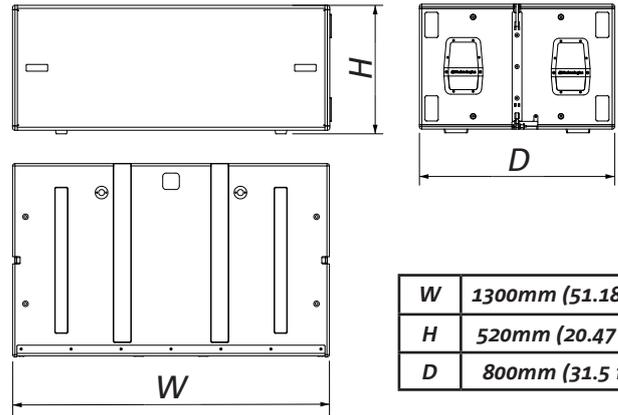


DIMENSIONS



W	1300mm (51.18 in)
H	520mm (20.47 in)
D	800mm (31.5 in)

MAIN FEATURES

- Impressive sound pressure
- Powerful amplifier
- Quick installation
- Flyable use
- AURORA Net control

PACKAGE CONTENTS

The box contains:
 N°1 VIO S218F subwoofer
 N°1 mains cable
 N°2 fuses for 100-120Vac power supply
 N°2 snap pins
 This quick start and warranty documentation

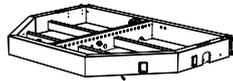
DESCRIPTION

VIO S218F is a flyable active bassreflex-horn subwoofer, designed for professional use, equipped with two 18” neodymium woofer (voice coil: 4”). The powerful DSP controlled double DIGIPRO® G4 amplifier section can handle up to 3200 W (RMS power). The RDnet connections allow in-depth remote control, thanks also to free available software (AURORA NET, dBTechnologies Composer). The custom flybar ensure easy set-up to create different configurations, completing live installations with VIO line-array series.

