

SPECIFICATIONS:

Enclosure:
 Prosys™ 112

Frequency Response, 1 Meter on Axis, Swept Sine Averaged Across Operating Bandwidth in Anechoic Environment:
 55 Hz-18 kHz +/- 3 dB

Low Frequency Limit (-3 dB point):
 55 Hz

Usable Low Frequency Limit (-10 dB point):
 50 Hz

Power Handling:
 150 watts continuous of built-in amplifier power (0.5 volts RMS) input

Sound Pressure Level, 1 Watt at 1 Meter, Swept Sine Input in Anechoic Environment:
 96 dB

Maximum Sound Pressure Level:
 116 dB

Radiation Angle Measured at -6 dB Point of Polar Response, Swept Sine Input:

Horizontal Plane:	Vertical Plane:
250-500 Hz 140°	250-500 Hz 180°
500-10,000 Hz 100°	500-10,000 Hz 130°
10,000-16,000 Hz 75°	10,000-16,000 Hz 55°

Directivity Factor Q, 500 Hz —16,000 Hz Median:
 6.2 (+8.1, -3.7)

Directivity Index D_i, 500—16,000 Hz Median:
 7.9 dB (+2.8 dB, -3.9 dB)

Transducer Complement:
 One 12" heavy duty special design woofer, one 6½" flared-cone, closed-back

midrange driver and the Peavey CDH™-90 90° H x 40° V constant directivity horn tweeter

Box Tuning Frequency (F_{box}):
 55 Hz (6th order alignment)

Crossover Frequency:
 450 Hz and 5 kHz (electro-acoustic crossover points)

Crossover Type:
 Passive

Electrical Crossover Slope:
 12 dB/octave low pass to woofer
 6 dB/octave high pass to midrange
 12 dB/octave low pass to midrange
 12 dB/octave high pass to tweeter

Impedance (Nominal):
 4 ohms*

Impedance (Minimal):
 3.2 ohms*

*No external speaker system access

Input Connections:
 Two paralleled ¼" phone jacks, balanced type (can be used unbalanced) and a balanced pair of XLR connectors: one male, one female for IN/OUT connections

Enclosure Materials and Finish:
 A combination of 7 ply and 5 ply ¾" high density plywood, reinforced with metal corners, covered in rugged Tolex®. Drivers are protected by a black perforated metal grille.

Mounting:
 SA-1 stand adaptor built-in, also 4 rubber feet

Dimensions:
 22½" (57.2 cm) H x 16¾" (42.6 cm) W x 13¾" (34.6 cm) D

Net Weight:
 67 lbs

INPUT SPECIFICATIONS

Input Impedance:
 Greater than 100K ohms

CMRR:
 Greater than 40 dB @ 120 Hz

AMPLIFIER SPECIFICATIONS

Frequency Response:
 +0, -1 dB from 10 Hz to 40 kHz at 150W into 4 ohms

Slew Rate:
 40V/uS into 4 ohms

Damping Factor:
 200 @ 1 kHz into 4 ohms

THD:
 Less than 0.2%, 100mW to 150W RMS, 10 Hz to 20 kHz @ 4 ohms; typically below 0.1%

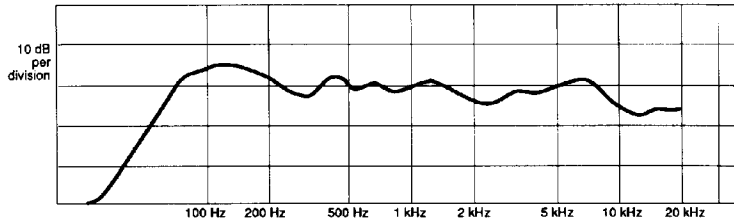
Hum & Noise:
 100 dB below 150W, 20 Hz to 20 kHz

Additional Remarks:
 Self-contained sound system. Powered processed enclosure with volume control, balanced line level inputs, DDT™ compression built-in.

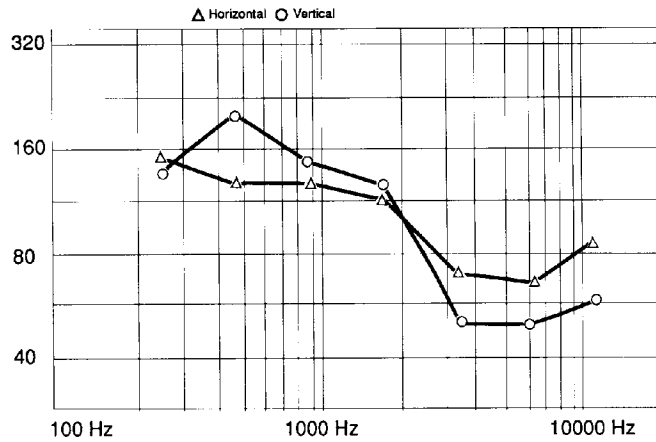
Tolex® is a registered trademark of DiversiTech General.

