



SPIKE 3610

Portable series



Line source loudspeaker - sound column composed of 6 x 3" full range speakers

•
Adjustable vertical tilt from -5° to +5°

•
The active subwoofer with 10" loudspeaker (ferrite magnet)

•
Integrated in subwoofer amplifier 2 x 200 W RMS

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Frequency range 50 Hz - 17 kHz

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Maximum SPL 96 dB SPL/12 m

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Coverage 140°H x 15°V

•
Adjustable speaker stand

Compact Line Source Speaker

Application

Multi-purpose spaces, restaurants, houses of worship, auditoriums, malls and gymnasiums.

Kit Contents:

- **VA306** Sound Column 2 pcs.
- **MG 110-P** Active Subwoofer 2 pcs.
- Adjustable Speaker Stand 2 pcs.

VA306 Compact Speaker

VA306 compact loudspeaker is a system composed of 6 full-range speakers, installed in a vertical line.

The 6 transducers are placed as a line array system to create a cylindrical dispersion (waveform). The sound pressure level only decreases by 3 dB (instead of 6 dB) each time the distance doubles (minimum loss). As a consequence, it is possible to double coverage for the same acoustic pressure. It also gives more targeted sound transmission to audience areas.

By focusing the speaker sound to the audience, **VA306** guarantees excellent results in reverberant acoustic conditions and so a perfect speech intelligibility.

This system is perfect for location with complex acoustics: it avoids potential reflections from ceilings and walls to make the sound more pleasant for the audience, with an outstanding reproduction of vocal and instruments. It is also very interesting for musicians on stage, because they are not affected by sound reflections.

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

High resistance to acoustic feedback makes it possible to use in a karaoke bars, where the nonprofessional performers enjoy the microphone.

The **VA306** cabinet is made of birch plywood with Warnex black water-polymer paint finish (other colors available). Speakers are protected by steel grid. Additional protection against moisture is provided by acoustically transparent foam, glued to the inner surface of the grid.

Input connector, NL4 speakon, is located on the bottom of **VA306**. Threaded (M5) mounting holes for mounting brackets (wall mount, mount for installation on the flange, etc.) are located on the rear of the cabinet.

MG110-P Active Subwoofer

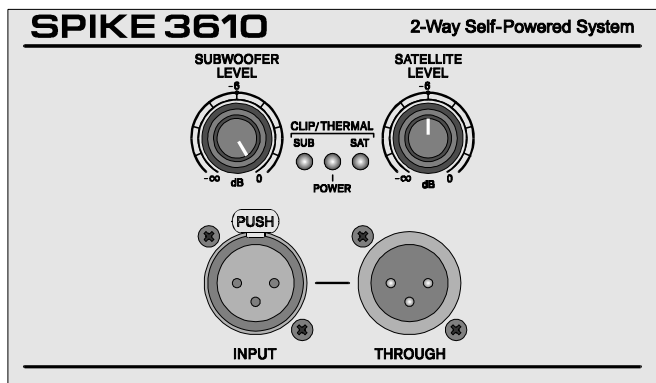
The **MG110-P** is a powered 10" subwoofer in the **SPIKE**-series loudspeaker line. It is designed to complement **SPIKE**-series sound column. Acoustic design - bass reflex.

The **MG110-P** cabinet is made of 15 mm birch plywood with Warnex black water-polymer paint embossed finish. 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.

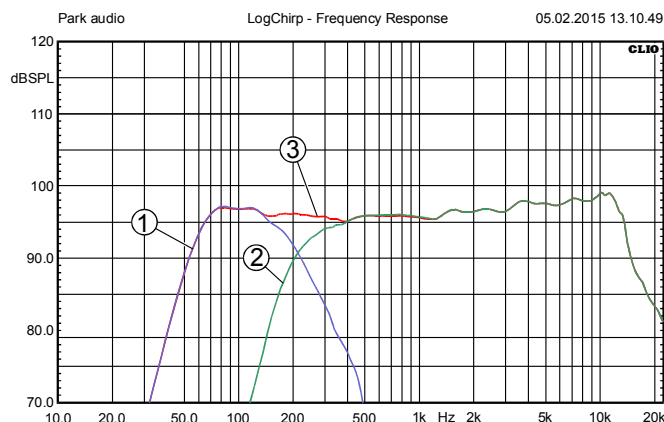
Two ergonomic handles are located on the sides, stand flange is located on the top of the subwoofer.

Two-channel D class amp (2 x 200 W) is installed on insulated compartment to the rear. The amplifier is equipped with an analog signal processing unit, acting as crossovers, optimal EQ, time alignment, limiting and speakers overload protection.

Subwoofer and satellite have separate level controls.



SPL curves are shown below:



- ① – **MG110-P** SPL curve;
- ② – **VA306** SPL curve;
- ③ – overall SPL curve.

TECHNICAL DATA

VA306 Speaker

Configuration and Acoustic Design

Line source loudspeaker - sound column.

Trapezoid cabinet, sealed box.

Transducers:

6 x 3" dia full range speaker

Acoustical performance

Power Handling (nominal/cont.)	120 / 240 W
Impedance	10 Ohms
Frequency Response*	190 Hz - 17 kHz
Axial Sensitivity	96 dB
Maximum Output SPL **	96 dB/ 12 m
Coverage:	
– horizontal	140°
– vertical	15°
Weight	6 kg
Dimensions	105 x 540 x 135 mm

MG110-P Subwoofer

Configuration and Acoustic Design

Active subwoofer.

Rectangular cabinet, bass reflex.

Transducer :

10" dia, voice coil 2"

Acoustical performance

Power Handling (nominal)	200 W
Power Handling (continuous)	400 W
Frequency Response*	50 - 250 Hz
Sensitivity	93 dB
Maximum Output **	119 dB/ 1m
Weight	16.5 kg
Dimensions	325 x 392 x 505 mm

Electrical Performance

Power Rating (RMS)	2 x 200 W, D class
Sensitivity	775 mV
Input impedance	10 kOhms
Signal-to-Noise Ratio	98 dB (unweighted)
Input / Line Output	XLR / XLR
Cooling System	forced ***
Power Requirements	~220 V, 50/60 Hz

Note.

* **VA306 + MG110-P** Frequency response: 50 Hz - 17 kHz.

** 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.

*** With smoothly variable intensity. At a normal temperature and low output level the fan is OFF.