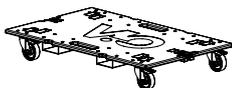
ACCESSORIES



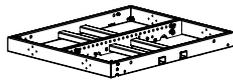
DRK-218F
Flybar for flyable use



DRK-212
flybar for stacked use with VIO-L212 speaker



DO-VIOS218F
dolly for transport



DRK-210
flybar for stacked use with VIO-L210 speakers

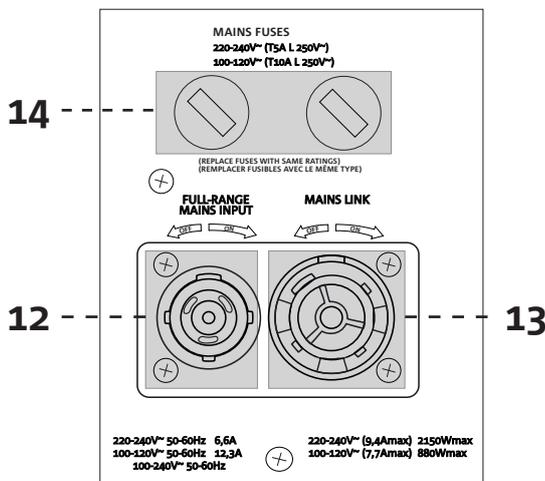
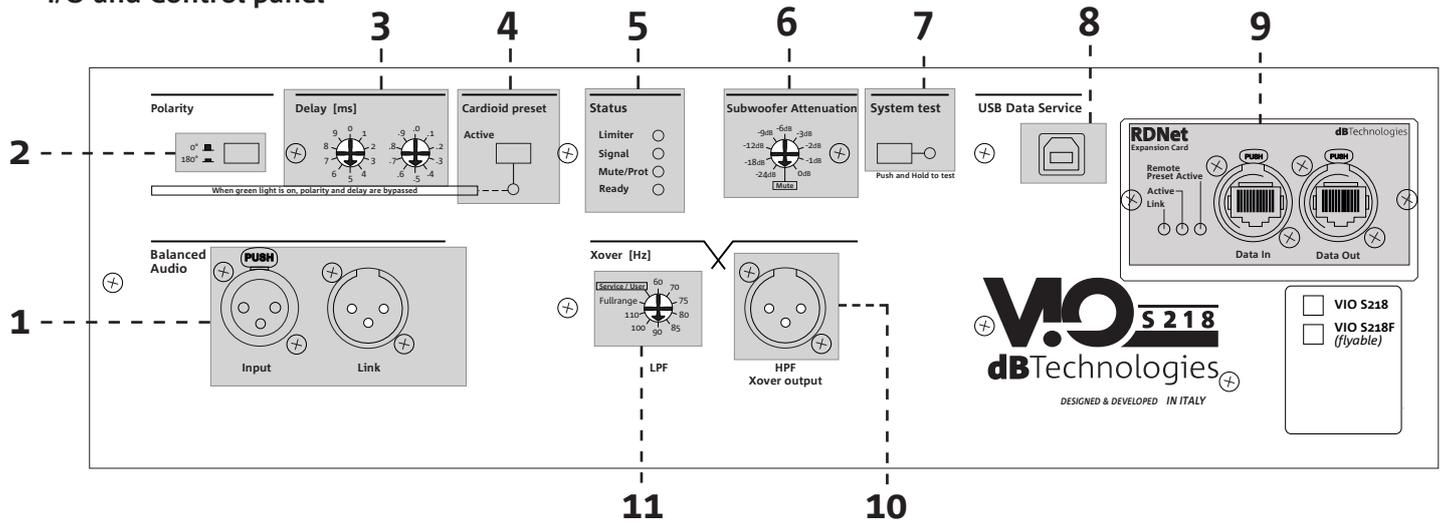


AF-VIO1
frame adapter

TECHNICAL SPECIFICATIONS

Speaker Type	Active bass-reflex subwoofer
Frequency Response [-6dB]	28 Hz - Cut frequency (crossover dependent)
Usable Bandwith [-10dB]	27 Hz - Cut frequency (crossover dependent)
Max SPL (1 m)	143 dB
LF	2x 18”, 4” v.c. neo
Crossover Frequency	60 to 110 Hz + full-range
Amplifier	Digipro® G4 3200 (2x1600) W RMS Class-D
Power Supply	Full-range SMPS
Cooling	Passive (convection) and internal fan
Operating Range	100-240V~ (50-60Hz)
Limiter	Peak, RMS, Thermal
Operation limit temperature	-20°C / +55°C (-4°F / 131°F)
Controller	32 bit DSP
AD/DA Converter	24 bit/96 kHz
Preset	Cardioid
Controls	1x Delay control rotary 1x Link/Xover button 1x Cardioid preset button 1x System test button 1x Polarity button 1x Subwoofer attenuation rotary 1x Xover rotary
Signal Input	1 x XLR balanced, 1 x RJ45 (RDNet), 1x USB (Data Service)
Signal Output	1x XLR balanced Link, 1x XLR HPF Xover out, 1 x RJ45 Link (RDNet)
Housing	Wooden box - black finished
Rigging Points	2
Dimensions (WxHxD)	1300x520x800 mm (51.18x20.47x31.50 in)
Weight	100 Kg (220 lbs.)

I/O and Control panel



The DigiPro G4 amplifier of VIO S218F is controlled by a powerful DSP. All the connections and controls are in the rear amplifier control panel.

