



SPECIFICATIONS

Frequency Response:

80 Hz - 17 kHz

Low Frequency Limit (-3 dB point):

80 Hz

Useable Low Frequency Limit (-10 dB point):

50 Hz

Power Handling:

250 watts continuous (44.7 volts RMS) 500 watts program

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

100 dB

Maximum Sound Pressure Level:

121 dB

Radiation Angle Measured at -6 dB Point of Polar Response

 Horizontal Plane
 Vertical Plane

 500 Hz - 1.6 kHz
 500 Hz - 1.6 kHz

 100° ±25°
 100° ±35°

5 kHz - 16,000 Hz 5 kHz - 16,000 Hz 105° ±15° 50° ±10°

Directivity Factor Q 500 Hz-16,000 Hz Median:

5.8, +4.2, -1.8

Directivity index Di 500-16,000 Hz Median:

7.6 dB, +2.4 dB, -1.6 dB

Transducer Complement:

One 15" SP-15825 Scorpion® Plus woofer and one 22T™ 2" compression driver mounted on a CH™-3 constant directivity 90° x 45° horn tweeter

Tuning Frequency (F box):

50 Hz

Crossover Frequency:

1200 Hz

Crossover Type:

Two-way passive internal

Electrical Crossover Slope:

12 dB/octave (2nd order) high and low pass, high pass section has constant directivity horn EQ

Impedance (Nominal):

8 ohms

Impedance (Minimum):

4.7 ohms

Input Connections:

Two 1/4" female full-range inputs in parallel, one each 1/4" female connectors for biamp use, high & low

Enclosure Materials and Finish:

High density 3/4" wood, covered in a durable black carpet, reinforced with steel corners

Mounting:

SA-1 stand adaptor built-in, also 4 large rubber feet for floor standing use

Dimensions:

26" (66.0 cm) H x 19\%" (49.8 cm) W x 13\%" (35.3 cm) D

Optional Accessories:

Peavey S-1 tripod speaker enclosure stand, Dynamic System Controller™ Series 23, an active electronic crossover system with built-in high & low frequency signal processing or the Dynamic System Controller™ Series 12, a stereo version of the above, and the PCS™ (Processor Controlled System)

Net Weight:

66 lbs.

Additional Remarks:

Unit may be used with or without signal processing in blamp mode, integral passive crossover provides excellent full range use

DESCRIPTION

The SP ™5Ti is a compact, 2-way sound reinforcement system able to be operated full range or biamped with processor capability. Suitable for use in public address, keyboard monitoring, vocals, and general sound reinforcement situations. The rich sound of the SP-5Ti has a variety of uses. The enclosure is constructed of ¾″ high density wood, covered with a heavyduty black carpet, and reinforced with steel corners. Recessed handles on each side aid in transport and set-up. The two-way system is comprised of a

15" SP-15825 Scorpion Plus woofer, and a 22T titanium compression driver loaded onto a CH-3 constant directivity horn tweeter. A passive crossover is built-in for full range use, giving the system a smooth frequency response from 80 Hz to 17 kHz. Biamp input jacks allow either straight biamplified use or, if preferred, the use of one of the Peavey Dynamic System Controllers for that processed low-end punch. An SA-1 stand adaptor is mounted on the bottom of the enclosure allowing stand mounting on all 1%" shafts.

DIRECTIVITY

Beamwidth and directivity factors are derived from the -6 dB points from the polar plots (see figure 3) 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 enclosure placement and installation in the chosen environment. The blending of the components of the SP 5Ti exhibits a desirable beamwidth and directivity factor (figure 4 and 5) suitable for all high-level sound reinforcement applications.

FREQUENCY RESPONSE

This measurement is useful in determining how accurately a given enclosure reproduces an input signal. The frequency response of the SP 5Ti is measured at 1 meter using a 2.82 volt swept sine input. As shown in Figure 1, the selected drivers in the SP 5Ti combine to give a smooth frequency response from 80 Hz to 17 kHz.

POWER HANDLING

There are many different approaches to power handling ratings. Peavey rates this speaker system's power handling using a modified form of the AES Standard 2-1984. Utilizing audio band (20 Hz-20 kHz) pink noise with peaks over four times the RMS level, this strenuous test signal assures the user that every portion of this system can withstand today's high technology music. The test signal contains large amounts of very low frequency energy, effectively simulating the frequency content of live music situations. The full measure of high frequencies in the test signal allow for exposure of the speaker system to synthesize tone that may extend beyond audibility. This rating is contingent on having a minimum 3 dB of amplifier headroom available.

