



Application:

PA system for multi-purpose spaces, houses of worship, auditoriums, clubs, restaurants, karaoke bars, music bands.

Kit maximum output SPL 130 dB

Total kit power handling 2100 W

Frequency range 46 Hz-17 kHz

Coverage 140°H x 15°V (array effect)

Quick kit mounting system

Adjustable sound column height (by means of speakers stand)

Adjustable vertical tilt of VA308.05 from -5° to +5° (optional mounting bracket WM3)

Scalability: can be used as a stereo set or a monostack

Satellite: line source loudspeaker – sound column composed of 8 x 3" full range speakers

Subwoofer: Active subwoofer with 12" loudspeaker (neodymium magnet)

Built-in amplifier 700 + 350 W RMS with DSP engine for FIR sound processing

LCD display for information output and system setup

USB port for system setting by personal computer

Built-in noise generator for live sound setting

System menu for change sound setting: levels, EQ, separate components delay and general system delay

Intuitive navigation through the system menu by means of encoder

Ability to save 10 user presets

Kit Contents:

• Compact line source speaker VA308.05	2 pcs.
• Active subwoofer ND112-P.05	2 pcs.
• Adjustable speaker stand PSR-01	2 pcs.
• Connecting cables	2 pcs.
• USB cables	2 pcs.

Active PA System



VA308.05 Compact Speaker

Compact acoustic system **VA308.05** consists of 8 full-range speakers, installed in a vertical line. Transducers, placed as a line array system, create a cylindrical waveform. The sound pressure level decreases by 3dB each time the distance doubles. As a consequence, it is possible to double coverage for the same acoustic pressure. Due to lower level of reflections from ceiling and walls **VA308.05** guarantees excellent result in reverberant acoustic conditions.

Besides, the loudspeakers, consisting of fullrange speaker group, has high linear phase response, which together with their very low harmonic distortion gives very clear sound reproduction in a vocal range.

All the above mentioned features allow to ensure "long-throw" and very flat coverage of the target area. High resistance to the acoustic feedback makes the loudspeaker ideal for karaoke-bars, where non-professional users enjoy the microphone.

The speaker cabinet is made of metals: side walls – aluminum profile, rear, front panels and grid – steel. Cabinet coating – powder paint.

The signal is connected via **SpeakON**, located on the rear panel of the loudspeaker.

Active Subwoofer ND112-P.05



Active subwoofer **ND112-P.05** is based on 12" woofer (B&C SPEAKERS, Italy), installed into the front panel of the cabinet.

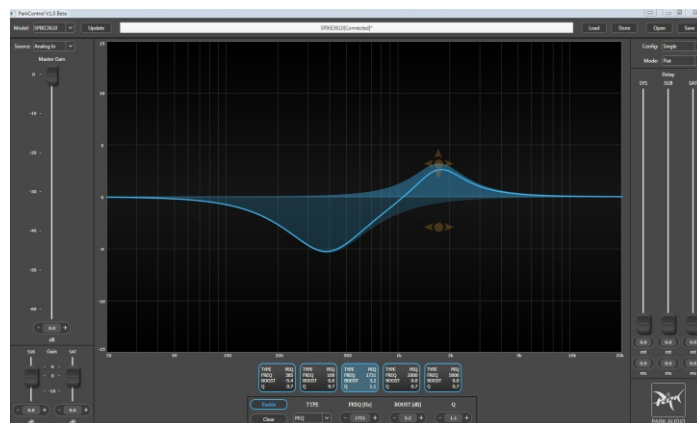
Acoustic design - bass reflex.

The **ND112-P.05** cabinet is made of birch plywood with black water-polymer coating. The front panel of the loudspeaker is covered with a decorative protective steel grid. Additional protection against moisture is provided by acoustically transparent foam, glued to the inner surface of the grid. Two ergonomic handles for carrying are located on both sides. The flange for speaker stand is located on the top of the subwoofer.

The class D amplifier (700 W + 350 W) is installed on insulated compartment into rear

The amplifier is equipped with **DSP** engine, which provides functions of crossover, optimal EQ, time alignment, limiting and speakers overload protection

The system settings (configuration, modes, EQs, delay, user presets, etc.) are performed by **ParkControl** software via personal computer. The amplifier is connected to the computer via USB.

