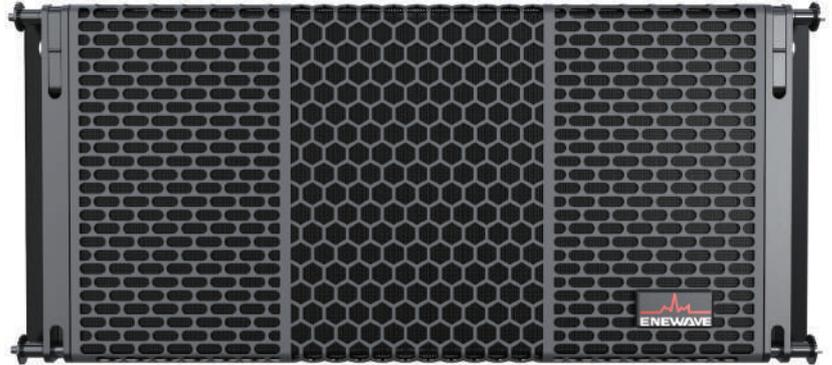


## **VLA-210**



### Description

Same as VLA-215 systems, VLA-210 systems adopt the overall system design outline of acoustic electronics concept, fully consider the characteristics of the loudspeaker system, the acoustics of the cabinet structure, and various factors such as electronic system performance, from application scenarios requirement, reverses the system's parameter requirements and structure.

VLA-210 is a medium-sized sound reinforcement loudspeaker system product to close more to the market needs, and widely used in various applications.

### Features

- Light-weight and compact, powerful output
- Modular design, line source array technology, perfect sound coupling
- Full frequency 2-way structure design, 2x 10-inch low-mid range driver, 1x 3-inch tweeter driver
- Full frequency high-precision aim pointing control
- Integrated hanging system, suitable for roadshow system or fixed installation
- Full DSP control, precise phase & consistency, better frequency response

### Application

- Roadshow sound reinforcement system
- Concert hall
- Lecture hall
- Night club, KTV stage & rooms, Hotel ball-room
- Bar
- Dancing club
- Small and medium-sized Theaters, Auditoriums, Churches, House of worship

### Structure characteristics

VLA-210 line-array full-range speaker system, composed of 2 x 10-inch neodymium low-frequency drivers and 1x 3-inch tweeter compression driver.

The cabinet made of high-strength "Baltic birch plywood" with tenon groove joining craft. The surface is coated with polyurea, which is firm, durable, and environmentally friendly. Small & compact cabinet size design.

VLA-210 can produce frequency response from 65Hz to 19KHz, hanging combine with dedicated designed subwoofer VLA-210SUB, the low-frequency response can be extended to 28Hz. Built-in VLA-210 cabinet hanging hardware adjustable the variable angle degree on 1°-12°. Symmetrical loudspeaker cabinet design with the ax-shape phase plug on the tweeter's horn.

The application of phase plug technology makes VLA-210 when the array is in the vertical line, which will produce the high-quality frequency response curve.

The VLA-210 line array speaker system is particularly suitable as the main sound reinforcement speaker system in various types of halls. Easy to complete with a diffusion angle of 100 degrees to cover a wider area. With VLA-210 SUB or VLA-221 sub-low woofer speaker can cover medium-sized stage performances, large banquet halls, theaters, bars, entertainment clubs, etc.

VLA-210 system uses VLA-210 Frame to hang the system to suspended and linked, and the system needs to be configured separately.

Configure the hanging system.

## **VLA-210SUB**

### Description

VLA-210SUB subwoofer is a dedicated design for the VLA-210 line array speaker combination in the system, cuboid cabinet structure, single 18-inch bass driver.