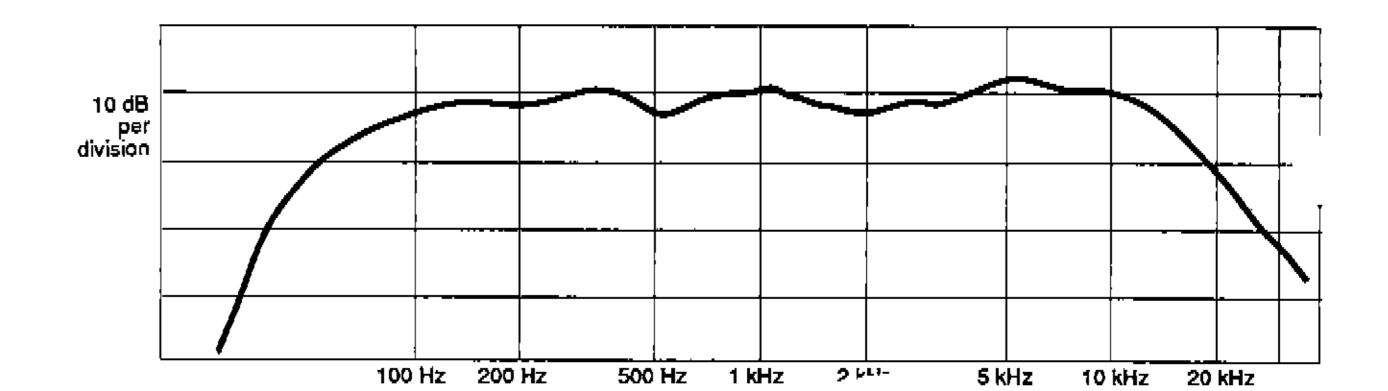


Figure 1. FREQUENCY RESPONSE

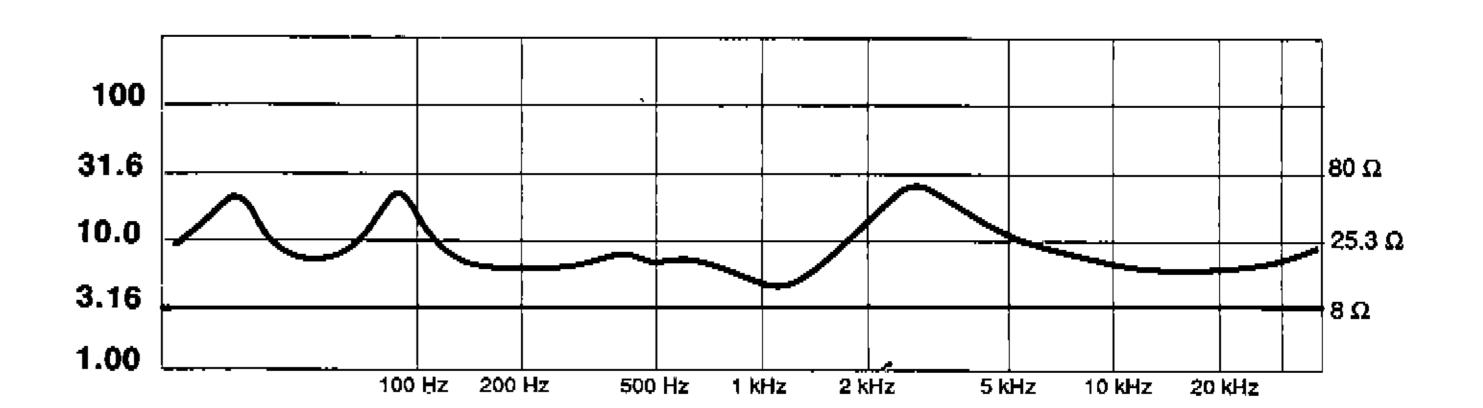


Figure 2. IMPEDANCE

