





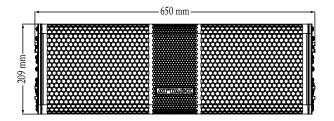
DATASHEET







Dimensions	209 mm x 650 mm x 367 mm (HxWxD)
Weight	25.6 kg
Enclosure	MadeFibra®
Finish	Textured black polyester
Protective Grille	Hex-stamped steel
	Black textured paint coating
Audio connection	Female XLR and Male XLR loop thru
AC connection	IP65-3P with Looping Output
	NBR14.136 - 20A Output



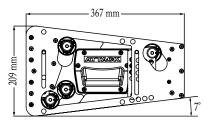
The VSL206 is a self-powered, compact and high performance two-way loudspeaker. It was designed for small areas, with high performance and exceptional coverage. The response is flat for a wide range from 120 Hz to 20 kHz. The combination of 100° horizontal coverage with the high headroom factor provides high resolution for signals throughout the coverage area.

The VSL206 is the choice for arrays in locations that offer few space and for applications that do not require high power in wide distances or where reduced size and weight are advantages. Flexibility and practicality in the assembly of the system are guaranteed by the use of materials of high safety standard and mechanical resistance. The Flown mode system is made of steel and is laser cut ensuring maximum precision in the fittings and the possibility of stacking up to 16 units in a single Bumper.

The relationship between power, efficiency, size and ease of use makes the VSL206 a surprising and remarkable experience in performance and it can be used in theaters, churches, clubs, sports gyms and shows.

The high frequency section is composed of a compression driver with an 1-inch throat, 1.77-inch voice coil with a polyester diaphragm, coupled to a waveguide, and this assembly coupled to a constant directivity horn. It uses a dedicated amplification channel and a digital signal processing





system with FIR filters that corrects the frequency and phase response in order to perfectly match the bass section.

The low frequency section has two loudspeakers with a 6-inch cone and an 1.5-inch voice coil, with a dedicated amplification channel and a proper digital processing system with specific adjustments that enable an extended frequency response in this section.

Being a self-powered system, the VSL206 incorporates two high-power class-D amplification channels, with a dedicated limiter that protects and extends transducers life at very high power levels and prevents non-linear operating situations. The amplification and processing system is mounted in an individual unit that allows for an extremely easy in-field exchange. The amplifier and processor are powered by a switching mode supply that boasts a PFC circuit capable of providing constant power from 100 to 240 V AC.

The VSL206 is ideal for applications as Frontfill or Sidefill using the SPU-VSL206 accessory or the BUMPER VSL206 accessory. Gallery coverings can also be performed using the SPU-VSL206 accessory.

Options for the VSL206 include white polyester paint (custom-made) and the EMV-VSL206 which is a structure for stacking and transporting multiple units.

APPLICATIONS

KEY FEATURES

- Exceptional relationship between power, efficiency and size.
- Wide horizontal coverage and good polar pattern.
- Compact and low profile front view.
- Practical and versatile connection hardware with possibility
- of mounting in line arrays, frontfill, sidefill and downfill.
- Perfect phase coherence enabling coupling with other Versa Red products (it has 4.9 ms of latency).
- Shows.
- · Corporate events.
- Sports centers, theaters, churches and clubs.
- Sidefill.
- Frontfill.
- Coverage under galleries.



Compact L206Line Array

DATASHEET

Acoustical

Operating frequency range ¹	100 Hz - 20 kHz
Frequency response ²	120 Hz - 20 kHz -6 dB
Phase response	200 Hz - 20 kHz ±40°
Maximum linear average SPL ³	
Free field	112 dB (Z) / 111 dB (A) @ 1m
Ground plane	117 dB (Z) / 116 dB (A) @ 1m
Maximum linear peak SPL ⁴	
	124 dB (Z) / 123 dB (A) @ 1m
Ground plane	129 dB (Z) / 128 dB (A) @ 1m

Coverage

Horizontal 100°

Vertical Variable, dependent on stacking height and configuration

Transducers

LOW frequency HIGH frequency

Two 6-inch Speakers / Nominal impedance 4 Ω / Voice coil diameter 1.5-inch Compression driver / Nominal impedance 8 Ω / Voice coil diameter 1.77-inch / Diaphragm diameter 1.77-inch / Throat 1-inch / Polyester

Audio input

Connectors Input impedance Connection	Differential, electronically balanced Female XLR and Male XLR loop thru 10 k Ω Unbal and 20 k Ω Bal Pin 2: signal + / Pin 3: signal - / Pin 1: ground >50 dB, typically 70 dB (50 Hz - 500 Hz)
	+4 dBu (1.23 V rms - 1.74 Vp) continuous is typically the
Maximum input level	beginning of signal limitation with noise or music +20 dBu

Amplifier

Type Class D THD - IMD <0.05%

AC Power

Connectors	PFC pre-regulator and Flyback converter IP65-3P with Looping Output, NBR14.136-20A Output 100 - 240 V AC rms, minimum starting voltage 100 V AC rms
Standby current consumption (mA rms)	300mA@100 V AC / 230mA@127 V AC / 180mA@220 V AC
Maximum continuous current consumption for long periods (A rms)(>10seg) ⁵	1.8A@100 V AC / 1.4A@127 V AC / 800mA@220 V AC

General information

Indicators Led Power / Led Signal / Led Limiter / Led CSD Overvoltage, undervoltage, short-circuit, temperature, DC, Protections individual limiter per channel, audio starting fader Ventilation Micro ultra silent fan with speed control as a function of temperature

NOTES

1 Recommended maximum operating frequency response. The frequency response depends on the acoustics conditions of the environment.