- 1- **Balanced audio input and output link**
- 2- **Polarity switch**
- 3- **Delay rotary control**
- 4- **Cardioid preset switch**
- 5- **Status LEDs (Limiter, Signal, Mute/Protection, Ready)**
- 6- **Subwoofer attenuation rotary control**
- 7- **System Test button**
- 8- **Mini B-type USB port for firmware update**
- 9- **RDNNet Data In / Data Out and Control LEDs**
- 10- **HPF Xover (balanced) output**
- 11- **Xover rotary control**
- 12- **Full-range Mains input**
- 13- **Mains Link output**
- 14- **Mains Fuse**

Setup, turn on and I/O settings

Connect first the audio input (1); if you need to link the VIO S218F to another one, please use a cable with XLR connectors (not supplied). Connect the Link output of the first, to the balanced Input of the second one, and so on.

Plug properly the mains POWERCON TRUE1 cable (supplied) in the related input (12) to turn on the system.

In case of remote control, connect the Data Input of the subwoofer to the hardware remote controller (RDNNet Control 2 or RDNNet Control 8) with cables equipped with etherCON connectors; to link another subwoofer connect the Data Output of the first, to the Data Input of the second one, and so on. Please use a cable with etherCON connectors. When the subwoofer is active and the RDNNet network is active and it has recognized the connected device, the LED Link is on. The "Active" LED will start flashing to indicate the presence of data traffic; the "Remote Preset Active" signals that all the local controls set on the amplifier panel (DSP preset) are by-passed and controlled remotely by RDNNet remote control.

See also RDNNet Control 2 or RDNNet Control 8 user manuals for further information.

POWER SUPPLY SPECIFICATIONS (POWER ABSORPTION)

Draw at 1/8 of full power in average use conditions (*): 3,2 A (220-240V~) - 5 A (100-120V~)

Draw at 1/3 of full power in maximum use conditions (**): 6,6 A (220-240V~) - 12,3 A (100-120V~)

Power absorption with speaker turned on without signal (idle): 53 W

*INSTALLER NOTES: The values refer to 1/8 of full power, in average operating conditions (music program with infrequent or no clipping). It is recommended to consider them the minimum sizing values, for any type of configuration.

**INSTALLER NOTES: The values refer to 1/3 of full power, in heavy operating conditions (music program with frequent clipping or activation of the limiter. We recommend sizing according to these values in case of professional installations and tours

HANDLES

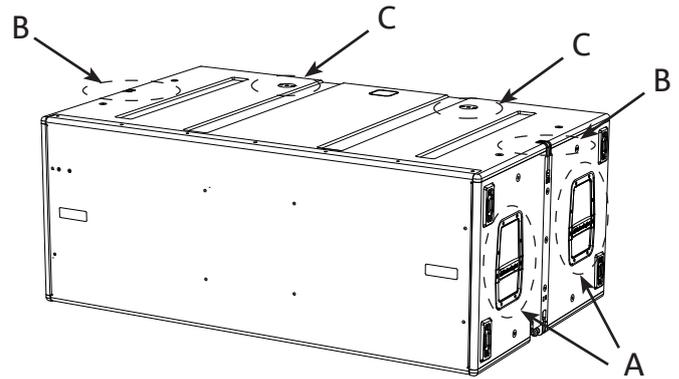
On each side of the subwoofer the user can find handles for easy handling (A).

MECHANICAL FIXING POINT

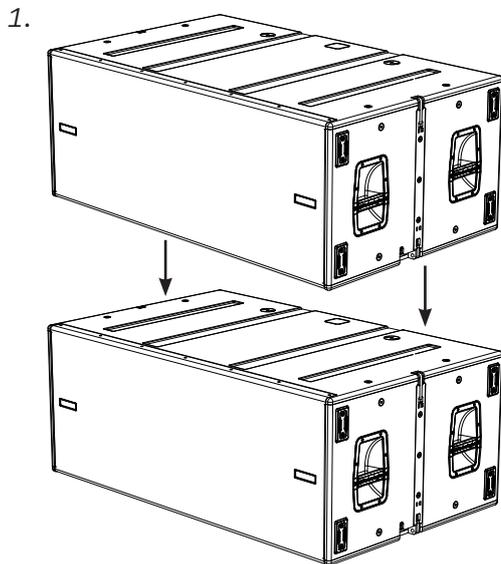
The mechanical fixing points (B) on the top of the subwoofer allows stacked and flyable use.

