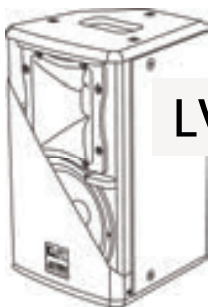
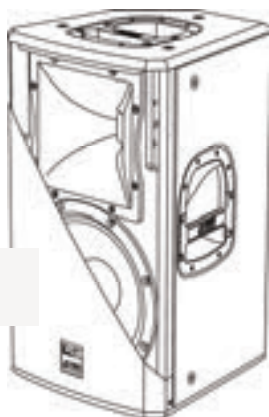


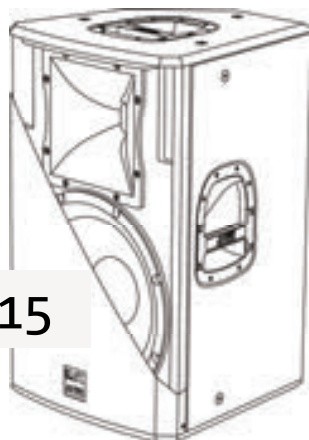
LVX 10



LVX 8



LVX 12



LVX 15

DESIGNED & DEVELOPED IN ITALY



Made in China

MANUALE D'USO - Sezione 1

USER MANUAL - Section 1

BEDIENUNGSANLEITUNG - Abschnitt 1

CARACTERISTIQUES TECHNIQUES - Section 1



Le avvertenze nel presente manuale devono essere osservate congiuntamente al "MANUALE D'USO - Sezione2".

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

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

Les avertissements dans ce manuel doivent être respectés en collaboration avec le "CARACTERISTIQUES TECHNIQUES - Section 2".

Index

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1. DESCRIPTION

The speakers of LVX series use digital amplifiers DIGIPRO® series last generation. These highly efficient amplifiers provide high power with limited weight and dimension. Thanks to the low power dissipated, the cooling of the amplifier module does not require a fan.

The digital preamplifier with DSP (Digital Signal Processing) controls the audio crossover between the acoustic components, the frequency response, the limiter, and the acoustic alignment. A selector enables to select one of two different equalizations - "FLAT" or "PROCESSED" - to provide high versatility for the different applications.

The amplifiers DIGIPRO® for LVX 12 and LVX 15 speakers use power supplies featuring SMPS (Switched-Mode Power Supplies) technology.

This technology increases power supply efficiency and minimizes its weight.

LVX 8

The LVX 8 bi-amped active speaker is equipped with a DIGIPRO® amplifier delivering 400W (Power PRG).

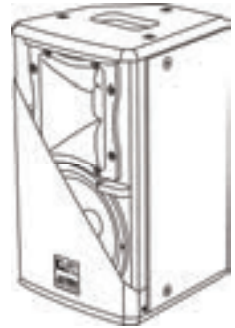
LVX 8 active two-way speaker features woofer 8" (voice coil 1,5") and a driver 1" (voice coil 1") on 90°x70°horn.

The speakers' horizontal directivity is 90° by default factory setting.

The speaker is made of 12mm ply wood, the one top handle housing and the 10 M8 threads located on the sides and the back of the speaker are enabling easy transport and installation.

The speaker has been designed to be used also as stage monitor (40° angle), by rotating the horn you can maintain the same audio coverage angle of high frequencies also when the speaker is used as monitor.

In the bottom of the box there is a standard pole mount cup (D36mm).



LVX 10

LVX 10 bi-amped active speaker is equipped with a DIGIPRO® amplifier delivering 400W (Power PRG).

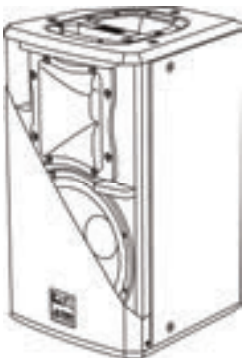
LVX 10 active two-way speaker features a woofer 10" (voice coil 2") and a driver 1" (voice coil 1") on 90°x70°horn.

The speakers' horizontal directivity is 90° by default factory setting.

The speaker is made of 12mm plywood, the one top plastic handle and the 12 M8 threads located on the sides and the back of the speaker are enabling easy transport and installation.

The speaker has been designed to be used also as stage monitor (40° angle), by rotating the horn you can maintain the same audio coverage angle of high frequencies also when the speaker is used as monitor.

In the bottom of the box there is a standard pole mount cup (D36mm).



LVX 12

The LVX 12 bi-amped active speaker is equipped with a DIGIPRO® amplifier delivering 800W (Power PRG).

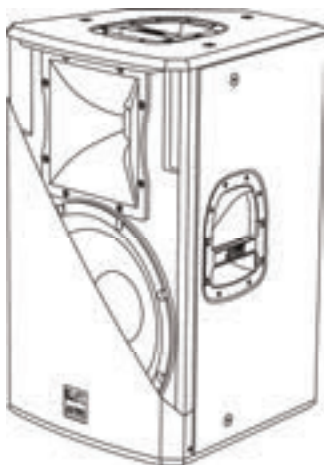
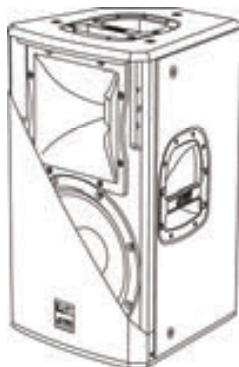
LVX 12 active two-way speaker features woofer 12" (voice coil 1") and compression driver 1" (voice coil 1,5") on a 90°x40° horn.

