

Uniline Series

Line Array Compact Speaker

Narrow coverage

Three acoustic ways

2 x 6,5" Neodymium Low/Mid cone drivers

(w/1.5" voice coil)

5" MF + 0.5" HF Neodymium, coaxial drivers

Features

Very compact narrow coverage modular line array enclosure

Constant horizontal directivity of 70°

Integrated, intuitive and quick rigging system

Applications

Medium to long throw sound reinforcement

Main element which can combine with UL206W down fill

Full range line array for vocal and background music

Hi-mid section line array for high SPL live music

System Specifications

65 Hz - 19 kHz (wide band mode)

Lo/Mid : 300 W AES

Mid/Hi : 80 W AES

Max peak SPL@1m : 128 dB

Dimensions : 8,3"x 21,3"x 16,1" (210x540x410 mm)

Bi-amplified operation

APG digital processing mandatory

LF reinforcement with optional UC115B

VLF reinforcement with 18" subs (optional)

The UC206N Uniline Compact line array incorporates 3-way acoustic design. The Lo/Mid section is fitted with two 6.5" cone drivers loaded in compression and optimized for low frequency reproduction. Mid/Hi coherency comes coaxial device fitted with 5" and 0.5" Neodymium drivers mounted to an Isotop15™ waveguide.

This Isotop™ load employs an active annular horn and iso-phase plug to achieve acoustic impedance adaptation and performance comparable to traditional compression drivers, but with greatly increased bandwidth and power handling. Twin 6.5" loudspeakers serve Lo/Mid bandwidth between 80Hz and 450Hz. The mid-range 5" speaker displays ultra-low distortion and extends from 450 Hz to 5 KHz. The 0.5" HF driver operates smoothly from 5 KHz to 19 KHz. Directivity control, compression, transducer phase alignment and protection are all established through the UC206's advanced acoustic horn.

The mechanical system is totally captive and allows use of Uniline Compact either rigged or stacked.

UC115B enclosure is the optional dedicated low frequency cabinet that offers specific ergonomics for cardioids LF pattern control and rigging. APG subwoofers allow infra bass extension. Use of an APG digital processor is required.

UC206N

Preliminary Data



UC206N Line Array Speaker

The Uniline Compact is a modular line array system composed of 3 elements: UC206N, UC206W and UC115B. Thanks to its acoustic and mechanical modularity, it can cover an extended field of applications, coverage and throw. The APG Uniline Compact UC206N line array element specifically offers a narrow horizontal coverage and constant directivity across the whole spectrum. Fast and accurate inter-enclosure rigging system provides one-degree steps angle adjustment from 0° to 15°.

UC206N can be integrated as a main stereo FOH system for narrow areas, providing a high directivity index to reduce side wall reflection, improve critical distance indoor and throw outdoor. It can also be used in combination with UC206W for down fill, UC115B to increase headroom in the lows and low-mids, and APG subwoofers like UL118B or TB218S to increase the bandwidth and dynamic in the very low frequency range.

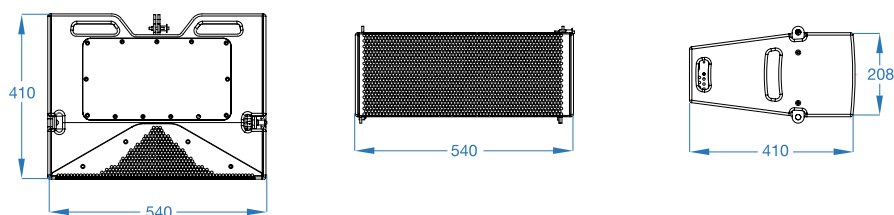
UC206N and UC206W share the same technologies and components; the only difference is the shape of the front horn and the resulting horizontal dispersion.

Uniline Compact modular line array is a versatile solution for a wide range of applications, indoor or outdoor, from vocal PA, sports, corporate, theatre to live music events. It provides high dynamic and sonic performance in a very compact, lightweight and visually discreet format, easy to use professional tool thanks to its advanced ergonomics.

APG

UC206N

Technical specifications



Features

UC206N

| | lo/mid | mid/hi |
|----------------------------------|--------------------------|----------------------------------|
| Frequency response, 2 way (1) | 65 - 450 Hz | 0,6-19 kHz |
| Frequency response, 3 way (1) | {80 - 120} - 450 Hz | 0,6-19 kHz |
| Frequency response, 4 way (1) | {80 - 120} - 450 Hz | 0,6-19 kHz |
| Efficiency 1W @ 1m | 99 dB SPL | 101 dB SPL |
| Max level @ 1m | 120 dB SPL | 120 dB SPL |
| Peak level dB SPL @ 1m | 126 dB SPL | |
| Directivity, angles to -6 dB (2) | 70°H (constant F>450 Hz) | 70°H (constant) x 15°V (average) |
| Nominal Impedance | 16 Ohm | 16 Ohm |

Enclosure Components

| | | |
|-------------------|--------------|---------------------------------------|
| Transducers | 2 x 6.5" | 1x5" Nd / 1xHF 0.5" coaxial |
| Coil diameters of | 38 mm (1.5") | 38mm (1,5") / 25mm (1") |
| Type of load | Bass Reflex | Isotop™ and constant directivity horn |

Power Requirements

| | | |
|----------------------------|-------------|------------|
| Recommended amplifiers (3) | 200 à 600 W | 60 à 160 W |
| Peak | 900 W | 500 W |
| AES (4) | 300 W | 80 W |

Construction and characteristics

| | |
|--------------------------|--|
| Cabinet | 12 mm plywood birch |
| Coating | Black, aquarethane, impact-resistant finish |
| Front grill | 2 mm, acoustically transparent |
| Connectors | 2 x Speakon NL4MP (5) |
| Handles | 4 x internally recessed handles |
| Rigging System | Captive 3-point system, 0° to 15° angulation (1° step) |
| Dimensions (H, L, W) | 8.3" x 21.3" x 16.1" (210 x 540 x 410 mm) |
| Net weight per enclosure | 36 lb (16,5 kg) |

Options et Accessories

| | |
|---------|--|
| UCTRUSS | Versatile steel frame bumper for Uniline Compact rigging / stacking / transition |
| UCRAIL | Light steel frame rigging bumper for Uniline Compact |

Signal Processing

The dedicated APG processors allow combination of different type of subwoofer 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) In standalone mode, the UC206N low frequency cut-off is approximately 65 Hz but it depends on the number speaker of clusters. In extended mode and in complete mode the frequency crossover is adjustable between 80 Hz and 110 Hz depending on the configuration of the system.

(2) The 105° horizontal directivity is constant from 450 Hz up to high frequencies. In the vertical plane, the index directivity increases (and the acoustic opening decreases) progressively when the frequency grows. By consequence, the vertical coupling is non-interferential up to the high bandwidth. However we can define an 15° average value for the vertical acoustic opening that corresponds to the max angle between 2 speakers.

(3) 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.

(4) 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.

(5) The 4 pins SPEAKON connectors are wired 1+, 1- for back input connectors.

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 2015

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..