The mechanical fixing points (C) on the top of the subwoofer allows to use VIO S218F subwoofer for stacked configurations with DRK-210 and DRK-212 flybar.

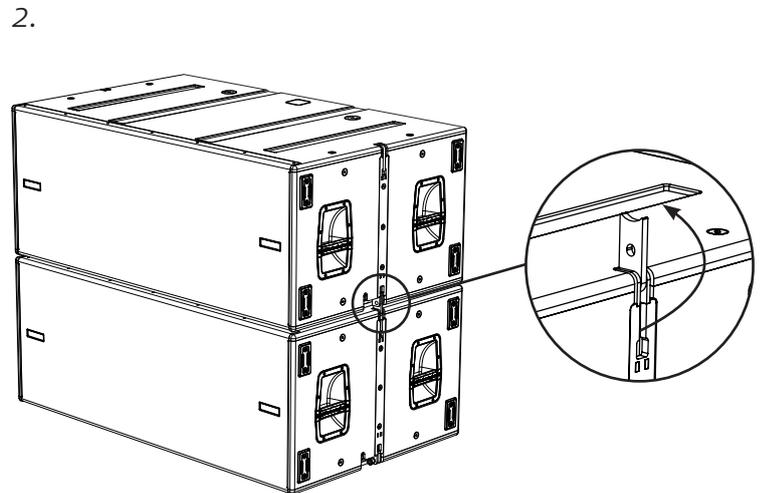
For more details, please read the *CONFIGURATIONS* chapter.



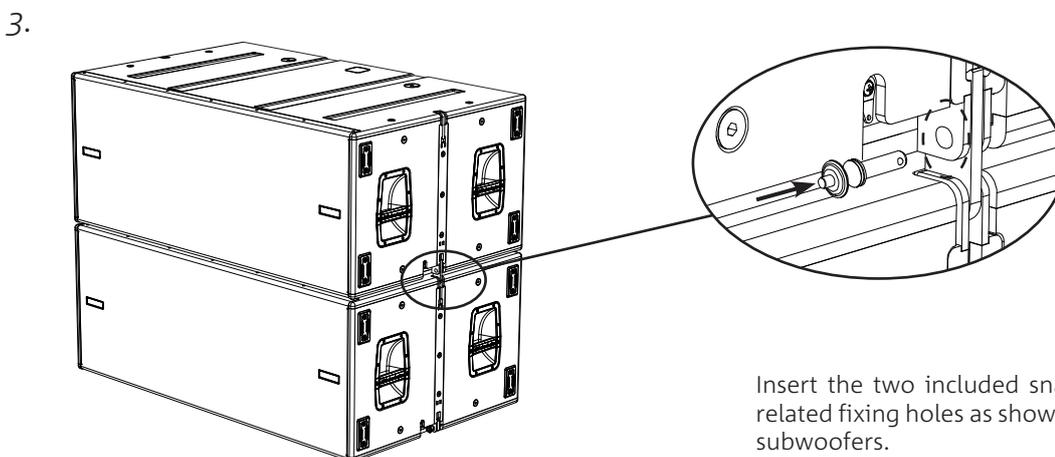
INSTALLATION



Place the upper subwoofer above the lowest one as shown.



