The loudspeaker shall be a 3-way powered line array system that incorporates connectivity for remote monitoring and control. The low frequency way shall be a 12” transducer in a bass-reflex configuration for optimal low-end reproduction. The mid-range shall be handled by an 8” transducer. High frequency reproduction shall rely on two 3” VCD compression drivers. The loudspeaker shall incorporate a three channel high efficiency Class D amplifier design equipped with a switch mode universal power supply (SMPS) and a comprehensive protection package (thermal protection, RMS and Peak limiters, etc.) for both the amplifier as well as the transducers. The loudspeaker amplifier shall include FIR (Finite Impulse Response) filtering providing acoustical flat phase response and digital steering technology as an optimization tool. Loudspeaker amplifier shall include top-of-the-line DSP platform and AD/DA converters providing significant improvements in dynamics, lower distortion and ultra-low noise levels. The loudspeaker shall incorporate remote monitoring and control of each amplifier channel and transducers.

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: operating frequency range (-10dB) 60 Hz to 20 kHz.

Horizontal nominal coverage (-6dB): 90º

Vertical nominal coverage (-6dB): Splay dependent

Maximum Peak SPL: 138dB

Current draw (1/3rd) shall be 3 A rms at 230 V AC and 6 A rms at 115 V AC. The AC power connector shall be a powerCON True1.

Dimensions shall be (H x W x D) 32 x 101 x 52 cm (12.6 x 39.8 x 20.5 in). Weight shall be 68 kg (149.6 lbs). The loudspeaker shall be the DAS Audio Aero-40A.