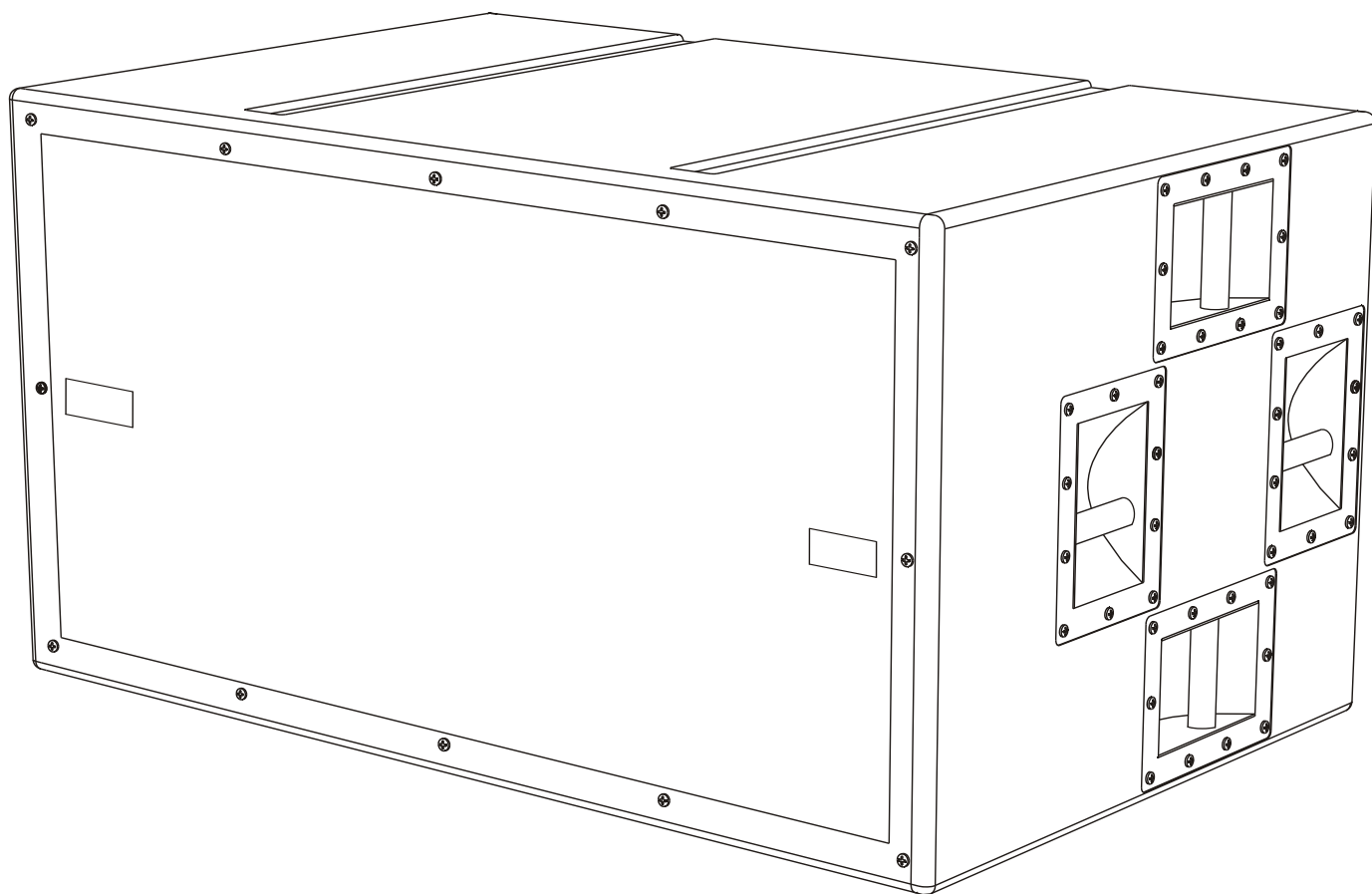


MAS20dp

ACTIVE SUBWOOFER



MANUALE d'USO - Sezione 1
USER MANUAL - Section 1
BEDIENUNGSANLEITUNG - Abschnitt 1
CARACTERISTIQUES TECHNIQUES - Section 1