The speakers' horizontal directivity is 90° by default factory setting.

The speaker is made of 15mm birch plywood, the three plastic handles and the 12 M10 threads located on the sides and the back of the speaker are enabling easy transport and installation.

The speaker has been designed to be used also as stage monitor (45° angle), by rotating the horn you can maintain the same audio coverage angle of high frequencies also when the speaker is used as monitor.

In the bottom of the box there is a standard pole mount cup (D36mm).

**LVX 15**

LVX 15 bi-amped active speaker is equipped with a DIGIPRO® amplifier delivering 800W (Power PRG).

LVX15 active two-way speaker features a woofer 15" (voice coil 2") and a compression driver 1" (voice coil 1,5") on a 90°x40° horn.

The speakers' horizontal directivity is 90° by default factory setting.

The speaker is made of 15mm birch plywood, the three plastic handles and the 12 M10 threads located on the sides and the back of the speaker are enabling easy transport and installation.

The speaker has been designed to be used also as stage monitor (45° angle), by rotating the horn you can maintain the same audio coverage angle of high frequencies also when the speaker is used as monitor.

In the bottom of the box there is a standard pole mount cup (D36mm).

2. COMMANDS AND FUNCTIONS**1) "Balanced Input" - "Link" - "Input Link" CONNECTORS**

These balanced inputs can be used to connect balanced or unbalanced microphones or audio sources at line level (0dB) (eg. preamplifier, mixer, ...)

The balanced connector is connected in parallel and can be used to send the audio signal to other amplified speakers, recorders or supplementary amplifiers.

2) "Ready" INDICATOR LIGHT

This indicator shows green to indicate that the main power voltage is correct.

The LED shows green normal operating conditions.

3) "Signal" INDICATOR LIGHT

This indicator shows green to indicate the presence of the audio signal (at a level of -20dB).

4) **“Limiter” INDICATOR LIGHT**

This indicator shows red to indicate that the internal limiter circuit has tripped. This prevents amplifier distortion and protects the speakers against overloads.

5) **“Sensitivity” INPUT SENSITIVITY CONTROL**

This control adjusts the sensitivity of the signal amplifier input. This control does not affect the “Link” - “Input - Link” output level

6) **MODE SWITCH**

This two-way switch allows to choose between two different system presets. The “Flat” position allows linear response of the speaker, which is mainly suitable for the “live” application. The “Processed” position emphasizes the low frequency and regulates the mid frequency. It is suitable for music play back

7) **“Input Sens” SWITCH**

Position the switch in LINE to use a line level source (0 dB) or MIC to use a microphone.

8) **POWER CABLE SOCKET “MAINS”**

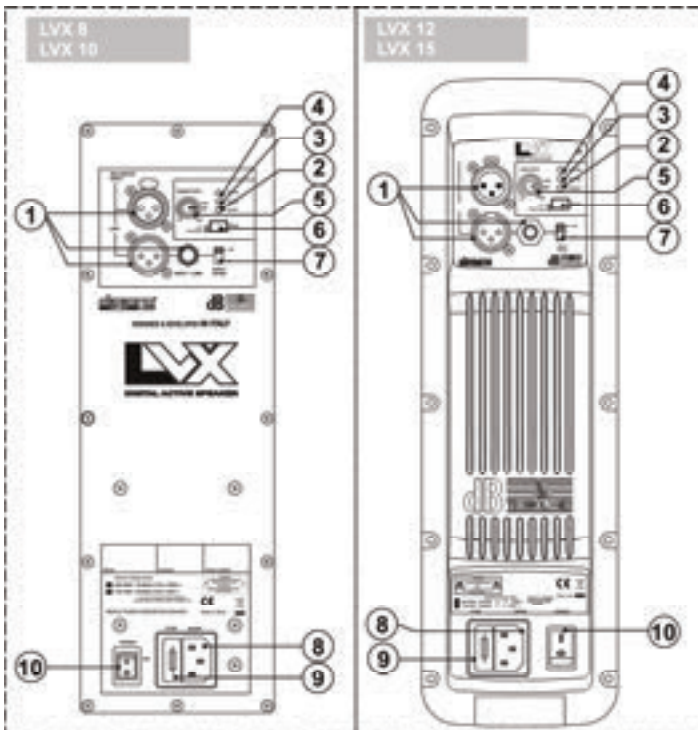
Used for connecting the power cable supplied.

9) **FUSE CARRIER “FUSE”**

Mains fuse housing.

10) **POWER SWITCH “POWER”**

This switch can be used to switch the diffuser on and off.



3. CHARACTERISTICS AND PROTECTION

Front Grille

The speaker's components in the box are protected by 1,2mm (LVX 8 and LVX 10) or 1,5mm (LVX 12 and LVX 15) metal steel grille covered by foam on backside.