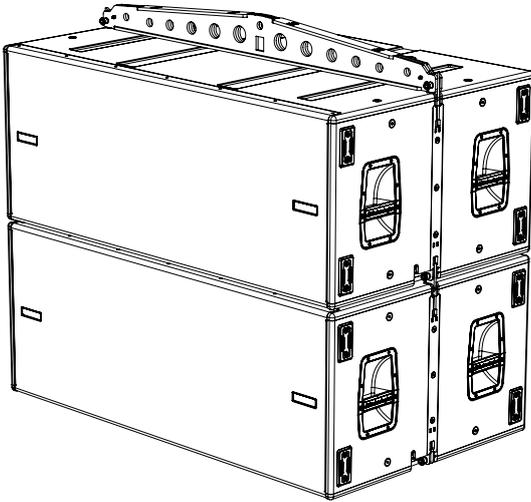
Lift both bracket side joints of the lowest subwoofer as shown. Be sure that the side joints of the lowest subwoofer fit with the upper one brackets.



Insert the two included snap pins in the related fixing holes as shown to fasten the subwoofers. Repeat this procedure for each subwoofer.

CONFIGURATIONS

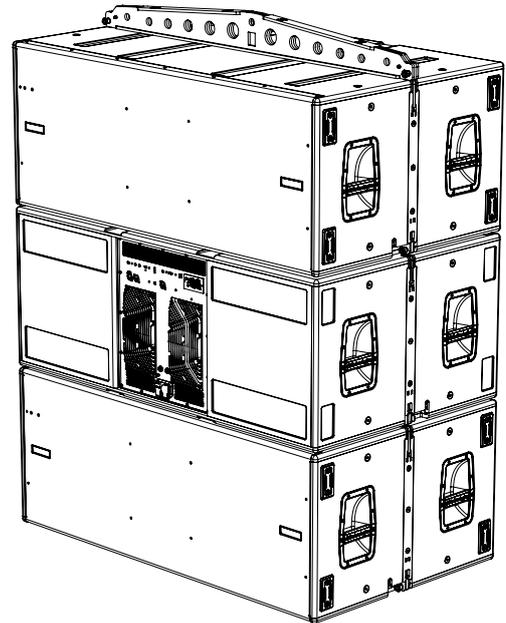
FLYABLE CONFIGURATION



VIO S218F can be hung using the DRK-218F custom flybar (not included). This accessory allows flyable configuration up to 14 subwoofers.

For more information please refer to DRK-218F user manual.

