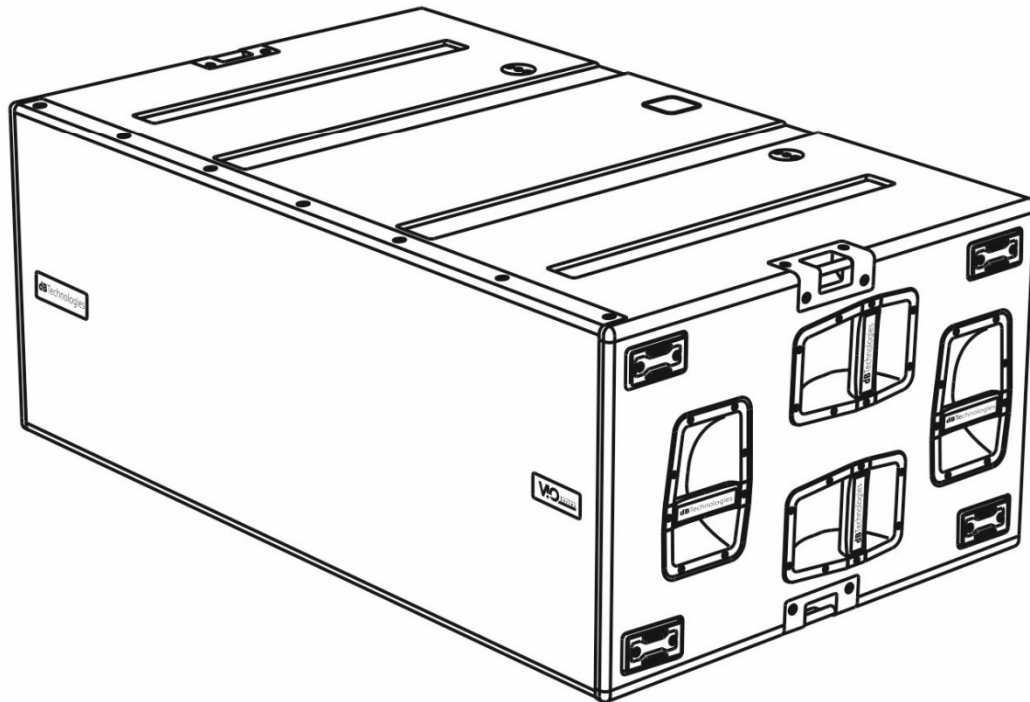




# VIO S 218



## Quick start user manual

### *Section 1*

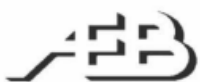
The warnings in this manual must be observed together with the "USER MANUAL - Section 2".

Le avvertenze nel presente manuale devono essere osservate congiuntamente al "MANUALE D'USO - Sezione 2".

Die Warnungen in diesem Handbuch müssen in Verbindung mit der "BEDIENUNGSANLEITUNG - Abschnitt 2" beobachtet werden".

Les avertissements spécifiés dans ce manuel doivent être respectés ainsi que les "CARACTERISTIQUES TECHNIQUES - Section 2".

Las advertencias del presente manual se deben tener en cuenta conjuntamente con las del "MANUAL DEL USUARIO" - Sección 2".



## Thank you for choosing a dBTechnologies Product!

VIO S218 is an active bass reflex subwoofer, designed for professional use, equipped with two 18" neodymium woofer (voice coil: 4"). The powerful double DIGIPRO® G4 amplifier section, capable of handling up to 3200 W (RMS power), is controlled by a DSP, which can perform a detailed customization of the output sound of the subwoofer. In particular, thanks to the complete control interface, it is possible to accurately tune various types of configurations, like cardioid or end-fire. The RDnet connections allow in-depth remote control, thanks also to free available software (AURORA NET, dBTechnologies Composer). Professional accessories (like DRK-210 / DRK-212 fly-bars, AF-VIO1 adapter, DO-VIOS2 dolly or FC-VIOS2 cover) ensure easy set-up to create different configurations, completing live installations with VIO line-array series.

Check the site [www.dbtechnologies.com](http://www.dbtechnologies.com) for the complete user manual!

