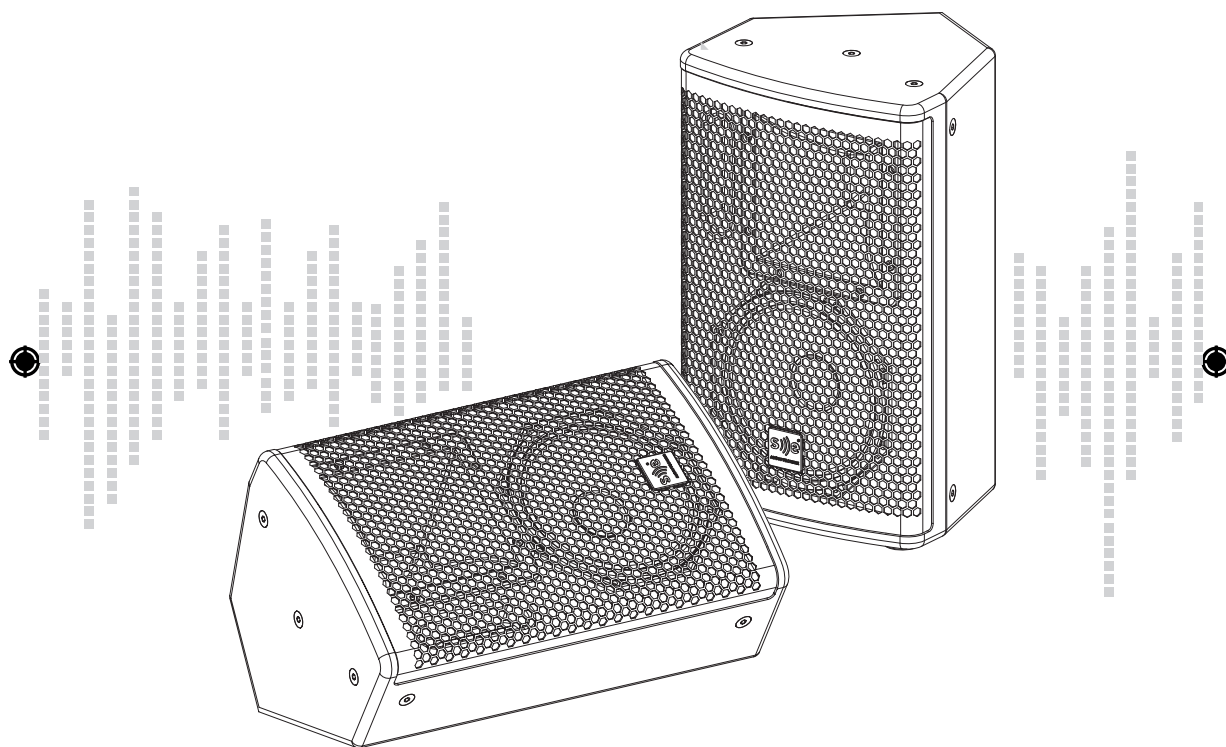


USER'S MANUAL



V-LINE

2-WAY **MULTIFUNCTION** SPEAKER

V-8(A)/V-10(A)/V-12(A)/V-15(A)



Thank you for choosing V-LINE

We have designed this product to operate reliably over many years. Therefore **V-LINE** guarantees for high quality products with its name and many years of experience as a producer.

Please, take a few moments to read these instructions carefully, as we want you to enjoy your new **V-LINE** products quickly and to the fullest.

For information about **V-LINE** check out our website www.se-audiotechnik.com

Introduction

Brilliant sound at high sound pressure levels, high quality components, a reliable service, and all this to a reasonable price – these are the pretensions of the **V-LINE** series.

The series consist of 8"(A), 10"(A), 12"(A) and 15(A)" multi – purpose speakers, as well as of the **V-L4** and **V-L8**, **V-L12** Line-Array systems. Subwoofers from 1x15", 2x15", 1x18" and 2x18" complement the product line.

