University Sound™

a MARK IV company

SPECIFICATIONS

Frequency Response:
75-16,000 Hz ±5 dB
(see Figure 3)

Power Handling,
8 Hours, 6-dB Crest Factor:
100 watts (100-1,200 Hz pink noise)

Impedance,
Nominal:
8 ohms
Minimum:
6.6 ohms

Sound Pressure Level at 1 Meter,
1 Watt Input Averaged, Pink Noise Band-Limited from 300-2,000 Hz:
97 dB

Horizontal Beamwidth:
60° @ 2 kHz (see Figure 2)

Vertical Beamwidth:
65° @ 2 kHz (see Figure 2)

Directivity Factor R_θ (Q):
12.7 @ 2 kHz

Usable Low-Frequency Limit:
50 Hz

Construction:
Particle board of ⅝-inch and ¾-inch thickness with black vinyl finish, designed for inexpensive permanent installation indoors.

Voice-Coil Diameter,
Woofer: 6.4 cm (2.5 in.)
Tweeter: 2.5 cm (1.0 in.)

Magnet Weight:
Woofer: 2.7 kg (6.0 lb)
Tweeter: 0.3 kg (0.7 lb)

Magnet Material:
Strontium ferrite

Flux Density:
Woofer: 1.3 Tesla
Tweeter: 1.5 Tesla

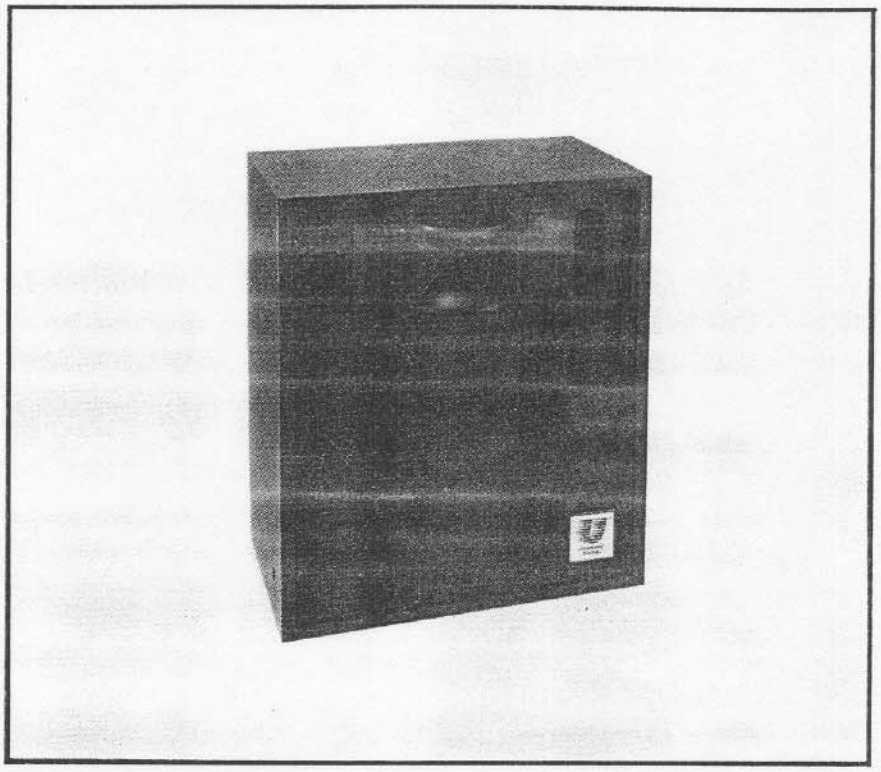
Net Dimensions,
Height:
53.3 cm (21.0 in.)
Width:
46.4 cm (18.3 in.)
Depth:
29.2 cm (11.5 in.)

Net Weight:
28.2 kg (62.0 lb)

Shipping Dimensions,
Height:
68.6 cm (27.0 in.)
Width:
53.8 cm (21.0 in.)
Depth:
35.5 cm (14.0 in.)