### 1) Unpacking

The box contains:

No. 1 VIO S218

No. 1 Mains cable with Neutrik® powerCON TRUE1 connector

No. 2 Fuses for 100-120V~ usage

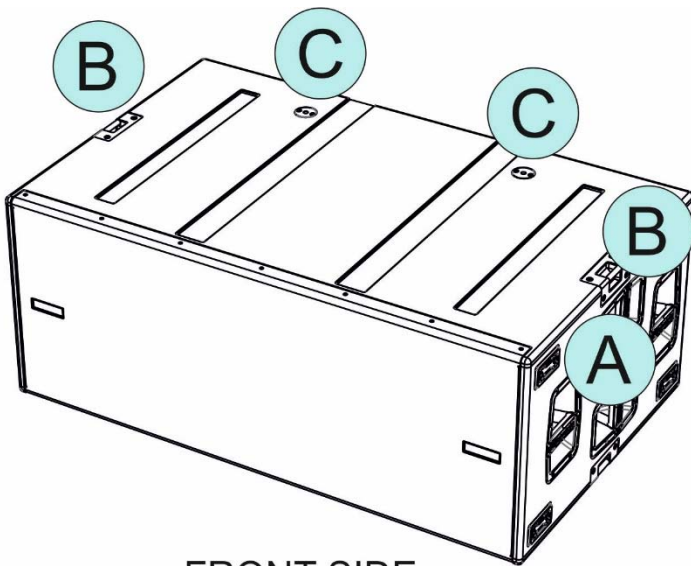
This quick start and warranty documentation

- *handles [A]*, four for each side
- *roping points [B]*, useful to secure the subwoofer
- *pick points for DRK-210/DRK-212 fly-bar/AF-VIO1 [C]*
- *amplifier control panel [D]*
- *threaded holes for SWK-18 wheels kit [E]*

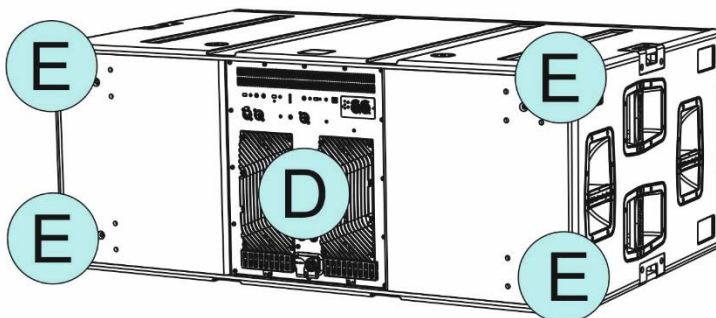
### 2) Easy installation

The easy use in different configuration is guaranteed by:

The main accessories are shown below. Please refer to the related instructions and complete manuals for further information.