Cooling

Thermal control is provided by the internal microprocessor which, by means of two sensors, controls the temperature of the amplifier and of the power supply, avoiding overheating by limiting the overall volume.

In case of overheating (> 80 degrees) the volume decreases proportionally to the temperature increase, making the change unnoticeable.

The correct volume and all the functions are automatically restored when standard operating temperatures are reached.

Switch on

The amplifiers are equipped with a microprocessor to control the DSP and the amplifier.

The correct switch on of the amplifier is ensured by an initialization procedure; during this test stage and the LEDs ("Limiter", "Signal" and "Ready"), located on the amplifier module, remain off for approx. 2 sec.

At the end of the switch on procedure, the front LED lights up (if enabled) and on the amplifier module the "Ready" green LED only remains steadily on.

In case of severe failure of the speaker, the LED on the front panel flashes several times and on the amplifier module, the "Limiter" red LED flashes and the speaker switches to "mute".

Failure indications and safeties

The microprocessor is able to signal three different kinds of failure by flashing the "Limiter" red LED on the amplifier panel before the lighting up of the "Ready" green LED. The three types of failure are:

- **WARNING:** a non-severe error or auto-ripristinate malfunction is detected and the performance of the speaker is not limited
- **LIMITATION:** an error is detected and the performance of the speaker is limited (the sound level is reduced by 3dB).
- This does not affect the operation of the speaker since it continues to operate. However, it is necessary to call the service center to solve the issue.
- **FAILURE:** a severe malfunction is detected. The speaker switches to "mute".

Flashing	Indication
1 or 2	Warning
3 or 4	Limitation
from 5 to 8	Failure

In case of failure, the "Ready" green LED remains off.

Perform the checks listed below:

- Check if the speaker is properly connected to the power supply.
- Make sure that the power supply is of correct voltage.
- Check that the amplifier is not overheated.
- Disconnect the speaker from the mains power supply, wait for a few minutes and connect it again.

If after these tests the red "LIMITER" LED is still on, please contact an authorized service center.

4. ROTATING HORN

Loudspeaker allows to maintain the same coverage angle by featuring a rotating horn. The speakers are always supplied by the manufacturer with the horn positioned horizontal by default at 90° for LVX series.

If you wish to change the coverage angle (Fig. 1):

- unscrew the fixing screws of the grille
- remove the front protective grille by slightly pressing on one side and taking the grille off the recessed slots
- unscrew the fixing screws of the horn
- rotate the horn in the desired position (the horn should never be removed from the driver!)
- tighten the fixing screws of the horn
- put the grille back in the recessed slots and tighten the screws of the grille.

5. LOUDSPEAKER INSTALLATION



WARNING

Make sure that the loudspeaker is securely installed in a stable position to avoid any injuries or damages to persons or property.

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 outdoors avoid places that are exposed to bad weather.

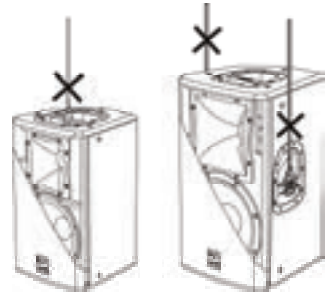
The loudspeaker has the following mounting options:

- bookshelf
- floor (monitor)
- on speaker stands
- suspended with support rails or brackets supplied by the manufacturer



WARNING

Never use the handles to hang the speaker!



WARNING

To hang the loudspeaker use only one eyebolt for each hanging point. The hanging points are of M8 threads for LVX 8 / LVX 10 and M10 threads for LVX 12 / LVX 15.

Do not unscrew both bolts recessed in the housing!



6. TECHNICAL SPECIFICATION

	LVX 8	LVX 10
System	Active 2-Amps	Active 2-Amps
Type of amplifier	Digital – Class D DIGIPRO G2 technology	Digital – Class D DIGIPRO G2 technology
Power PRG	400W	400W
Peak Power	800W	800W
Frequency response (-6dB)	80Hz-19.000Hz	70Hz-19.000KHz
(-10dB)	65Hz-20.000KHz	60Hz-20.000KHz
Crossover LF-HF (low-high)	2050Hz 24db/oct.	2050Hz 24db/oct.
Cover range	90°x70°(rotate)	90°x70°(rotate)
Sound pressure (SPL)	121dB max	125dB max
Cooling	Convection, fan-free	Convection, fan-free
Limiter	Peak, RMS, Thermal, limiters	Peak, RMS, Thermal, limiters
Component parts	1 woofer 8" – VC 1,5" 1 driver – VC 1"	1 woofer 10" – VC 2" 1 driver – VC 1"
Input sensitivity nominal	-3dBu max	-3dBu max
Input impedance (MIC/LINE)	2,2Kohm/20Kohm	2,2Kohm/20Kohm
Power supply	100-120Vac 50-60Hz 220-240Vac 50-60Hz	100-120Vac 50-60Hz 220-240Vac 50-60Hz
Inrush current	2,1A	2,1A
Current consumption		
100-120Vac 50-60Hz	1,5A	1,5A
220-240Vac 50-60Hz	0,75A	0,75A
Dimensions (LxHxP)	260x420x260mm 10.24x16.54x10.24in.	300x480x300mm 11.81x18.90x11.81in
Weight	10,1Kg 22.27lbs	13,5Kg 29.76lbs
DSP processor		
Audio conversion AD/DA	24bit/48KHz	24bit/48KHz
Volume control	Digital	Digital
Mechanical parts		
Box material	Plywood	Plywood
Colour	Black	Black
Housing shape	Trapezoidal	Trapezoidal
Stirrup material	Steel	Steel
Flying support	10xM8	12xM8
Handle	1 housing (top side)	1 plastic (top side)
Pole mount cup	D36mm (aluminium)	D36mm (aluminium)
Frontal grille	Performed sheet 1.2mm with internal foam	Performed sheet 1.2mm with internal foam