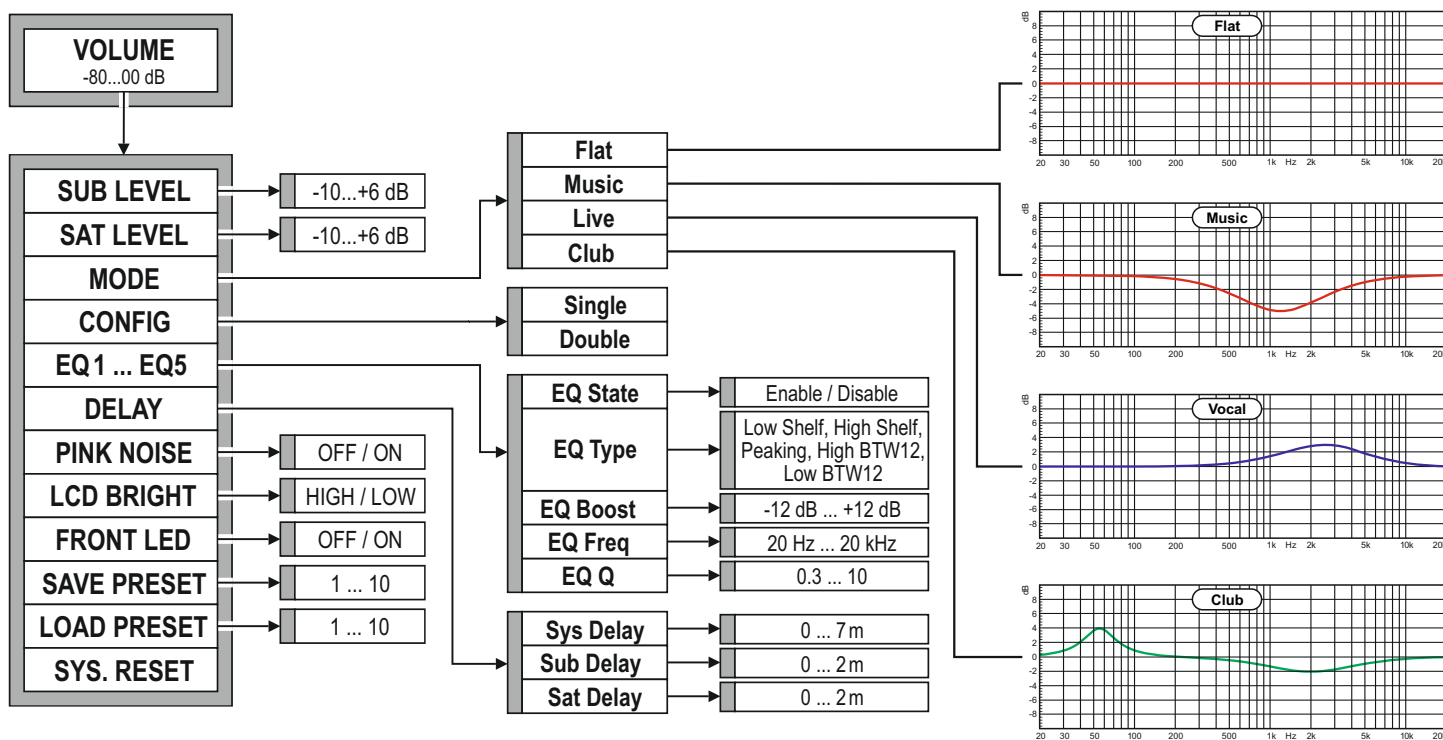


Besides, the system settings can be done via system menu on the LCD display of the built-in amplifier. Intuitive navigation through the system menu is performed via encoder

The amplifier has switching power supply and forced cooling system with smoothly variable intensity.

It is also equipped with overload and short-circuit protection, thermal protection and DC output protection.

SYSTEM SETTING MENU



TECHNICAL DATA

KIT SPIKE 3812.05

Total Power Handling	2100W
Maximum Output SPL	130 dB
Frequency Range	46 Hz – 17kHz

VA308.05 Speaker

Configuration and Acoustic Design

Line source loudspeaker - sound column.

Sealed box.

Transducer: 8 x 3" dia full range speaker

Specifications

Power Handling (Nom./Contin.)	160/320W
Nominal Impedance	8 Ohms
Frequency Range	130 Hz - 17 kHz
Sensitivity	98dB
Maximum Output SPL* (full space)	102 dB / 12 m
Coverage:	
– horizontal	140°
– vertical	15° (array effect)
Weight	7.6 kg
Dimensions	105 (W) x 683 (H) x 114 (D) mm

Subwoofer ND112-P.05

Configuration and Acoustic Design

Active subwoofer.