digipro
digital power

dB TECHNOLOGIES
THE SOUND OF EXPERIENCE



Made in Italy

COD. 420120169 Rev 4.0

CONTROLS AND FUNCTIONS

- 1) **"MAINS FUSE" FUSE CARRIER**
Mains fuse housing.
- 2) **"FULL RANGE MAINS INPUT" POWER SOCKET**
For connecting the power cable provided.
The connector used for mains connection is a POWER CON® (blue)
- 3) **COOLING GRILLE**
These grilles permit cooling the amplifier during operation.
Do not block accesses and clean the grilles whenever necessary to ensure correct air circulation.
- 4) **"BALANCED MAIN INPUT" INPUT CONNECTOR**
Balanced input at line level (0 dBu).
It is able to accept "XLR" sockets.
- 5) **"LINK" OUTPUT CONNECTOR**
The "XLR" connector connected in parallel with input (4) can be used to send the input audio signal to another amplified speaker.
- 6) **"BALANCED X-OVER OUTPUT" OUTPUT CONNECTOR**
Internal crossover balanced output. The signal from this output can be sent to any other amplified speaker.
The crossover frequency can be selected by means of the "SUB X-OVER" switch (7).
- 7) **"SUB X-OVER" SWITCH**
This switch permits selection of crossover frequency between the sub woofer and the speakers connected to the "BALANCED X-OVER OUTPUT" connector.
The crossing frequency is selected to 90Hz or 120Hz with a slope of 24dB/oct.
The frequency choice depends to the sound reproduction desire.
- 8) **"SUB PHASE" SWITCH**
This switch permits 180° rotation of the audio signal reproduced by subwoofer.
Rotation makes for easier optimization of low-frequency reproduction even in the most difficult installation situations. After completing installation, reproduce a piece of music and adjust the switch to obtain the best low-frequency sound.
- 9) **"ON" INDICATOR LIGHT**
The "ON" indicator light comes on green to indicate the amplifier is switched on and it is working properly.
- 10) **"SGN" INDICATOR LIGHT**
This indicator comes on green to indicate the presence of the audio signal (at a level of -20dB).
- 11) **"LIM" INDICATOR LIGHT**
This indicator comes on red to indicate that the internal limiter circuit has tripped.
This prevents amplifier distortion and protects the speakers against overloads.
It is lights for a few seconds during the switching on.
- 12) **"SUB WOOFER LEVEL" INPUT SENSITIVITY CONTROL**
This control regulates the sensitivity of the signal at amplifier input.
This control does not affect the "LINK" and "BALANCED X-OVER OUTPUT" output levels
- 13) **DIGITAL DELAY "SDD - SUBWOOFER DIGITAL DELAY" OPTION**
The DVA S20dp loudspeaker can be equipped with a delay module (SDD - SUBWOOFER DIGITAL DELAY) that allows to delay the sound signal reproduced by the subwoofer. This circuit allows sound-alignment between line array and sub by balancing the various positions.
The circuit also includes a balanced "XLR" output that sends the delayed audio signal to other subwoofers. By using a single delay module it is possible to delay several subwoofers at the same time.
This module can also be used to create cardioid configuration systems. The cardioid configuration provides a remarkable attenuation of the low frequencies radiated by

the rear side of the subs, without changing the direct radiated signal on the front side.

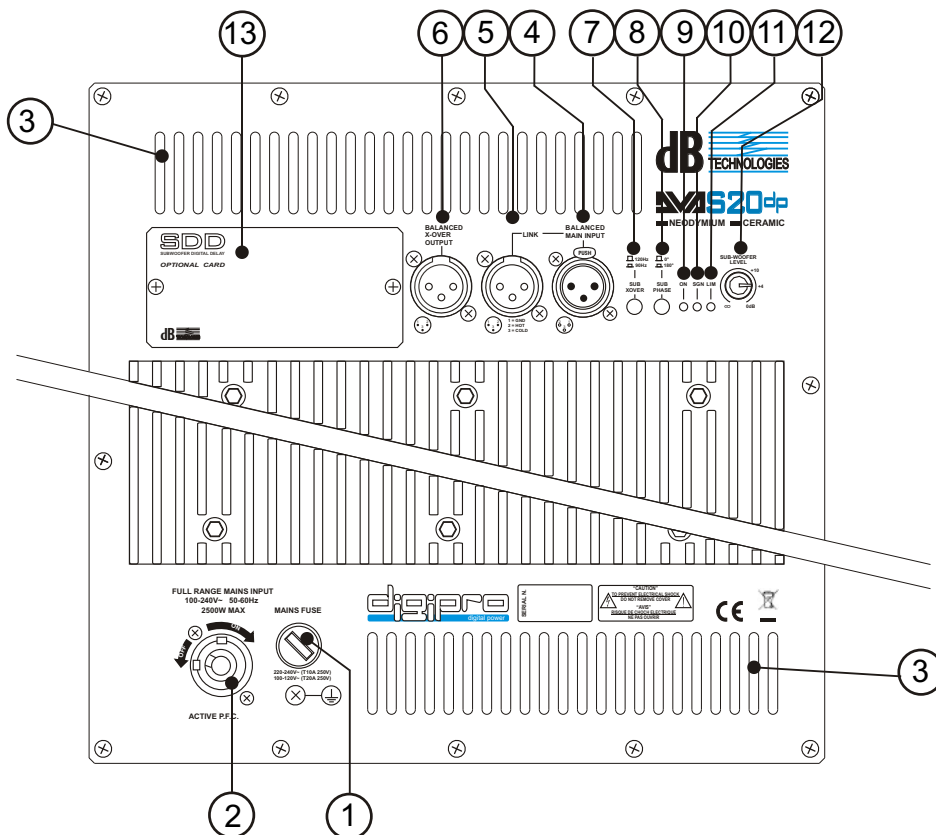
This configuration needs at least 3 subwoofers (two with front radiation and one with rear radiation equipped with SDD module). See appendix for more details.

