Airten V3

Key features:

- Compact high output dual 10" loudspeaker
- Small footprint ideal for DJ monitoring
- Very low enclosure resonance
- Focused 80°H x 80°V dispersion pattern
- Space saving coaxial MF/HF driver
- Fibreglass composite construction
- Smooth cellulose finish
- Integrated mounting plate

Applications:

- High impact nightclubs
- Bar, club, lounge
- DJ monitoring

This small, futuristic-styled composite loudspeaker is particularly favoured for high-end club and bar applications. Enjoy exceptional fidelity, zero resonance and accurately controlled dispersion.

Three key enhancements have been made in this latest V3 model to improve performance. The new crossover provides better frequency linearity, coherence and summation between the drivers. By introducing the Finite Element Analysis (FEA) optimised rear port, with refined aesthetics, noise and distortion are reduced while airflow is increased to reduce power compression. In addition, the diaphragm size within the compression driver has increased from 44 mm to 63 mm, allowing each driver to operate at its optimal frequency band with more efficiency and more accurate high frequency detail.

Specifications

Frequency Response	60 Hz - 20 kHz ±3 dB
Efficiency[1]	99 dB 1w/1m
Crossover Points	Passive 1.2 kHz
Impedance	4 Ω
Power Handling[2]	500 W AES
Maximum Output[3]	125 dB cont, 131 dB peak
Driver Configuration	2 x 10" LF, 1 x 1.3" HF compression driver
Dispersion	80°H x 80°V
Connectors	2 x 4-pole speakON™ NL4
Weight	20 kg (44.1 lbs)
Enclosure	Fibreglass composite
Rigging	Integral mounting system
Finish	Smooth cellulose
Colour	Custom colours available upon request

[1] Measured in half space [2] AES2 - 1984 compliant [3] Calculated

Version 1.0

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Architectural specifications

The loudspeaker shall be a passive two-way system, consisting of two high power 10" (250 mm) direct radiating reflex loaded low frequency (LF) transducers, and 1.3" (33.02 mm) diameter co-axial direct radiating reflex loaded high frequency (HF) transducer, mounted in an aesthetically designed enclosure.

The co-axial transducer shall be constructed on a cast aluminium frame, with the low frequency transducer consisting of a polycarbonate LF cone with its dust cap removed and a 64 mm (2.5") diameter voice coil, wound with copper wire on a high quality voice coil former, for high power handling and long-term reliability. The high frequency transducer shall be bolted through the rear of the magnet structure that belongs to the low frequency transducer to form a co-axial drive unit. The sound shall project through a machined waveguide that exits in the centre of the low frequency transducer and uses the 250 mm (10") baffle diameter to achieve pattern control and low distortion.

Power handling shall be at 500 W AES at a rated impedance of 4 Ω; and crossover point at 1.2 kHz using 2nd order filters (12 dB per octave). The system shall be powered by its own dedicated power amplification module with DSP management, with the wiring connection via two Neutrik speakON™ NL4 (one for input and one for link-out to another speaker), to allow for pre-wiring of the connector before installation.

Performance specifications for a typical production unit shall be as follows: a usable on-axis bandwidth of 60 Hz to 20 kHz (±3 dB), with an average 80° directivity pattern in the vertical axis and 80° in the horizontal one (-6 dB down from on-axis level) from 1 kHz to 10 kHz; maximum SPL of 131 dB peak measured at 1m using IEC268-5 pink noise;

The enclosure shall be moulded fibreglass reinforced plastic construction, with a smooth cellulose finish of any RAL colour, and shall include integral threaded inserts for the fitment of wall and ceiling mounting hardware. The external dimensions shall be (H) 303 mm x (W) 681 mm x (D) 366 mm (11.9" x 26.8" x 14.4"). Weight shall be 20 kg (44.1 lbs).

The loudspeaker shall be the Void Acoustics Airten V3.