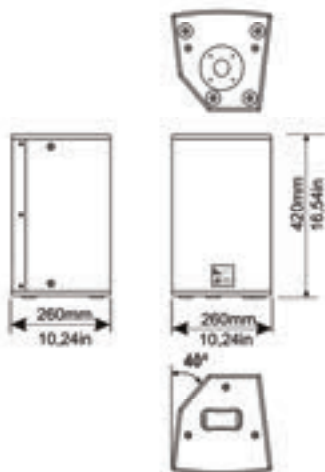
	LVX 12	LVX 15
System	Active 2-Amps	Active 2-Amps
Type of amplifier	Digital – Class D DIGIPRO G2 technology	Digital – Class D DIGIPRO G2 technology
Power PRG	800W	800W
Peak Power	1600W	1600W
Frequency response (-6dB)	62Hz-19KHz	54Hz-19KHz
(-10dB)	55Hz-20KHz	49Hz-20KHz
Crossover LF-HF (low-high)	1800Hz 24db/oct.	1800Hz 24db/oct.
Cover range	90°x40°(rotate)	90°x40°(rotate)
Sound pressure (SPL)	127dBmax	128dBmax
Cooling	Convection, fan-free	Convection, fan-free
Limiter	Peak, RMS, Thermal, limiters	Peak, RMS, Thermal, limiters
Component parts	1 woofer 12" – VC 2" 1 compression driver – VC 1,5"	1 woofer 15" – VC 2" 1 compression driver – VC 1,5"
Input sensitivity nominal	-3dBu max	-3dBu max
Input impedance (MIC/LINE)	2,2Kohm/20Kohm	2,2Kohm/20Kohm
Power supply	100-120Vac 50-60Hz 220-240Vac 50-60Hz	100-120Vac 50-60Hz 220-240Vac 50-60Hz
Inrush current	6,9A	6,9A
Current consumption		
100-120Vac 50-60Hz	3A	3A
220-240Vac 50-60Hz	1,6A	1,6A
Dimensions (LxHxP)	360x610x360mm 14.71x24.02x14.17in	430x680x430mm 16.93x26.77x16.93in
Weight	17,0Kg 37.48lbs	20,7Kg 45.64lbs
DSP processor		
Audio conversion AD/DA	24bit/48KHz	24bit/48KHz
Volume control	Digital	Digital
Mechanical parts		
Box material	Plywood	Plywood
Colour	Black	Black
Housing shape	Trapezoidal	Trapezoidal
Stirrup material	Steel	Steel
Flying support	12 x M10	12 x M10
Handle	1 plastic (top side) 2 plastic (one per side)	1 plastic (top side) 2 plastic (one per side)
Pole mount cup	D36mm (aluminium)	D36mm (aluminium)
Frontal grille	Performed sheet 1.5mm with internal foam	Performed sheet 1.5mm with internal foam

EMI CLASSIFICATION

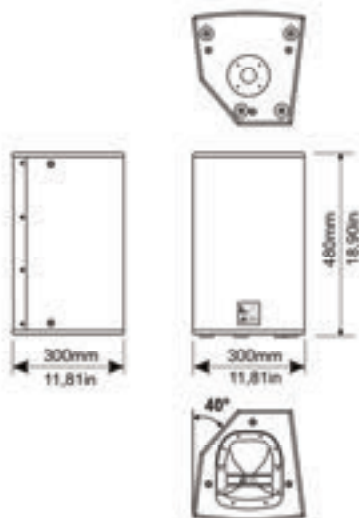
According to the standards EN 55103 this equipment is designed and suitable to operate in E3 (or lower E2, E1) Electromagnetic environments.

