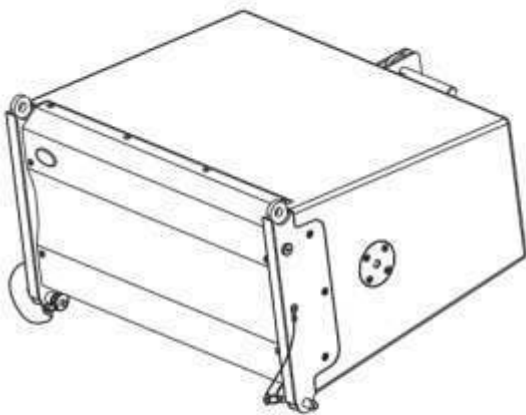


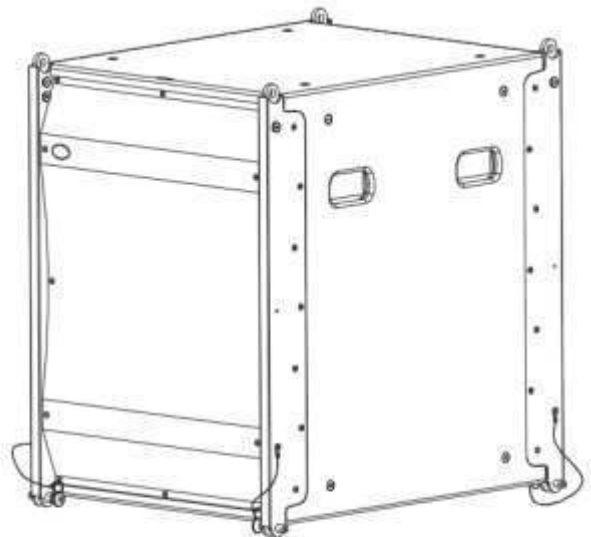
# WORK<sup>PRO</sup>® W



## Line Array System Sistema Line Array



**SL 101**



**SL 212B**







## SAFETY INSTRUCTIONS

### PLEASE READ THIS MANUAL FIRST

Thank you for buying this product. Read this manual first as it will help you operate the system properly. Please keep this manual for future reference.

**⚠ WARNING:** *This product must be installed by professionals. When using hanging brackets or rigging other than those supplied with the product, please ensure they comply with the local safety codes.*

	<b>CAUTION</b> RISK OF ELECTRICAL SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		

	<b>AVIS</b> RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L'ARRIÈRE). IL NE SE TROUVE À L'INTÉRIEUR AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER. S'ADRESSER À UN RÉPARATEUR COMPÉTENT.		



*The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.*



**ATTENTION:** *Don't refit the system or spare parts without being authorized as this will void the warranty.*



**WARNING:** *Don't place naked flames (such as candles) close to the equipment.*

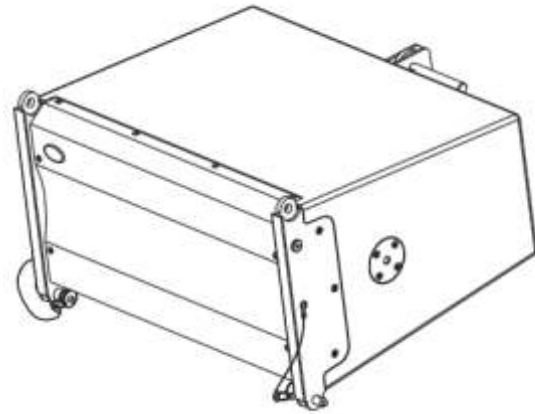
1. Read the instruction manual first before using this product.
2. Please keep this manual for future reference
3. Pay attention to all warnings.
4. Obey all operating instructions.
5. Do not expose this product to rain or moisture.
6. Clean this equipment with a dry cloth.
7. Do not block any ventilation openings. Install according to manufacturer's instructions .
8. Do not install this product near any heat source, such as a heater, burner, or any other equipment with heat radiation .
9. Only use spare parts supplied by the manufacturer.
10. Pay attention to the safety symbol on the outside of the cover.