EMI CLASSIFICATION

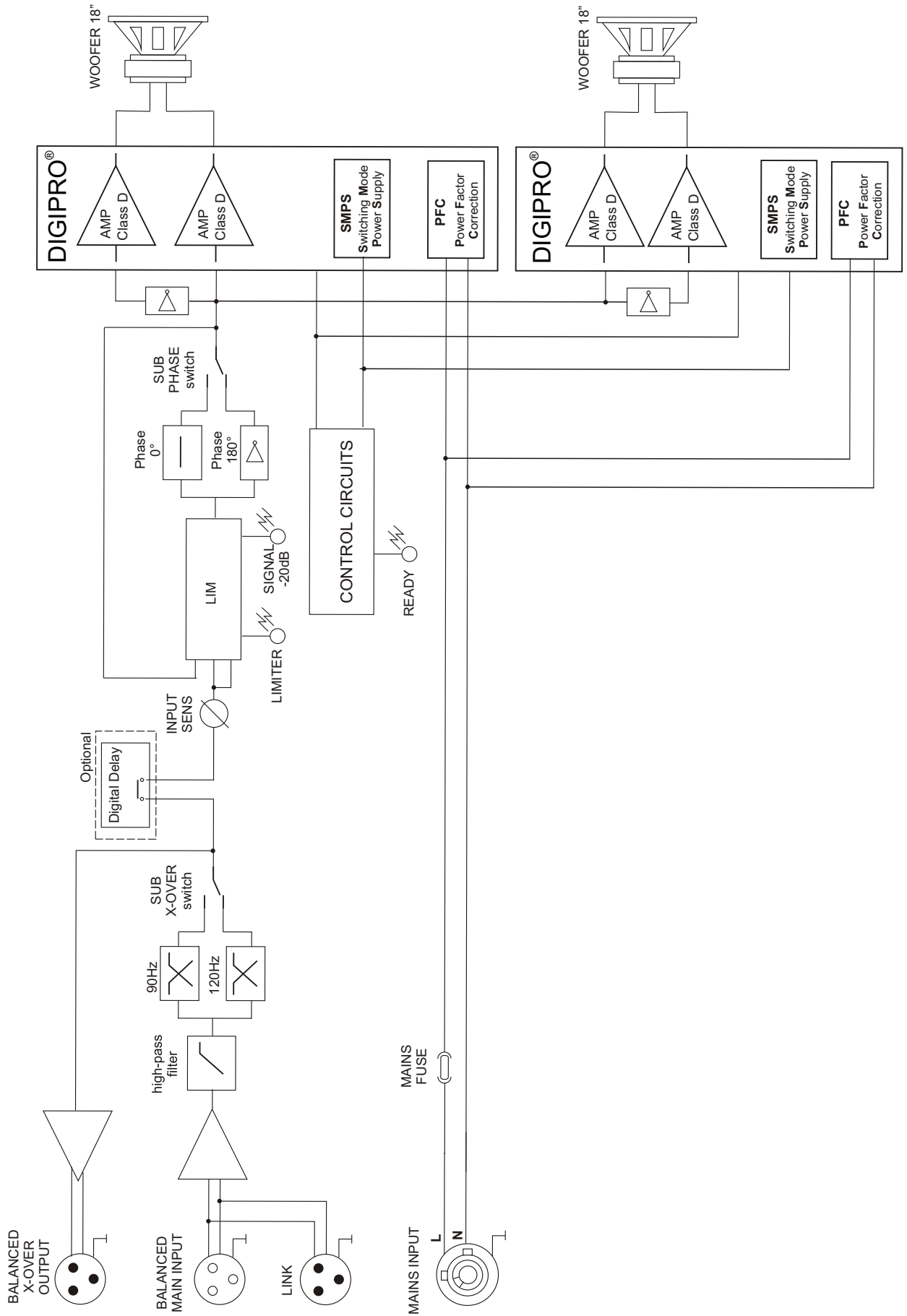
According to the standards EN 55103 this equipment is designed and suitable to operate in E5 Electromagnetic environment.