DIMENSIONI - DIMENSIONS
ABMESSUNGEN – DIMENSIONS

LVX 8



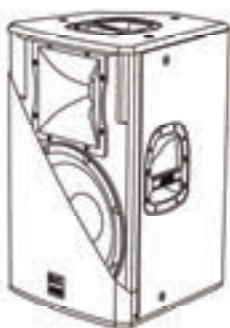
LVX 10



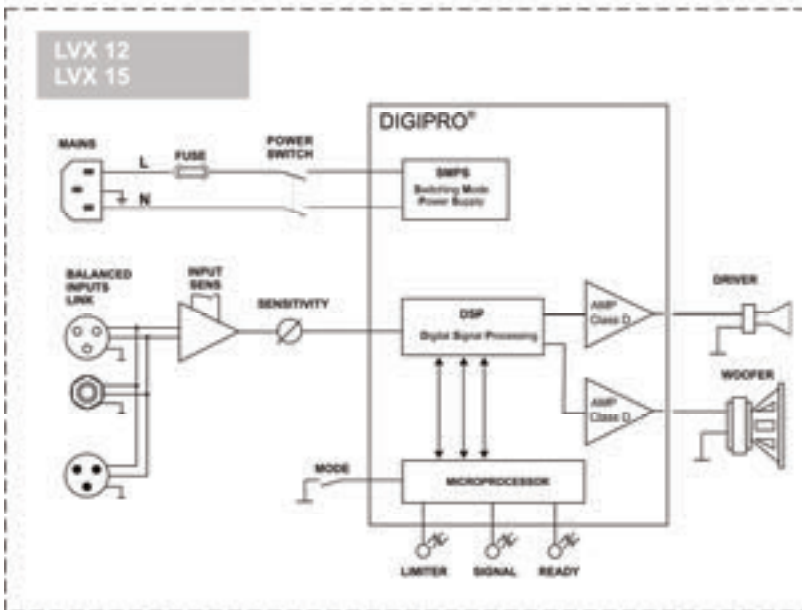
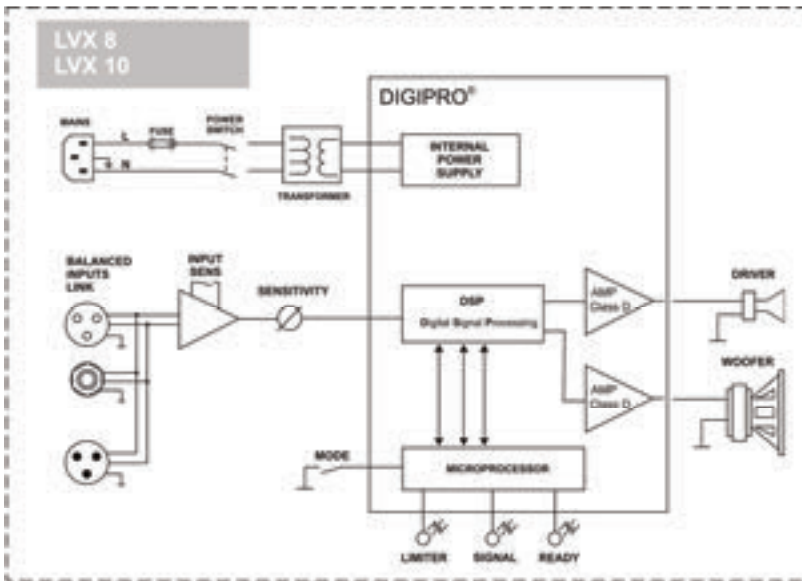
LVX 12