## SL 101

10"2-Way Speaker

### Main Features

- SL 101 is a set of medium/high speakers in the ARION Array Series. It is composed of one 10" neodymium LF transducer and two 1.7" HF transducers.
- Dispersion 120° x 30° at 1 kHz
- Sensitivity 95 dB, Max SPL 118 dB.
- Power Output: 400W + 150W (MID+HIGH)
- T shape cabinet structure, easy installation and uninstallation with lockpins, 5° adjustable cabinet angle range.
- 4x SL 101 and 1x SL 212B make up an excellent point source system.
- With the customized hanging wares, the system can be used both for hanging and be put on the ground.



### Product Description

SL 101 is a set of medium/high speakers in the ARION Array Series. It is composed of one 10" neodymium LF transducer and two 1.7" HF transducers.

The LF transducer is made from 65mm voice coil. The HF frequency upper limit is set at 3kHz, with 95 dB sensitivity and 120 x 30 dispersion angle.

Advanced spraying technique is used in the T shape cabinet of SL 101. The adjustable angle range of the cabinet is 5°. Installation and uninstallation is easy with the lockpins. The dispersion angle of a single SL 101 is 120°x 30°. In application of multiple SL 101 the vertical dispersion is 90°x 10°; the transmission distance gets farther.

The LF transducer of SL 101 is made from 65 mm big power flat aluminum wire voice coil, whose frame is made from high intensity Kapton material. Thus the power endurance capacity is strengthened and the sensitivity of the transducer is heightened.

The cabinet of SL 101 is made from 15 mm plywood. The wedge structure frees the cabinet of any nails. The surface is coated with high wear-resistant paints. The design of rigging methods is so reasonable that it can free the cabinet from outside force. The pulling resistance of the rigging accessories is 7 times higher than required. (45000N)

Thanks to the powder spraying techniques, the grille of SL 101 has high resistance. The inner side of the grille is padded with cotton to protect it from rain.

The HF transducer of SL 101 is made from 44 mm flat aluminum voice coil, titanium diaphragm. The sound performance is extraordinary.

SL 101 is mainly applied in meeting rooms, large multifunction hall, auditorium, churches and mobile performances.

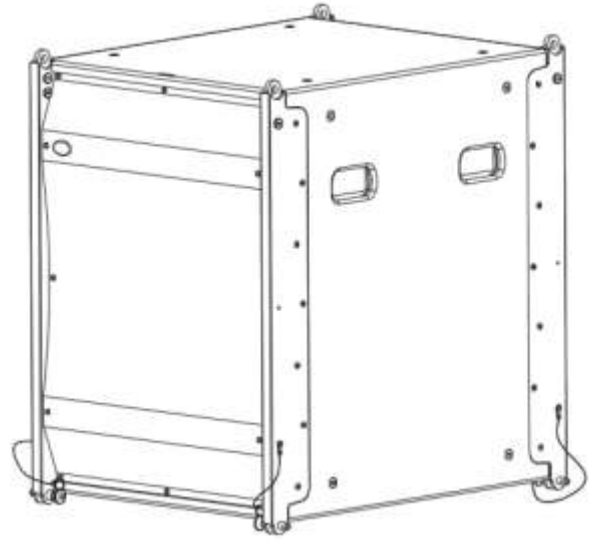
## PRODUCT INTRODUCTION

# SL 212B

Double 12" LF Speaker

### Main Features

- Double 12" LF drivers inverted low frequency speaker.
- Frequency Response 45 Hz 300 Hz (-3dB).
- Sensitivity 92 dB, Max Sound Level 122 dB.
- RMS Power 900W, Peak Power 1800W
- The cabinet adopts new paints and advanced spraying techniques which greatly enhance the surface resistance.
- Special designed connection accessories and hang to combinethe application of SL 101 and SL 212B. easy assembling.
- The phase reversal cabinet design greatly reduce the disturbance to low frequencies and thus enhance the sound quality.