TECHNICAL SPECIFICATION

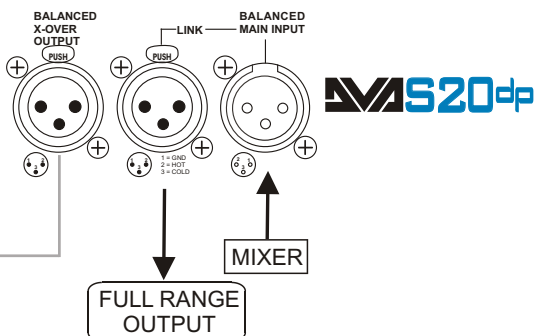
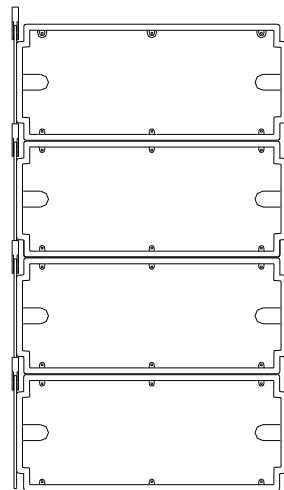
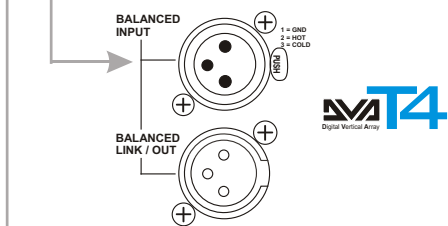
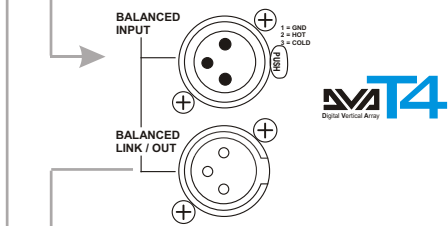
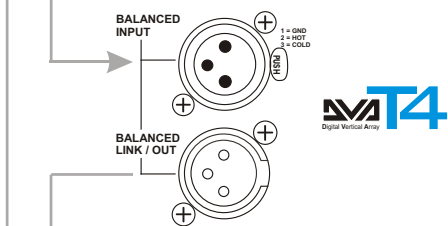
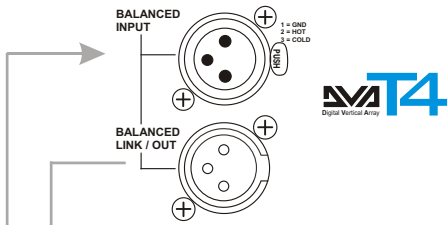
System	Active
Type of amplifier	Digital - Class D (DIGIPRO®)
RMS power	2000 W (1000 W + 1000 W)
Musical power	4000 W
Frequency response +/-3dB	25-150Hz
Crossover	90 - 120Hz (24dB/oct) selecting
Sound pressure (SPL)	138dB peak
Woofers	2 x woofer 18" - 4" voice coil Neodymium or Ceramic
Input sensitivity nominal	0 dBu
Impedance input	Balanced 20Kohm Unbalanced 10Kohm
Power supply	Full-range with PFC, 100-240Vac, 50-60Hz
Speaker shape	rectangular
Dimension [WxHxD]	1100x720x580mm
Weight	Neodymium 77Kg - Ceramic 84Kg



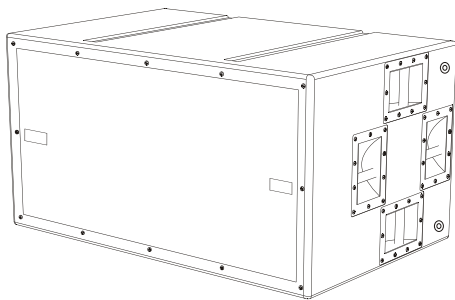
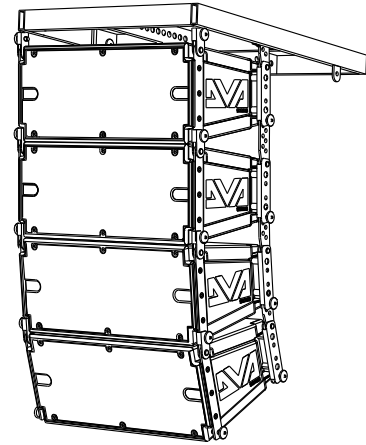
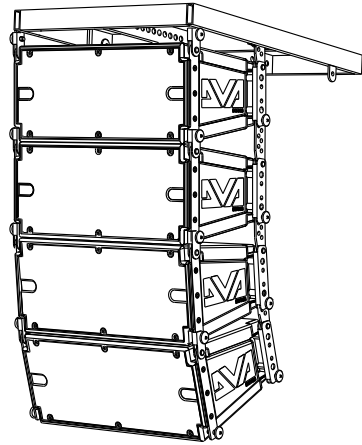
**SCHEMA A BLOCCHI
BLOCK DIAGRAM
BLOCKSCHALTBIKD
DIAGRAMA EM BLOQUES**



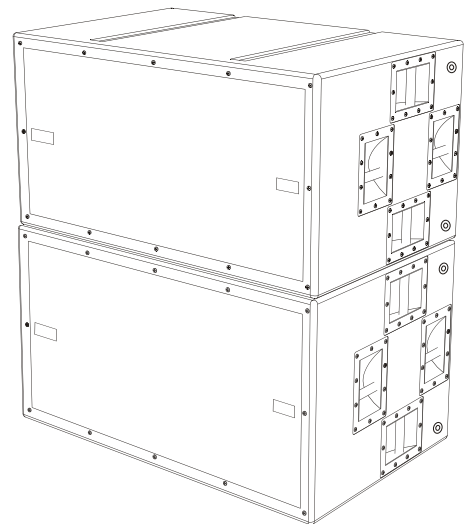
COLLEGAMENTI CABLE CONNECTIONS VERKABELUNG CABLAGE



