

Description

The SSE 12M 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 12M 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 Peavey Scorpion Pro 1200+ 12" woofer with 2.5" (64 mm) voice coil for a smooth response. The SSE 12M is rated at 500 Watts program and 1000 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 12M is available in black, white and natural finishes.

Features

- Two-way monitor enclosure
- Peavey Scorpion® Pro 1200+ 12" woofer with 2.5" (64mm) voice coil
- Peavey 14XT™ titanium diaphragm compression driver
- Sound Guard™ IV tweeter protection network
- 500 Watts program/1000 Watts peak power handling
- 12 mm birch plywood construction
- 79 Hz to 17 kHz
- 98 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:
79 Hz to 17 kHz (±3 dB)

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

Power handling:
Full range:
500 Watts program
1000 Watts peak

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

Maximum sound pressure level (1 meter):
Full range:
122 dB SPL continuous
128 dB SPL peak





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Transducer complement:

Low frequency section:
Peavey Scorpion® Pro 1200+ 12" woofer with 2.5" (64 mm) voice coil
High frequency section:
Peavey 14XT™ titanium diaphragm compression driver on a 90° x 40° constant directivity horn

Box tuning frequency:

Low frequency section: 74 Hz

Harmonic distortion:

1% rated power
Second harmonic:
100 Hz: 0.32%
1 kHz: 0.10%
Third harmonic:
100 Hz: 0.40%
1 kHz: 0.22%

10% rated power
Second harmonic:
100 Hz: 0.56%
1 kHz: 0.79%
Third harmonic:
100 Hz: 0.79%
1 kHz: 0.25%

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:

Finished with a textured acrylic polyurethane, dado-joined 12 mm birch 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):

15.22" x 24.5" x 16.96"
387 mm x 622 mm x 431 mm

Net weight:

35 lbs. (15.88 kg)

Frequency response

This measurement is useful in determining how accurately a given unit reproduces an input signal. The frequency response of the SSE 12M 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 12M combine to give a smooth frequency response from 79 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 79 Hz to 17kHz. The nominal output level shall be 98 dB when measured at a distance of a meter with an input of 1 Watt. The nominal impedance shall be 8 Ohms. The maximum program power handling shall be 500 Watts, with a peak power input of at least 1000 Watts and a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 90° in the horizontal plane and 40° in the vertical plane. The outside dimensions shall be 15.22" high by 24.5" wide by 16.96" deep. The weight shall be 35 lbs. The loudspeaker system shall be a model SSE 12M.

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.

SPECIFICATIONS

SSE™ 12M

Amplitude Response (1W 1m On-Axis)

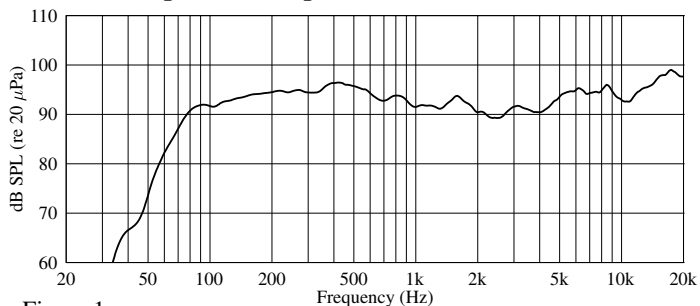


Figure 1

Harmonic Distortion : 10% Rated Power

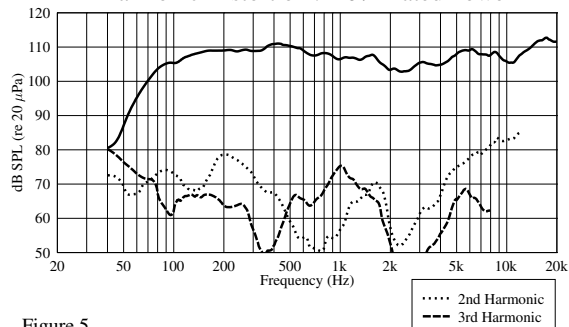


Figure 5

Impedance

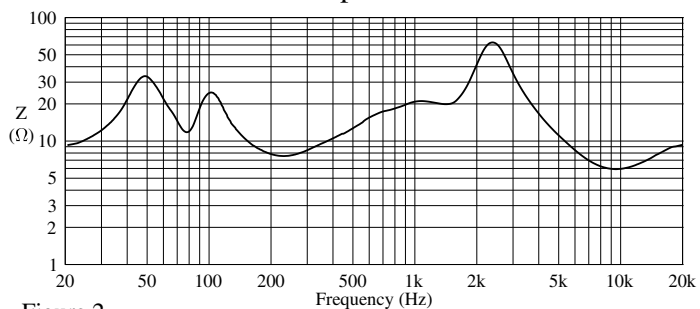


Figure 2

Harmonic Distortion : 1% Rated Power

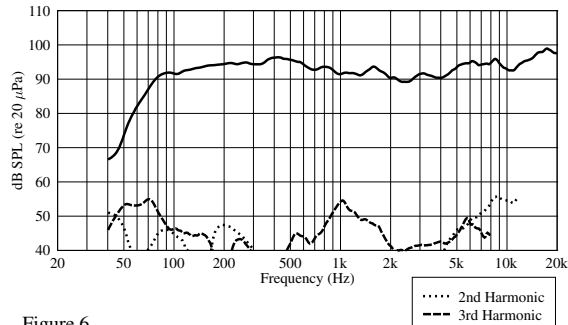



Figure 6




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SSE 12M
DESIGNED AND MADE IN USA

IMPEDANCE:
8 OHMS

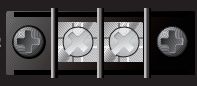
WEIGHT:
40 lbs./18 kg

MAX POWER:
500W PROGRAM



PIN 1+ (+) POS.
PIN 1- (-) NEG.

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

8Ω  **CE**

+ -
FULL RANGE INPUTS

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



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www.sanctuary-series.com
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Features and specifications subject to change without notice.