### Product Description

SL 212B is a low frequency speaker with brand new shape and structure design as well as advanced paint spraying techniques. It is combined of two 12" LF speakers. The 100mm flat aluminum and TIL material bracket enable full heat radiation. The RMS of the speaker can reach 900W and short term peak power reach 1800W.

The design of parallel magnetic circuit can reduce the odd harmonic in the LF speaker to the fullest extent.

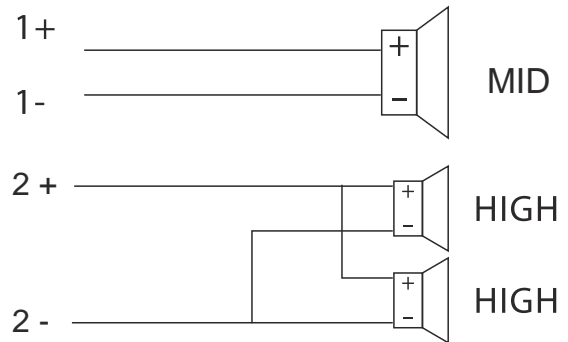
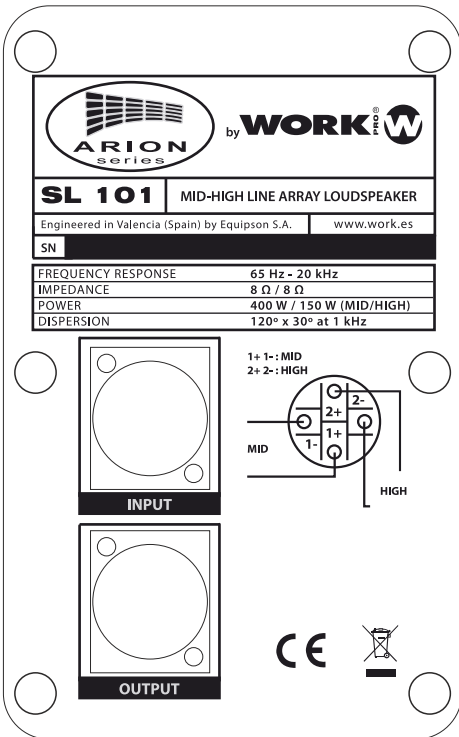
The cabinet of SL 212B is made of 18 mm thick plywood with stretching resistance up to 4500N. The wedge structure frees the cabinet from any nails. The paint on the surface has high resistance to abrasion. The inverted bass design which provides best sound quality is used in SL 212B. Also the phase reversal tube is improved to reduce the wind speed. Thus sound quality is improved by reducing the disturbance to the low frequencies.

Thanks to the powder spraying techniques, the grille of SL 212B has high resistance. The inner side of the grille is padded with cotton to protect it from rain.

SL 212B is mainly applied in meeting rooms, large multifunction hall, auditorium, churches and mobile performances.

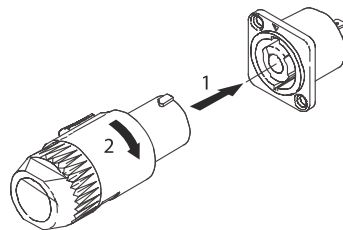
Two NL4 connectors are available for amplifier connections. Paralleled connector is very convenient for another speaker connection.