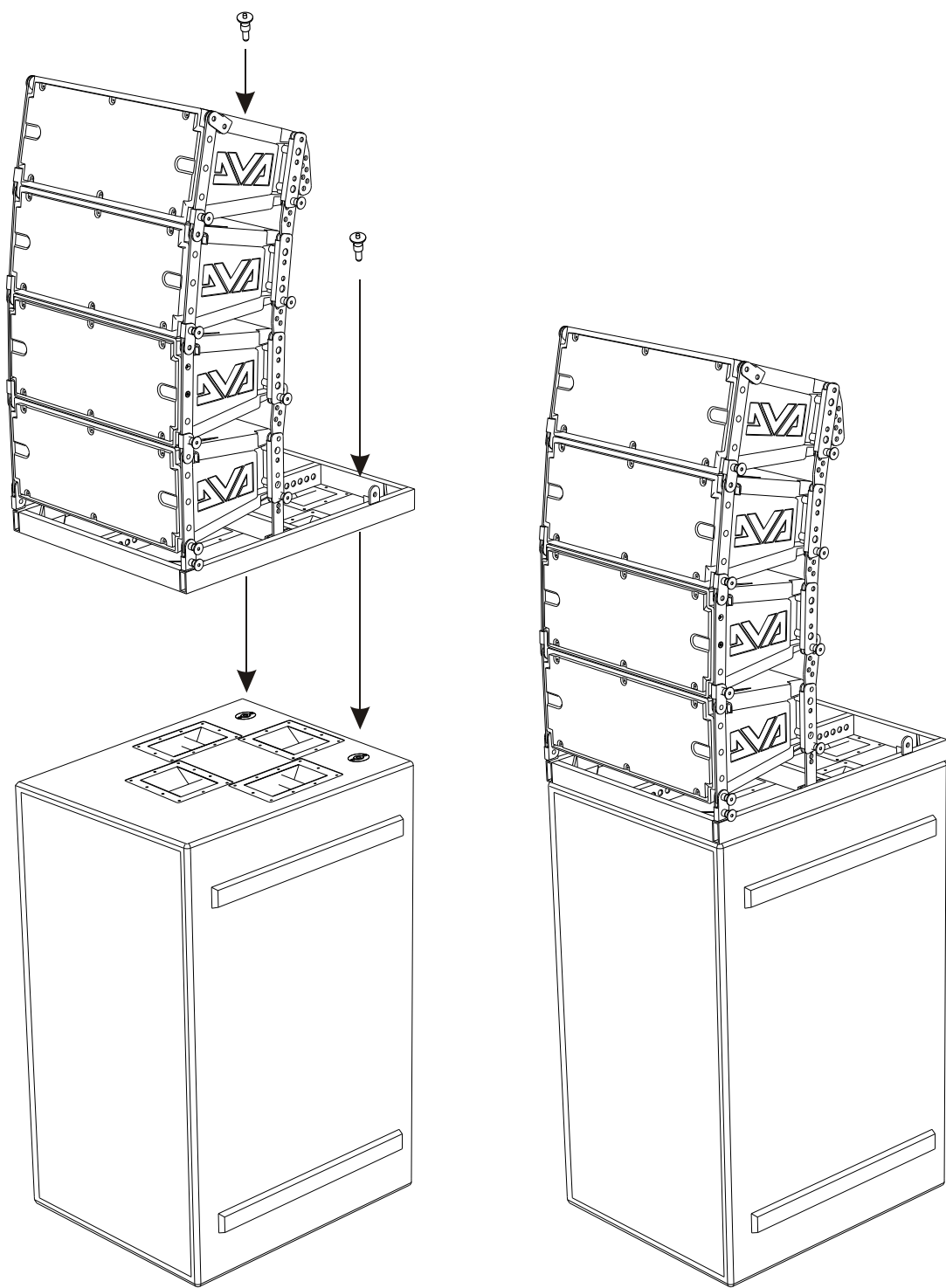
INSTALLAZIONE
INSTALLATION
INSTALLATIONEN
INSTALLATIONS



Utilizzo in appoggio
Supported use
Anwendung mit Aufstützung
Utilisation en appui

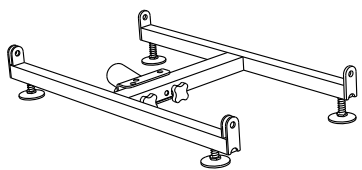


Impilato
Stacked
Aufgesetzt
Empilée

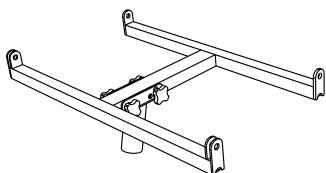
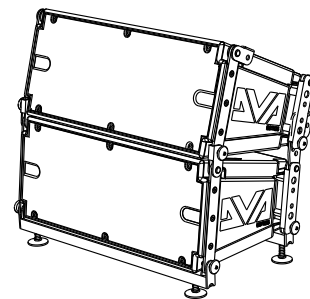