 2 Measured with 1/3 octave resolution frequency in semi-anechoic chamber at four meters of distance. Frequency response with maximum variation of ± 3 dB.

³ Measured with pink noise (FC=12dB), linear average SPL maintained for at least one hour, microphone on the axis. The average SPL value (measured with Z-weighted curve) in free field is used in the GLL file for use in prediction in the Ease Focus and Ease softwares.

⁴ Measured with pink noise (FC=12dB), linear peak SPL maintained for at least one hour, microphone on the axis.

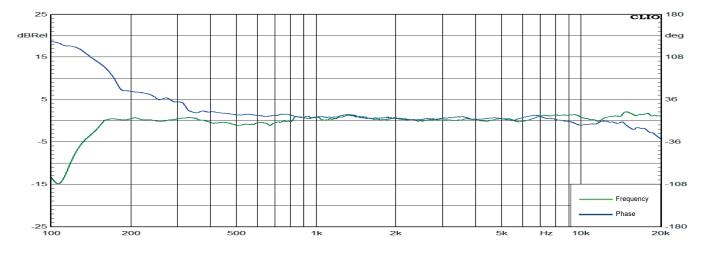
⁵ The AC power cable must have a gauge compatible with the current transmission capacity required by the loudspeaker in continuous current consumption regime, otherwise it will not deliver the specified power to the transducers. Maximum current value measured with pink noise (FC \geq 12dB).



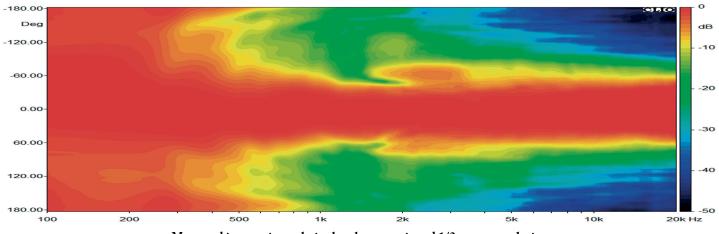


ACOUSTIC CHARACTERISTICS

Frequency and phase response

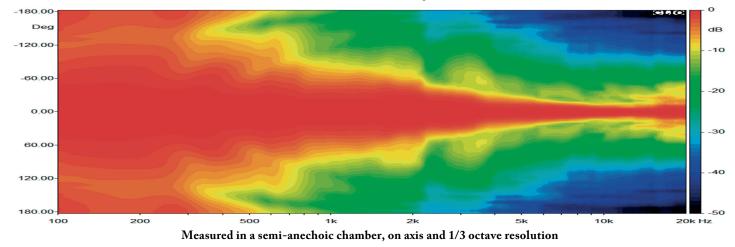


Measured in a semi-anechoic chamber, on axis and 1/3 octave resolution



Horizontal directivity

Measured in a semi-anechoic chamber, on axis and 1/3 octave resolution

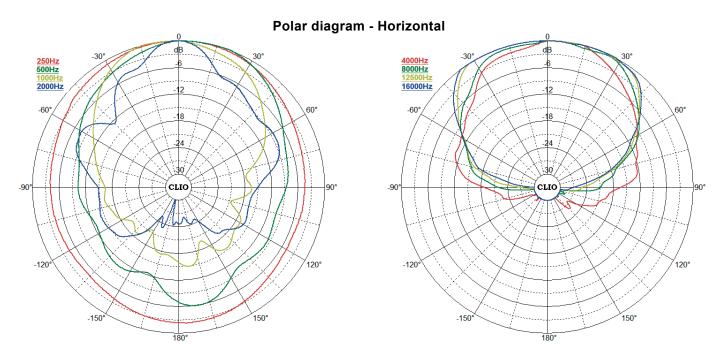


Vertical directivity

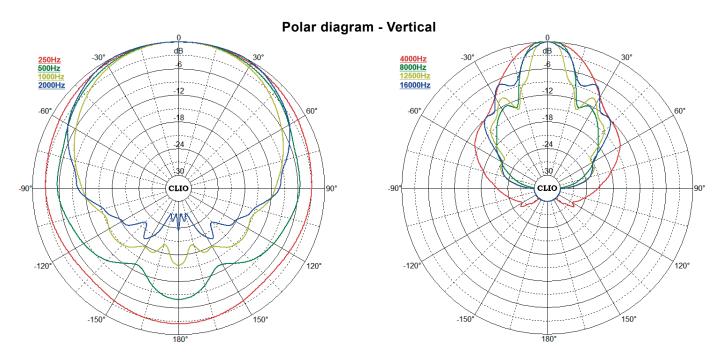




ACOUSTIC CHARACTERISTICS



Measured in a semi-anechoic chamber, on axis and 1/3 octave resolution



Measured in a semi-anechoic chamber, on axis and 1/3 octave resolution



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In order to improve our products, the characteristics contained in this datasheet may be changed without prior notice.