### Features

- 18-inch neodymium driver
- Compact design of the inverted cabinet
- High output sound pressure level
- Integrated installation system
- Polyurea coating
- Sturdy tongue-and-groove joining technology

### Application

- Roadshow sound reinforcement system
- Concert hall
- Lecture hall
- Night club, KTV stage & rooms, Hotel ball-room
- Bar
- Dancing club
- Small and medium-sized Theaters, Auditoriums, Churches, House of worship

### Structure characteristics

VLA-210SUB adopts the direct radiation phase inversion concept, utilizes computer software to predict and analyze the speaker resonance, enhances the structure to reduce the resonances, produces the low-frequency sound clean and more powerful, also dismisses the sound staining from the cabinet. Optimized the design of the chamber makes the speaker size more compact. Long-stroke high-power bass driver conjoined with advanced DSP control technology to effectively correct the overload problem caused by high power distortion and other issues. VLA-210SUB is recalled by the preset parameters of the DSP processor and can be conjoined with VLA-210 line vertical array system full-range series. Sound tuning & setup is simple and quick. The cabinet adopts high-strength 15mm "Baltic birch plywood", tongue-and-groove joining technology, thus making the cabinet strong and sturdy. There are carrying handles on both sides of the speaker, on the back of the speaker, the installation screw holes with pulleys are reserved, which is convenient for handling and moving. The cabinet surface treatment adopts the polyurea spray paint process, strong, durable, and environmentally friendly, for better protection and abrasion resistance.

VLA-210SUB frequency response can reach from 45Hz to 500Hz, 18-inch Long-stroke high-power bass driver conjoined with advanced DSP control technology, 100dB (1Watt@1m) sensitivity, maximum sound pressure level output reaches 134dB. VLA-210SUB is conjoined with VLA-210, hanging with multi-grid hanging hardware (optional accessories) for roadshow or fixed installation, or placed on the ground to be a full-range system. VLA-210 system has plenty applications for church, house of worship, outdoor show performance, banquet halls, theaters/auditoriums, nightclubs..etc.

# SPECIFICATIONS VLA-210 SYSTEM

## VLA-210

### Physical parameters (DESCRIPTIVE DATA)

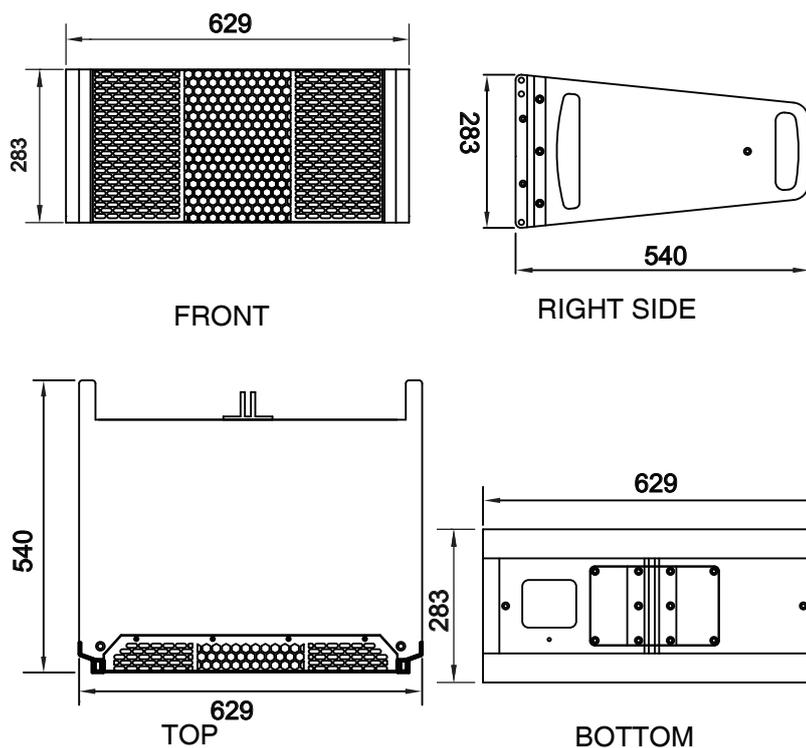
Driver	2 x 10-inch neodymium driver; 1x 3-inch driver
Structure	2-way full-range speaker, external passive crossover circuit board
Powered	Passive, outside amplifier to drive
Shape	Trapezoid cuboid
Cabinet material	15mm birch multi-layer plywood
Surface treatment	Polyurea waterproof coating
Connector	Two parallel-wired Neutrik Speak-on NL
Hanging accessories	Multi-Grid array hoisting accessories
System configuration	VLA-210 SUB subwoofer, VLA-221 Sub-low subwoofer
Size	Height: 283mm Width: 629mm Depth: 468mm
Weight	26.5kg

