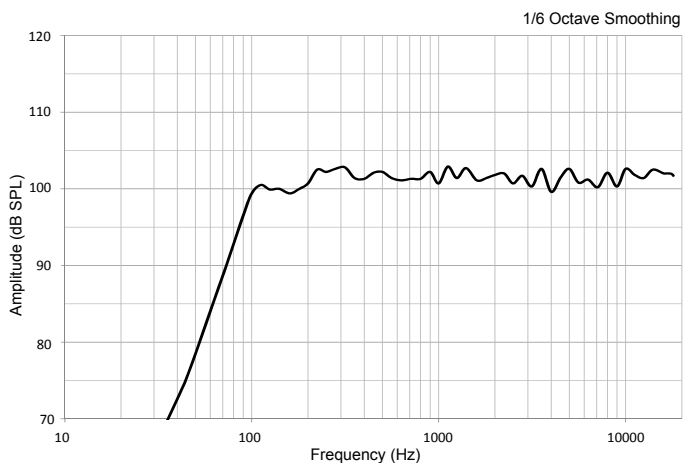
Community strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.

# R.5-96MAX

HIGH OUTPUT FULL-RANGE 90° X 60°  
WEATHER-RESISTANT LOUDSPEAKER

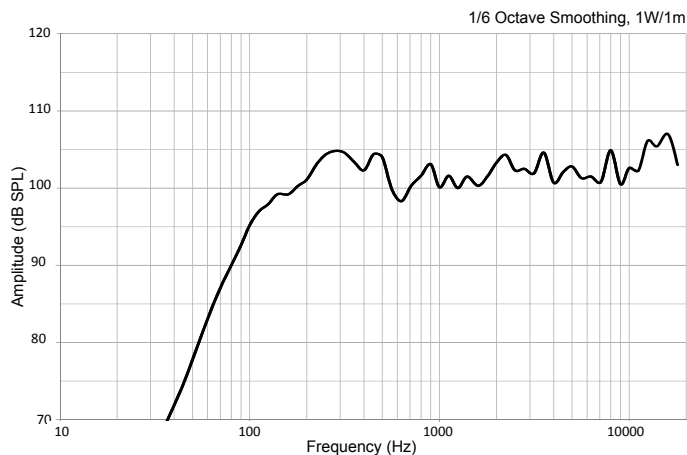


## FREQUENCY RESPONSE (processed\*)

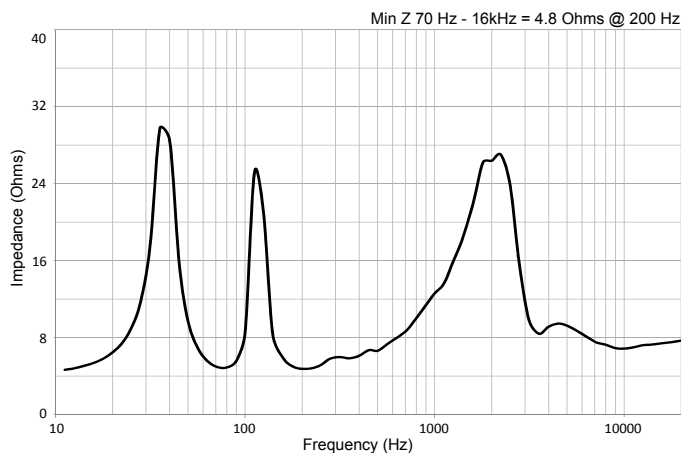


\* Refer to the R-MAX manual for processing details

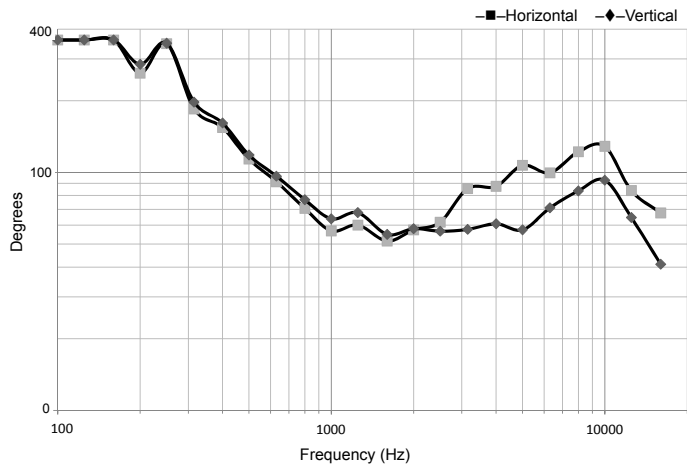
## FREQUENCY RESPONSE (unprocessed)