Concept

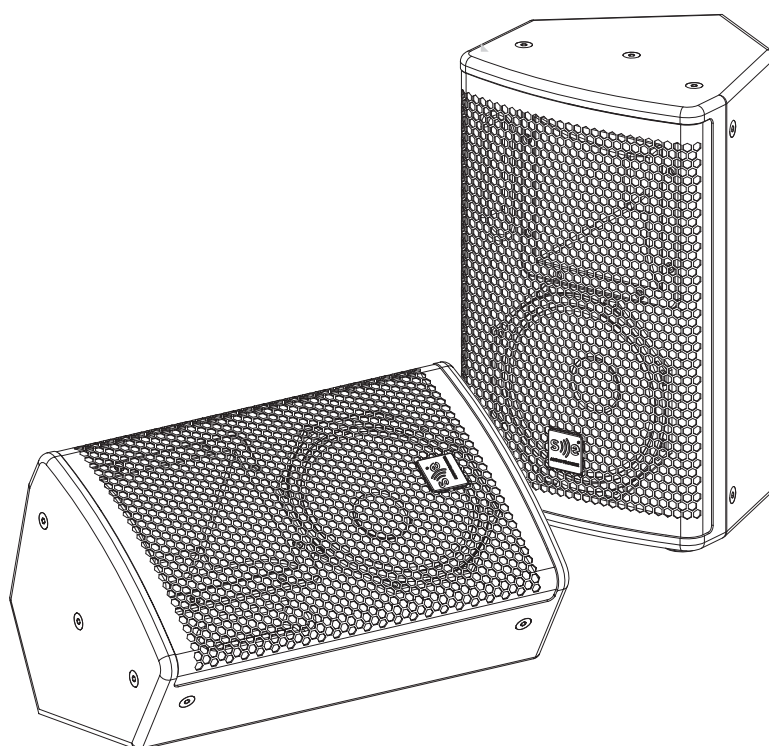
Specially manufactured high quality components are exclusively used in the **V-LINE** series. The whole range was developed by experienced audio-developers and FOH engineers in the USA and Germany. The uniquely designed cabinets are all made of 15/18mm birch multiplex and coated with the Polyurethane coating – which helps stand up to the tough daily demands of touring and live applications. The fly ware and stacking components are easy to use and meet the highest demands in terms of safety.

Thanks to the high manufacturing quality, which we constantly control in all areas, from the individual components through to the finished product, all **V-LINE** customers are given 3 Years guarantee.

V-LINE

2-WAY **MULTIFUNCTION** SPEAKER

V-8(A)/V-10(A)/V-12(A)/V-15(A)





PREVENTIVE MEASURES:

1. Please read the attached safety instructions as well as the following instructions carefully.
2. Please keep all the instructions.
3. Please use the device only as intended.
4. Please respect the valid waste management rules. Please deliver the packaging divided into plastic and paper/ cardboard to the recycling management.
5. Please refer all servicing to qualified personnel only, if the device is damaged, exposed to liquid/rain or if it does not operate normally.
6. Please, do not expose to any kind of heat such as ovens, radiators, or any other devices (incl. amplifiers). Please check for enough distance between amplifiers and walls, racks, etc. to prevent overheating.
7. After connection please check the wiring to prevent any kind of accident or damage. Please never use any kind of damaged cable and wiring.
8. Only use authorized and stable stands, brackets, shelves, tables etc.. for installations. Please check for adequate stability against collapse.



CAUTION:

To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified personnel.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk to persons.



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION! HIGH VOLUME!

You will operate this system for professional use. Therefore the commercial use of this equipment is liable to the rules and regulations of the Accident Prevention & Insurance Association of your industry sector. s)))e as a manufacturer is bound to inform you formally about the existence of eventual sanitary risks.

These speakers are able to induce high acoustic sound pressure levels. 85 db is by law the maximum audio pressure level which your ear can be exposed to during a work day. It was set according to the technical expertise of the occupational medicine as a basis for the noise rating level. Higher sound levels or longer exposition times could damage your ear. The time of exposition by higher sound pressure levels should be shortened in order to prevent from ear damages. Here are a few reliable warning signals which show that you have exposed yourself for a too long period to excessive sound pressure levels:

- You hear bell- or whistling sounds!
- You have the impression that you can't hear high tones anymore!



INSTALLATION & OPERATING:

TRANSPORT & INSTALLATION

During the transport of the V-8(A)/10(A)/12(A)/15(A) speaker please take care of a sufficient protection against drop over, drop down etc. (e. g. protection with fastening belts during transport). Wearing of working clothes during carrying of the speakers is recommended (especially work gloves, work boots). Because of the weight the speakers should not be carried overhead.