Utilizzo in appoggio verticale (DVA T4 montaggio "Ground stacking")
 Supported use (DVA T4 "Ground stacking" assembling)
 Anwendung mit Aufstützung (DVA T4 "Ground stacking" Zusammenbauen)
 Utilisation en appui (DVA T4 "Ground stacking" installation)

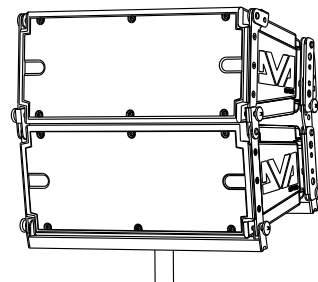
**Opzione DSA 4
DSA 4 Option**



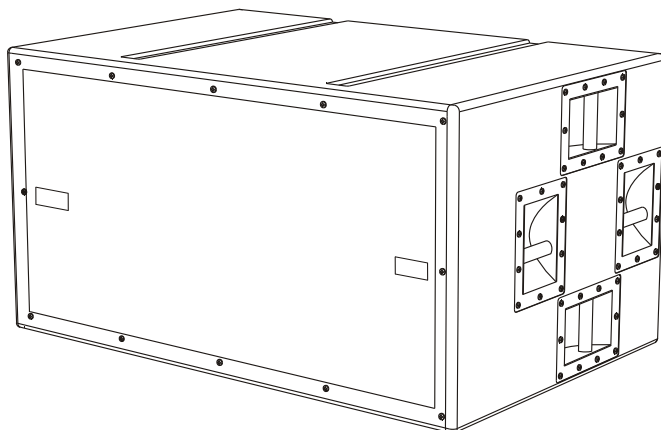
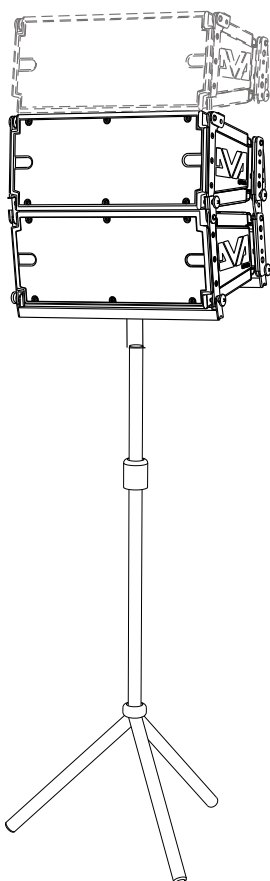
In appoggio
Floor stack



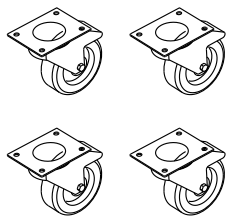
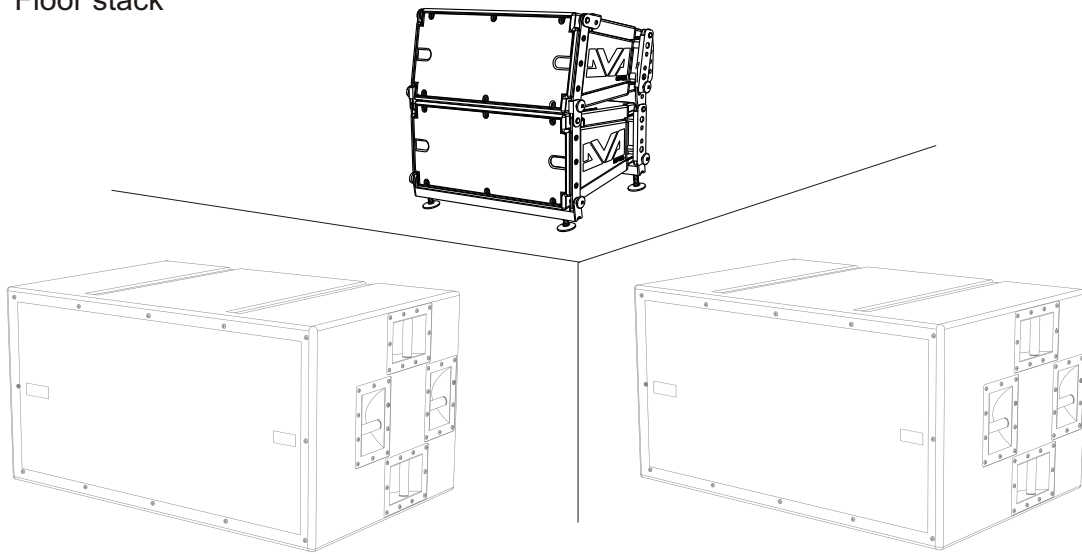
Per supporto asta
Stand adaptor