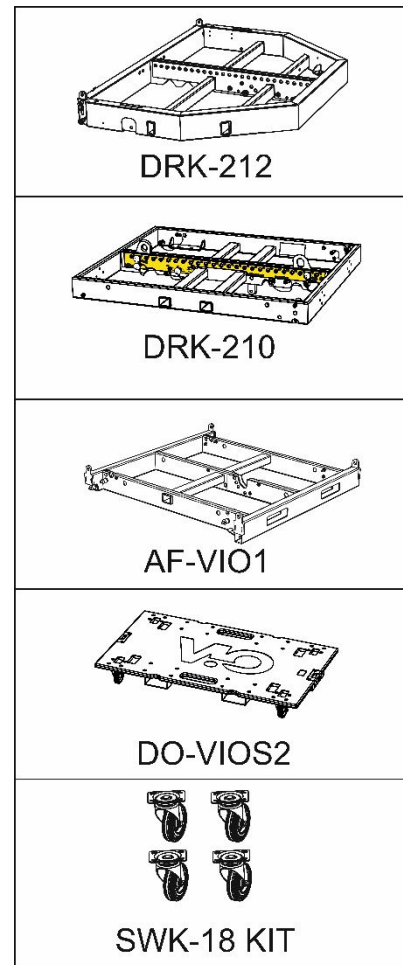


FRONT SIDE



REAR SIDE

VIO S218



DRK-212

DRK-210

AF-VIO1

DO-VIOS2

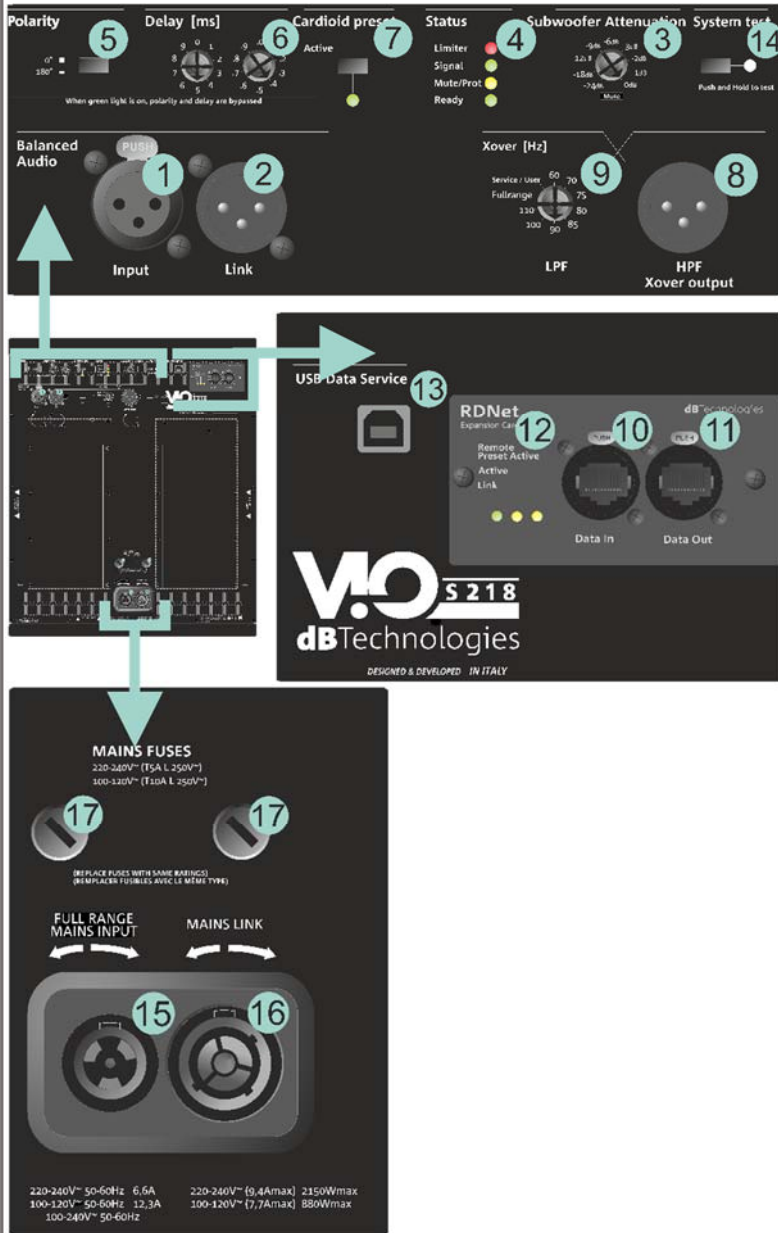
SWK-18 KIT

MAIN ACCESSORIES

420120267Q REV.1.1

### 3) First switch on

The 2 DIGIPRO G4 amplifiers of VIO S218 are controlled by a powerful DSP. All the connections and controls are in the rear amplifier control panel:



- 1 – Input (balanced) connector
- 2 – Link (balanced) connector
- 3 – Subwoofer attenuation rotary control
- 4 – Status LEDs (Limiter, Signal, Mute/Protection, Ready)
- 5 – Polarity switch
- 6 – Delay rotary controls
- 7 – Cardioid preset switch
- 8 – HPF Xover (balanced) output
- 9 – Xover rotary control
- 10 – RDNet Data In
- 11 – RDNet Data Out
- 12 – RDNet status LEDs
- 13 – USB Data Service
- 14 – Test momentary switch
- 15 – Full range Mains input connector
- 16 – Mains Link connector
- 17 – Mains Fuses

VIO S218



*The product and accessories must be handled by trained personnel only! The user is required to follow regulations and mandatory laws on safety of the country in which the product is used. Don't use handles and/or roping points to hang VIO S218!*

**The subwoofer is supplied with two mounted fuses for operation within the 220-240V~ range. If you need to operate in the 100-120V~ voltage range:**

- **Disconnect all connections, including the power supply**
- **Wait 5 minutes**
- **Replace the fuses with the ones provided in the package for the 100-120V~ range**

a) Once you have properly set up the desired configuration (see also the VIO S218 complete user manual and accessories instructions for further information), connect the audio input (1). Set the Subwoofer attenuation (3) to the desired level.

b) Connect the possible output direct link (2), and/or HPF Xover output (8). Set the Xover rotary control (9) to the correct frequency. This filter acts on internal transducers and on HPF Xover output (8), It does not affect the link output (2).

c) Choose the Subwoofer Setup (Polarity and Delay 5, 6) to obtain the correct behavior. In cardioid configuration, please note that the cardioid preset switch (7), when active, bypasses Polarity and Delay controls.

d) In case of remote control, connect the Data Input (10) to the hardware remote controller (RDNet Control 2 or RDNet Control 8) with cables equipped with etherCON connectors. Then connect the Data Output (11) to the Data Input (10) of a possible second device, and so on. When the RDNet network is on and it has recognized the connected device, the LED "Link" (12) is on. The other LEDs (12) "Active" start blinking at the presence of data transmission, the "Remote Preset Active" advise that all the local controls set on the amplifier panel (level, DSP presets, etc.) are by-passed and controlled remotely by RDNet.

