

The PR™ 1000T is available in either black or white polyethylene.

# PR™ 1000T

## Two-Way Weather Resistant 70 Volt Speaker System

### SPECIFICATIONS

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**Frequency Response:**  
65-20 kHz +/- 3db

**Low Frequency Limit (-3 dB):**  
65 Hz

**Useable Low Frequency Limit (-10 dB):**  
50 Hz

**Power Handling:**  
25 W, 12.5 W, 6.25 W  
3.125 W depending on tap

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

**Maximum Sound Pressure Level:**  
104 dB

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

Horizontal Plane:	Vertical Plane:
250—500 Hz 200°+/-60°	250—500 Hz 160°+/-60°
500—1,000 kHz 90°+/-40°	500—10,000 Hz 80°+/-30°
10,000—16,000 Hz 70°+/-10°	10,000—16,000 Hz 60°+/-20°

**Directivity Factor Q, 500 Hz—16,000 Hz**  
**Median:**  
7.2 (±2.2)

**Directivity Index D<sub>i</sub>, 500-16,000 Hz**  
**Median:**  
8.6 dB (±3.4 dB)

**Transducer Complement:**  
1-12" low frequency driver  
1-Constant directivity horn

**Enclosure Materials:**  
Polyethylene

**Mounting:**  
Via Omnimount® 100 or stand mountable

**Dimensions:**  
14" W x 21" H x 11" D (front)  
8¼" W x 19½" H x 11" D (rear)

**Net Weight:**  
24 lbs. (11 kg)

#### DESCRIPTION

The PR™ 1000T combines outstanding sound quality and durability in an attractive and versatile package. The weatherproof enclosure is perfectly suited for permanent outdoor installation. The custom made 12" woofer and horn loaded tweeter are protected by a sturdy metal grille. The PR 1000T has a frequency response of 65 Hz to 20 kHz and a sensitivity of 90 dB at 1 Watt, 1 meter. The trapezoidal enclosure is constructed of durable black or white polyethylene. The PR 1000T can be mounted via Omnimount® Series 100 hardware on either its top or side. In addition to these mounting points, a stand adaptor has been molded into the enclosure.

### DIRECTIVITY

Beamwidth and directivity factors are derived from the -6 dB points from the polar plots (see figure 4) which are measured in a whole space anechoic environment.

These are specifications which provide a reference to the coverage characteristics of the enclosure. These parameters provide insight for proper speaker placement and installation in the chosen environment. The blending of the components exhibits a desirable beamwidth and directivity factor (Figures 2 and 3) suitable for all permanent installations.

### FREQUENCY RESPONSE

The frequency response of the PR 1000T is measured in an anechoic environment at a distance of one meter while using a 2.82 volt swept sine input. This measurement is useful in determining the accuracy in which the enclosure reproduces the input signal. The combination of the low frequency loudspeaker and the constant directivity horn results in a flat response as shown in Figure 1.

### POWER HANDLING

There are many different approaches to power handling ratings. The most common being EIA standard RS-426A. The derived shape of this test spectrum was an attempt to simulate the spectral content of contemporary music. Although it does resemble contemporary music, EIA-RS-426A does not contain the same levels of very low frequency material found in live music situations. Very high levels of low frequency material produce distortion and, ultimately, device failure. The presence of this low frequency material will therefore yield lower device ratings than produced by EIA Standard RS-426A. Although the Peavey ratings are lower than those produced by the EIA test spectrum, they are far more reliable and will have a direct correlation to real world situations.