Rear panel

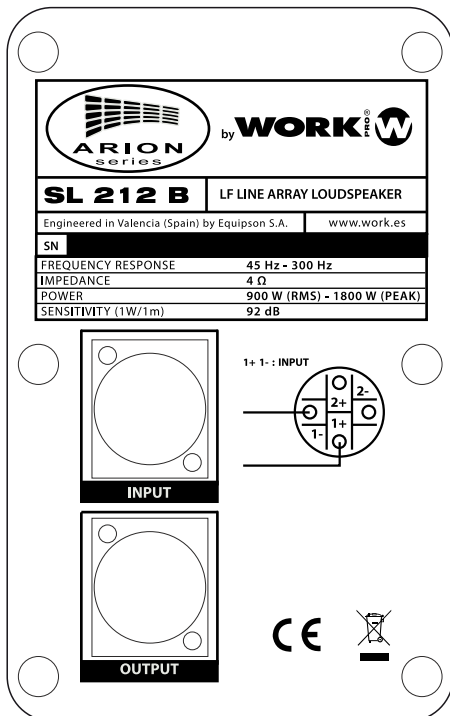
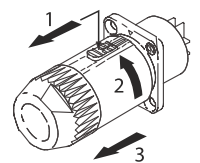


NL4 Wiring Connection

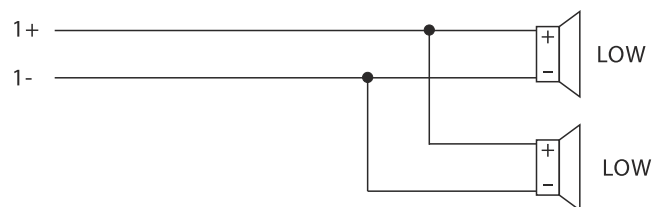
