

V312 Series



The V312 line array speaker is a two way three frequency division system.

Two 1.75-inch tweeters, two 6.5-inch neodymium magnetic mid range units, and one 12-inch neodymium magnetic bass unit form a combination with great dynamic margin, greatly reducing the weight of the box. It provides extremely high sound pressure/volume ratio, and there is a built-in frequency divider between the high and mid range speakers, which is externally driven by two power amplifiers. The mid and low frequency section uses a high-power 12-inch paper basin neodymium magnetic bass unit. The intermediate frequency part is composed of two 6.5-inch neodymium magnetic intermediate sound units with high sensitivity, and the high frequency part uses two 1.75-inch high sound units. Through a plane wave converter, the high-frequency audio waveform is converted from spherical wave to equal phase plane wave, which greatly reduces the high-frequency interference effect and greatly improves the sound clarity at a long distance. At the same time, an exponential curve constant pointing horn is combined to produce a consistent wavefront.

The V312S is a single 18-inch inverse-phase type ultra low frequency speaker, which in combination with the V312 speaker can expand the low-frequency response of the system. A high-power subwoofer unit is used, completely free from the airflow noise of a regular subwoofer during high dynamics. A high-performance 18-inch unit uses a 100mm voice coil paper basin, bringing efficient and large-scale dynamic output. The product can be used with V312 through hanging, stacking on the ground, and other methods. The box part is made of high-strength birch composite plywood, and multiple strengthening structures are used inside the box to fully reduce energy loss caused by box resonance, making low-frequency sound stronger and more impactful under high-power and high sound pressure conditions.



V312 2 x 10" 3-WAY PASSIVE MF/HF ENCLOSURE

- High frequency, medium frequency, and low frequency all use neodymium magnetic units
- High sensitivity and better sound quality
- The adjustable angle of each box is 0-10, adjustable every 1 degree
- Equipped with precision lifting system
- Low frequency floor level is lower, thick and full,with high sound pressure level
- Unique box design, small size, light weight

V312S 1 x 18" LF ENCLOSURE

- Use a high-power 18-inch bass speaker
- Can be used with V312 to extend the floor level of low frequency
- The impedance adopts an 8 ohm design, which can be connected in parallel with two speakers, saving the number of power amplifiers, using small-sized cabinets, reducing the cost of the entire system, and facilitating transportation

V218S PASSIVE SUBWOOFER

DESIGNED FOR V10/V312/V310 SYSTEMS

It is a subwoofer that brings surging and powerful bass to the system. While it is added for more low end, is the main woofer and the V312S becomes the subwoofer, greatly enhancing the system sound reinforcement effect.

Specification

	V312	V312S
MAX SPL ¹ PEAK ²	LF 131dB / MHF 138dB(peak) LF 400W / MHF 250W	135dB(peak) 1000W
WEIGHT	31kg	52kg
Cabinet type	3-way passive line array	passive line array woofer
Frequency response	60Hz - 20kHz (-10dB)	35Hz-180Hz (-10dB)
Coverage (H × V)	90 × 10 degree	-
Sensitivity (1W@1m)	LF: 99dB / MHF: 108dB	99dB
Crossover frequency	250 Hz	-
LF Driver	1 × 12" neodymium	1 x 18" / 4" voice coil
MF Driver	2 × 6.5" neodymium	-
HF Driver	2 × 1.75" neodymium compression driver	-
Impedance	LF: 8 ohm / MHF: 8 ohm	8 ohm
Dimensions (W × H × D)	715 × 357 × 410mm	715 × 607 × 670mm

1- 1m, free sound field
2- IEC filtered noise with a peak factor of 6dB

SUGGESTED SETUP CONFIGURATION			V312 +V312S +V218S		
4	V312 Line Array Element	1	SM46 Self-adaptive Sound Field Controller	1	QX2-4000 Amplifier
2	V312S Line Array Subwoofer	1	AC 48II Audio Processor	1	QX2-3000 Amplifier
2	V218S Line Array Subwoofer	1	QX4-6000 Amplifier	1	QX2-6000 Amplifier