

Description

The SSE 10M is a new low-profile monitor enclosure featuring high power ratings with custom components, a sleek look and a unique, snap-in metal grille. The SSE 10M is a full-range, two-way system featuring the highly acclaimed Peavey 14XT titanium compression driver with the diverse Sound Guard IV tweeter protection network and a maximum-performance 10" woofer for a smooth response. The SSE 10M is rated at 400 Watts program and 800 Watts peak. This lightweight speaker system may be placed on stage at angles of either 30° or 45° and is ideal for smaller venues where stage space is at a premium. Connections are made using a four-pin Neutrik® Speakon® or a paralleled two-position terminal block for additional cabinets. The SSE 10M is available in black, white and natural finishes.

Features

- Two-way monitor enclosure
- Peavey 14XT™ titanium compression driver
- Sound Guard™ IV tweeter protection network
- 400 Watts program/800 Watts peak power handling
- 12 mm birch plywood construction
- 80 Hz to 17 kHz
- 95 dB at 1W/1m
- 8 Ohms
- Available in three finishes: black, white or natural

Frequency response, 1 meter on-axis, swept-sine in anechoic environment:
80 Hz to 17 kHz (±3 dB)

Usable low frequency limit (-10 dB point):
60 Hz

Power handling:
Full Range:
400 Watts program
800 Watts peak

Sound pressure level, 1 Watt, 1 meter in anechoic environment:
Full range:
95 dB SPL (2.83 V input)

Maximum sound pressure level (1 meter):
Full range:
118 dB SPL continuous
124 dB SPL peak





SANCTUARY SERIES™

Transducer complement:

Low frequency section:
Premium grade 10" woofer
High frequency section:
Peavey 14XT™ titanium diaphragm
compression driver on a 90° x 60° constant
directivity horn

Box tuning frequency:

Low Frequency Section: 78 Hz

Harmonic distortion:

1% rated power
Second harmonic:
100 Hz: 0.43%
1 kHz: 0.07%
Third harmonic:
100 Hz: 0.58%
1 kHz: 1.02%

10% rated power
Second harmonic:
100 Hz: 2.28%
1 kHz: 0.40%
Third harmonic:
100 Hz: 0.97%
1 kHz: 2.02%

Electro-acoustic crossover frequency (internal passive):

2.8 kHz

Impedance (Z):

Full range:
Nominal: 8 Ω
Minimum: 5.4 Ω

Input connection:

One four-pin Neutrik® Speakon® in parallel
with one two-position terminal strip

Enclosure materials & finish:

Dado-joined 12 mm birch finished with a
textured acrylic polyurethane with a full-
length metal grille covered in acoustical-
grade grille cloth. Available in black, white or
natural finishes.

Dimensions (H x W x D):

14.56" x 19.63" x 15.95"
370 mm x 498 mm x 405 mm

Net weight:

29 lbs. (13.2 kg)

Frequency response

This measurement is useful in determining
how accurately a given unit reproduces an
input signal. The frequency response of the
SSE 10M is measured at a distance of 1
meter using a 1 Watt swept-sine input signal
(into the nominal impedance). As shown in
figure 1, the selected drivers in the SSE 10M
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
loudspeaker system's power handling using
a full-range form of the AES Standard 2-
1984. Using audio band 20 Hz to 20 kHz
pink noise with peaks of 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.
This rating is contingent upon having a
minimum of 3 dB available amplifier
headroom.

Harmonic distortion

Second and third harmonic distortions vs.
frequency are plotted in figures 3 & 4 for two
power levels: ten percent (10%) of rated
input power and either one percent (1%) of
rated input power or 1 Watt, whichever is
greater. Distortion is read from the graph as
the difference between the fundamental
signal (frequency response) and the desired
harmonic. As an example, a distortion curve
that is down 40 dB from the fundamental is
equivalent to 1% distortion.

Architectural & engineering specifications

The loudspeaker system shall have an
operating bandwidth of 80 Hz to 17kHz. The
nominal output level shall be 95 dB when
measured at a distance of one meter with an
input of one Watt. The nominal impedance
shall be 8 ohms. The maximum program
power handling shall be 400 Watts, with a
peak power input of at least 800 Watts and a
minimum amplifier headroom of 3 dB. The
nominal radiation geometry shall be 90° in
the horizontal plane and 60° in the vertical
plane. The outside dimensions shall be
14.56" high by 19.63" wide by 15.95" deep.
The weight shall be 29 lbs. The loudspeaker
system shall be a model SSE 10M.