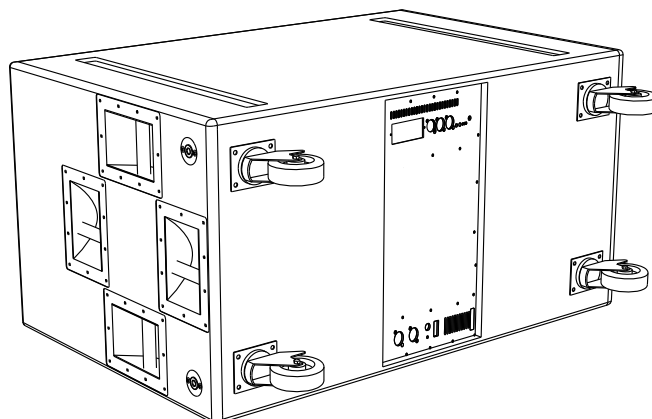
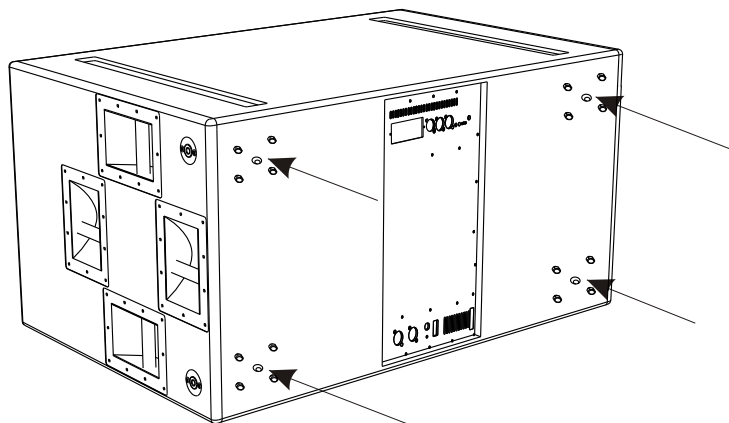
Per supporto asta
Stand adaptor

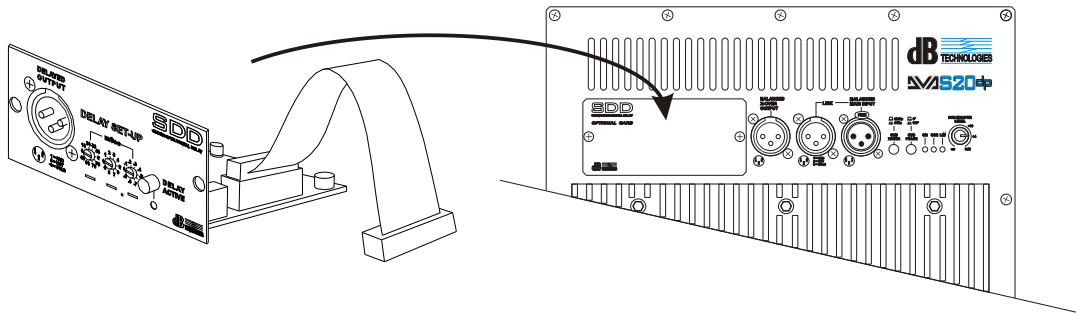


In appoggio
Floor stack



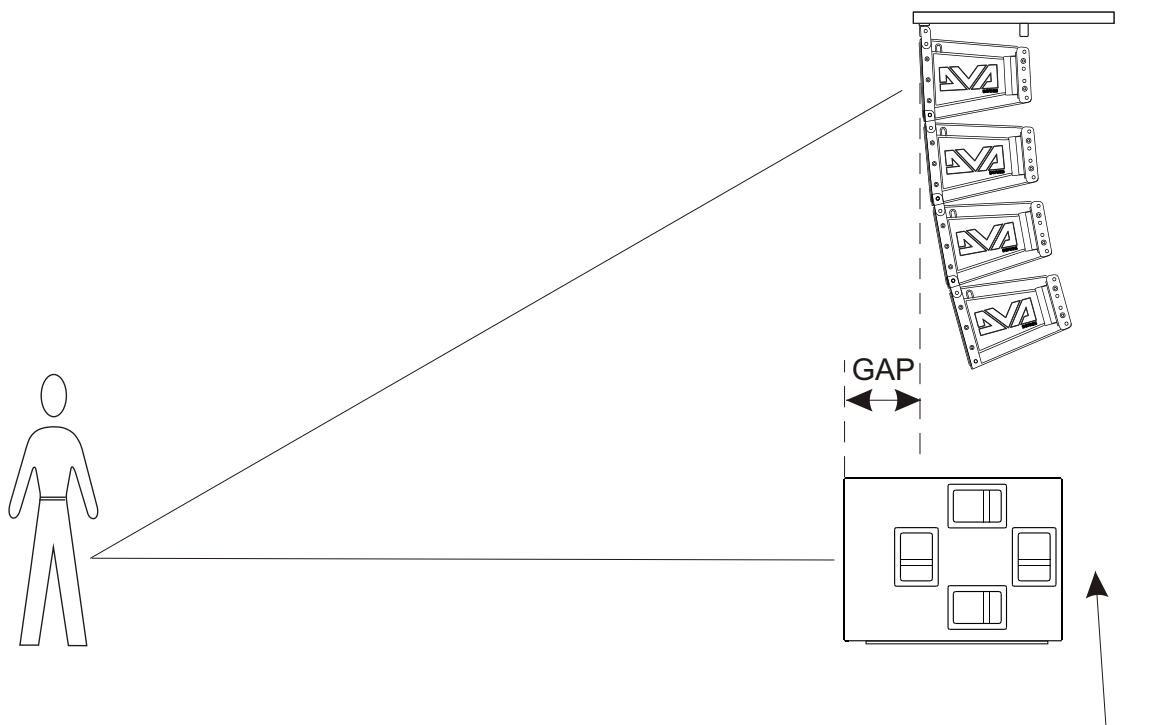
Set di 4 ruote - opzione DWK 20
Set of 4 wheels - DWK 20 option