1. Connect



2. Disconnect



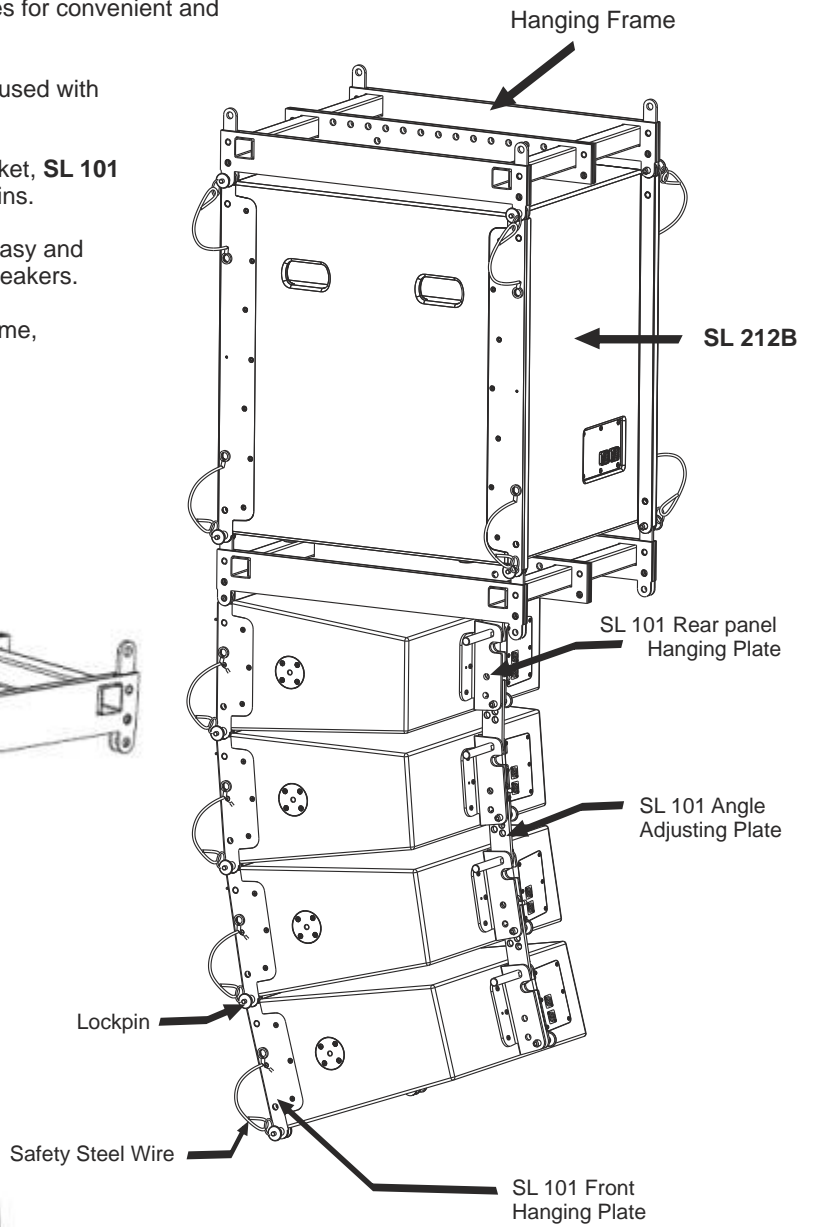
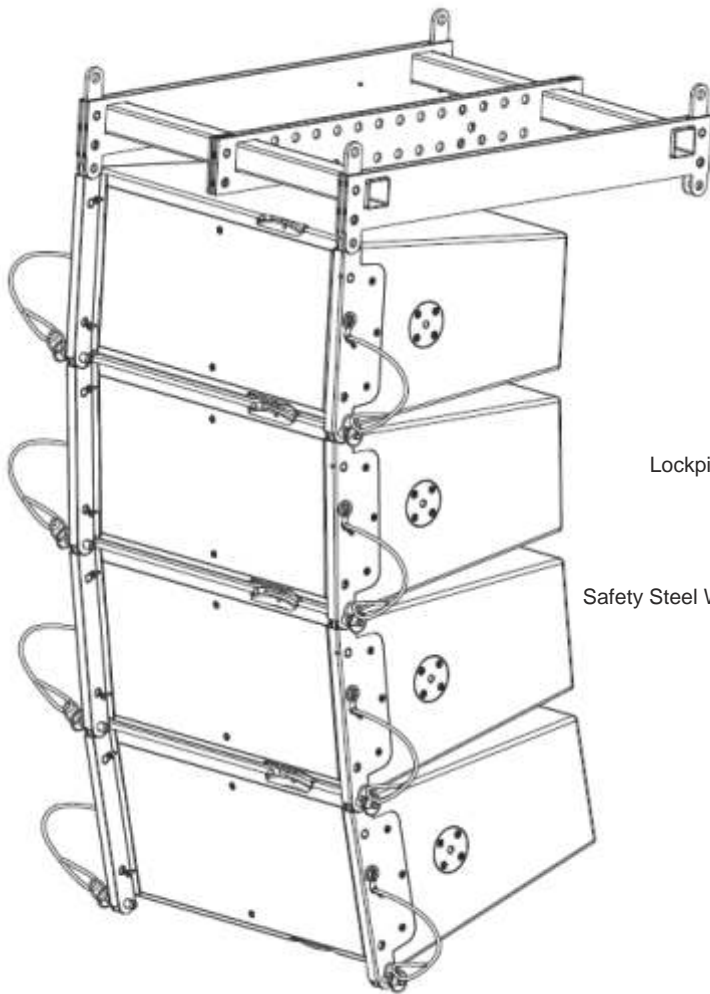
1+ 1- INPUT