3 + 2 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 39301-2898.or 1 watt)

SPECIFICATIONS

SSE™ 10M

Amplitude Response (1W 1m On-Axis)

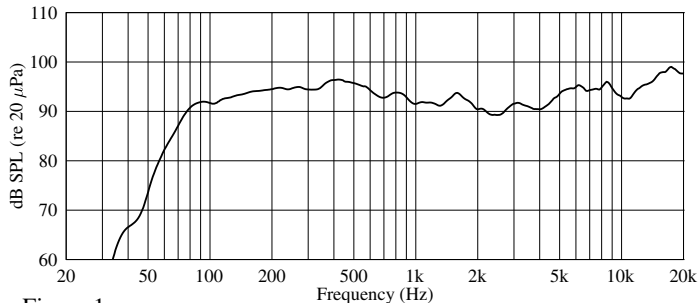


Figure 1

Harmonic Distortion : 10% Rated Power

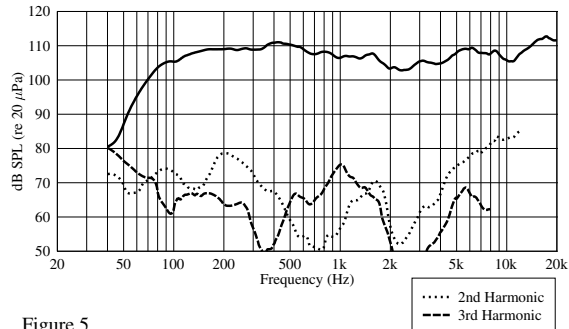


Figure 5

Impedance

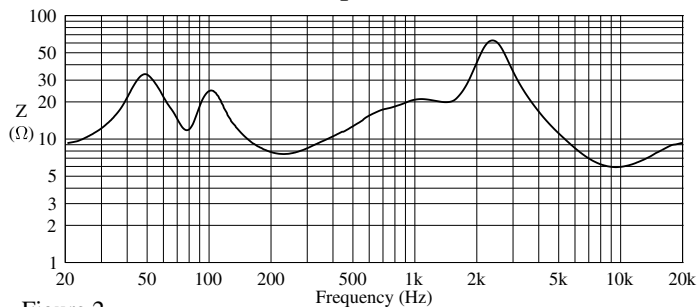


Figure 2

Harmonic Distortion : 1% Rated Power

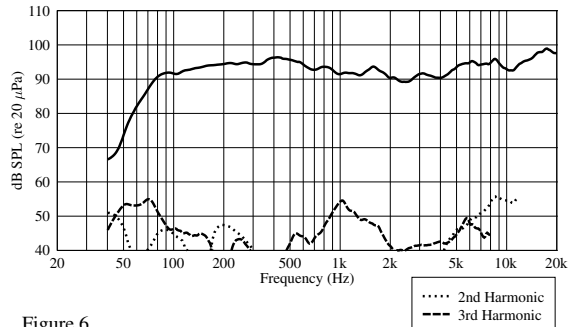


Figure 6

SANCTUARY SERIES™
sanctuary-series.com

SSE 10
DESIGNED AND MADE IN USA

IMPEDANCE: **8 OHMS**
WEIGHT: **28 lbs./13 kg**
MAX POWER: **400W PROGRAM**

HF DRIVER PROTECTED BY **SOUNDGUARD™ IV**
A PRODUCT OF PEAVEY ELECTRONICS

8 Ω **+** **-** **CE**

FULL RANGE INPUTS

DANGER: BEFORE ATTEMPTING TO SUSPEND THIS SPEAKER CONSULT A CERTIFIED STRUCTURAL ENGINEER. SPEAKER CAN FALL FROM IMPROPER SUSPENSION, RESULTING IN SERIOUS INJURY AND PROPERTY DAMAGE. DO NOT SUSPEND OR MOUNT ANY OTHER PRODUCT OR DEVICE FROM THIS ENCLOSURE! USE ONLY GRADE 5 HARDWARE OR BETTER.

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



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Features and specifications subject to change without notice.