

R.35COAX

TWO-WAY 10-INCH COAXIAL
WEATHER-RESISTANT LOUDSPEAKER



TECHNICAL SPECIFICATIONS

SYSTEM

Loudspeaker Type:	Full-range, two-way, coaxial, weather-resistant	
Operating Range:	70 Hz to 16 kHz (-10 dB)	
Frequency Response:	110 Hz to 12.5 kHz (-3 dB)	
Max Input Ratings:	200W RMS, 400W Program 40 volts RMS, 80 volts momentary peak	
Autoformer Taps—70V:	200W, 100W, 50W, 25W and low impedance	
100V:	200W, 100W, 50W	
	MUSIC	SPEECH
Maximum Output:	120 dB (126dB peak)	122 dB (128dB peak)
Sensitivity (1W / 1m)	97 dB (125 Hz - 10 kHz)	99 dB (125 Hz - 10 kHz)
Free Space SPL:	97 dB (250 Hz - 4 kHz)	99 dB (250 Hz - 4 kHz)
Nominal Impedance:	8 ohms, 5.9 ohms @ 200 Hz minimum	8 ohms, 5.5 ohms @ 5 kHz minimum
Nominal Beamwidth (-6dB):	90° x 90°, 1.6 kHz to 10 kHz	
Axial Q / DI:	10/10, 1.6 kHz to 10 kHz	
Crossover Frequency:	1.3 kHz	
Recommended High Pass:	70 Hz 24 dB / Octave	
Recommended Amplifier:	400W to 600W at 8 ohms	
COAXIAL TRANSDUCERS		
Low Frequency:	1 x 10" Carbon ring NeverWet™ treated cone, 2" VC	
High Frequency:	1 x 1.25" exit compression	

PHYSICAL

Input Connection:	NL4 Speakon-type connector for low impedance operation only; and 7-position terminal strip for low impedance or constant voltage operation
Controls:	Music / speech switch, 70V/100V operation jumper
Enclosure:	ABS plastic, matte finish, paintable
Finish:	Light Grey, Black or White (standard) RAL # 7038, 9004 or 9003
Mounting/Rigging Provisions:	Two M8 rigging points, zinc-rich epoxy dual-layer powder-coated yoke, included integral safety cable mounting point
Grille:	3-layer Weather-Stop™ featuring NeverWet™ treated polyester mesh, foam, zinc-rich dual-layer powder-coated perforated steel color-matched to enclosure
Input Panel Weather Cover:	Color-matched ABS plastic with 13.5mm ID gland nut installed in .82" knockout
Environmental:	IP55W per IEC 529 at recommended 5° down-tilt, designed to MIL-STD-810G
Dimensions – H x W x D:	11" x 13" x 13.5" (279 x 330 x 343 mm)
Loudspeaker Unit Weight:	26 lbs (11.8 kg) with included yoke
Shipping Weight:	32 lbs (14.5 kg)

ACCESSORIES

Vari-Tilt™ Yoke:	R-VTY35. Provides pan-tilt aiming functions. Zinc-rich epoxy dual-layer powder-coated steel with SS hardware, color-matched to loudspeaker.
Full Rotation Yoke:	R-FRY35. Provides full rotation mounting capability for down-firing application (i.e. top of press box). Zinc-rich epoxy dual-layer powder-coated steel with SS hardware, color-matched to loudspeaker.

NOTE: All wattage figures are calculated using the rated impedance.

* NeverWet is a registered trademark of NeverWet, LLC.

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



Shown with grille removed

Available in Light Grey,
Black or White (standard)

APPLICATIONS

- Theme and Amusement Parks
- Outdoor Entertainment Centers
- Malls, Fairgrounds, Race Tracks
- Multipurpose Indoor/Outdoor Venues
- Stadiums and Arenas
- Swimming pools
- Athletic Fields
- Convention Centers
- Cruise Ships
- Factories