# INSTALLATION

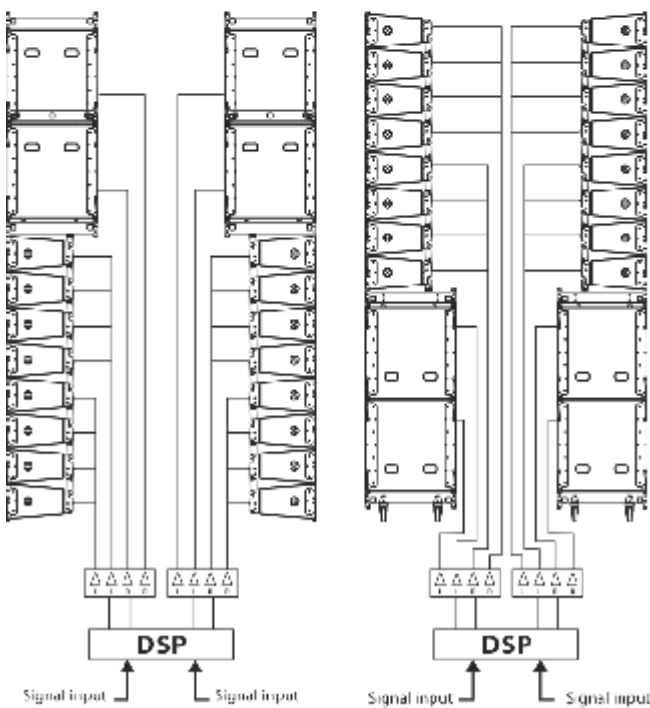
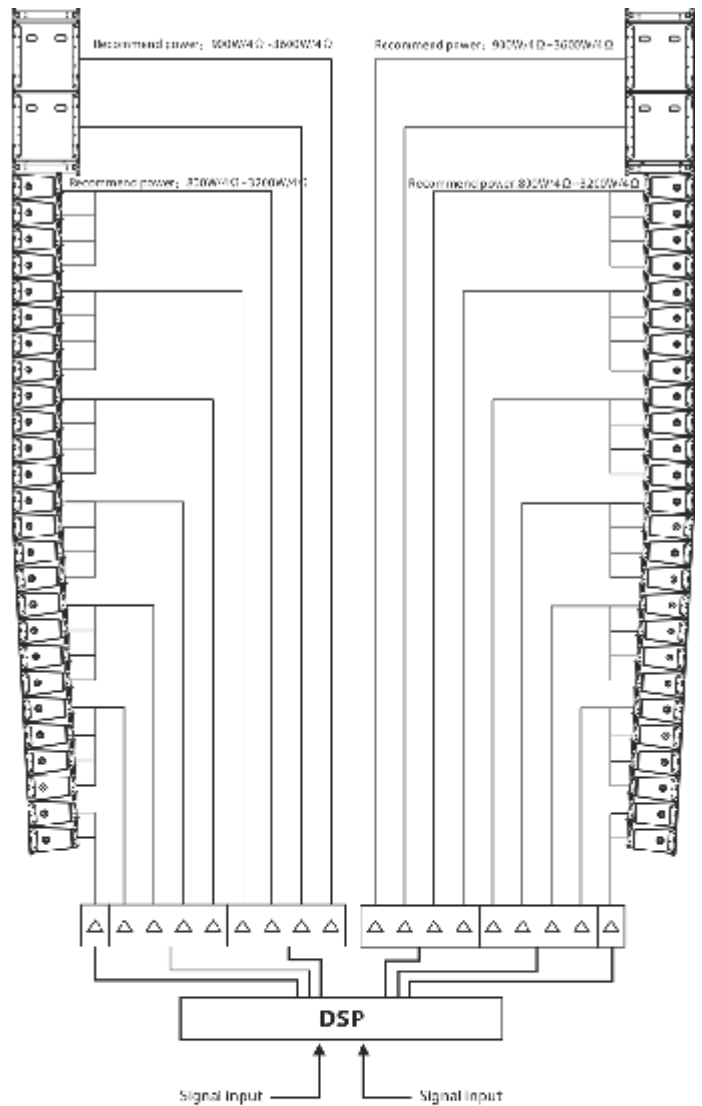
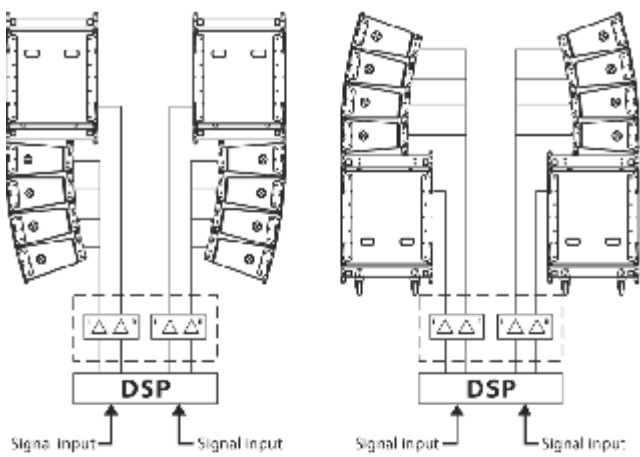
## Installation Guidance

