R.5-66MAX

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

TECHNICAL SPECIFICATIONS

SYSTEM

Loudspeaker Type:	Full-range, two-way, coaxial, weather-resistant
Operating Range[1]:	70 Hz to 20 kHz (-10 dB)
Frequency Response[1]:	95 Hz to 19 kHz (-3 dB)
Max Input Ratings:	600W RMS, 1200W Program 69 volts RMS, 138 volts momentary peak
Maximum Output[2] without EQ[3]: with EQ[4]:	 131 dB (137 dB Peak) 130 dB (136 dB Peak)
Sensitivity (1W / 1m) **Free Space SPL[3,5]:**	103 dB (125 Hz - 10 kHz) 103 dB (250 Hz - 4 kHz)
Nominal Impedance:	8 ohms, 4.8 ohms @ 200 Hz minimum
Nominal Beamwidth (-6dB):	60° x 60°, 1.6 kHz to 10 kHz
Axial Q / DI:	18.7/12.7, 1.6 kHz to 10 kHz
Crossover Frequency:	900 Hz
Recommended Processing[6]:	DSP with CONEQ™ power response correction
Recommended Amplifier:	1200W to 1800W at 8 ohms

TRANSDUCERS

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

PHYSICAL

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

ACCESSORIES

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

Grille off

Light Grey, Black and White (standard)

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 (131 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.5-66MAX 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.5-66MAX 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 60° x 60° coverage with low distortion. The system has been designed to provide a flat response with slightly rising HF.

The R.5-66MAX 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.

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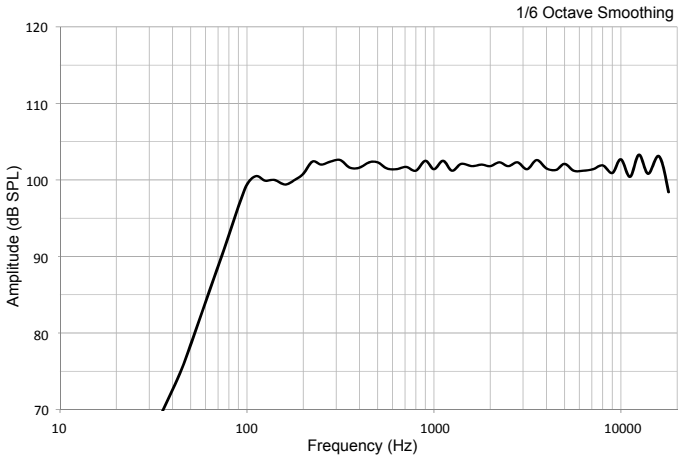
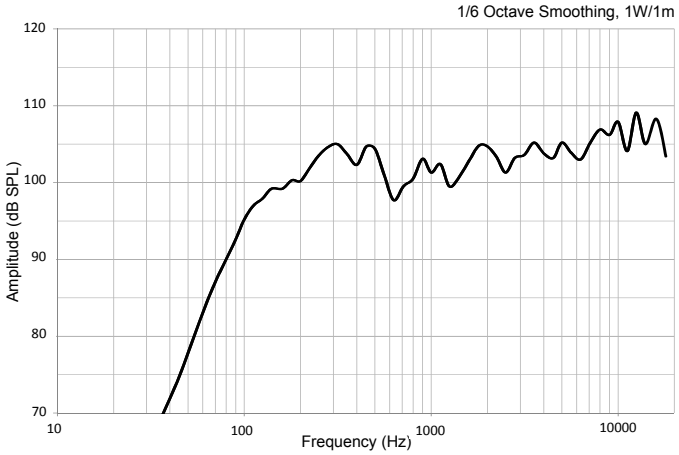
FREQUENCY RESPONSE (processed*)