Please do not install the items directly beside an edge like a stage border. If a stand is used please make sure to use only undamaged stands (Ø 36 mm) fitting correctly into the support. The speakers V-8(A)/10(A)/12(A)/15(A) should be placed only on a stable and licensed speaker stand (speaker stand SPS56B / SPS56S recommended). Using the adjustable top hat SM707 (patent pending) the satellites can be adjusted in +/- 4° steps to maximum 12° (12(A)/15(A)).

FLYING INSTALLATION

V-8(A)/10(A)/12(A)/15(A) are equipped with M8 threads for M8 eyebolts to suspend the V-8(A)/10(A)/12(A)/15(A) using carabiner with chains / wire cables.

Please use only certified and intact flyware (cargo studs, eyebolts, carabiner, chains, wire cables etc.).

Please mind the corresponding requirements for a flying installation above people listed in the BGVC1 or other valid regulations (depends on country)!

OPERATING

Please take care for an accurate wiring of the speaker. Use only undamaged cables of an adequate size (min. 2 x 1.5 mm² for speaker connection). Please check the wiring for any kind of trip hazard etc. to prevent any kind of accident or damage. Tip: Use Gaffa Tape to fix your cables.

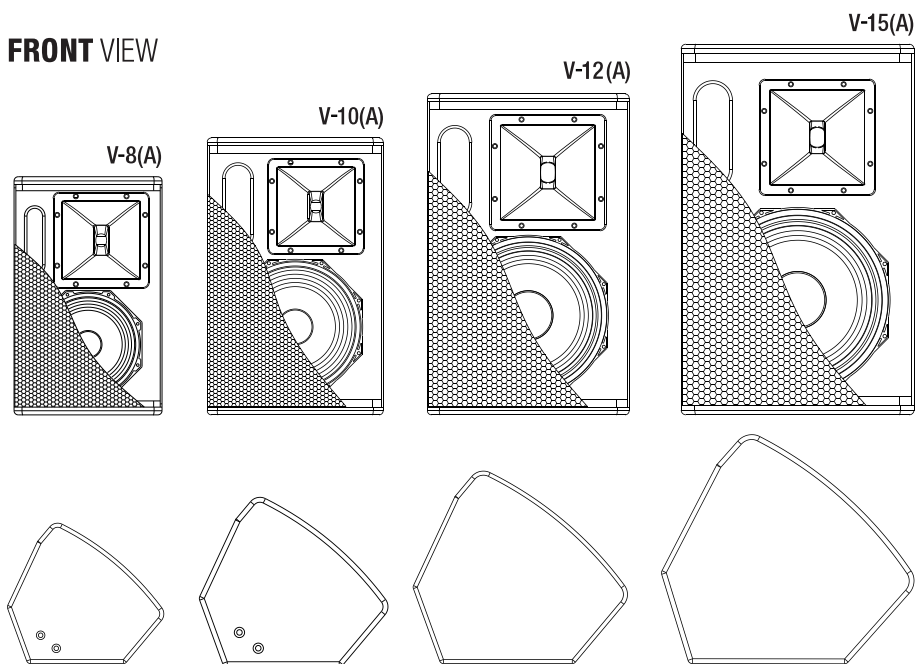
The terminal of the V-8/10/12/15 is equipped with an 4-polar Speakon input as well as a 4-polar Speakon output seat. The connections 1+/- are used by the V-8/10/12/15. All 4 poles of the input seat are connected directly to the 4 poles of the output seat enabling the connection of further speakers even if the connections 2+/- are used. The connection of further speakers decreases the total impedance. Please take care that the total impedance does not fall below the required impedance of the amplifier.

STAGE MONITOR OPERATION

If the V-8(A)/10(A)/12(A)/15(A) speakers should be used as a stage monitor they must be installed horizontally as shown in the drawing on page 6. When necessary the horn tweeter can be rotated by 90° to get a better horizontal dispersion of high frequencies. To do that please remove the front grille first. Then remove the 8 screws located in the mounting flange of the horn. Afterwards the horn can be rotated by 90° (please do never turn the horn by more than 90°). If the horn tweeter should be turned back for vertically use of the speaker, it is strictly recommend, that the horn is rotated in the opposite direction. If the horn tweeter is rotated in the same direction for several times, wiring or terminals of the horn tweeter can be damaged.