- (1) **SL 101** & **SL 212B** have customized hanging wares for convenient and easy hanging and installation.
- (2) **SL 101** can be used individually, and can also be used with **SL 212B** to form a line array system.
- (3) The hanging wares include **SL 212B** hanging bracket, **SL 101** cabinet front and rear hanging ware and the lockpins.
- (4) The rear hanging ware is fixed on the cabinet for easy and fast field vertical angle adjustment between the speakers.
- (5) The hanging frame of **SL 212B** is welding steel frame, which can hang multiple **SL 101**.

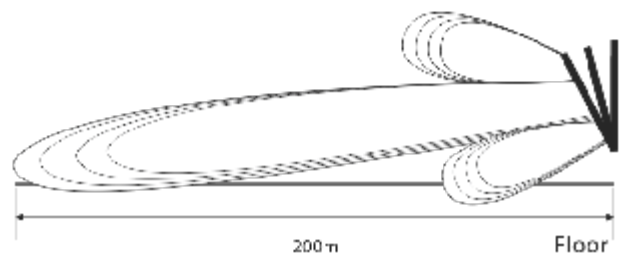


**Warning:** Make sure the mounting accessories safety factor not less than 5:1 or meet the local standard during installation.

The number rear hanging plate indicates the current angle. E.g. "1" means that the angle between 2 **SL 101** is 1.



Coverage features of Line Array System



**Warning:** Make sure the mounting accessories safety factor not less than 5:1 or meet the local standard during installation.



## TECHNICAL SPECIFICATIONS

### SL 101 Specifications

Product:	Passive Paint wooden 2-way Range Speaker
HF Driver:	2 x T44 HF Compression driver
LF Driver:	1 x 10" LF Driver
Frequency Response(-3db) <sup>1</sup> :	65 Hz - 20 kHz
Frequency Response(-10db):	45 Hz - 20 kHz
Sensitivity(1w@1m) <sup>2</sup> :	95 dB
Maximum. Spl(1m) <sup>3</sup> :	118 dB/ 124 dB (PEAK) <sup>4</sup>
Power:	400W + 150W
Dispersion ( H×V ) :	120° x 30°
Rated Impedance:	8 ohm
Crossover point:	3 kHz
Cabinet:	Trapez. cabinet, 15 mm Plywood
Installation:	Specialized hardware
Paint:	Black Polyurethane (cabinet) Black powder coated grille
Connector:	NL4 x 2
Dimension(WXHXD):	538.5 x 262 x 434.5 mm (21.2 x 10.3 x 17.1 in)
Packing Dimension(WXHXD):	630 x 595 x 380 mm (24.8 x 23.4 x 15 in)
Net Weight:	17 kg ( 37.4 lb)
Gross Weight:	18.5 kg (40.7 lb)
Optional Accessories:	Flight frame

### SL 212B Specifications

Product:	Passive Paint Wooden Full Range Speaker
LF Driver:	2×12" LF Drivers
Frequency Response(-3db) <sup>1</sup> :	45Hz-300Hz
Frequency Response(-10db):	35Hz-600Hz
Sensitivity(1w@1m) <sup>2</sup> :	92dB
Maximum. Spl(1m) <sup>3</sup> :	122dB/128dB(PEAK)
Power:	900W (RMS) <sup>4</sup> 1800W (PEAK)
Rated Impedance:	4 ohms
Cabinet:	Wedge Cabinet, 18mm Plywood
Installation:	Special rigging brackets and connection accessories
Carry:	4×Wooden Handles
Paint:	Polyurethane-based painting. Steel grille is coated by dots to provide strong ultra-Weatherability.
Connector:	NL4×2
Dimension(WXDXH):	540×680×713mm (21.3×26.8×28.1in)
Packing Dimension(WXDXH):	784×670×853mm (30.9×26.4×33.6in)
Net Weight:	50kg(110 lb)
Gross Weight:	55kg(121 lb)
Optional Accessories:	Flight Frame

## Speaker Testing Method

### 1. Frequency Response

Use pink noise to test the speaker in the anechoic chamber, adjust the level to make the speaker work at its rated impedance and set the output power at 1W, then test the frequency response 1m away from the speaker.