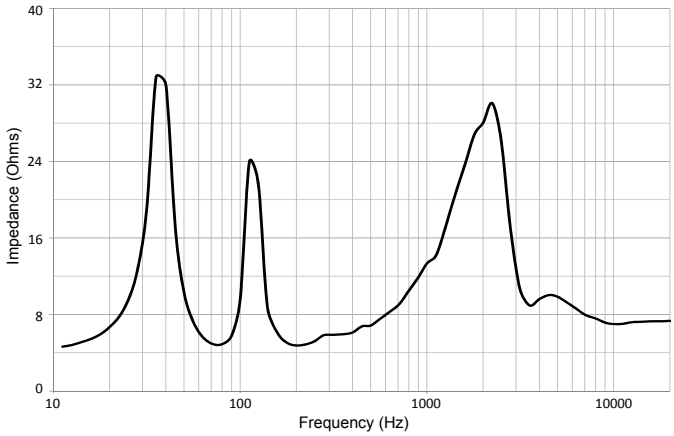


** Refer to the R-MAX manual for processing details*

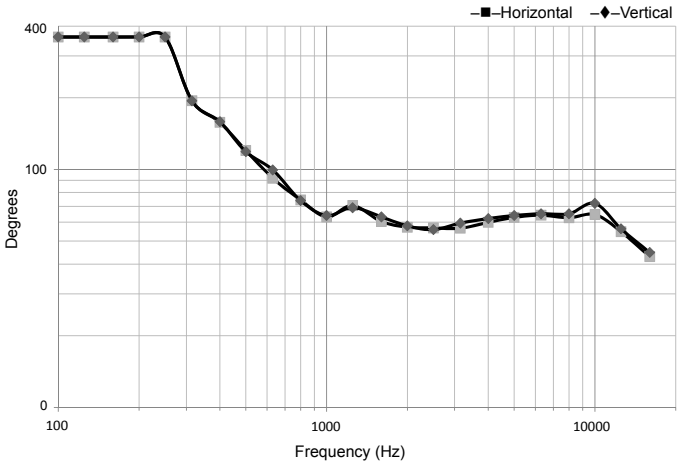
FREQUENCY RESPONSE (unprocessed)



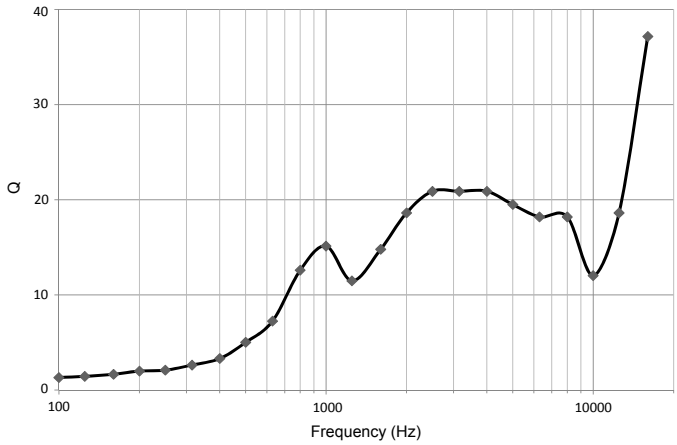
IMPEDANCE



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.*

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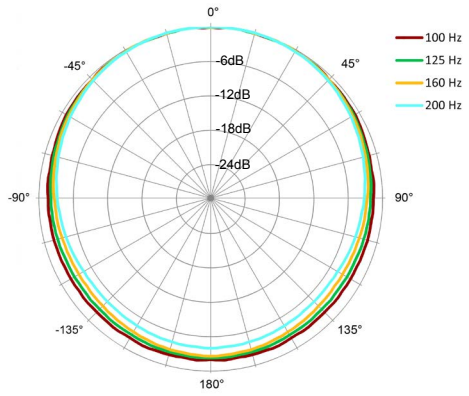
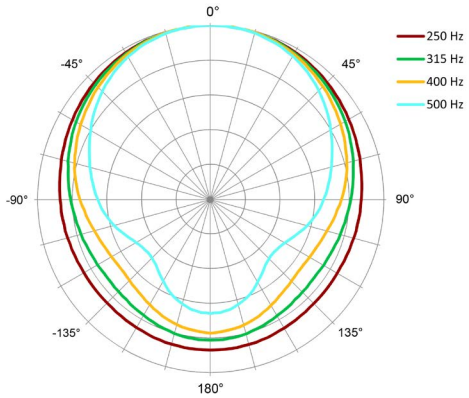
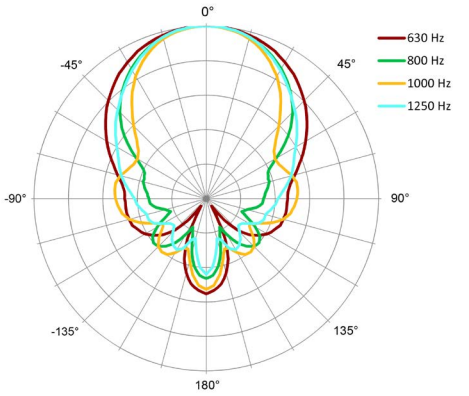
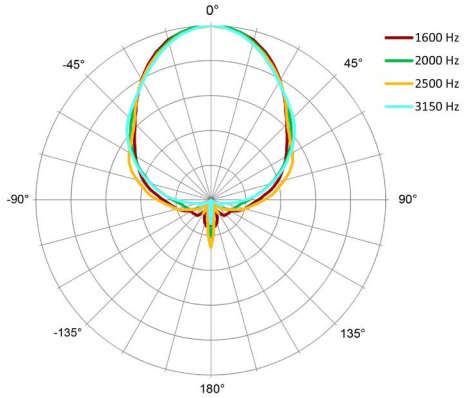
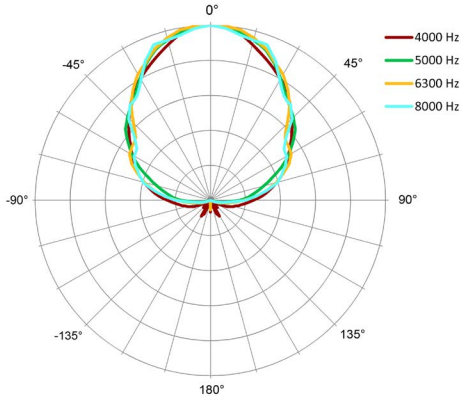
HORIZONTAL POLAR DATA

