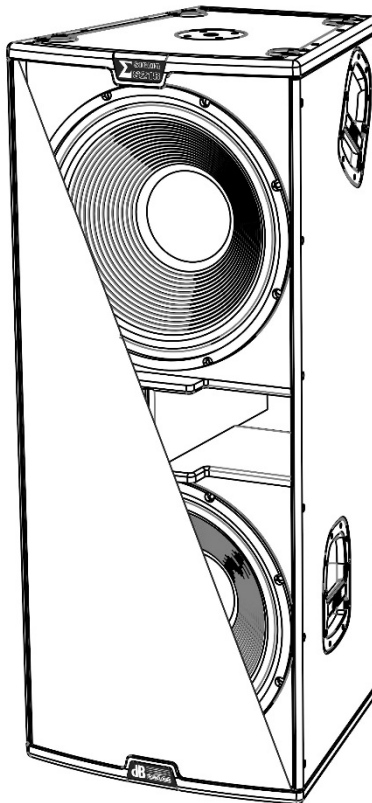


SIGMA S218



Quick start user manual *Section 1*

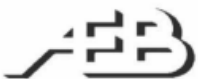
The warnings in this manual must be observed together with the "USER MANUAL - Section 2".

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".



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Thank you for choosing a dBTechnologies Product!

The new SIGMA S218 is an active bass reflex subwoofer. It is equipped with two 18" woofers (4" voice coil). The powerful audio amplifier section can deliver up to 1800 W RMS. The double input and output allows a mono or stereo configuration. Thanks to the Phase and Delay controls it is possible to configure precisely the use (for example the Cardioid one), to get the best performance in every scenario. The matching with the new SIGMA S115F can assure the best behavior as a full-range cluster in live and installed use.

Check the site www.dbtechnologies.com for the complete user manual!

1) Unpacking

The box contains:

N°1 SIGMA S218

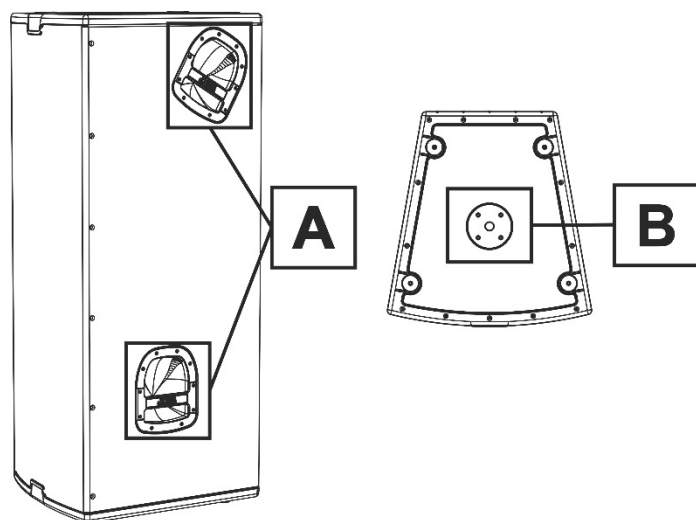
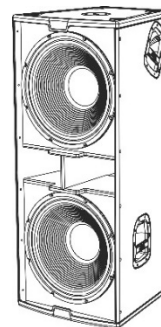
N°1 Mains cable (powerCON)

N°2 100-120 V fuses

This quick start and warranty documentation

2) Easy installation

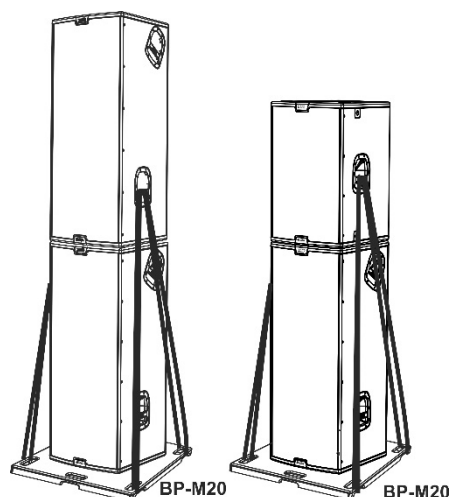
SIGMA S218 is equipped with:



A – Lateral integrated handles (2 x side)
B – Pole mount hole (on the top)

SIGMA S218 is perfect for live use as for medium-large venues installations.