### 2. Sensitivity

Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, increasing the signal to make the speaker work at its rated impedance and set the power output at 1W, then test the sensitivity 1m away from the speaker.

### 3. MAX.SPL

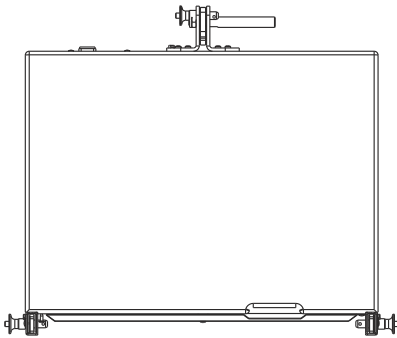
Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, increase the signal to make the speaker work at its maximum power output level, then test the SPL 1m away from the speaker.

### 4. Rated Power

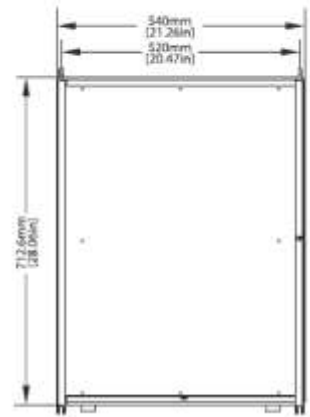
Use pink noise to the IEC#268-5 standard to test the speaker, increase the signal for a continuous period of 100 hours, the rated Power is the power when the speaker will show no visible or measurable damage.

Dimensions

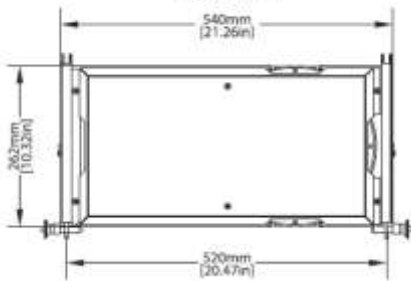
Top view



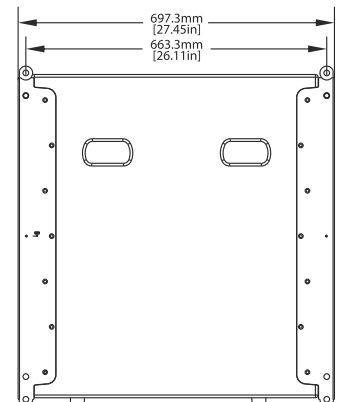
Front view



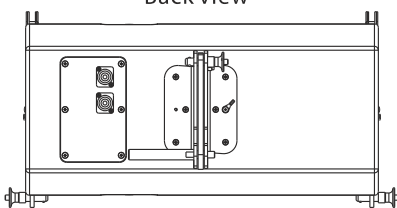
Front view



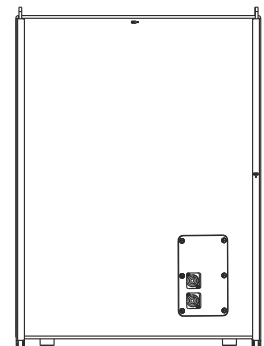
Side view



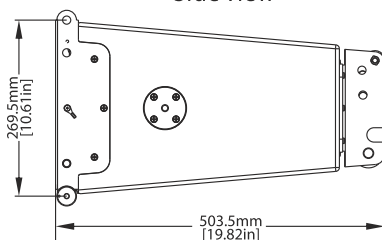
Back view



Back view



Side view







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