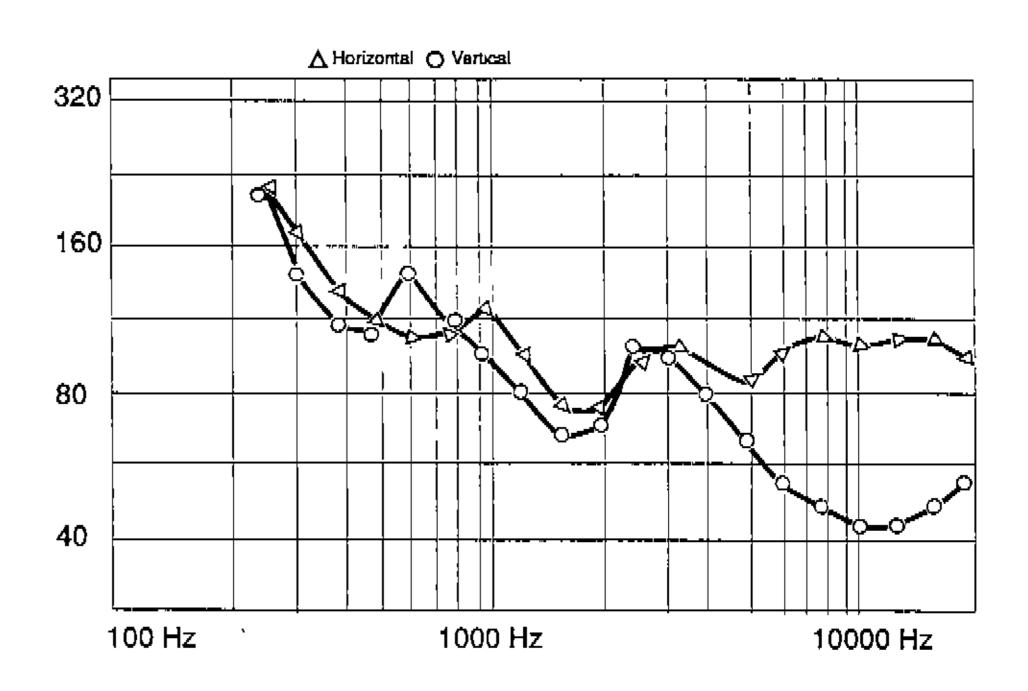


Figure 3. BEAMWIDTH VS. FREQUENCY

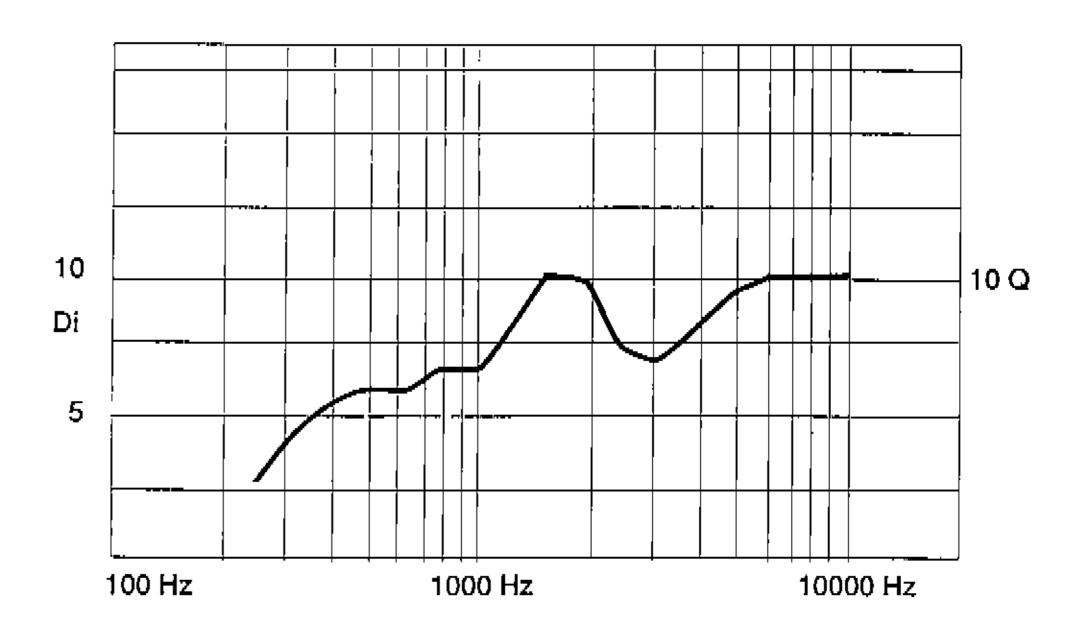
