



Octasound[®]
S O U N D A B O V E A L L

DATA SHEET



SP820A CENTRAL SPEAKER SYSTEM

FULL FIDELITY - FOR BOTH VOICE AND MUSIC

Full range (35 Hz to 20 kHz) designed for central location.

Tuned port enclosure with a high-efficiency 12" 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 - 250 W RMS / 500 W PEAK

Handles input power of 250 watts RMS

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

WIDE COVERAGE AREA – 360° X 180°

Covers 360° Horizontally by 180° Vertically

Wide dispersion characteristics enable a single SP820A to cover a large area.

COMPACT SIZE - 12 INCHES HIGH / 60 LBS

The Octasound SP820A is only 12 inches (30.5 cm) high and weighs just 60 lbs (27.2 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: 35 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: 250 W RMS total, 500 W peak, (THD less than 10%)

Impedance: 8 ohms nominal

Dispersion: 360° Horizontal, 180° Vertical \pm 6 dB 100 Hz to 10 kHz

Sensitivity: 106 dB/W/m on axis, pink noise 100 Hz to 10 kHz averaged

Maximum SPL: 126 dB RMS / 129 dB Peak at 1 meter

For more detailed info contact:

KDM Electronics www.octasound.com info@octasound.com 1-800-567-6282
55 Mills Road, Ajax, ON L1S 2H2

by **KDM**

SP820A CENTRAL SPEAKER SYSTEM

PHYSICAL SPECIFICATIONS

Temperature Range: -20°C to 55°C (-4°F to 131°F)

Humidity Range: 0% to 100% Non-Condensing

Dimensions: 16" H x 33" W See Diagrams (Not to Scale, Tolerance $\pm 1/4"$)

Weight: 60 lbs (27.2 kg)

Material: Moisture Resistant MDF, Polyurethane Elastomer Finish

Mounting Hardware: Four 1 1/2" Eye Nuts, 3/4" I.D. Eye 1/4 x 20 Thread

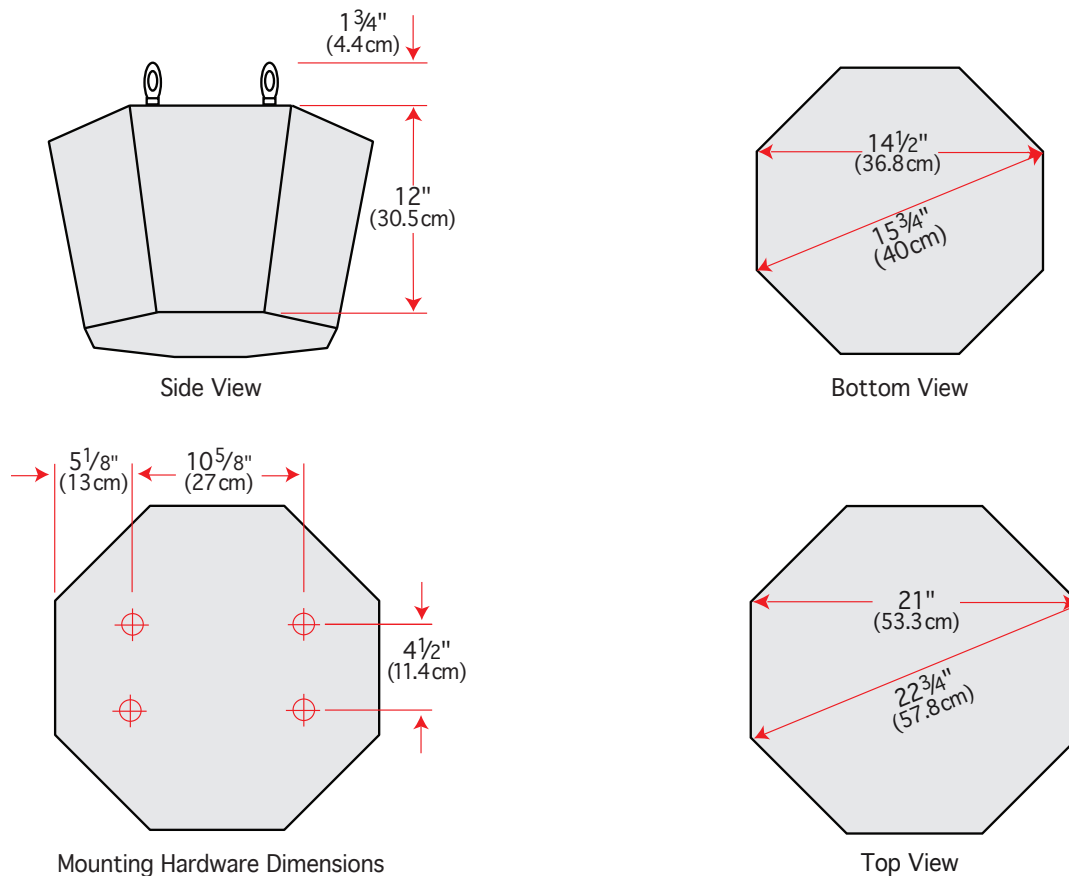
Shipping Weight: 68 lbs (30.8 kg)

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 12" low frequency driver with a 3" - 8 ohm voice coil and 80 ounce magnet. The speaker shall also enclose four high frequency 6" x 6" wide dispersion exponential compression horns & drivers with 1.33" voice coils, 1" throat diameter and a magnet weight of 12 ounces. The speaker sensitivity shall be 104 dB per watt per meter and contain a crossover point of 2 kHz $\pm 15%$ complete with thermal protection and with an impedance of 8 ohms. The speaker shall be manufactured from 3/4" 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 1 1/4 inch eye nuts shall be provided for mounting. The complete speaker shall weigh a maximum of 120 lbs., with the following dimensions: top width 22 3/4", bottom width 15 3/4" and height 12" + 1 3/4" for mounting hardware.

DIMENSIONS



KDM Electronics Inc. reserves the right at any time to make changes in product design, components and specifications, as may be warranted by progressing technology.

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