Rectangular cabinet, bass reflex

LF Driver: 12" dia, voice coil 3"

Specifications

Power Handling (Nominal)	400 W
Power Handling (Continuous)	800 W
Frequency Range	46 – 250 Hz
Sensitivity	95dB
Maximum Output SPL* (half space)	127 dB / 1 m
Weight	21kg
Dimensions	480 (W) x 390 (H) x 460 (D) mm

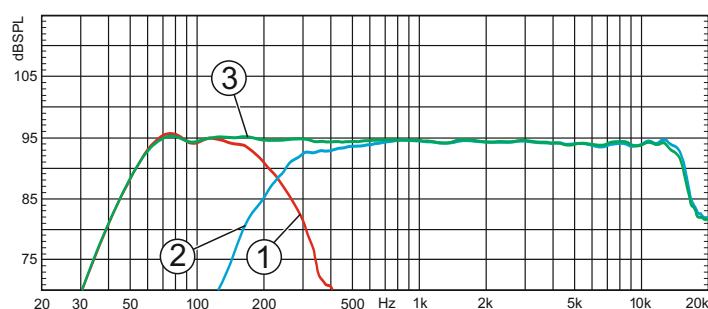
Built-in Amplifier (installed into ND112-P.05)

Power Rating (RMS):	
– subwoofer channel	700 W, class D
– satellite channel	350 W, class D
Sensitivity	775 mV
Input Impedance	10 kOhms
Signal-to-Noise Ratio	98 dB (unweighted)
Input/ line output	XLR / XLR
Power Requirements	~220/230 V, 50/60 Hz
DSP engine:	Sampling Rate 48kHz, DAC / ADC 24-bit, Internal Processing 56-bit.

Note.

*For comparison purposes and in accordance with common industry practice, maximum SPL specifications are calculations based upon transducer sensitivity, amplifier output voltage and speaker impedance.

SPIKE 3812.05 FREQUENCY RESPONSE



- ① – Subwoofer ND112-P.05
- ② – Satellite VA308.05
- ③ – Subwoofer ND112-P.05 + Satellite VA308.05

Components and total kit frequency response (SPL curve) are made via **CLIO FW11**.

Settings for measurements:

CONFIG – SINGLE, **MODE** – FLAT, **EQ 1-EQ 5 State** – Disable.

ACCESSORIES (option)



Adjustable bracket **WM3**



Case for **VA308.05** speaker
and distance rod **PSR-01**

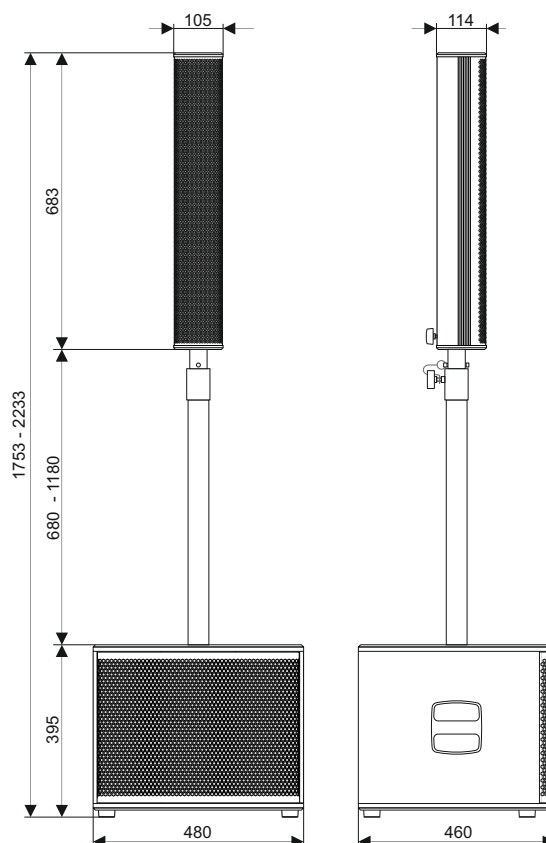


Case for Subwoofer **ND112-P.05**

SPIKE 3812.05 MOUNTING CONFIGURATIONS

STEREO-KIT

Preset: **SINGLE**



MONOSTACK

Preset: **DOUBLE**