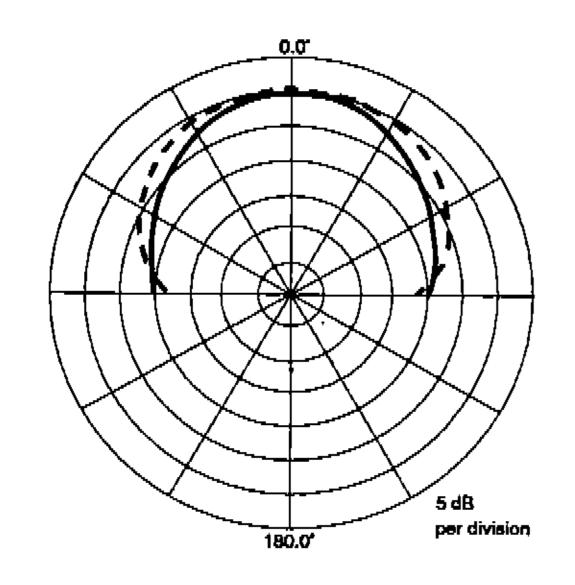
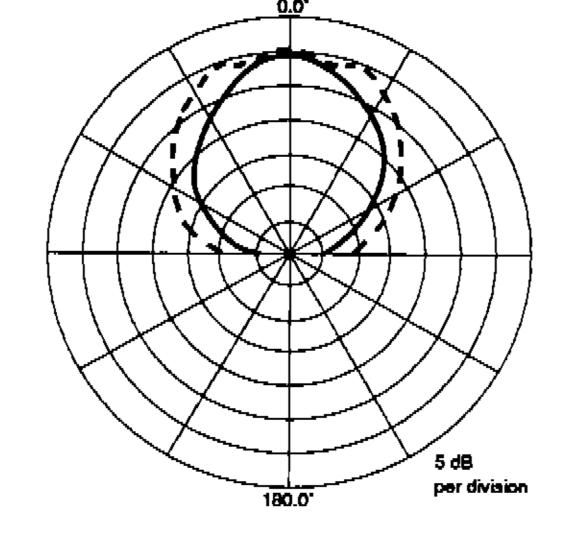
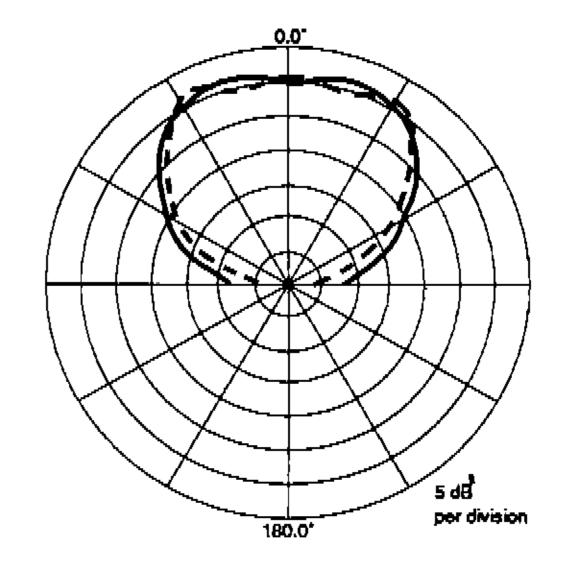