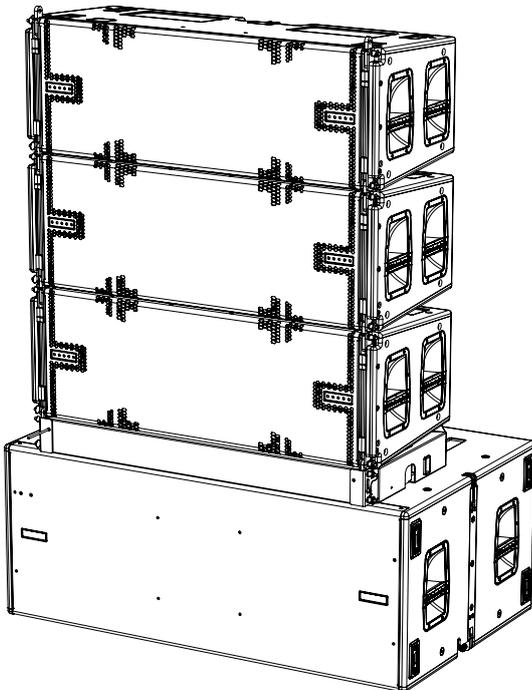
FLYABLE CARDIOID CONFIGURATION



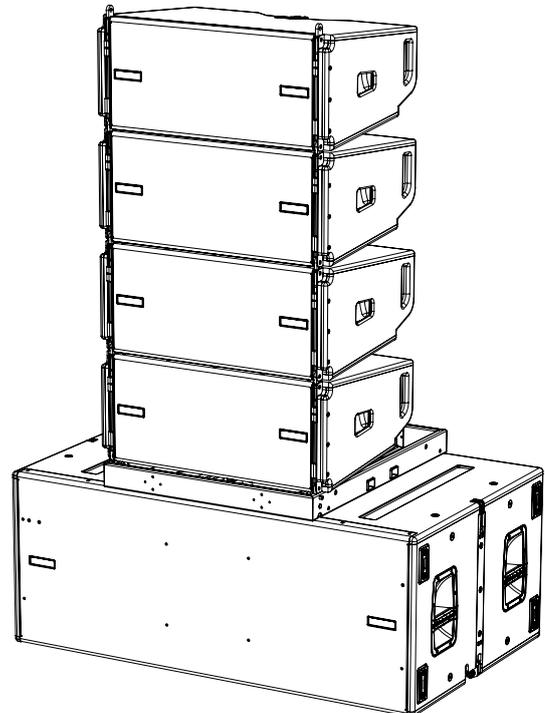
In case of a cardioid configuration, follow the procedure on the previous page placing the mid subwoofer facing rear.

Then activate the cardioid preset pushing the dedicated button on the amp panel.

STACKED CONFIGURATIONS



Example of a stacked configuration with DRK-212 flybar and VIO L212 speakers. For more information please refer to DRK-212 user manual.



Example of a stacked configuration with DRK-210 flybar and VIO L210 speakers. For more information please refer to DRK-210 user manual.

IMPORTANT NOTES AND WARNINGS

EMI CLASSIFICATION

According to the standards EN 55032 and 55035 this is a Class A equipment, designed and suitable to operate for professional use.

Warning: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference

FCC CLASS A STATEMENT

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING

Make sure that the loudspeaker is securely installed in a stable position to avoid any injuries or damages to persons or properties. For safety reasons do not place one loudspeaker on top of another without proper fastening systems. Before hanging the loudspeaker check all the components for damages, deformations, missing or damaged parts that may compromise safety during installation. If you use the loudspeakers outdoor avoid spots exposed to bad weather conditions. Contact dBTechnologies for accessories to be used with the speakers. dBTechnologies will not accept any responsibility for damages caused by inappropriate accessories or additional devices.

Features, specification and appearance of products are subject to change without notice.

dBTechnologies reserves the right to make changes or improvements in design or manufacturing without assuming any obligation to change or improve products previously manufactured.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution, when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



ADDITIONAL SAFETY INSTRUCTIONS

- No naked flame sources, such as lighted candles, should be placed on the apparatus
- Do not use the apparatus in tropical climates

**WARNINGS!**

Only expert personnel may use the product and its accessories! To prevent hazards to people, animals and/or objects, make sure that the installation is stable and secure. Comply with the safety regulations and laws in force in the country in which you use the product. For safe use, periodically check that all parts are in good working condition before use. Only authorised personnel may carry out design, calculations, installation, testing and maintenance of professional flown or stacked audio systems. AEB Industriale shall not be liable for improper installation carried out without adequate safety measures.

Never suspend the speakers from the handles! Only use the accessories and configurations described in this manual, and proceed in accordance with the instructions given in the manuals for the accessories.

Do not obstruct the amplifier cooling fins at the back. In the event of overheating, the audio volume is gradually reduced until the module is thermally stable. The level is automatically restored on reaching the correct operating temperature.

Do not attempt to open the amplifier.

In the event of malfunction, immediately turn off the power, disconnect the unit from the mains and contact an authorised service centre.

Only use the power cable provided.

The USB SERVICE DATA connection is to be used exclusively for updating the product's firmware; do not connect any other USB device to the unit to avoid the risk of damage and malfunction.

Do not use the monitor for a prolonged period with the limiter LED steadily lit or flashing as this indicates operation under stress with excessive distortion.

Check periodically the integrity and the functionality of the accessories and the technical equipments for a safe installation. user should never apply a load that exceeds the working load limits of any rigging components or equipment here presented. design, calculation, installation, testing and maintenance of suspension and stack systems for audio equipment must be performed only by qualified and authorized personnel. AEB Industriale s.r.l. denies any and all responsibility for improper installations, in the absence of safety requirements.



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