# SP810A CENTRAL SPEAKER SYSTEM

## FULL FIDELITY - FOR BOTH VOICE AND MUSIC

Full range (40 Hz to 20 kHz) designed for central location.
Tuned port enclosure with a high-efficiency 10" woofer matched to four compression horns and drivers.
Small size and low weight for convenient installation and low shipping cost

## BUILT TO LAST

High impact polyurethane finish
New impact resistant HDPE grille
Stainless Steel hardware, screws and bolt assemblies

## HIGH SENSITIVITY - 104 dB/W/m

Extremely efficient – rated at 104 dB/W/m
Produces high SPLs with low amplifier power
Maximum SPL – 126dB with 200 W RMS input.

## HIGH POWER HANDLING - 200 W RMS / 400 W PEAK

Handles input power of 200 watts RMS
Built-in, self-resetting polyswitch protective circuit protects high frequency drivers
from excessive power and distorted inputs (>10% THD)

## WIDE COVERAGE AREA – 360º X 180º

Covers 360º Horizontally by 180º Vertically
Wide dispersion characteristics enable a single SP810A to cover a large area.

## COMPACT SIZE - 12 INCHES HIGH / 44 LBS

The Octasound SP810A is only 12 inches (30.5 cm) high and weighs just 44 LBS (20 kg).
Can be installed in low ceiling areas and close to lights without casting significant shadows.
Low weight permits suspension using readily available hardware such as closed link chains, wire rope etc.
Small size and low weight enables convenient installation and low shipping cost

## TECHNICAL SPECIFICATIONS

Frequency Response: 40 Hz to 20 kHz $\pm$ 10 dB (on axis); 45 Hz to 12 kHz $\pm$ 6 dB (on axis)
Optimum Power:  50 to 180 W RMS total
Power Handling:  200 W RMS total, 400 W peak, (THD less than 10%)
Impedance:  8 ohms nominal
Dispersion:  360º Horizontal, 180º Vertical  $\pm$ 6 dB 100 Hz to 10 kHz
Sensitivity:  104 dB/W/m on axis, pink noise 100 Hz to 10 kHz averaged
Maximum SPL: 127dB RMS / 130 dB Peak at 1 meter.

For more detailed info contact:
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by
KDM

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## PHYSICAL SPECIFICATIONS

Temperature Range: -20ºC to 55ºC (-4ºF to 131ºF)
Humidity Range: 0% to 100% Non-Condensing
Dimensions: 16" H x 33" W  See Diagrams (Not to Scale, Tolerance ±¼")
Weight: 44 LBS (27.2 kg)
Material: Moisture Resistant MDF, Polyurethane Elastomer Finish
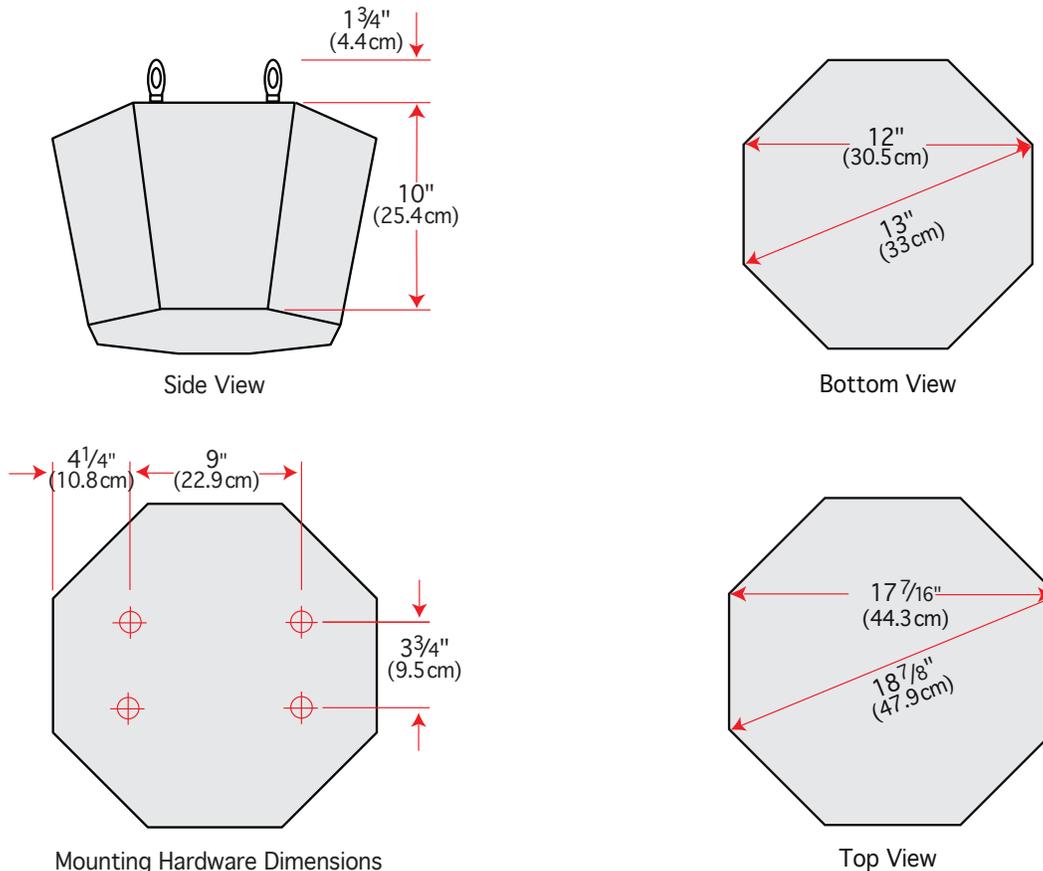Mounting Hardware: Four 1½" Eye Nuts, ¾" I.D. Eye ¼ x 20 Thread
Shipping Weight: 68 lbs (30.8 kg)
Shipping Dimension: 23" (58.4 cm) Square, by 16" (40.6 cm) high

## ARCHITECTS AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be an octagonal shaped speaker containing one 10" low frequency driver with a 2" - 8 ohm voice coil and 34 ounce magnet. The speaker shall also enclose four high frequency 4.5" x 4.5" wide dispersion exponential compression horns & drivers with 1" voice coils, 1" throat diameter and a magnet weight of 10 ounces. The speaker sensitivity shall be 104 dB per watt per meter and contain a crossover point of 2 kHz ±15% complete with thermal protection and with an impedance of 8 ohms. The speaker shall be manufactured from ¾" wood composite and sealed with an industrial textured finish. Grill shall be plastic and impact resistant. All exposed metal hardware shall be stainless steel or zinc plated.  Four 1¼ inch eye nuts shall be provided for mounting.   The complete speaker shall weigh a maximum of 44 lbs., with the following dimensions: top width 18 7/8", bottom width 13" and height 10" + 1 ¾" for mounting hardware.

## DIMENSIONS



1 ¾" (4.4 cm)
10" (25.4 cm)

Side View



12" (30.5 cm)
13" (33 cm)

Bottom View



4 ¼" (10.8 cm)
9" (22.9 cm)
3 ¾" (9.5 cm)

Mounting Hardware Dimensions



17 7/16" (44.3 cm)
18 7/8" (47.9 cm)

Top View