

Uniline Series

Dedicated UNILINE bass speaker

One Neodymium 15" with 4" ventilated voice coil.
Dual Interactive chamber with K-Horn™.

Features

High efficiency and high power
Captive mechanical and rigging system

Applications

Uniline low frequency sound reinforcement
High power & high precision
Cardioid and/or sub arc applications

Specifications

45 Hz – 160 Hz
1150W AES
102 dB SPL @ 1W / 1m
138 dB SPL Max @ 1W / 1m
8 Ohm
15.6" x 27.6" x 29.7" (397 x 700 x 755 mm)

Single channel amplification
Digital processor mandatory

The UL115B is a line array low frequency speaker. It is fitted with one convection cooling Neodymium 15" woofer loaded by a complex acoustic load combining the APG double interactive chamber and K-Horn technologies. This type of load allows increasing the efficiency by 3 dB gain on the bandwidth. Here the front chamber opens on a K-horn™ design giving it an additional 3 dB gain. Associated to the convection cooling technology used with the neodymium woofer thermal compression is reduced by nearly 2 dB. All these optimization naturally conduct to a very impressive dynamic and an important Max SPL.

Sophisticated rigging system: fully integrated 4 points rigging system (with no lose part), 10 handles on the sides, 2 rear connectors and one front connector to ease the cabling in cardioid configurations. The UL115BWB is a wheel board that enables to transport up to 4 UL115B, rigged together and fixed to the wheel board without any additional part. The FCUL115B option is a bell flight case for 2 UL115B fixed on a UL115BWB wheel board. The ULTRUSS is the common bumper to all UNILINE speakers (UL120, UL210D and UL115B), it is used to fly the system and as an intermediate bumper or as a base for stacked configurations. The use of APG digital processor is mandatory for UL115B.

UL115B



UNILINE UL115B low frequency speaker

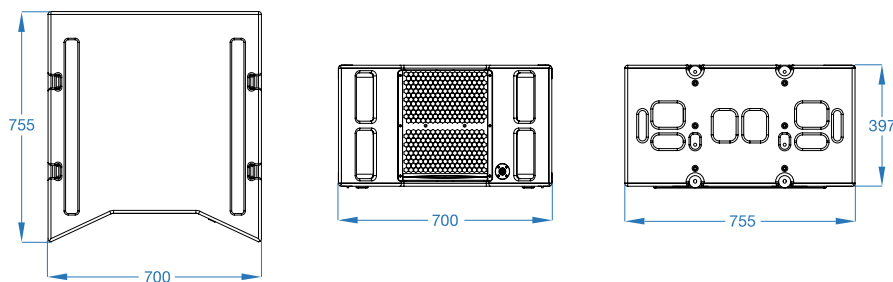
The UL115B is the low frequency speaker dedicated to the UNILINE line array speaker. The rigging and transport systems have been optimized for very quick and secure set-up and transport. The 4 point rigging system has been designed to enable cardioid configuration where one speaker is turned around in the cluster. The mechanical system enables to adapt to all kinds of set-up: flying of simple clusters, clusters combining UL115B and UL120/D, simple or combined stacked configurations.

The UL115B are designed to be grouped in a vertical cluster or together with UL210 line array speakers. The combinations are almost unlimited: vertical or horizontal lines, cardioid configurations, or sub arc, or cardioid sub arc, flown or stacked... The flying of UL115B clusters is done with the same bumper as UL210 and UL210D. The wheel board transport system makes the handling, set-up and stocking of the speakers very quick and easy.

APG

UL115B

Technical specifications



Features

UL115B

Frequency range without processor (± 3 dB)	50 Hz to 160 Hz
Frequency range with processor (± 3 dB)	45 Hz to 110 Hz (1)
Sensitivity @ 1W / 1m	102 dB SPL
Maximum level @ 1m	132 dB SPL
Peak level @ 1m	138 dB SPL
Nominal impedance	8 Ohm

Enclosure Components

Transducers	1 x 15" with internal cooling
Coil Diameter	4" (100 mm)
Type of load	Interactive chamber + K-Horn™ type

Power Requirements

Recommended Amplifier (2)	1150 to 2300 W
Peak	3000 W
AES (3)	1150 W

Construction and characteristics

Cabinet	15 mm Finnish Birch plywood
Coating	Black impact resistant Aquarethane paint
Protection Grill	Acoustically transparent perforated steel, 2mm thick
Front panel	Black, 5 mm acoustic foam
Connectors	3 x SPEAKON NL4MP (4)
Handles	10 recessed handles
Dimensions (H, W, D)	15.6" x 27.6" x 29.7" (397 x 700 x 755 mm)
Net unit weight	98 lb (45 kg)

Options et Accessories

UL115BWB	Wheel Board/Dolly for transport of UL115B (1 to 4 stacked speakers)
FCUL115H2	Bell flight case for 2 x UL115B on dolly
ULTRUSS	Versatile steel frame for Uniline rigging and stacking
FC2ULTRUSS	Flight case for 2 x ULTRUSS

Signal Processing

The dedicated APG processors allow combination of different types of subwoofers with top speakers. These processors provide with active crossover, EQ, speakers protection, standard filtering functions for a stereo system including subwoofers. For digital processors, APG provides an exhausted bank of presets of system configuration allowing creative, quick and secure deployment and offering a high level of stock modularity and compatibility.

(1) The UL115B frequency response is generally limited to 80 Hz. However thanks to the processor it is adjustable between to 60Hz or 110Hz depending on the system configuration.

(2) In order to take full benefit of the dynamic performance, sonic quality and reliability of the speakers, the recommended amplification must at least correspond to the AES rating. Lesser amplification is acceptable for applications requiring less power (near-field, distributed systems,...), whilst not being less than half the AES rating.

(3) The AES power handling corresponds to a 2 hour test using weighted pink noise (peak factor of 6dB) through a frequency range of one decade.

(4) The 4 pins Speakon connectors are wired 1+, 1- for back input connectors and 2+, 2- for the front connector.

5 YEARS WARRANTY
*A five years warranty covers passive filters, transducers and compression drivers. The warranty does not cover cosmetic damages and damages due to misuse, improper installation, or damages caused by alterations.

Diffusion : November 2013

APG has a policy of research and development aimed at improving its products. As such, new materials, manufacturing methods and changes in principle can be introduced without prior warning. As a result, an APG product may differ in some aspects to its published description. However, unless otherwise indicated, measurements and features will only exceed previously published data..