### NOMINAL DATA

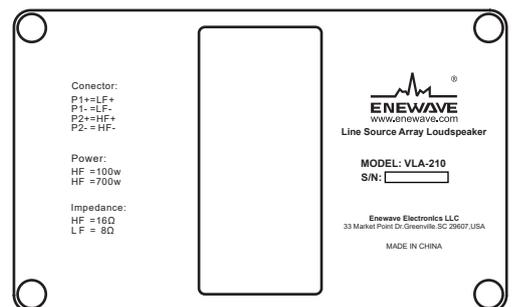
Frequency response: +/-3dB	65Hz-19000Hz
Vertical coverage angle (-6dB)	100degrees
Horizontal coverage angle (-6dB)	12degrees
Driver	LF:2X10" (75mm VC) Neodymium Driver HF:1X1.5" (75mm VC) Neodymium Driver
Power handling (RMS/PEAK)	LF:2X300W/2X1200W HF:1X100W/1X400W
Nominal impedance	LF:2X16 Ohms HF:8 Ohms or 16 Ohms
Maximum sound pressure level (calculated)	LF:136dB / HF:142dB
Crossover point	DSP Processing

### Dimension diagram

Unit: mm



### Input Panel



# SPECIFICATIONS **VLA-210 SYSTEM**

## **VLA-210SUB**

### Physical parameters( DESCRIPTIVE DATA)

Driver	1 x 18-inch neodymium long-stroke high-power bass driver
Powered	Passive, outside amplifier to drive
Shape	Cuboid
Cabinet material	15mm birch multi-layer plywood
Surface treatment	Polyurea coating & protection
Connector	Three parallel-wired Neutrik Speak-on NL-4
Hanging accessories	Multi-Grid array hoisting accessories
System configuration	VLA-210 line array speaker, VLA-221 Sub-low subwoofer
Size	Height: 500mm Width: 648mm Depth: 605mm
Weight	40.5kg

