

SCP-F Data Sheet

SCP-F

High Output Dual 18" Subwoofer
with Sensor Control Technology



The SCP-F is a high-output sensor-controlled subwoofer operating in the range 25–120 Hz. The SCP-F complements AiRAY and ViRAY systems.

The SCP-F drivers contain an integrated velocity sensor that measures the diaphragm movement in real time, compares it with the input audio signal and adjusts the amplifier driving voltage and/or current, correcting any driver inaccuracy. The sensor creates a self-optimising, closed feedback-loop in which the driver confirms precisely the power it needs to accurately reproduce the original audio signal. The key advantage is a very extended and controlled response. Any distortion produced by the driver or the enclosure is instantly corrected by the feedback.

The SCP-F contains two 18" neodymium ultra-low distortion drivers. The 4" voice coils sustain an excursion of 40 mm peak to peak at a consistent magnetic force. This design has dramatically lower distortion than typical subwoofers at longer excursion distances.

This integrated solution ensures optimal performance and protection. Sensor-controlled technology surpasses conventional subwoofer designs by offering measurable and clearly audible advantages in the impulse response, group delay, waterfall, and distortion domains. The reduced group delay results in extremely accurate and musical bass reproduction. The sound quality is far higher than conventional port loaded systems.

SCP-F rigging is compatible with both AiRAY and ViRAY systems, and is designed to work exclusively with CODA Audio LINUS loudspeaker management amplifiers as an integrated solution for DSP and sensor control, amplification, network remote control, and diagnostic. This solution ensures optimal performance and protection.

SCP-F Features

- ⊕ 2x 18" extreme high-excursion woofers with ultra low distortion
- ⊕ Extended frequency range extends down to 25 Hz (-6 dB)
- ⊕ High power handling: 3000 W (AES)
- ⊕ Integrated velocity sensor measures the voice coil movement
- ⊕ Fast transient response - the upper and the ultra low frequency are time-aligned
- ⊕ Rigging hardware for flown or ground-stacked arrays
- ⊕ Cardioid or omni-directional configurations
- ⊕ System integration with LINUS loudspeaker management amplifiers

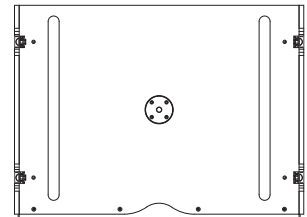
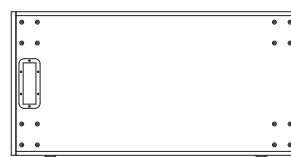
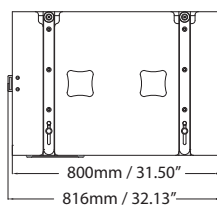
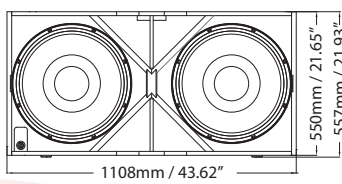


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Product type:	High Output Dual 18" Subwoofer with SC Technology
Frequency response:	25 Hz – 120 Hz (-6 dB)
Power handling AES / peak (passive):	3000 / 12000 W
Sensitivity 1 W / 1 m:*	103 dB
Max. peak SPL:*	144 dB
Amplification, cabinets per amplifier (Optimum / Maximum):	LINUS14D: 4/4
Components:	2x 18" neodymium ultra-low distortion woofers, 4" (101.6 mm) VC; 1500 W (AES) each
Input connectors:	2 x Neutrik™ NL4MP (rear) +1 x Neutrik™ NL4MP (front)
Velocity sensors output:	1 x Neutrik™ NC3MAV (rear) + 1 x Neutrik™ NC3MAV (front)
Nominal impedance:	4 Ω (1+/1-)
Enclosure material:	Birch plywood
Finish:	Polyurea black coating
Suspension:	Flying hardware integrated
IP rating options (IEC 60529):	Standard IP54
Weatherproof protection options:	Standard IP55: IP55 (Amphenol connectors) MG1 (Marine Grade 1): IP55
Dimensions (WxHxD):	1108 x 800 x 550 mm / 43.62 x 31.50 x 21.65 " 1108 x 816 x 557 mm / 43.62 x 32.13 x 21.93 " (incl. hardware)
Net weight:	95 kg / 209.4 lbs

*Measured with pink noise 6 dB crest factor. Half-space loading.



Other System Related Products



AiRAY

High Output 3-way Bi-amplified
Line Array System



ViRAY

Compact 3-way
Line Array System



LINUS T-RACK

12-Channel DSP Amplifier
Rack

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