The best matching with SIGMA S115F and with S215 is represented in the pictures below.



NEVER USE THE HANDLES TO SUSPEND THE SPEAKER!

Those mechanical particulars were thought for an easy handling, use and for different configuration needs. The M20 screw pole-mount predisposition is designed for the use of DS-25 pole (not supplied).

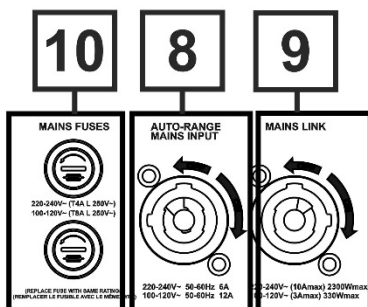
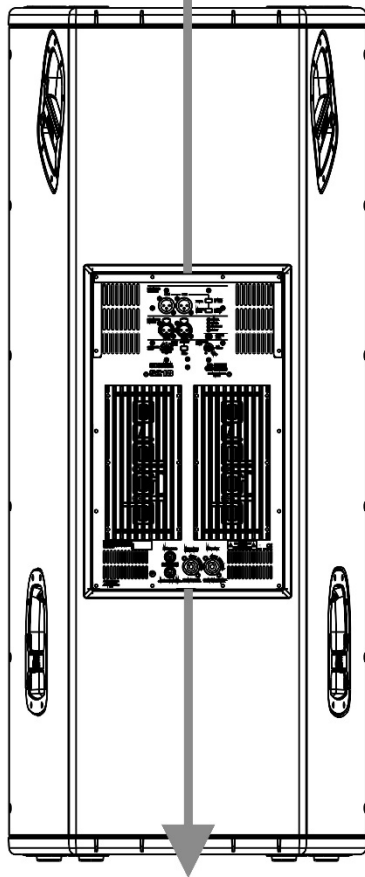
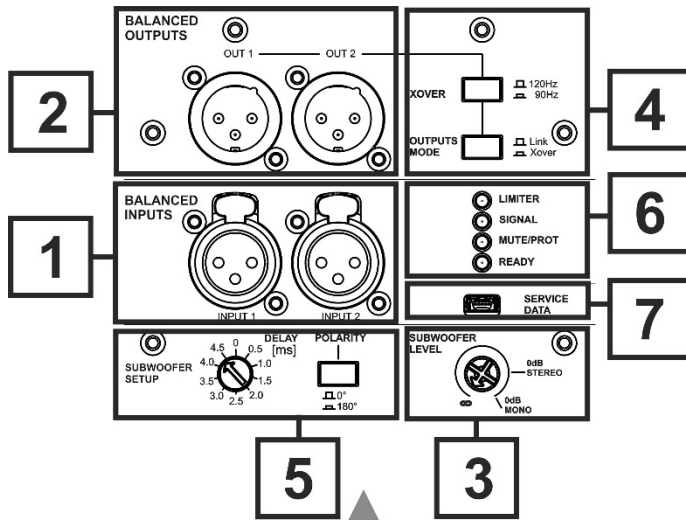


WHEN YOU STACK TWO SPEAKERS, THEY MUST BE PROPERLY SECURED EITHER TO THE BP-M20 ACCESSORY (NOT INCLUDED) BY MEANS OF SUITABLE DEVICES (STRAPS OR ROPES), USING THE HANDLES FOR TRANSPORT.