Figure 4. DIRECTIVITY

HORIZONTAL





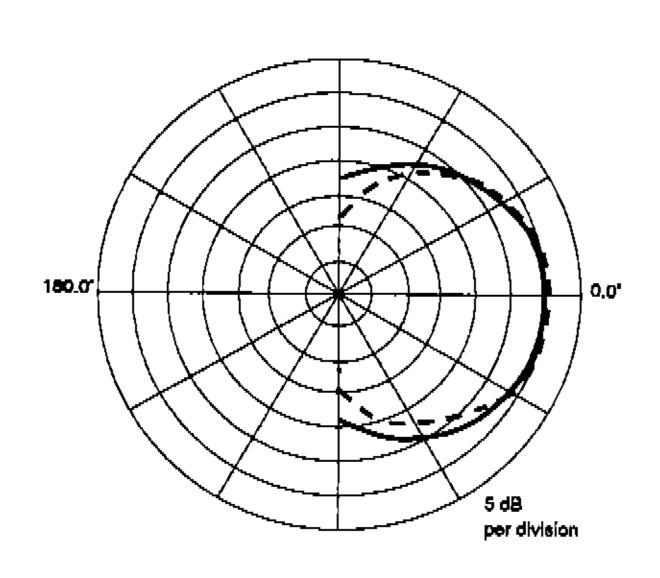


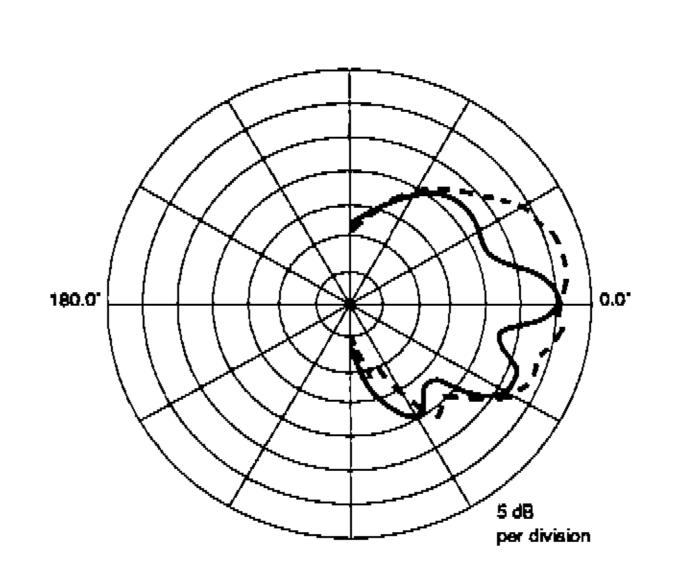
____ 500 Hz 1 kHz

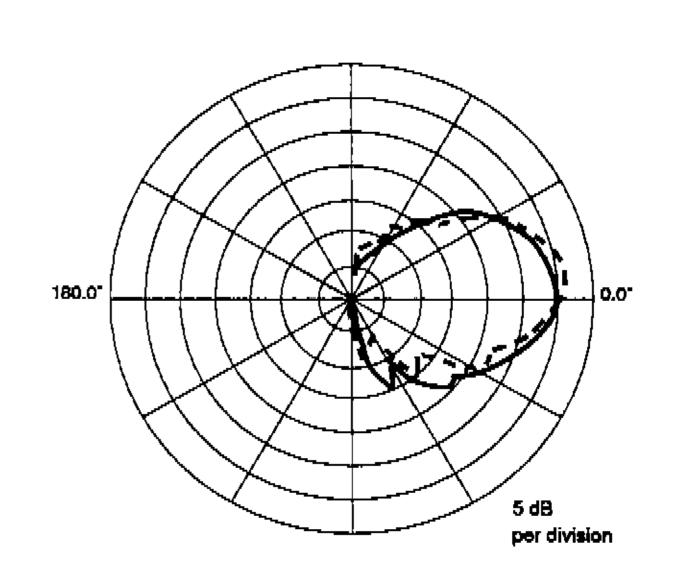
2 kHz

----- 8 kHz ----- 16 kHz

VERTICAL









SP.-57

Sound Reinforcement System

A PRODUCT OF PEAVEY ELECTRONICS CORP.
MERIDIAN, MS MADE IN U.S.A.

MAX POWER: 500W RMS (PROGRAM)

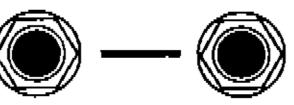
250W RMS (44.7V RMS)

IMPEDANCE: 8 OHMS CROSSOVER: 1200 Hz

WARNING: THIS SPEAKER SYSTEM CAN PERMANENTLY DAMAGE HEARING! USE EXTREME CARE SETTING MAXIMUM LOUDNESS!

NORMAL

BI-AMP







FULL RANGE

HI

LOW

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The loudspeaker system shall have an operating bandwidth of 80 Hz to 17 kHz. The output level shall be 100 dB when measured at a distance of one meter with an input of one watt. The nominal impedance shall be 8 ohms. The continuous power handling shall be 250 watts, maximum program power of 500 watts, with a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 90° in the horizontal plane and 45° in the vertical plane. The outside dimensions shall be 195%" wide by 26" high by 131/8" deep. The weight shall be 66 pounds. The loudspeaker system shall be a Peavey model SP 5Ti.

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.



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