

SPECIFICATIONS

Loudspeaker Type:	3-way horn loaded triaxial, weather-resistant
Operating Range:	50 Hz to 16 kHz 50 Hz to 16 kHz (±4 dB)
Max Input Ratings:	LF - 1200W continuous, 3000W program 69 volts RMS, 155 volts momentary peak MF/HF - 450W continuous, 1100W program 60 volts RMS, 133 volts momentary peak
Recommended Power Amplifier:	LF - 2500W to 3600W @ 4 ohms MF/HF - 900W to 1400W @ 8 ohms
Sensitivity (1W/1m):	LF - 109 dB SPL (50 Hz - 630 Hz 1/3 octave bands) MF/HF - 113 dB SPL (630 Hz - 16 kHz 1/3 octave bands) 114 dB SPL (250 Hz - 4 kHz speech range)
Maximum Output:	138 dB SPL / 145 dB SPL (peak)
Nominal Impedance:	LF - 4 ohms MF/HF - 8 ohms
Minimum Impedance:	LF - 2.9 ohms @ 320 Hz MF/HF - 3.8 ohms @ 7610 Hz
Nominal -6dB Beamwidth:	50° H (+6° / -16°, 1.6 kHz to 16 kHz) 10° V (+9° / -3°, 1.6 kHz to 16 kHz) 100° H x 100° V (200 Hz)
Axial Q / DI:	56.8 / 17.5 (1.6 kHz to 16 kHz)
Crossover Frequency:	600 Hz (bi-amp) / 4 kHz (passive)
Recommended Signal Processing:	LF - 40-600 Hz Bandpass MF/HF - 600 Hz Highpass
Drivers:	LF - 6 x 12" weather-treated, Ferrofluid-cooled MF - 6 x M200 2" exit, non-metallic diaphragm, HF - 6 x 1" exit, titanium diaphragm
Driver Protection:	None
Input Connection:	(2) 16-2 SJOW (12 ft / 4m)
Controls:	None
Enclosure:	Hand-laminated fiberglass, light grey gelcoat
Mounting/Rigging Provisions:	(4) 1/2-13 rigging points, (10) 5/16" flange holes
Grille:	3-layer Weather-Stop™ grille, black finish
Required Accessories:	Digital Signal Processor
Supplied Accessories:	None
Optional Accessories:	None
Dimensions—Height:	49 inches (1245 mm)
Width:	37 inches (940 mm)
Depth:	43.5 inches (1105 mm)
Weight :	318 lbs (144.3 kg)
Shipping Weight:	369 lbs (167.4 kg)

NOTES:

- Sensitivity: Free field pink noise measurement at 40 ft (12.2 m) at 25% power; extrapolated to 1 meter and an input of 2 volt LF, 2.83 volt MF/HF RMS.



APPLICATIONS

- Stadiums
- Arenas
- Race courses
- Athletic fields
- Concerts

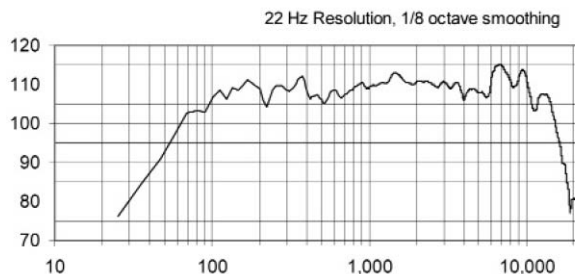
FEATURES

- Fiberglass enclosure
- Good pattern control to below 200 Hz
- High efficiency
- Integral mounting points
- High power passive mid-high crossover
- Five-year product warranty / Fifteen-year enclosure warranty

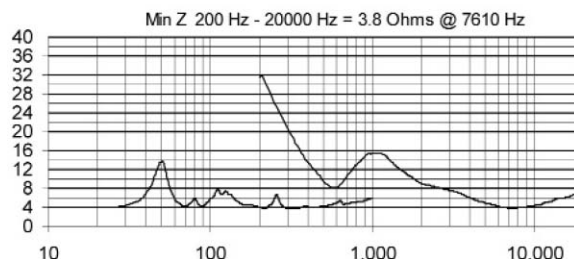
DESCRIPTION

The R6-51 three-way full-range loudspeaker system is engineered to provide quality full-range long throw sound projection in a variety of outdoor and indoor applications. Its very high output, wide range, smooth frequency response, and high efficiency ensures both high fidelity music reproduction and superb projection of clear intelligible speech with very low distortion. The system is configured for bi-amplification for an active crossover for the LF to MF/HF sections and has a passive crossover for the MF to HF sections. The R6-51 is an extremely capable system using an innovative all horn loaded design of multiple driver vertical line arrays. The resulting output and coverage pattern is ideal for applications requiring high impact, long throw full-range performance.