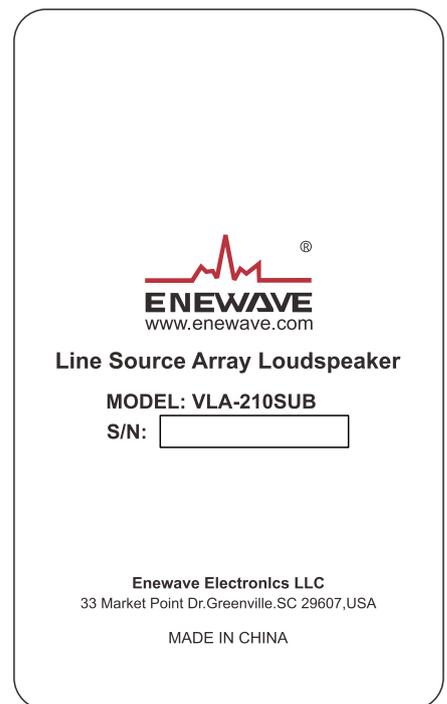
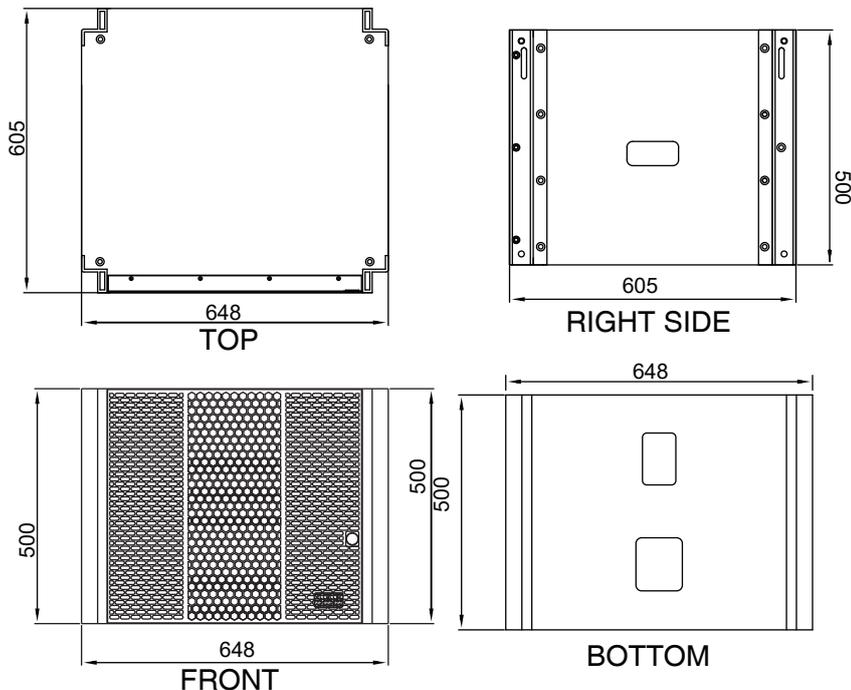
### Performance parameters (NOMINAL DATA)

Frequency response	(+/-3dB) 45Hz-500Hz
Vertical coverage angle	N/A
Horizontal coverage angle	N/A
Driver	1 x18" (100mm VC) Neodymium Driver
Power handling (RMS/PEAK)	LF:X1300W/5200W
Nominal impedance	8 Ohms
Maximum sound pressure level (calculated)	134dB
Crossover point	DSP Processing