FEATURES

- Excellent musicality and intelligibility, low distortion, and high sensitivity and output
- Weather-resistant, compact, matte finish paintable high impact ABS plastic modified-trapezoidal enclosure
- NeverWet™ treated grille and LF driver cones, polymer HF diaphragm, and moisture-sealed crossover
- Corrosion-resistant zinc-rich epoxy dual-layer powder-coated steel grille and low-profile yoke
- Real compression driver on Tru-Phase™ waveguide
- 200W Autoformer (standard)
- Structurally rigid with weather sealed wood inserts to reduce resonance and rear radiation
- Light Grey, Black and White finish standard - Custom colors available upon request.
- Five-year product warranty / Fifteen-year enclosure warranty

DESCRIPTION

The R.35COAX 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 performance normally associated only with indoor loudspeakers. The R.35COAX has a 1.25-inch (32mm) exit HF compression driver and a 10-inch (254mm) cone LF driver with a 2-inch voice coil. The HF assembly is coaxially mounted with the LF driver allowing 90° conical coverage with low distortion. The carbon ring cone design provides a cone area nearly equivalent to a typical 12-inch driver cone.

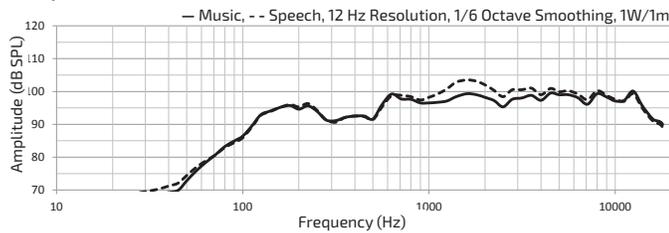
The Music / Voice switch provides an out-of-the-box selectable flat response or 3dB boost for increased vocal intelligibility allowing for additional application flexibility. The design uses Community's proprietary Tru-Phase™ phase plug to provide wide dispersion, low distortion and increased intelligibility. The LF driver cone is treated with the same NeverWet™ protection as the grille cloth to provide full weather-resistance. Enclosure has a reinforced ribbed interior with weather-treated wooden inserts to reduce resonance, increase rigidity and reduce rear and lateral radiation.