VIEWS / POSITIONS:

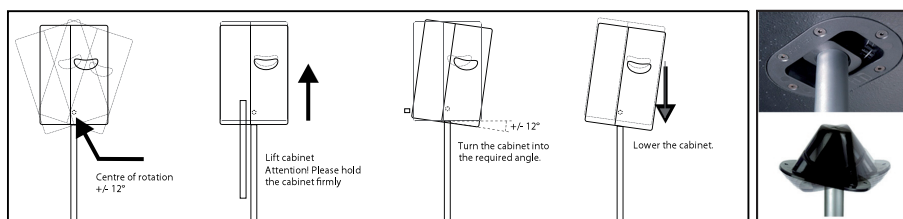
FRONT VIEW



SIDE VIEW MONITOR POSITIONED

Application notice regarding the SM707 adjustable speaker stand receptacle (12(A)/15(A))

The built-in, patented SM707 adjustable speaker top hat offers possibilities for adjustment $\pm 12^\circ$ in 4° increments. To do this, simply lift the cabinet slightly on the speaker stand, causing the set angle to loosen, and lower the cabinet on the stand again to cause it to engage at the desired angle (see drawing).





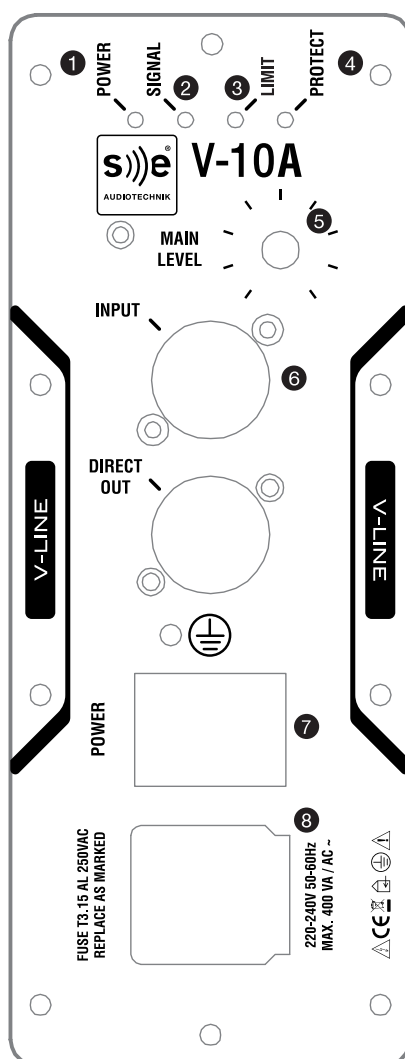
SPECIFICATIONS:

	V-8	V-10	V-12	V-15
Type:	Bassreflex	Bassreflex	Bassreflex	Bassreflex
Woofers :	8" Neodym	10" Neodym	12" Neodym	15" Neodym
Tweeter:	1" CD-Horn	1" CD-Horn	1.4" CD-Horn	1.4" CD-Horn
Tweeter driver:	1.35"	1.35"	1.75"	1.75" BMS
Size (WxHxD)mm:	286x460x266	340x535x322	390x620x368	450x716x448
Weight kg:	12	16,3	22,5	31,5
Impedance ohms:	8	8	8	8
Power handling continuous / peak W:	250 / 500	350 / 700	500 / 1000	650 / 1300
SPL 1 W / m:	95	97	99	100
max SPL dB:	119	122	126	130
Frequency range Hz:	70 - 19000	65 - 19000	55 - 19000	50 - 20000
Coverage pattern (°):	70 x 55	70 x 55	70 x 55	70 x 55
In: Out:	Neutrik NL -4, 4-polig			
Features:	ergonomic milled handles V-8/10: Alu stand support (Ø 36 mm) V-12/15: Stand support adjustable vertically (SM707) M8 rigging points			

Specifications subject to change without prior notice.



REAR PANEL ACTIVE 8" & 10":





REAR PANEL ACTIVE 8" & 10":

1 POWER LED

The power LED lights up green when the device is turned on.

2 SIGNAL

This LED lights up when the unit detects an incoming signal

3 LIMIT

This LED indicates the Class D power amps' peak limiter has engaged to attenuate a maximum output voltage excursion, or put simply, a clipping signal.