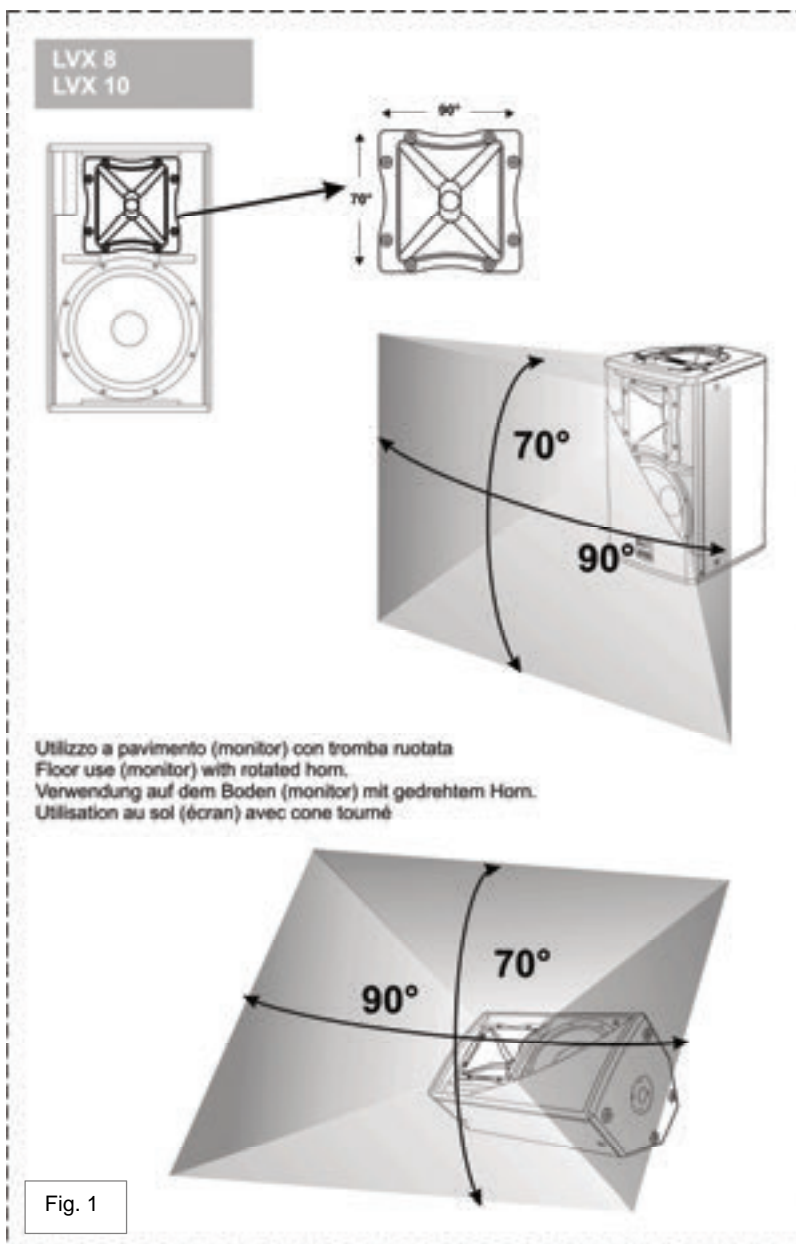
LVX 15

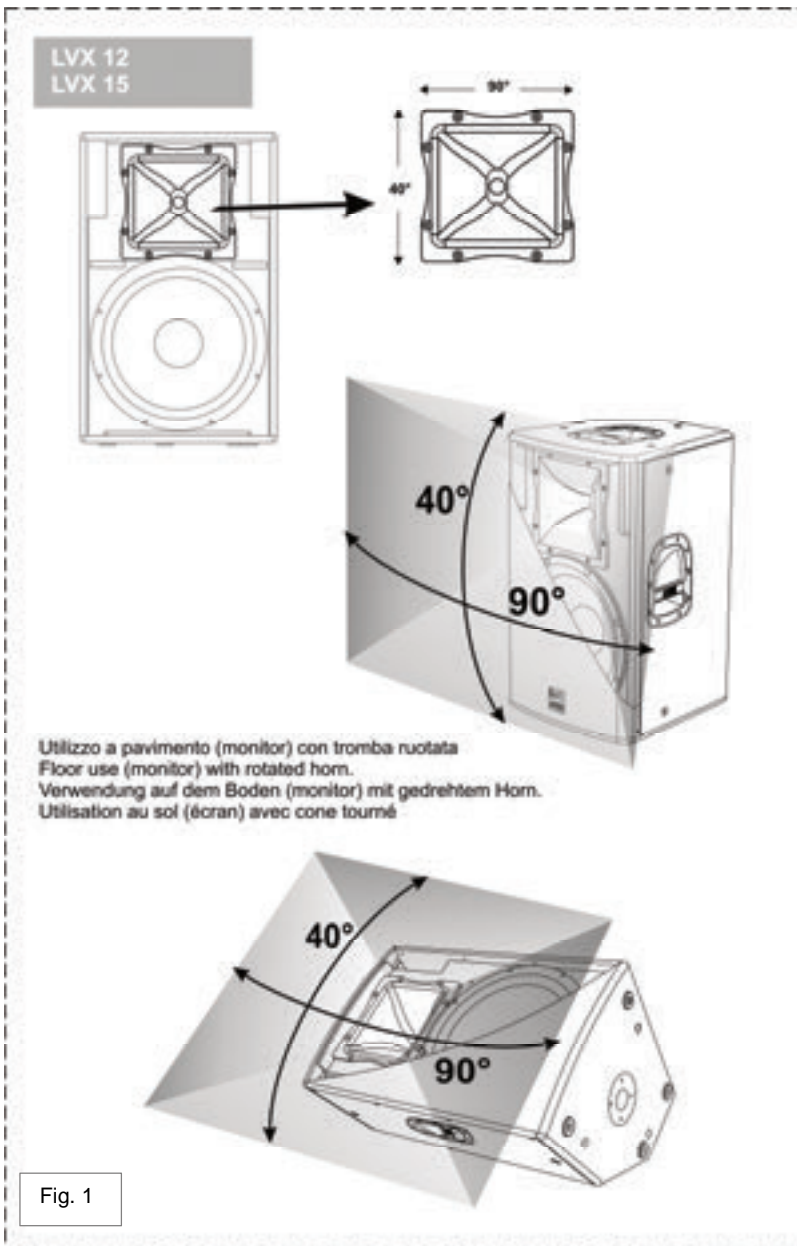


SCHEMA A BLOCCHI - BLOCK DIAGRAM
BLOCKSCHALTBIKD - SCHEMAS FONCTIONNELS



ANGOLO DI COPERTURA TROMBA - HORN ANGLE COVERED
HOCHTONHORN ABSTRAHLWINKEL - ANGLE DE COUVERTURE CÔTÉ







AVVERTENZA – WARNING – ACHTUNG – ATTENTION

Prima si sospendere il diffusore controllare tutti i componenti da utilizzare (non devono presentare danni, deformazioni, parti mancanti o danneggiate che possono ridurre la sicurezza dell'installazione).

Before hanging the loudspeaker check all the components for damages, deformations, missing or damaged parts that may compromise safety during installation.

Bevor man den Lautsprecher aufhängt, alle Teile kontrollieren, sie sollen keine Schäden oder Verformungen, keine fehlenden oder beschädigten Teile haben, die eine sichere Installation beeinträchtigen könnten.