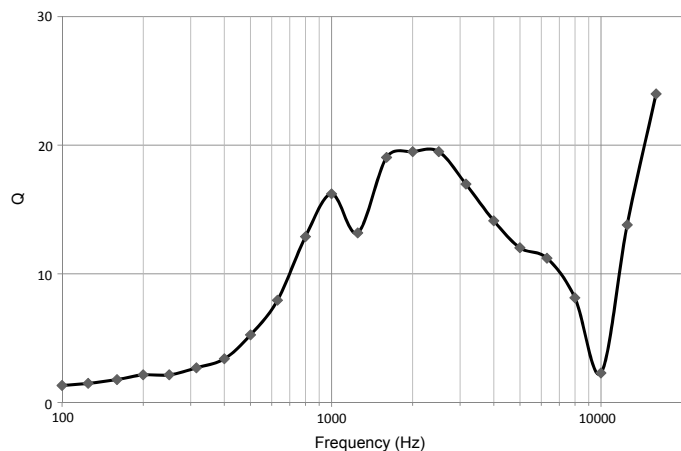
## IMPEDANCE



## BEAMWIDTH



## AXIAL Q



### NOTES:

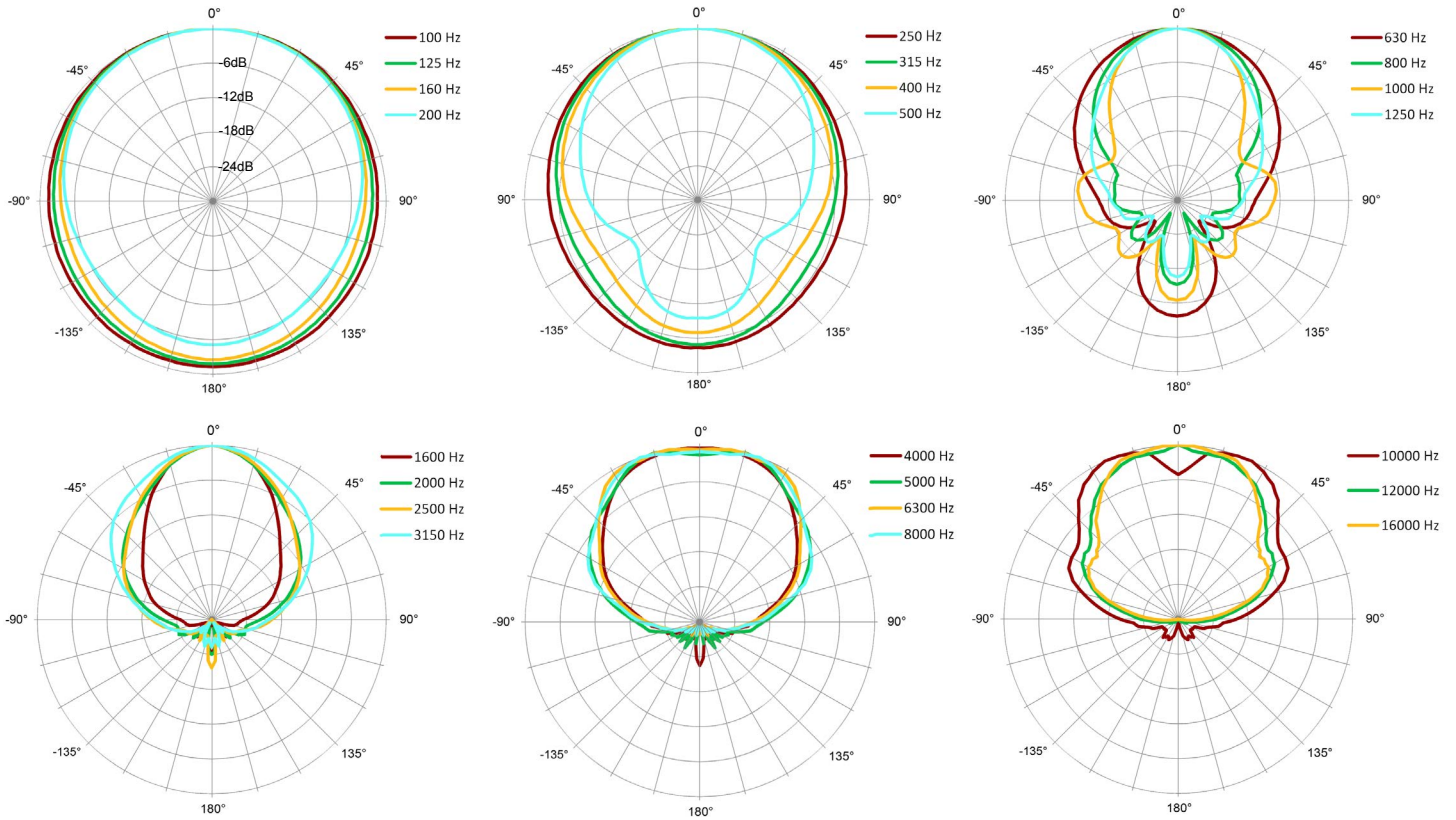
1. Operating range and frequency response parameters are stated with DSP equalization applied.
2. Calculated based on power rating and sensitivity, exclusive of power compression.
3. Raw driver or system response prior to applying any filters for frequency response or power response correction.
4. Recommended equalization as published in the Community Loudspeaker Library within Community's Resyn™ software.
5. Free field anechoic sensitivity, calculated using input voltage that would produce 1W at the nominal impedance.
6. Community's dSPEC226 loudspeaker signal processor DSP and Resyn™ software include CONEQ™ 1000 point FIR filter power response correction filters within the preconfigured speaker file for this model of loudspeaker.

