

SC3-F



SC3-F

Sensor controlled Bass Extension for AIRLINE LA12

- Increases the long throw capability of AIRLINE LA12
 - Enhances the systems low frequency headroom
 - Overlaps both the low range of LA12 and the SC8 reducing the need of additional subs
 - Provides 15" sonic signature
 - Reduces investment cost
 - Long excursion 15" drivers with integrated velocity sensor for feedback loop control
 - Extended frequency range 28 - 200Hz (-6 dB)
 - Ultra low distortion
 - Fast transient response; time aligned upper & ultra low frequencies
 - Integrated rigging system for flown or ground-stacked arrays with AIRLINE LA12
 - System Integration with the LINUS racks
- System components: AIRLINE LA12, SC8, SCP, LINUS10, LINUS8

Technology

The SC3-F employs Coda Audio's award winning sensor controlled technology. Combining closed feedback-loop control with large, low noise laminar flow ports, the SC3-F offers increased output and well controlled response.

Sensor controlled technology surpasses conventional subwoofer designs by offering measurable and clearly audible advantages in the impulse response, group delay, waterfall and the distortion domain. In fact the range 40 - 200 Hz is time aligned while the group delay increase slightly in the range 28 - 35 Hz. The reduced group delay results in extremely accurate and musical bass reproduction. The sound quality is far in advance of conventional port loaded systems.

Description

The SC3-F is NOT a subwoofer, it is a sensor controlled bass extension system operating in the range 28 - 200 Hz which overlaps both the low range of AIRLINE LA12 and the SC8 subwoofer providing essential more energy and control in the lower range of the system.

Incorporating dual 15" drivers in a compact, vented enclosure it provides a distinctive 15" signature punch to the system.

The 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. It is a self-optimizing, 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.

Transducers

The SC3-F is equipped with two extremely long excursion 15" neodymium ultra low distortion drivers with integrated velocity sensor that measures, compares and controls cone movements. The neodymium motor delivers extreme high magnetic flux for increased efficiency. The 4" voice coil is 36 mm high, ensuring ultra linear excursion of 26 mm / pp at consistent magnetic force. State of the art carbon-fiber cones ensure maximum stiffness and low moving mass. Three aluminum shorting rings reduce inter-modulation distortion; minimize induction variation while reducing thermal compression. This design dramatically reduces the distortion of a typical subwoofer at longer excursion levels, and improves the overall sound quality and performance characteristics of the cabinet. The sensor is in fact an additional voice coil connected to the loudspeakers voice coil in a high precision, magnetically shielded system.

System Solution

The SC3-F is designed to work exclusively with dedicated Coda Audio LINUS racks as an integrated solution for DSP and sensor control, amplification, network remote control and diagnostic.

The integrated solution ensures optimal performance and protection.

TECHNICAL SPECIFICATIONS SC3-F

Type:	Sensor controlled bass extension
Application:	Bass Extension for LA12
Frequency response:	28 - 200 Hz(-6 dB)
Power handling (AES / peak):	2500 W / 10000 W
Sensitivity 1 W / 1 m:*	103 dB
Maximum output peak:**	143 dB
Components:	2 x 15" neodymium ultra low distortion woofers 4" (101.6 mm) voice coil, 1250 W (AES) each
Nominal impedance:	4 Ohm, +1 / -1
Cabinets per channel:	1- 2x (LINUS10)
Input connectors:	2x Neutrik™ NL4MP (rear) + 1x Neutrik™ NL4MP (front)
Velocity sensors output:	Neutrik™ NC3MAV (rear) + Neutrik™ NC3MAV (front)
Suspension:	allows curving (0°, 2°, 5°)
Enclosure material:	Baltic birch
Finish:	Black polyurea coating (water resistant)
Dimensions:	111x 420 x 680 mm
Net weight:	72 kg
* Half-space loading	
** Measured with pink noise 6 dB crest factor	

Applications

- SC3-F flown on the top of AIRLINE LA12 array (28 - 200 Hz) – increases the array length and enlarges the system's long throw capability
- SC3-F flown beside the AIRLINE LA12 array (28 - 100 Hz) optimizes the system's horizontal directivity
- SC3-F in array between AIRLINE LA12 cabinets (28 - 200 Hz) avoids balcony reflections
- SC3-F ground-stack with AIRLINE LA12 (28 - 200 Hz) – compact and powerful solution for smaller venues

Options

Standard RAL colours and weather protection options are available on request.

ACCESSORIES

- Frame
- Front dolly (single cabinet)
- Transport dolly (4x SC3-F)
- Protection cover for single cabinet
- Protection cover for 4x SC3-F
- Hybrid cable 10 m, 20 m
- Link cable 0.7m

RIGGING POSSIBILITIES

LA12 + SC3-F

SC3-F