Avant de suspendre le diffuseur, contrôler tous les composants à utiliser, qui ne doivent présenter aucun dommage, aucune déformation ou partie manquante ou abimée qui seraient susceptibles de réduire la sécurité de l'installation.



AVVERTENZA – WARNING – ACHTUNG – ATTENTION

L'utilizzo del diffusore su supporto piantana deve essere effettuato esclusivamente da personale professionale qualificato, prestando attenzione a posizionare un piede del supporto piantana in direzione del lato di uscita del suono (lato anteriore del diffusore) in modo da massimizzare la stabilità del sistema in relazione al suo baricentro.

The installation of the speaker on speaker stand must be carried out exclusively by professionally qualified staff, being careful to place a speaker stand foot in the direction of the output side of the sound (front side of the speaker) so as to maximize stability in relation to the center of gravity of the speaker

Die Benutzung des Lautsprechers mit Ständer und Topplatte darf nur durch qualifiziertes Fachpersonal erfolgen. Hierbei ist darauf zu achten, dass ein Fuß des Ständers in Richtung der Schallseite (Vorderseite des Lautsprechers) positioniert ist, um die höchste Stabilität in Bezug auf den Schwerpunkt des Lautsprechers zu erreichen

L'utilisation du diffuseur sur support avec pied doit être effectué par un personnel professionnel qualifié qui doit veiller à positionner un pied de support en direction du côté où sort le son (côté antérieur du diffuseur) de manière à optimiser la stabilité par rapport au barycentre du diffuseur



AVVERTENZA – WARNING – ACHTUNG – ATTENTION

Nell'utilizzo dei diffusori con supporto per subwoofer (Pole mount), assicurarsi che il subwoofer di supporto del/i diffusore/i sia posizionato su una superficie piana, orizzontale e priva di inclinazioni.

When using the speaker with a pole mount for subwoofer, make sure that the subwoofer which supports the speaker is placed on a flat, horizontal surface without inclinations.

Bei der Verwendung des Lautsprechers mit Hochständer für Subwoofer (Pole Mount) fall ist darauf zu achten, dass der Subwoofer unter dem Lautsprecher auf einer Wohnung, horizontalen und frei von Neigungen.

Pour l'utilisation du diffuseur avec support en colonne pour caisson de basse (pole mount) s'assurer que le caisson de basse de support du diffuseur soit positionné sur une surface plat, horizontale en dépourvue d'inclinaisons.

SUPPORTO PIANTANA STANDARD (D36mm)
STANDARD STAND (D36mm)
STANDARD-HOCHSTÄNDER (D36mm)
SUPPORT STANDARD (D36mm)



ADATTATORE MINI-POLE DS2-S
MINI POLE ADAPTER DS2-S



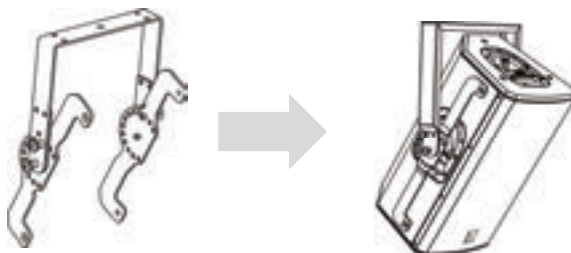
ACCESSORI PER APPENDERE I DIFFUSORI
ACCESSORIES FOR HANGING UP SPEAKERS
ZUBEHÖR ZUR AUFHÄNGUNG VON LAUTSPRECHERN
ACCESSOIRES POUR ACCROCHER LES DIFFUSEURS

Montaggio orizzontale tramite staffa
Horizontal mounting with bracket
Horizontale Montage mit Halterung
Montage horizontale avec support

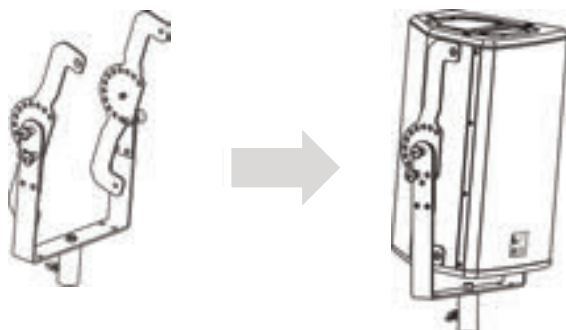
Codice accessori
Accessories code
Accessoires Code
Zubehör Code

WB-L8V	LVX 8
WB-L10V	LVX 10
WB-L12V	LVX 12
WB-L15V	LVX 15

Per assemblaggio a muro e su truss
For wall or truss assembly
Für Wand- oder Traversenmontage
Pour mur ou assemblage de poutres