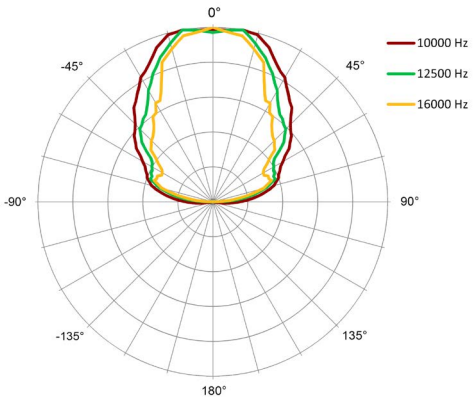




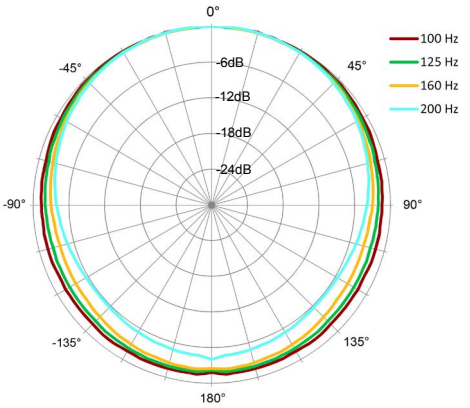


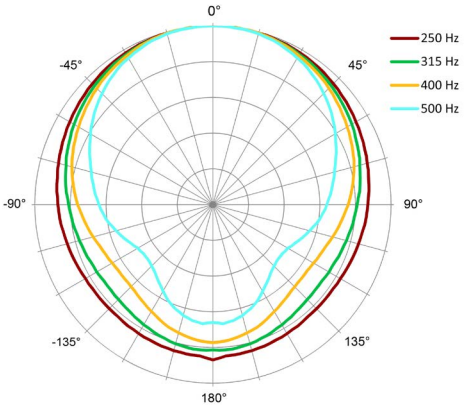


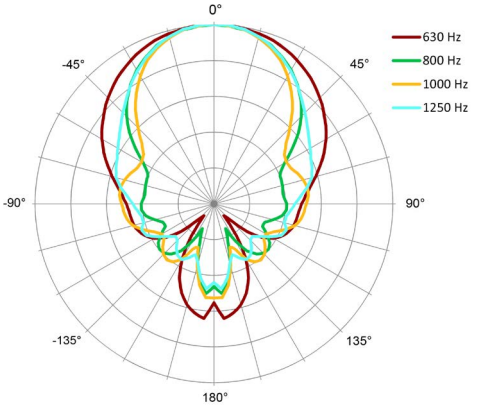


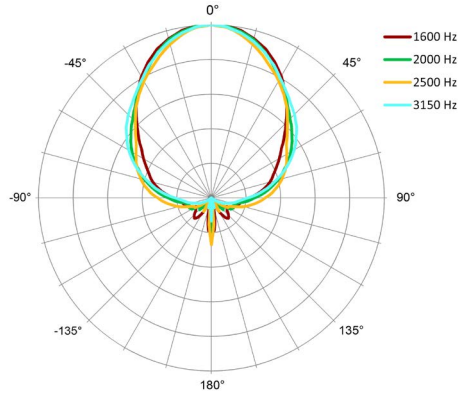


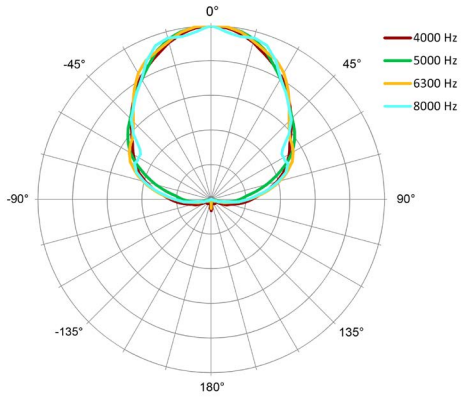
VERTICAL POLAR DATA

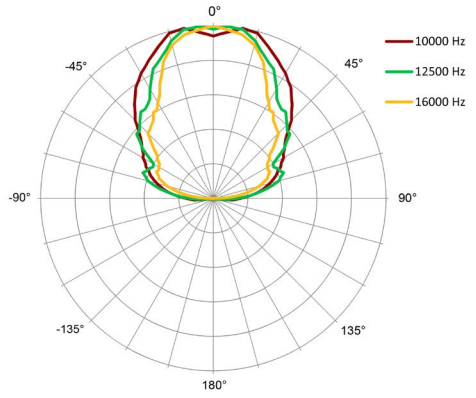












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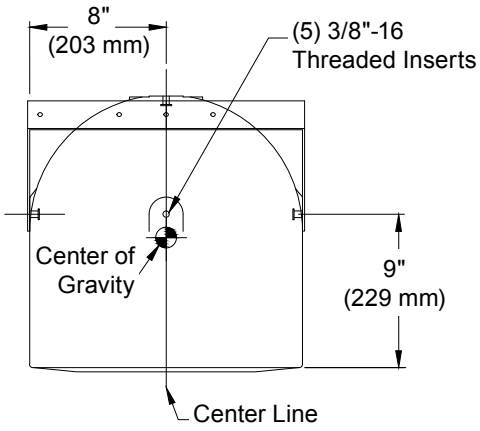
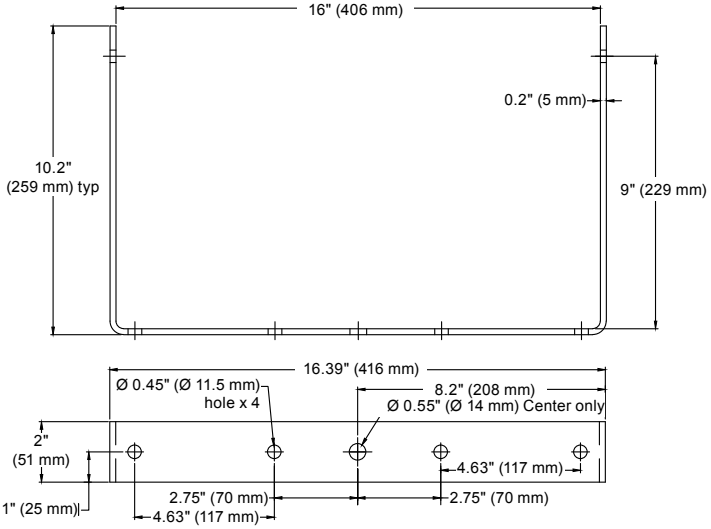
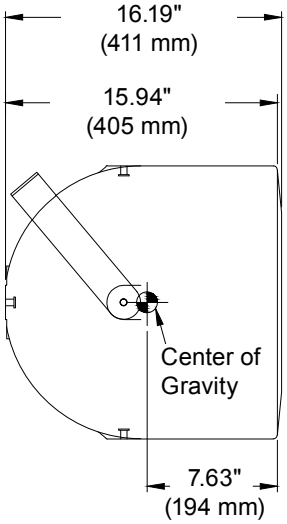
DIMENSIONS



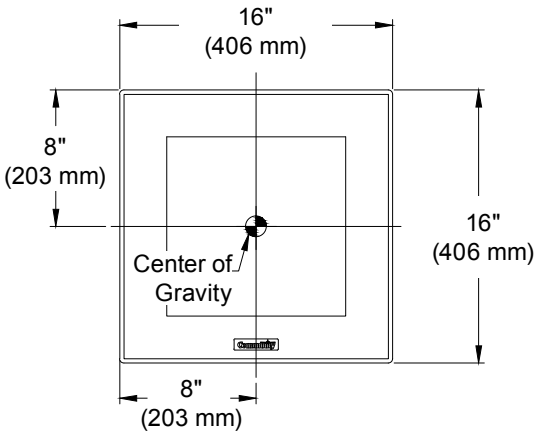
Top



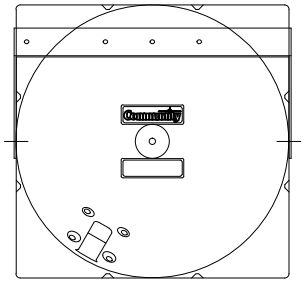
Yoke Dimensions



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 60° 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 19 kHz (-3 dB), an input capability of 69V RMS, and sensitivity of 103 dB (125 Hz - 10 kHz) and 103 dB (250 Hz - 4 kHz) at 1W/1m with a nominal impedance of 8 ohms. The nominal dispersion shall be 60°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 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.*

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