DESCRIPTION

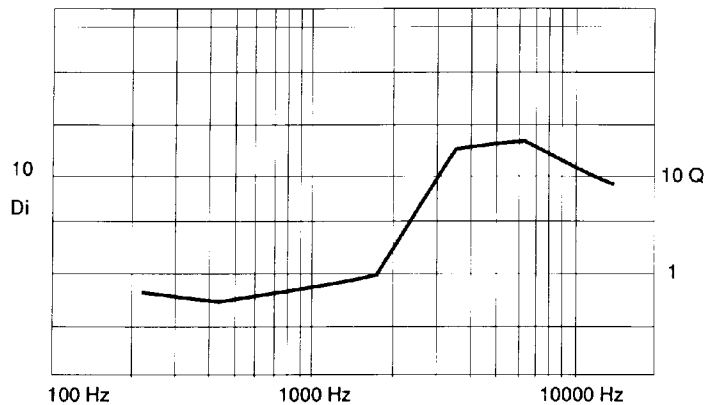
The Prosys™ 112 is a compact, full-range powered speaker enclosure designed to accept the input from a line level signal source, such as a mixer, and provide accurate reproduction for sound reinforcement, public address, or musical playback. The enclosure is constructed of 3/4" high-density plywood, reinforced with steel corners. The covering is high-durability Tolex® vinyl, and the driver components are protected with a perforated metal grille. The 3-way system is comprised of a 12" heavy duty, special design woofer supplying the electronically processed low end; a high efficiency, flared-cone, mid-range driver; and a 90° x 40° constant directivity horn/tweeter. The frequency spectrum is divided by a sophisticated multi-stage passive crossover to optimally blend and shape the three drivers' response, contributing to a smooth frequency response from 50 Hz to 18 kHz. Additionally, the built-in signal processing circuitry applies low frequency boost with subsonic filtering. The action of this built-in processor is tailored specifically for this enclosure and amplifier combination. Input to the Prosys 112 is provided via either a 1/4" phone jack (balanced or unbalanced), or a professional style balanced XLR connector. Both types of inputs can be daisy-chained to supply signal to other Prosys units via a set of paralleled jacks. The power section providing the amplification is supplied by a low distortion, 150 watt power amplifier, selected for its reliability and superb musical performance capability. The built-in power stage includes our patented DDT™ compression which virtually eliminates audible power amp clipping. For stand mounted applications, we have included the SA-1 stand adaptor on the bottom of the enclosure, making this mode of speaker placement possible with 1 1/2" shafts.