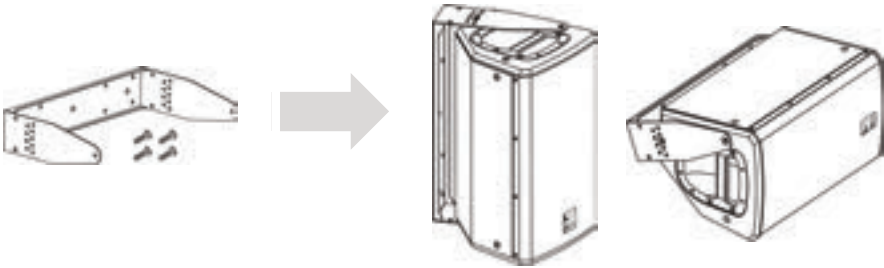
Per assemblaggio su supporto pianta D36mm con diffusore inclinato
For assembly on stand support D36mm with speaker angle
Pour le montage sur D36mm de base avec angle de l'enceinte
Zur Montage an Standfuß D36mm mit Lautsprecherwinkel



Montaggio orizzontale e vertical tramite staffa
Horizontal or vertical mounting with bracket
Horizontale oder vertikale Montage mit Halterung
Montage horizontal ou vertical avec support

Codice accessori
 Accessories code
 Accessoires Code
 Zubehör Code

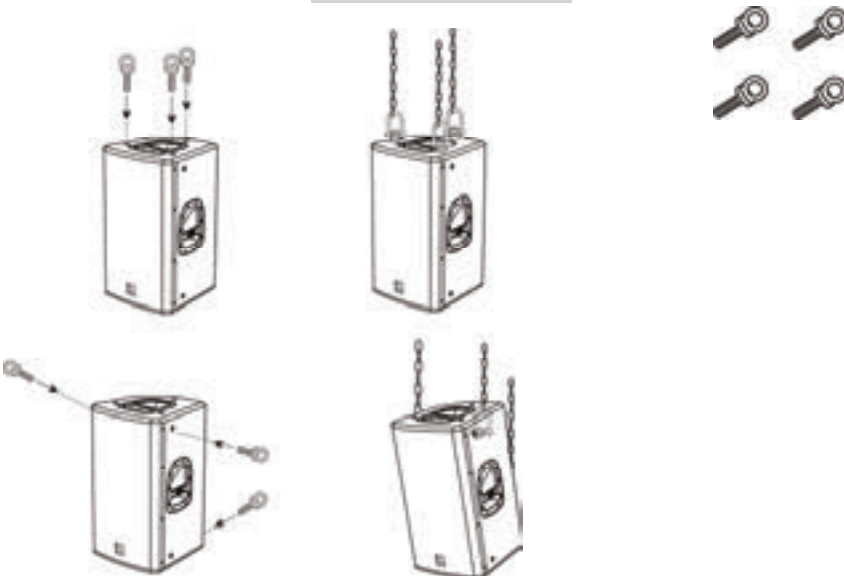
WB-L8H	LVX 8
WB-L10H	LVX 10
WB-L12H	LVX 12
WB-L15H	LVX 15



Montaggio orizzontale e verticale tramite golfare
Horizontal or vertical mounting with eyebolts
Montage horizontal ou vertical avec support
Horizontale oder vertikale Montage mit ringschrauben aufhängen

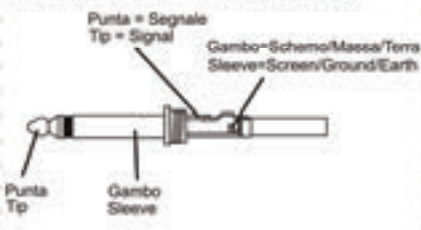
Codice accessori
 Accessories code
 Accessoires Code
 Zubehör Code

TE M8	LVX 8
	LVX 10
TE M10	LVX 12
	LVX 15

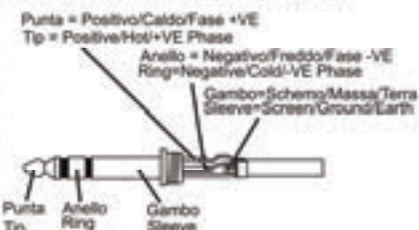


**COLLEGAMENTI
CONNECTIONS
ANSCHLÜSSE
BRANCHEMENTS**

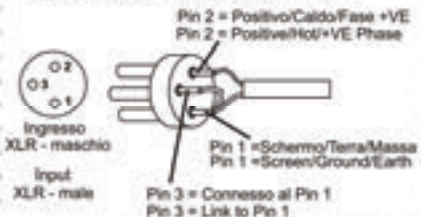
**Funzionamento sbilanciato con
connettore jack 1/4" (6,3mm)
Unbalanced use of stereo 1/4" jack plug**



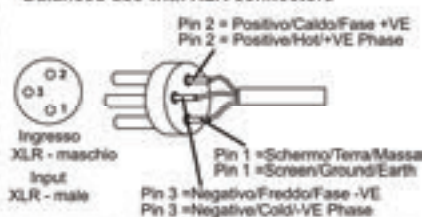
**Funzionamento bilanciato con
connettore jack 1/4" (6,3mm)
Balanced use of stereo 1/4" jack plug**

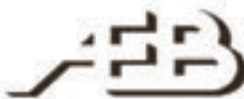


**Funzionamento sbilanciato con
connettore XLR
Unbalanced use with XLR connectors**



**Funzionamento bilanciato con
connettore XLR
Balanced use with XLR connectors**





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