## R.35-3896 THREE-WAY FULL-RANGE (90° X 60°) WEATHER-RESISTANT LOUDSPEAKER



### TECHNICAL SPECIFICATIONS

SYSTEM		
Loudspeaker Type:	Full-range, three-way, triaxial, weather-resistant	
Operating Range:	80 Hz to 16 kHz (-10 dB)	
Frequency Response:	120 Hz to 12.5 kHz (-3 dB)	
Max Input Ratings:	400W RMS, 800W Program 56 volts RMS, 113 volts momentary peak	
Autoformer Taps—70V: 100V:	200W, 100W, 50W, 25W and low impedance 200W, 100W, 50W	
	MUSIC	SPEECH
Maximum Output:	124 dB (130 dB peak)	126 dB (132 dB peak)
	98 dB (125 Hz - 10 kHz) 97 dB (250 Hz - 4 kHz)	100 dB (125 Hz - 10 kHz) 99 dB (250 Hz - 4 kHz)
Nominal Impedance :	8 ohms, 6 ohms @ 9 kHz minimum	8 ohms, 4.1 ohms @ 8 kHz minimum
Nominal Beamwidth (-6dB):	90° x 60° , 1.6 kHz to 10 kHz	
	11.6/10.7, 1.6 kHz to 10 kHz	
Crossover Frequency:	850 Hz, 2.7 kHz	
Recommended High Pass:	80 Hz 24 dB / Octave	
Recommended Amplifier :	800W to 1200W at 8 ohms	
TRIAXIAL TRANSDUCERS		
	1 x 8" Carbon ring NeverWet™* treated cone, 3" VC	
	2 x 2.35" MultiSource Waveguide™ compression	
High Frequency:	1 x 1" 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	
	Two M8 rigging points, zinc-rich epoxy DLPC yoke, included integral safety cable mounting point	
Grille:	3-layer Weather-Stop™ featuring NeverWet™ treated polyester mesh, foam, zinc-rich DLPC 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 the 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:	34 lbs (15.4 kg) with included yoke	
Shipping Weight:	40 lbs (18.1 kg)	
ACCESSORIES		
Vari-Tilt™ Yoke:	R-VTY35. Provides pan-tilt aiming; color-matched zinc-rich epoxy DLPC steel with SS hardware	
Full Rotation Yoke:	R-FRY35. Provides full rotation mounting capability for down-firing application (i.e. top of press box); zinctich provy DLBC stool with SS hardware.	



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 Cruise Ships
- · Stadiums and Arenas
- Factories

· Swimming pools · Athletic Fields

· Convention Centers

#### **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 and MR diaphragms, and moisture-sealed crossover
- · Corrosion-resistant zinc-rich epoxy dual-layer powdercoated (DLPC) steel grille and low-profile yoke
- Innovative MultiSource Waveguide™ (MSW) horn design for high frequency and dual midrange drivers
- 200W autoformer (standard)
- · Light Grey, Black and White finish standard. Custom colors available upon request
- · Five-year product warranty / Fifteen-year enclosure warrantv

### DESCRIPTION

The R.35-3896 is a fully horn-loaded triaxial three-way, fullrange loudspeaker system designed to provide high quality voice and music reproduction in applications requiring extreme weather resistance. It is designed to withstand longterm exposure to tough, environmental conditions and to provide musical performance normally only associated with indoor loudspeakers. The R.35-3896 features Community's innovative MultiSource Waveguide™ horn design; the output from the dual midrange compression drivers and 1-inch exit HF driver are combined seamlessly into a single timecoherent source, resulting in excellent musicality, intelligibility and dispersion consistency. The high output, 3-inch voice coil, 8-inch carbon ring cone LF driver features a flange-less frame design that permits a cone area nearly equivalent to a typical 10-inch driver, resulting in high sensitivity and increased LF extension. The low LF/MR passive crossover point results in improved mid-range pattern control and elimination of horn coloration in the LF response.

The Music / Voice switch allows for additional application flexibility. The "Music" setting provides an out-of-the-box flat response and selecting "Voice" provides up to a 5dB boost for increased vocal projection and intelligibility. The LF cone is treated with the same NeverWet™ coating as the grille cloth to ensure trouble-free performance in the harshest conditions.

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

rich epoxy DLPC steel with SS hardware

**400W Transformer:** TRC400-8. Transformer for 70V and 100V lines; 400W @ 8 ohms; taps for full, 1/2, 1/4 and 1/8 power.

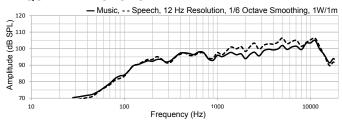
Community strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.

<sup>\*</sup> NeverWet is a registered trademark of NeverWet, LLC.

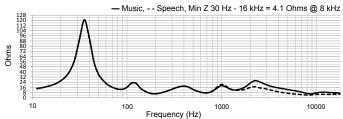
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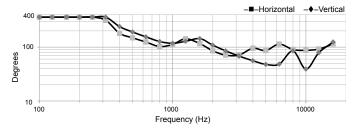




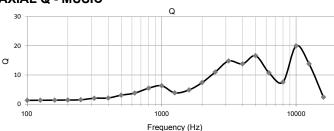
### **IMPEDANCE**



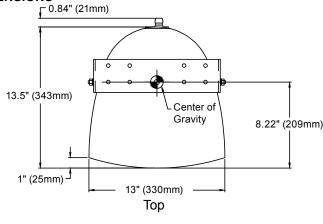
### **BEAMWIDTH**

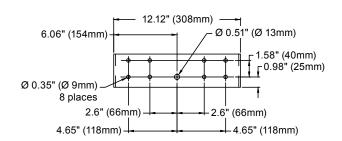


### **AXIAL Q - MUSIC**



### **DIMENSIONS**



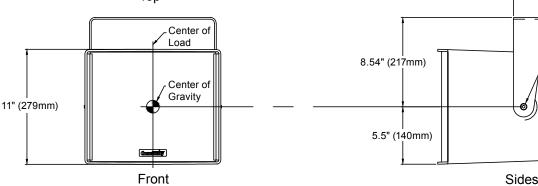




3.17" (81mm)

M8 Hang Point /

Center of Gravity



### **ARCHITECTURAL SPECIFICATIONS**

The loudspeaker system shall be a three-way, full-range modified trapezoidal design with one 8-inch (203mm) high-output LF driver mounted triaxially behind a MultiSource Waveguide™ horn containing one 1-inch exit HF compression driver and two 2.35-inch midrange compression drivers. Drivers shall be connected to an integral crossover with crossover frequencies of 850 Hz and 2.7 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. The LF horn and cabinet shell are internally fused to create a monolithic, extremely rigid, resonance-free enclosure. The system shall have a frequency response of 120 Hz to 12.5 kHz (-3 dB SPL) and an input capability of 56V RMS. At the music setting, it shall have a sensitivity at 1W / 1m, 8 ohms nominal impedance, of 98 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 100 dB (125 Hz - 10 kHz) and 99 dB (250 Hz - 4 kHz). The nominal dispersion shall be 90° H x 60° 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 34 lbs (15.4 kg) including the 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.