Shipping Weight:
29.9 kg (66.0 lb)

Accessories:
BMK-1 mounting kit
TK60 line-transformer kit



PI 12-2 Permanent Installation Speaker System

DESCRIPTION

The University Sound PI 12-2 is a compact two-way, voice/music reproduction system conservatively rated at 100 watts. It is designed for permanent installation and is constructed from black vinyl-covered particle board.

The PI 12-2 features a wide-dispersion ST350A tweeter with auto-limiting protection and the EVM® 12L woofer.

The PI 12-2 is ideal for all permanent installations where rugged and reliable performance is required.

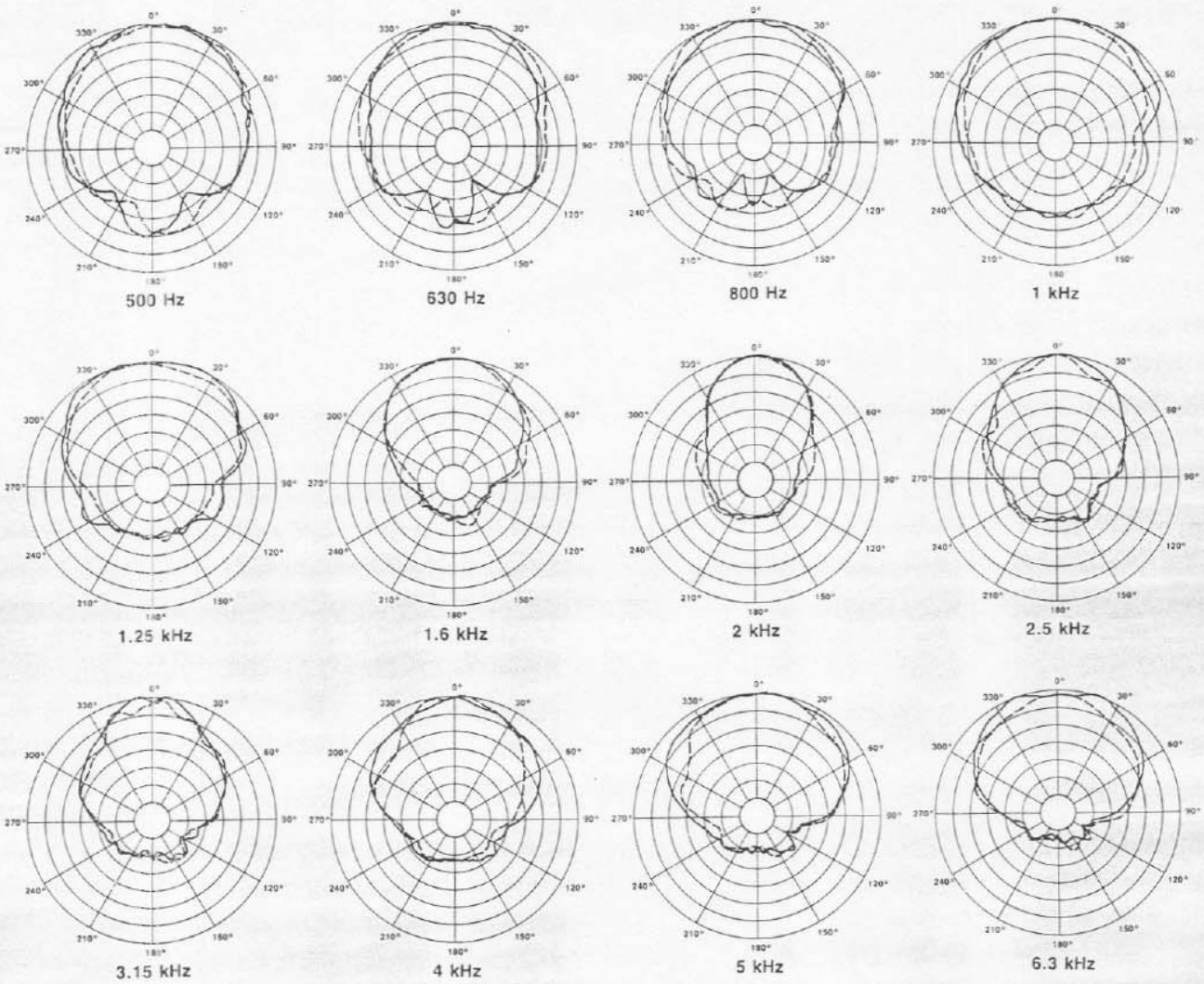


FIGURE 1
PI 12-2 Polar Response

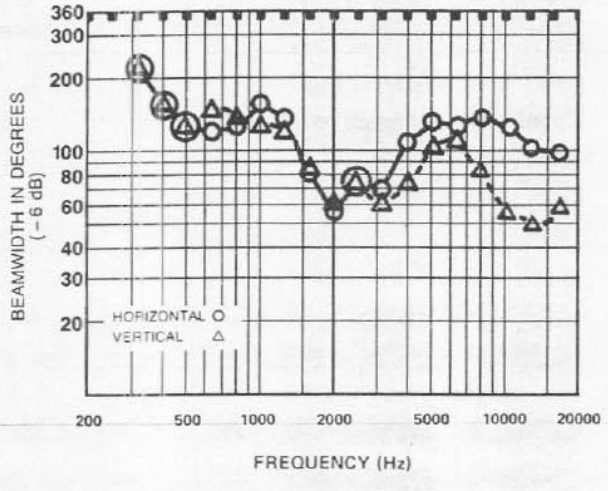


FIGURE 2
PI 12-2 Beamwidth vs. Frequency

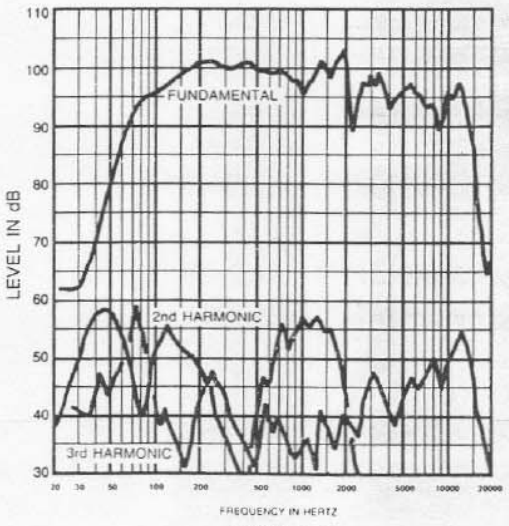


FIGURE 3
PI 12-2 Frequency Response
(1 watt at 1 meter)

POLAR RESPONSE

shown in Figure 1 display the results of these tests. The center frequency is noted on each plot. The wider plot on each chart is the horizontal polar (–) and the narrower plot is the vertical polar (– – –).

BEAMWIDTH

A plot of the PI 12-2's 6-dB-down total included beamwidth angle is shown in Figure 2 for each one-third-octave center frequency.

FREQUENCY RESPONSE

Figure 3 shows the axial frequency response of the PI 12-2. It was measured at a distance of 1 meter, using a swept sine wave.

LINE-TRANSFORMER KIT

The TK60 (25/70V) line-transformer kit is an option for high-impedance systems generally used in multi-speaker designs and some smaller systems using long speaker-wire runs. A Univeristy Sound TM60 transformer is mounted on an input panel substituted for the direct (eight ohms) panel supplied with the PI 12-2 system. The TK60 allows direct input to the system or access to any of seven transformer taps covering 7.5, 15, 30,

ward pull on any surface.

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The voice and music speaker system shall be for permanent installation and consist of a tweeter and a 12-inch low-range speaker.

The axial frequency response will extend from 75 to 16,000 Hz. Sound pressure level will be 97 dB (1 W/1 M) with a 500-to-5,000-Hz pink noise signal applied, and the system will produce a horizontal beamwidth of 60° and a vertical beamwidth of 65° at 2 kHz. The horizontal coverage shall be constant over the frequency range of 4 kHz to 16 kHz.

The loudspeaker shall be capable of handling a 100-watt pink noise signal in accordance with the EIA RS-426A 24-hour power test specification.