# R.5-96MAX

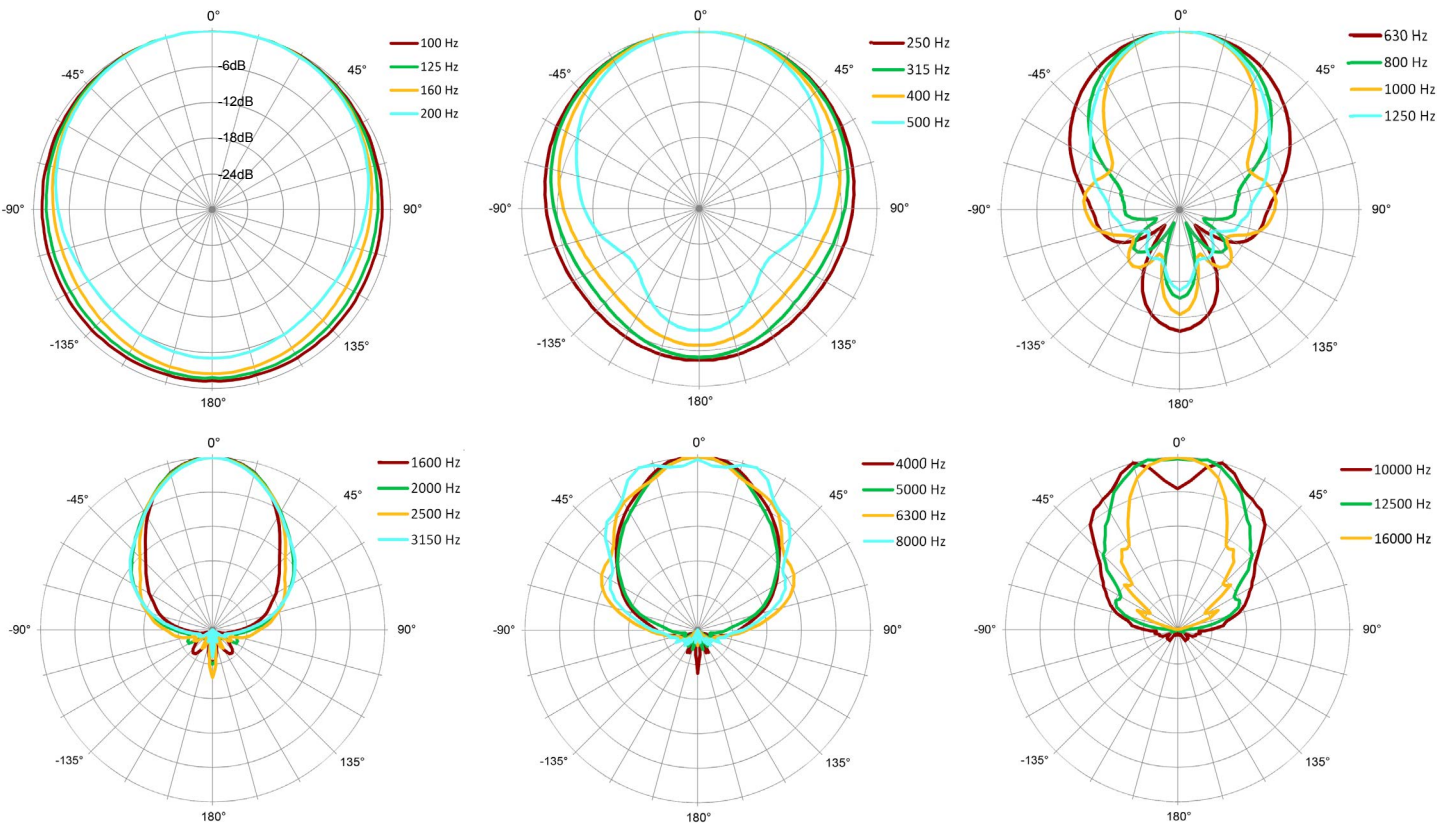
HIGH OUTPUT FULL-RANGE 90° X 60°  
WEATHER-RESISTANT LOUDSPEAKER



## HORIZONTAL POLAR DATA



## VERTICAL POLAR DATA

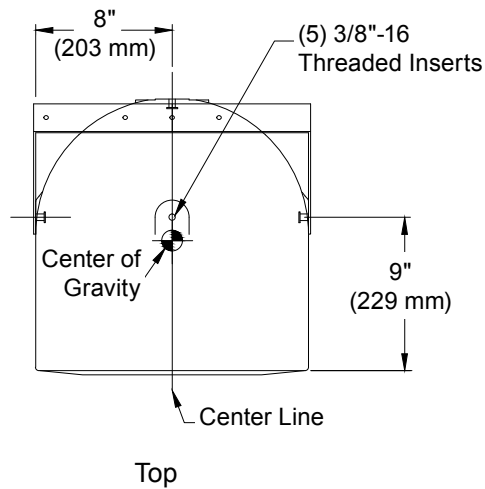


# R.5-96MAX

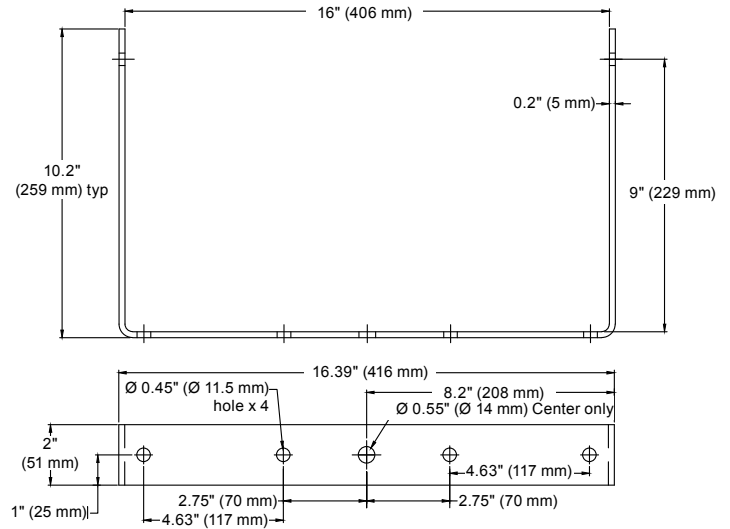
HIGH OUTPUT FULL-RANGE 90° X 60°  
WEATHER-RESISTANT LOUDSPEAKER



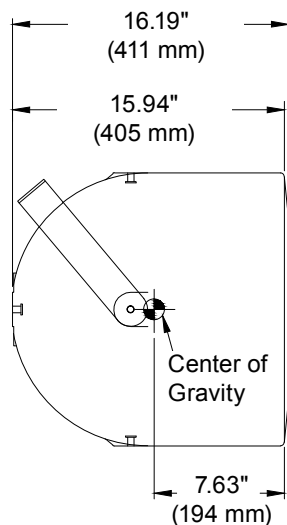
## DIMENSIONS



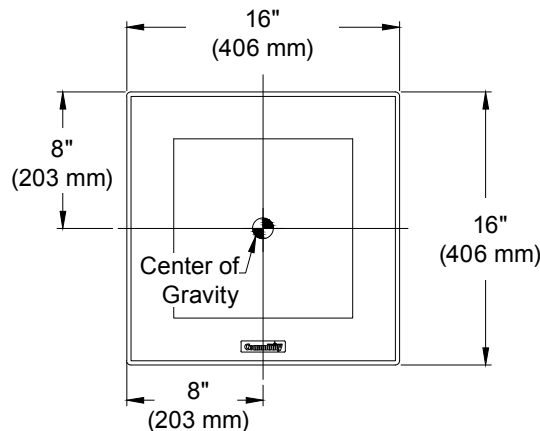
Top



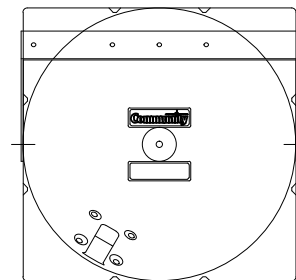
Yoke Dimensions



Sides



Front



Rear

## ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a two-way, full-range design with one 12-inch (305 mm) high-output LF driver and one 1.4-inch (36 mm) exit HF driver coaxially mounted to a 90° x 60° molded ABS horn. Drivers shall be connected to an integral crossover with a crossover frequency of 900 Hz. The input connection shall be one 12' (3.6 m) SJOW #16-gauge cable with stripped ends. The loudspeaker enclosure shall be matte finish rotomolded linear low density polyethylene providing weather and UV resistance with a 1 mm perforated stainless steel grille backed by water-resistant treated polyester mesh and open cell foam. The steel grille shall be powder-coated with a proprietary zinc-rich epoxy dual-layer powder-coating process color-matched to the enclosure. The enclosure shall incorporate five 3/8"-16 rigging points for multiple mounting options. The system shall have an IEC529 IP rating of IP55W with a minimum 5-degree downward aiming angle. The system shall have a frequency response of 95 Hz to 20 kHz (-3 dB SPL) and an input capability of 69V RMS. It shall have a sensitivity of 102 dB (125 Hz - 10 kHz) and 103 dB (250 Hz - 4 kHz) at 1W / 1m at 8 ohms nominal impedance. The nominal dispersion shall be 90°H x 60°V from 1.6 kHz to 10 kHz. The loudspeaker shall be 16 in. (406 mm) H x 16 in. (406 mm) W x 16.19 in. (411 mm) D and weigh 44 lbs (20 kg). A steel yoke that is powder-coated with the same proprietary process, and color-matched, shall be included with the system.

**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.