### Dimension diagram

Unit: mm

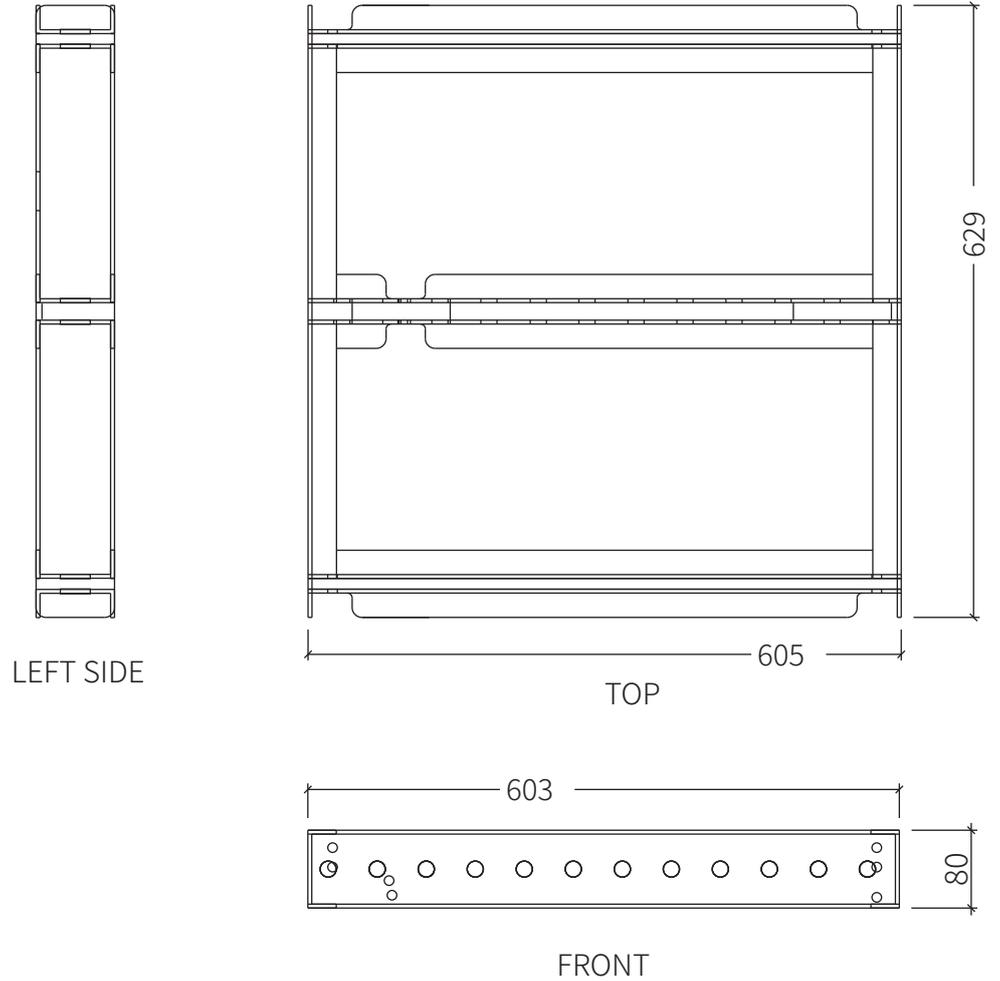
Input panel



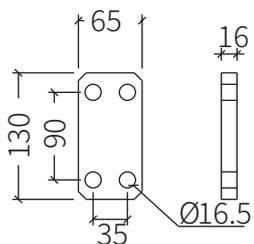
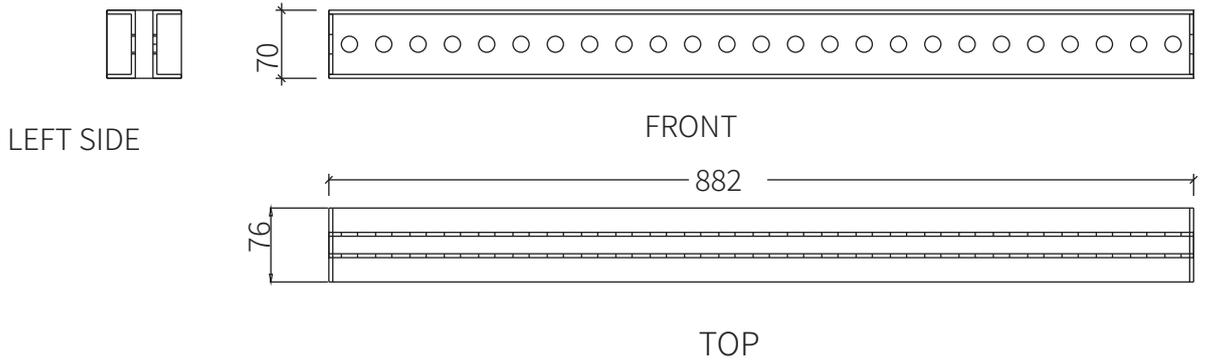


# SPECIFICATIONS **VLA-210 SYSTEM**

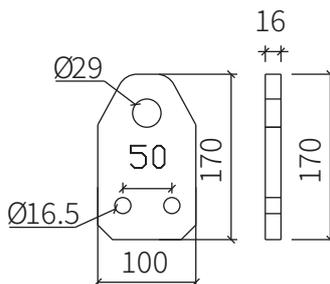
VLA-210 Multi-Grid  
Weight:16.85kg



VLA-210 TOP-Grid  
Weight:6.45kg



VLA-210 MID-Con  
Weight:0.9kg



VLA-210 Top-Con  
Weight:0.8kg