In remote control it is essential the use of free dBTechnologies software:

- **dBTechnologies AURORA NET**, necessary for an in-depth control of different devices in remote connection;

- **dBTechnologies Composer**, necessary for the mechanical safety check in installation and for the complete sound system design, particularly developed for VIO series.

e) Connect the power supply (15). It is possible to link up to 1 VIO S218\*\* at 220V-240V with the related mains link connector (16) (see Technical Data for further information).

Check the complete user manual on [www.dbtechnologies.com](http://www.dbtechnologies.com) for further information about the system and available accessories.

Scarica il manuale completo da [www.dbtechnologies.com](http://www.dbtechnologies.com) per ogni ulteriore informazione sul sistema e sugli accessori disponibili.

Für weitere Informationen und verfügbares Zubehör lesen sie bitte die vollständige Bedienungsanleitung unter [www.dbtechnologies.de](http://www.dbtechnologies.de).

Vérifiez le manuel de l'utilisateur complet sur [www.dbtechnologies.com](http://www.dbtechnologies.com) pour des informations complémentaires du système et des accessoires disponibles. Compruebe el manual de usuario completo sobre [www.dbtechnologies.com](http://www.dbtechnologies.com) para la información adicional sobre el sistema y accesorios disponibles.

## Technical Data

**Speaker Type:** Active bass-reflex subwoofer

## Acoustical data

**Frequency Response [-6 dB]:** 28 Hz – Cut frequency  
(crossover - dependent)

**Frequency Response [-10 dB (HPF)]:** 27 Hz

**Max SPL (1 m):** 143 dB

**LF:** 2 x 18", Neodymium

**LF Voice Coil:** 4"

**Crossover freq.:** 60 to 110 Hz + full-range

**Directivity:** (omnidirectional) Cardioid with DSP

## Amplifier

**Amp Technology:** Digipro® G4

**Power supply:** Full range with PFC

**Amp Class:** Class-D

**RMS Power:** 3200 W

**Peak Power:** 6400 W

**Cooling:** Passive (convection) and internal fan

## Operating voltage:

100-240V~ 50-60 Hz (Full Range)

## Processor

**Controller:** DSP, 32 bit

**AD/DA Converter:** 24 bit / 96 kHz

**Limiters:** Peak, RMS, Thermal

**Controls:** Rotary Delay Control (0-9.9 ms, steps: 0.1 ms),  
switches (Link/Xover, Cardioid Preset, System test,  
Polarity), Subwoofer Attenuation, Xover LPF

## Input/Output

**Mains connections:** PowerCON® TRUE1 In/link

**Maximum number of subwoofer for each daisy chain  
power connection [mains input + mains link]:** 1+1 VIO  
S218\*\* (220-240V~), 1+0 VIO S218\*\* (100-120V~)

**Signal Input:** (Balanced) 1x IN (female)

**Signal Out:** (Balanced) Link OUT (male) + HPF Xover

**RNET connectors:** Data In / Data Out

**USB connector:** standard USB B-type (for SERVICE DATA)

## Mechanics

**Housing:** Wooden box/black polyurea finish

**Grille:** Full metal (CNC machining)

**Handles:** 4 per side

**Pick points (stack mode):** yes on top

**Roping points:** 4

**Width:** 1300 mm (51.18 in)

**Height:** 520 mm (20.47 in)

**Depth:** 800 mm (31.50 in)

**Weight:** 85.6 kg (188.72 lbs.)



Scan with  
your QR  
Reader App to  
download the  
complete User  
Manual

## 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.

Download the complete user manual on:

[www.dbtechnologies.com/EN/Downloads.aspx](http://www.dbtechnologies.com/EN/Downloads.aspx)

## EMI CLASSIFICATION

According to the standards EN 55103 this equipment is designed and suitable to operate in E5 Electromagnetic environments.

## FCC CLASS A STATEMENT ACCORDING TO TITLE 47, PART 15, SUBPART B, §15.105

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 instructions, 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.

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

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

**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 dB Technologies for accessories to be used with 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.