The loudspeaker shall be 53.3 cm (21.0 in.) high, 29.2 cm (11.5 in.) deep and 46.4 cm (18.3 in.) wide.

The loudspeaker shall be the University Sound PI 12-2 and shall weigh no more than 28.2 kg (62.0 lb).

extend to finish, appearance items, burned coils, or malfunction due to abuse or operation under other than specfied conditions, including cone and/or coil damage resulting from improperly designed enclosures, nor does it extend to incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. Repair by other than University Sound will void this guarantee. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Service and repair address for this product: University Sound, Inc., 600 Cecil Street, Buchanan, MI 49107 (AC/616-695-6831)

Applications and technical information for University Sound products:
University Sound, Inc., Attention Technical Coordinator, 600 Cecil Street, Buchanan, MI 49107 (AC/616-695-6831).

Specifications subject to change without notice.

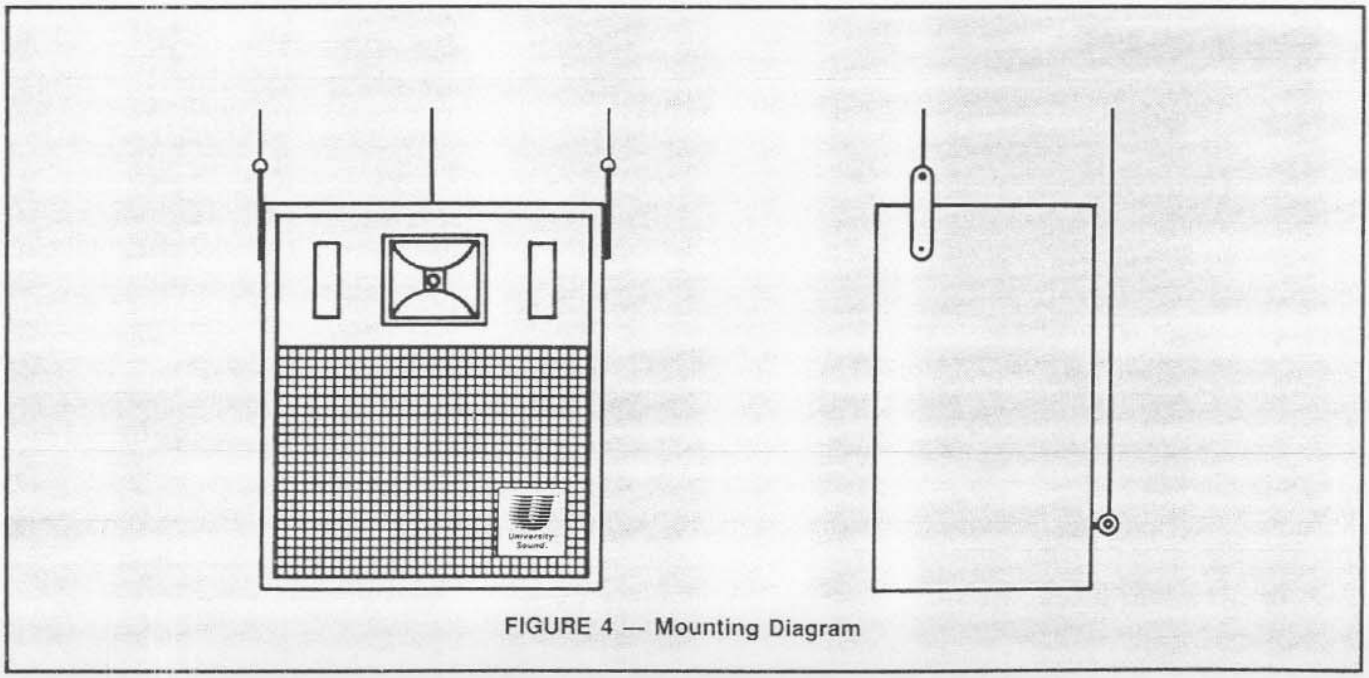


FIGURE 4 — Mounting Diagram