R.35COAX

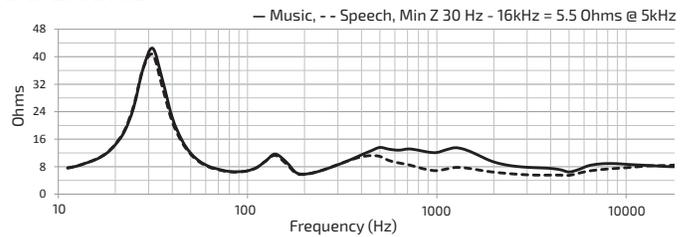
TWO-WAY 10-INCH COAXIAL
WEATHER-RESISTANT LOUDSPEAKER



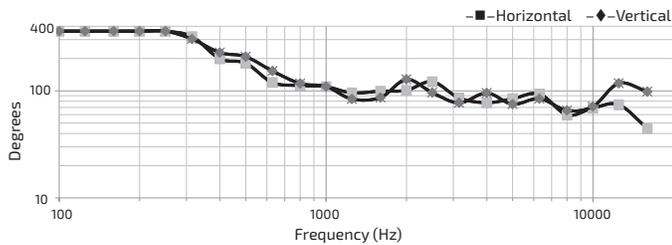
FREQUENCY RESPONSE



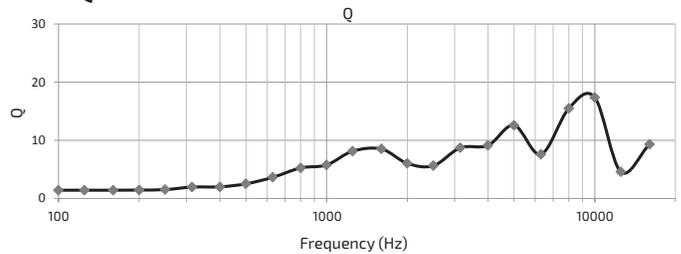
IMPEDANCE



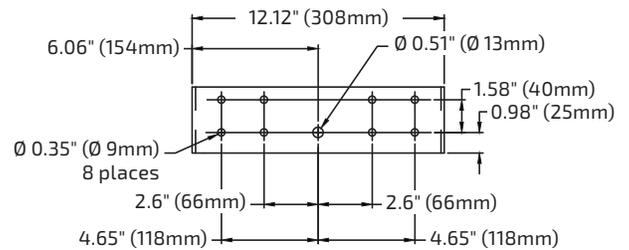
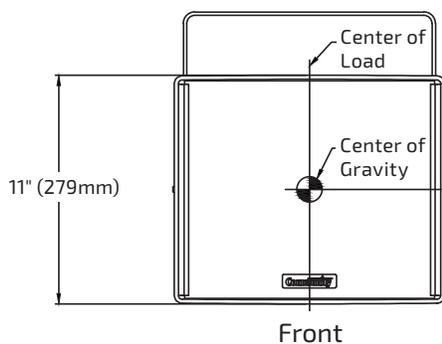
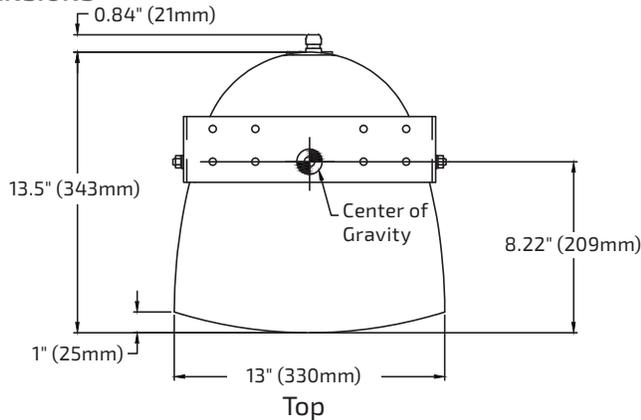
BEAMWIDTH - MUSIC



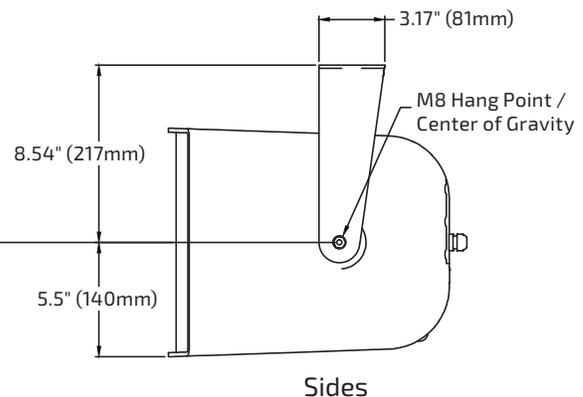
AXIAL Q - MUSIC



DIMENSIONS



Yoke Hole Dimensions



ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a two-way, full-range modified trapezoidal design with one 10-inch (254mm) high-output LF driver and one 1.25-inch (32mm) exit HF driver mounted coaxially. Drivers shall be connected to an integral crossover with a crossover frequency of 1.3 kHz. The input connections shall be an NL4-type connector and a 7-position terminal strip for standard or autoformer tap operation. There is also a 2-position switch for voice or music applications. The loudspeaker enclosure shall be matte finish high impact ABS plastic with a 1mm perforated steel grille backed by NeverWet™ treated polyester mesh and open cell foam. There shall be two M8 rigging points, and an included steel dual-layer powder-coated mounting yoke. Integrated ribbing and weather-sealed wooden inserts provide added structural support and reduce rear and lateral radiation. The system shall have a frequency response of 110 Hz to 12.5 kHz (-3 dB SPL) and an input capability of 40V RMS. At the music setting, it shall have a sensitivity at 1W / 1m, 8 ohms nominal impedance, of 97 dB (125 Hz - 10 kHz) and 97 dB (250 Hz - 4 kHz). At the voice setting, it shall have a sensitivity at 1W / 1m, 8 ohms nominal impedance, of 99 dB (125 Hz - 10 kHz) and 99 dB (250 Hz - 4 kHz). The nominal dispersion shall be 90° H x 90° V from 1.6 kHz to 10 kHz. The loudspeaker shall be 11" (279mm) H (front) x 13" (330mm) W x 13.5" (343mm) D and shall weigh 26 lbs (11.8 kg) with the included mounting yoke.

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.