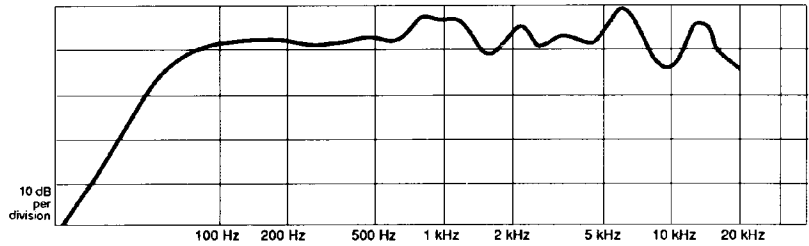


Figure 1. FREQUENCY RESPONSE

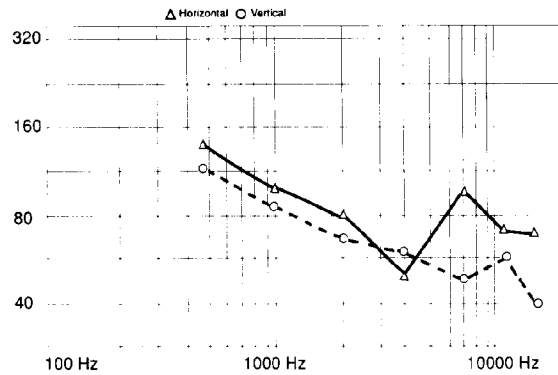


Figure 2. BEAMWIDTH VS. FREQUENCY

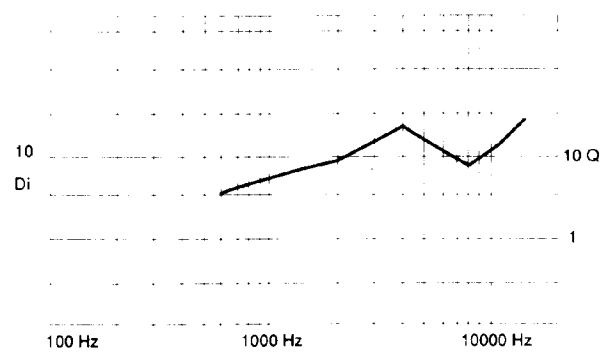
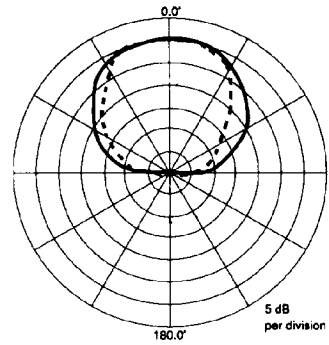
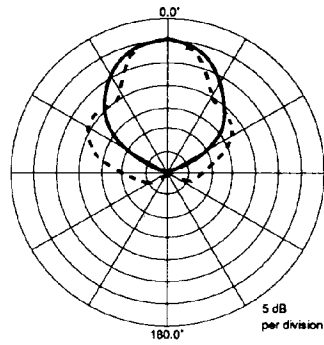
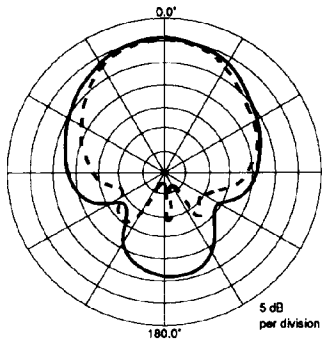


Figure 3. DIRECTIVITY

**HORIZONTAL**

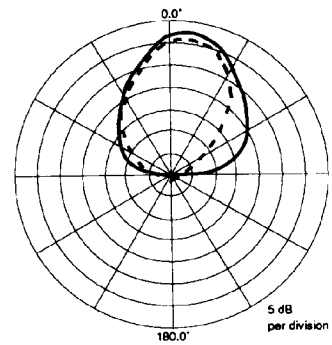
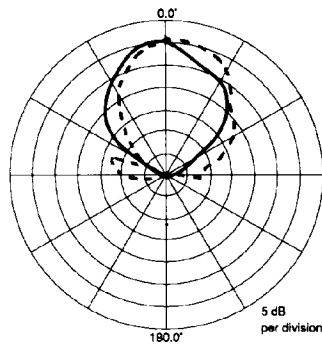
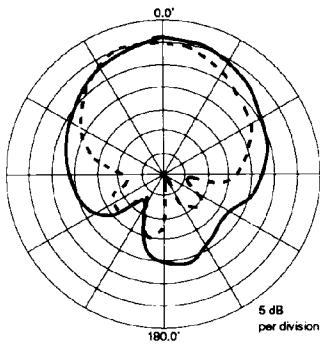


— 500 Hz  
 ..... 1 kHz

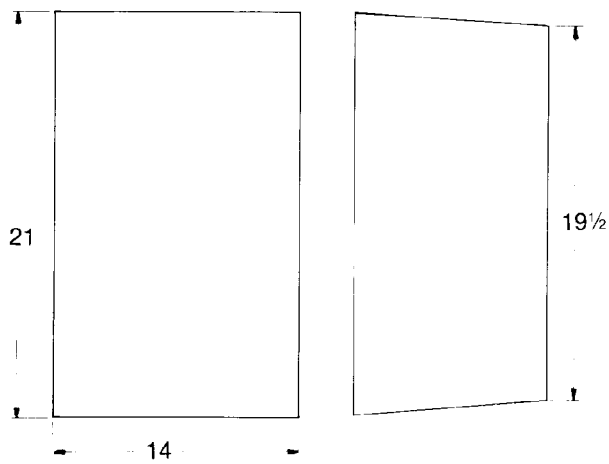
— 2 kHz  
 ..... 4 kHz

— 8 kHz  
 ..... 16 kHz

**VERTICAL**



**Figure 4 POLAR PATTERNS**



**Dimensional Drawing**

## **MOUNTING**

The PR 1000T is supplied with four threaded inserts symmetrically placed on the gravity center of the enclosure which will allow both vertical and horizontal flying without overstressing the cabinet. The cabinet is reinforced with 12 gauge steel brackets. The grille frame is permanently attached to the baffle to alleviate any possibility of separation of the grille from the baffle. It is also equipped with a stand adaptor.

## **ARCHITECTURAL & ENGINEERING SPECIFICATIONS**

The loudspeaker system shall have an operating bandwidth of 65 Hz to 20 kHz. The output level shall be 90 dB when measured at a distance of one meter with an input of one Watt. The nominal radiation geometry shall be 90 degrees in the horizontal plane and 60 in the vertical plane. The outside dimensions shall be 14 inches wide by 21 inches high by 11 inches deep. The weight shall be 24 lbs. The loudspeaker system shall be a Peavey Architectural Acoustics Division Model PR 1000T.

**CAUTION:** Before attempting to suspend this speaker, consult a certified structural engineer. Speaker can fall from improper suspension, resulting in serious injury and property damage. All associated rigging is the responsibility of others. This speaker system can permanently damage hearing! Use extreme care setting maximum loudness! "Do not attempt to hang or mount any other product or device on this enclosure."

## **LIMITED WARRANTY**

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics™ product that it is free from defect in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified. Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

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Features and specifications subject to change without notice.

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