The large format Aero 50 is the evolution of the highly successful Aero 48. Designed for use in large-scale events in stadiums and arenas, the Aero 50 offers a number of important improvements in terms of performance and weight reduction.

The low frequency reproduction is handled by two new 15GNR loudspeakers in a bass-reflex configuration. The 15GNR speaker incorporates a 100 mm (4”) edge-wound flat wire (EFW) voice coil. A redesigned motor structure which utilizes an internal neodymium ring focuses magnetic energy in the gap where it is needed, ensures reduced magnetic leakage and lowers the component weight.

High frequency reproduction is handled by two M-75N compression drivers. A pure titanium diaphragm featuring 75 mm (3”) copper-clad aluminum EFW voice coil yields high sensitivity, low distortion and extended frequency response. Each motor system has a copper shorting ring surrounding the pole piece which effectively reduces eddy current induced distortion with the added benefit of increasing the very high frequency output by reducing the inductive rise of the voice coil.

Four purpose-built 8MN, 8” cone transducers incorporating neodymium magnetic assemblies and 62 mm (2.5”) voice coils are used for mid frequency reproduction. These rugged, yet lightweight components take advantage of the unique Total Air Flow (TAF) cooling scheme which effectively evacuates voice-coil heat minimizing power compression.

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Frequency Response
Shows the frequency response at 1 m of a unit radiating to an anechoic environment and driven by a swept sine wave signal. 12 units DSP preset.

Impedance
Shows impedance curves for low (red), mid (blue) and high (green).

Horizontal Directivity
Shows normalized horizontal isobar plot.

Vertical Directivity
Shows normalized vertical isobar plot.

Polar Response
Shows the 1/3 octave band horizontal (left) and vertical (right) polars for the indicated frequencies. Full scale is 30 dB, 6 dB per division.

NOTES.
1. Frequency response: referred to 1 m; low end obtained through the use of near field techniques; one-third octave smoothed for correlation with human hearing. 5. Polars were acquired by placing the unit on a computer controlled turntable inside our anechoic chamber. Measurement distance was 4 m.

Product improvement through research and development is a continuous process at D.A.S. Audio. All specifications subject to change without notice.