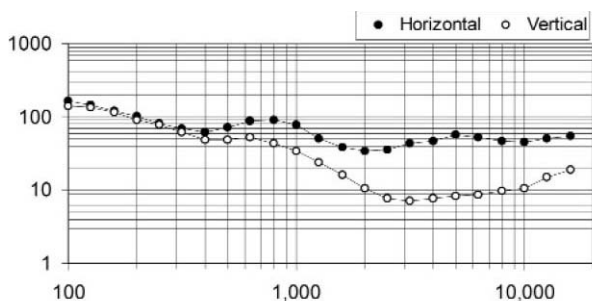
FREQUENCY RESPONSE



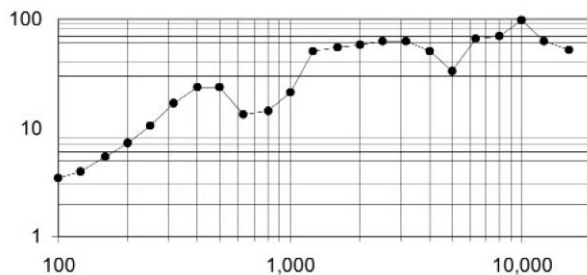
IMPEDANCE



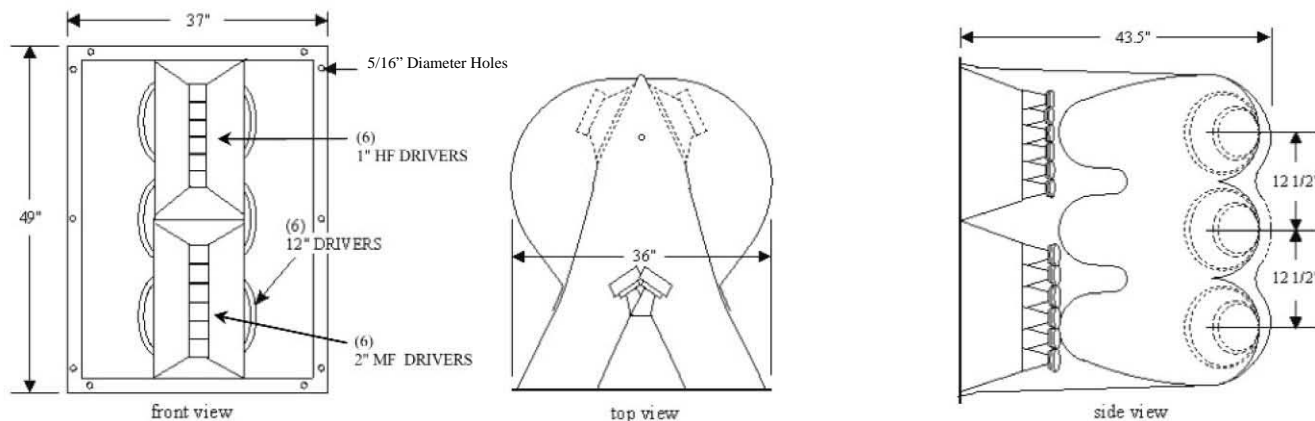
BEAMWIDTH



AXIAL Q



DIMENSIONS



ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a horn-loaded, three-way, full-range tri-axial design with six 12" Ferrofluid-cooled woofers, six 2" exit Ferrofluid-cooled midrange compression drivers with a non-metallic diaphragm, and six 1" exit HF drivers with a titanium diaphragm. Drivers shall be connected to an integral crossover with crossover frequencies of 600 Hz (bi-amp) and 4 kHz (passive). The input connection shall be two 16-2 12-foot (4m) SJOW Cable with stripped ends, one for LF and one for HF/MF. The loudspeaker enclosure shall be an integral double-wall weather-sealed gray fiberglass enclosure with a 16 gauge perforated steel grille backed by open cell foam and a 100 x 100 wire sq. in. stainless steel mesh. There shall be four 1/2 - 13 integral threaded mounting points. The system shall have an amplitude response of 50 Hz to 16 kHz (+/- 4 dB), LF input capability of 69V RMS, LF sensitivity of 109 dB at one meter / 2V and 4 ohms nominal impedance; MF/HF input capability of 60V RMS, MF/HF sensitivity of 113 dB at one meter / 2.83V and 8 ohms nominal impedance. The nominal dispersion shall be 50°H x 10°V from 1.6 kHz to 16 kHz. The loudspeaker shall be 49 in. (1245 mm) H x 37 in. (940 mm) W x 43.5 in. (1105 mm) D and weigh 318 lbs. (144.3 kg).

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