



Audience AV 27

Key features:

- Unmatched sound quality: Direct Radiating MF & HF sections
- Extreme high "Power to size ratio"
- Fully integrated flying system; 16 cabinets in one rig
- Rectangular shape for economic truck loading and stable cargo
- Protecture coating, any RAL color on request

The AV-27 Line Array Element is designed to deliver outstanding music and speech reproduction in a variety of applications including outdoor events, classical and theatrical productions and A/V presentations of all types.

Where other line-array manufacturers have to develop special waveguides and adapters to convert a spherical pattern into a flat wave front, SA's 8535 Neodymium Ribbon high frequency driver has the perfect radiation pattern for building line arrays. Therefore it is no surprise that this driver is the core of the AV27 design. Also, the feather light membrane guarantees an unmatched frequency response in excess of 20 kHz, without break-up artefacts that are inherent to compression drivers.

The important Midrange band is handled by two SA806 8" drivers. Direct radiation provides a smooth, warm uncoloured sound in this critical band. The efficiency is surprisingly high for a direct radiating design.

Where both midrange and high frequency section match perfectly in maximum SPL, we needed a similar efficient low frequency section. One direct radiating 15" wouldn't be able to cope with the mid and high section, and a double 15" setup would make the cabinet larger and heavier than we intended.

So we opted for a band pass design with a single 15" loudspeaker, that is tuned for maximum efficiency between 70 and 200 Hz. This way only a single amplifier channel is needed for the LF channel. The AV27 is therefore extremely amplifier friendly. All frequency sections (LF/MF/HF) have a 8 ohm impedance, so a rack of two stereo amplifiers can drive 4x AV27 with one amp channel left for subwoofers.

All these components make the AV27 the world's most powerful "ribbon" line array to date!

With the single 15" loudspeaker mounted at the back of the cabinet, the AV27 has excellent stability, and can easily be groundstacked up to 6 cabinets high without additional hardware. Note also that the cabinet weighs less than 75 kg (including flying hardware), making it an easy lift.

All the rigging hardware that is needed to fly the cabinet is inside, so no forgotten or missing hardware and no additional flightcases. Flying the system is extremely easy and done in no time. A 16 cabinet array can be hung in less than 30 minutes by two men. The grid is extremely versatile. Arrays can be hang with one, two or three hoists, without additional steels or chains.

The accompanying software will show you exactly what splay to use between the cabinets and will warn you if you intend to overload the systems strength.

Technical specifications

Line Array Element

Freq. Response (+/- 3 dB)	: 70 Hz – 20 kHz
Usable bandwidth (+/- 10 dB)	: 55 – 20 kHz
Horizontal Coverage Angle (-6 dB)	: 75 deg, nominal, 300 Hz – 20 kHz
Vertical Coverage Angle (-6 dB)	: Varies with array configuration
System Output	: 130 dB one enclosure @ 1m continuous
Signal Processing	: OEM presets for various controllers available on request

Transducer Section SA 1508N, 15" Neodymium Driver,

Nominal Impedance	: 8 Ohms
Input power rating	: 400W / 800W RMS / Peak
Bandpass Sensitivity	: 104 dB 1w @ 1m

Mid Frequency: 2 x SA 0806, 8" Drivers

Nominal Impedance	: 8 Ohms
Input power rating	: 200W / 1000W RMS / Peak
Bandpass sensitivity	: 108 dB 1w @ 1m

High Frequency: 2 x SA 8535 Neodymium Ribbon Compact Drivers

Nominal Impedance	: 8 Ohms
Input power rating	: 120W / 2000W RMS / Peak
Bandpass Sensitivity	: 115 dB 1w @ 1m

Enclosure

Box Construction	: 15 mm Birch plywood, Protecture finish, 8 handles
Grill	: Expanded steel, cloth-backed
Input Connectors	: 8-pin Speakon with Link out, DDC prewired for LF
Rigging	: Integrated Flying Hardware
Dimensions (H x W x D)	: 460 x 1200 x 600 mm
Net Weight	: 72 kg (80 kg with Dolly board)
Shipping Weight	: 85 kg
Warranty	: 5 years limited (1 year on 'moving parts')



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