IT IS MANDATORY TO READ THE COMPLETE USER MANUAL FOR THE ADMITTED CONFIGURATIONS OF THE PRODUCT, SAFETY INFORMATION, AND THE PROPER USE OF ACCESSORIES (IF ANY).

The user can adjust the setting with controls (in particular Phase and Delay can be controlled, and crossover frequency can be chosen) to accomplish the desired setup.

3) Connections and controls



WARNING

The fuses are factory set for 220-240 V operation. If it is necessary to change the fuses to 100-120V range:

1. Disconnect the speaker from any cable
2. Wait 5 minutes
3. Substitute the fuse with the correct one supplied

The double DIGIPRO G3® amplifier of SIGMA S218 is controlled by a powerful DSP. All the connections and controls are in the rear amplifier control panel:

- 1 – Balanced XLR inputs
- 2 – Balanced XLR outputs
- 3 – Subwoofer level rotary encoder
- 4 – Xover switch (for the choice of frequency Xover) and Outputs Mode (Link or Xover mode)
- 5 – Subwoofer Setup (Phase switch) and rotary (Delay)
- 6 – LEDs (Limiter, Signal, Mute/Prot)
- 7 – Service data mini B-type USB port
- 8 – Auto range mains input connector
- 9 – Mains links connector
- 10 – Mains fuses

a) Once you have properly set up the desired configuration (see also the SIGMA S218 complete user manual and accessories instructions for further information), connect the audio input (mono) or inputs (stereo) (1). Connect the output (mono) or outputs (stereo) (2) and consequently set the Subwoofer level to 0 dB in the right position (3).

b) Set properly the Outputs Mode (4), (“Link” in case of direct link connection, “Xover” in case the output is filtered). If you have selected the “Xover” Mode with the related switch, select the correct frequency with the Xover switch (4).

c) Choose the Subwoofer Setup (Delay and Phase) (5) to obtain the proper behavior.

d) Connect the power link (9) to potential other SIGMA speakers, if needed. Then connect the power supply (8) to the module. The “Mute/Prot” flashes briefly, the “Ready” LED turns on, signaling the proper power connection. The “Signal” LED (3) starts blinking at the presence of audio signal (greater than -20 dBu).

Check the site www.dbtechnologies.com for further information, for added accessories and for the complete user manual!

Technical Data

Speaker Type: Subwoofer Bass Reflex

Usable Bandwidth [-10 dB]: 42 – 120 Hz

Max SPL (1 m): 138 dB

LF: (2x) 18"

LF Voice Coil: 4"

Crossover frequency: 90 / 120 Hz

Amplifier

Amp Technology: Digipro G3

Amp Class: Class-D – Passive cooling (convection)

RMS Power: 1800 W

Peak Power: 3600 W

Processor

Controller: 28/56 bit - 48 kHz

Limiters: Peak, Thermal, RMS

Operating voltage range: 220-240V~ (50-60Hz) / 110-120V~ (50-60 Hz)

User interface

Controls: Subwoofer level, Subwoofer setup (Delay, Phase), Xover switch, Outputs Mode switch

Input / Output

Mains connections: PowerCON IN / LINK

Signal Inputs: (2x) XLR balanced audio inputs

Signal Outs: (2x) XLR balanced audio outputs

USB (service): mini USB B-type for firmware update

Mechanics

Housing: Plywood

Grille: CNC metal grille black painted

Handles: integrated, 2 for each side

Pole Mount: Yes, M20 screw

Width: 500 mm (16.69 in)

Height: 1210 mm (47.64 in)

Depth: 530 mm (20.87 in)

Weight: 59.8 kg (131.84 lbs.)



POWER SUPPLY SPECIFICATIONS (POWER ABSORPTION)

Draw at 1/8 of full power in average use conditions (*): 2,45 A (230 V) - 4 A (115 V)

Draw at 1/3 of full power in maximum use conditions (**): 5,25 A (230 V) - 8,57 A (115 V)

Power absorption with speaker turned on without signal (idle): 41 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

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: 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.