FREQUENCY RESPONSE

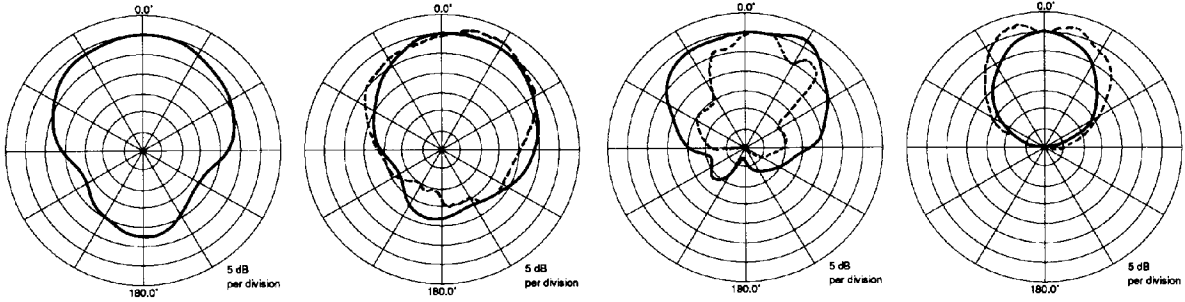


BEAMWIDTH VS. FREQUENCY



DIRECTIVITY

HORIZONTAL



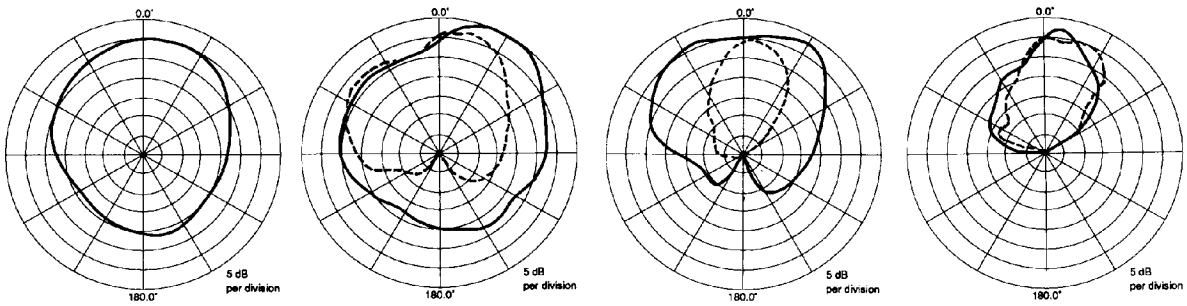
— 250Hz

— 500 Hz
..... 1 kHz

— 2 kHz
..... 4 kHz

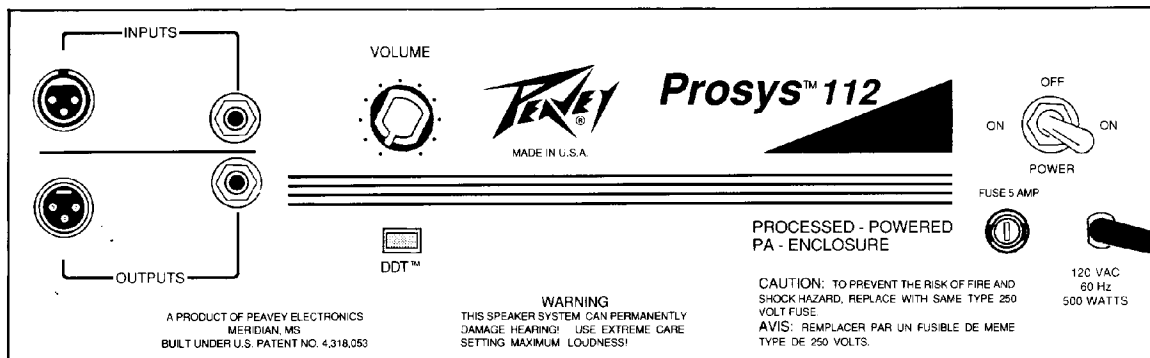
— 8 kHz
..... 16 kHz

VERTICAL



POLAR PATTERNS

Rear Panel



ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The powered loudspeaker system shall have one high impedance, balanced line level input/output on the rear panel, consisting of XLR connectors in parallel with RTS phone jacks. A volume control will be located next to the input/output jacks. The system electronics shall have a frequency response which deviates no more than +0, -1 dB from 10 Hz to 40 kHz up (signal processing defeated) to rated power delivery; a slew rate of 40v/uS; a damping factor greater than 200 @ 1 kHz; a total harmonic distortion less than 0.2% from 10 Hz to 20 kHz at or below rated power delivery; and the hum and noise greater than 100 dB below full rated output. The input signal shall be electronically processed

to supply low frequency boost, specifically tailored to this system, along with sub-sonic filtering. The internal power amp shall be capable of 150 watts continuous power into the 4 ohm system load, and shall feature DDT™ compression. The enclosure shall be constructed of ¾" high-density plywood, reinforced with steel corners and covered with Tolex® vinyl. The cabinet shall incorporate an SA-1 stand adaptor on the bottom, along with four tall rubber feet. A handhold shall be provided on either side of the cabinet, near the top. The driver components shall be protected by a recessed, perforated metal grille. The powered loudspeaker system shall be a 3-way system utilizing a 12" heavy-duty woofer loaded into a 6th-order vented cabinet, a closed back 6½" midrange, and a 90° H × 40° V constant directivity horn tweeter.

The amplifier shall interface with the speaker drivers via a passive, high-slope crossover network. The operating

bandwidth shall extend from 55 Hz to 18 kHz minimum. The nominal output level shall be 96 dB when measured at a distance of one meter when the speaker section is driven with an unprocessed signal level of 1 watt. The continuous power handling of the speaker section shall be 150 watts with a minimum program headroom of 3 dB. The outside dimensions shall be 16¾" wide by 22½" high by 13¾" deep. The weight shall be 67 lbs. The unit shall operate from standard 120V AC, 50/60 Hz power, and have a 10 foot grounded power cord attached to the rear panel. The unit shall be called the Peavey Prosys™ 112.

ONE YEAR LIMITED WARRANTY --

Note: For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P. O. Box 2898, Meridian, Mississippi 39302-2898.



Features and specifications subject to change without notice.