Digital Delay subwoofer - opzione SDD
Subwoofer Digital Delay - SDD option

ALLINEAMENTO SEGNALE AUDIO
ALIGNMENT AUDIO SIGNAL



$$\text{Delay setup} = (\text{GAP} \times 1000) / 344$$

Delay = ms (espresso in millisecondi)

GAP = m (espresso in metri)

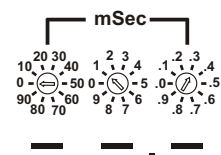
Velocità suono = 344 m/s

Delay = ms (specify milliseconds)

GAP = m (specify meters)

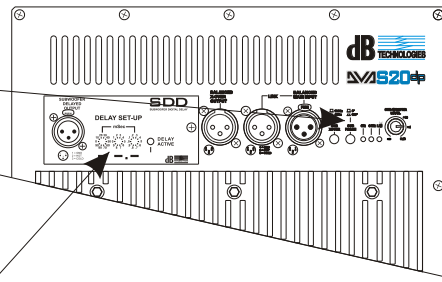
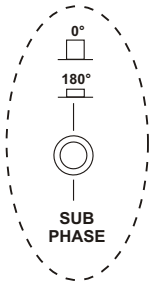
Sound speed = 344 m/s

DELAY SET-UP

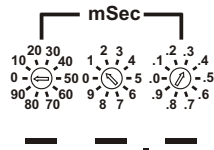


**CONFIGURAZIONE CARDIOIDE
CARDIOID CONFIGURATION**

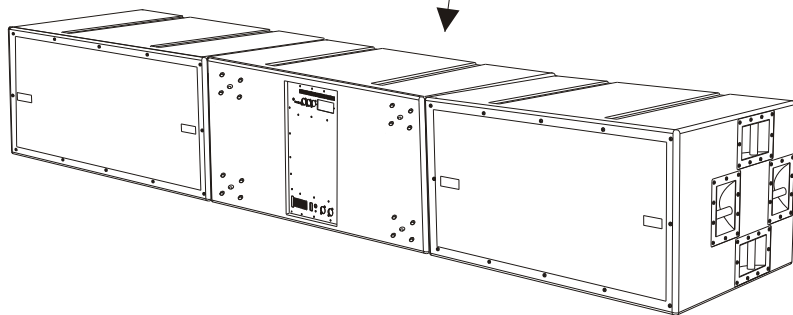
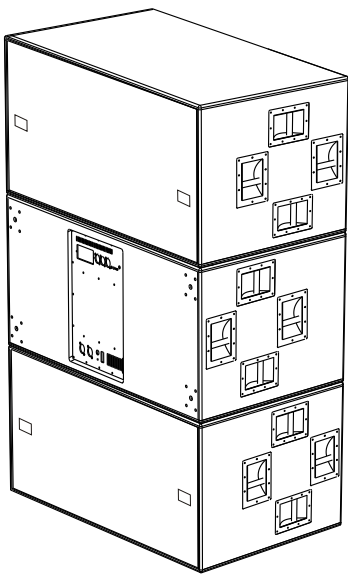
Ruotare la fase di 180°
Rotate 180° phase



DELAY SET-UP



Impostare il delay a 4,5msec
Set delay to 4,5msec



**ISTRUZIONI DI SICUREZZA PER ACCESSORI / SAFETY INSTRUCTIONS FOR ACCESSORIES
ZUBEHÖR SICHERHEITSHINWEISE / INSTRUCTIONS DE SÉCURITÉ POUR LES ACCESSOIRES**



Contattare dB Technologies per gli accessori da utilizzare a corredo.
Si declina ogni responsabilità da un utilizzo inappropriato degli accessori o di dispositivi aggiuntivi non idonei allo scopo.

Contact dB Technologies for accessories to be used with speakers.
Will not accept any responsibility when inappropriate accessories or not suitable additional devices are used.

Kontaktieren sie dBTechnologies für passendes Lautsprecherzubehör.
Falls unpassendes Zubehör verwendet wird, wird jegliche Haftung ausgeschlossen.

Contact dBTechnologies pour les accessoires à utiliser avec la machine.
N'accepterons pas toutes les responsabilités lorsque des accessoires inappropriés ou ne conviennent pas à des dispositifs supplémentaires sont utilisés.



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