4 PROTECT

This LED lights up in case of a over-heating of the systems. The amplification module is then automatically shut off. If this problem should occur often please contact your dealer or the servicing department.

5 MAIN LEVEL

This is the volume control knob. You can adjust the overall volume of the amplifier-unit.

6 LINE INPUT

Balanced XLR line input (mono).

7 POWER SWITCH

Mains switch. Before switching on the power to the unit, all level controls should be set to minimum. Otherwise, microphones already connected to the system may cause undesired feedback.

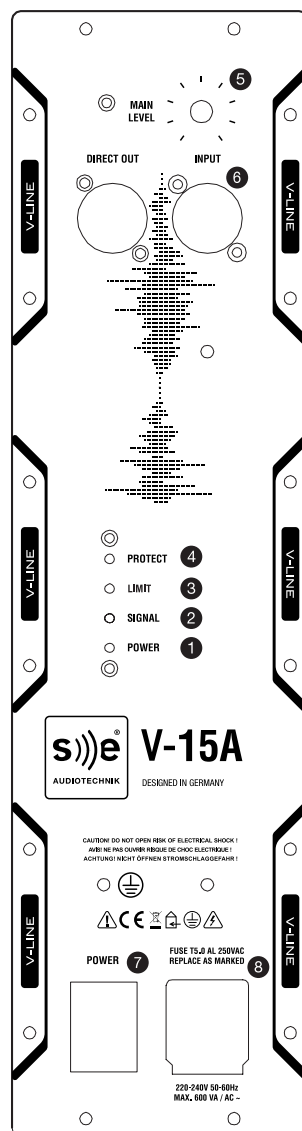
8 VOLEX POWER PLUG

Special lockable mains socket (Volex Power Plug). Connect an IEC plug to this socket. The Fuse can be found in the little compartment directly below this socket. To change fuses, pull out the little drawer. You will find two fuses, one is in use and the other spare.

**IMPORTANT NOTE: Only use suitable fuses.
Never bridge the fuse contacts.**



REAR PANEL ACTIVE 12" & 15":





REAR PANEL ACTIVE 12" & 15":

1 POWER LED

The power LED lights up green when the device is turned on.

2 SIGNAL

This LED lights up when the unit detects an incoming signal

3 LIMIT

This LED indicates the Class D power amps' peak limiter has engaged to attenuate a maximum output voltage excursion, or put simply, a clipping signal.

4 PROTECT

This LED lights up in case of a over-heating of the systems. The amplification module is then automatically shut off. If this problem should occur often please contact your dealer or the servicing department.

5 MAIN LEVEL

This is the volume control knob. You can adjust the overall volume of the amplifier-unit.

6 LINE INPUT

Balanced XLR line input (mono).

7 POWER SWITCH

Mains switch. Before switching on the power to the unit, all level controls should be set to minimum. Otherwise, microphones already connected to the system may cause undesired feedback.

8 VOLEX POWER PLUG

Special lockable mains socket (Volex Power Plug). Connect an IEC plug to this socket. The Fuse can be found in the little compartment directly below this socket. To change fuses, pull out the little drawer. You will find two fuses, one is in use and the other spare.

**IMPORTANT NOTE: Only use suitable fuses.
Never bridge the fuse contacts.**

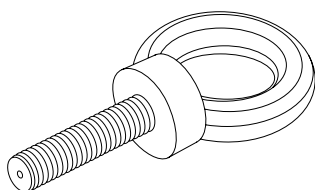


SPECIFICATIONS ACTIVE:

	V-8A	V-10A	V-12A	V-15A
Type:	Bassreflex	Bassreflex	Bassreflex	Bassreflex
Frequency range (Hz):	70 - 19000	65 - 19000	55 - 19000	50 - 19000
Power output RMS (W):	250 (1% THD)	250 (1% THD)	500 (1% THD)	500 (1% THD)
SPL (1 W / 1 m) (dB):	95	97	99	100
Woofers:	8" Neodymium 2,5" voice coil	10" Neodymium 2,5" voice coil	12" Neodymium 3" voice coil	15" Neodymium 4" voice coil
Horn:	1" CD-Horn	1" CD-Horn	1" CD-Horn	1.4" CD-Horn
Compression driver:	1.35"	1.35"	1.75"	1.75" BMS
Dispersion (°):	70 x 55	70 x 55	70 x 55	70 x 55
Connectors:	Input: XLR / 6,3 mm jack (combo) Output: XLR	Input: XLR / 6,3 mm jack (combo) Output: XLR	Input: XLR / 6,3 mm jack (combo) Output: XLR	Input: XLR / 6,3 mm jack (combo) Output: XLR
Protection:	Tweeter Protection, Limiter	Tweeter Protection, Limiter	Tweeter Protection, Limiter	Tweeter Protection, Limiter
Paint / Cabinet material:	Polyurethane / 15 mm Birch ply	Polyurethane / 15 mm Birch ply	Polyurethane / 15 mm Birch ply	Polyurethane / 18 mm Birch ply
Size WxHxD (mm):	286x460x266	340x535x322	390x620x368	450x716x448
Weight (kg):	13	17,3	23,7	32,7
Features:	ergonomic milled handles V-8/V-10: Alu stand support (Ø 36 mm) V-12/15: Stand support adjustable vertically (SM707) M8 rigging points			

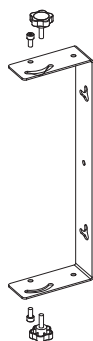
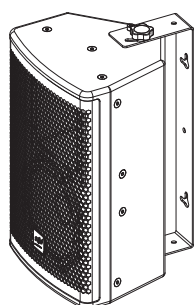
Specifications subject to change without prior notice.

ACCESSORIES FOR TRANSPORT & INSTALLATION:



M8 SCREW EYE

Suitable for V-8 / 10 / 12 / 15.
Article No. EB830



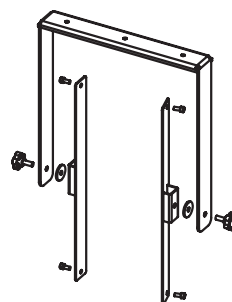
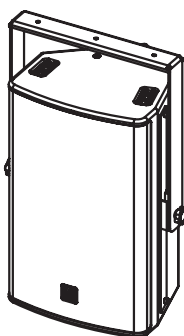
VERTICAL BRACKETS

(e.g. Wall Mounting)

Mounting brackets suitable for professional installations.
Available for V-8 and V-10.
Article No. V-8WB / V-10WB

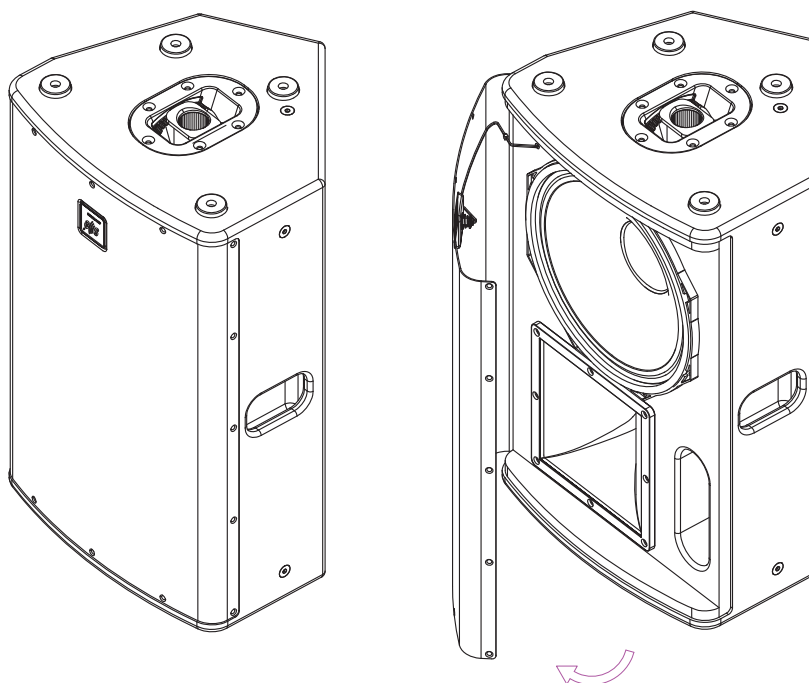
HORIZONTAL SWING BRACKETS

Mounting brackets suitable for professional installations. Available for V-8 / 10 / 12 / 15.
Article No. V-8SB / V-10SB / V-12SB / V-15SB





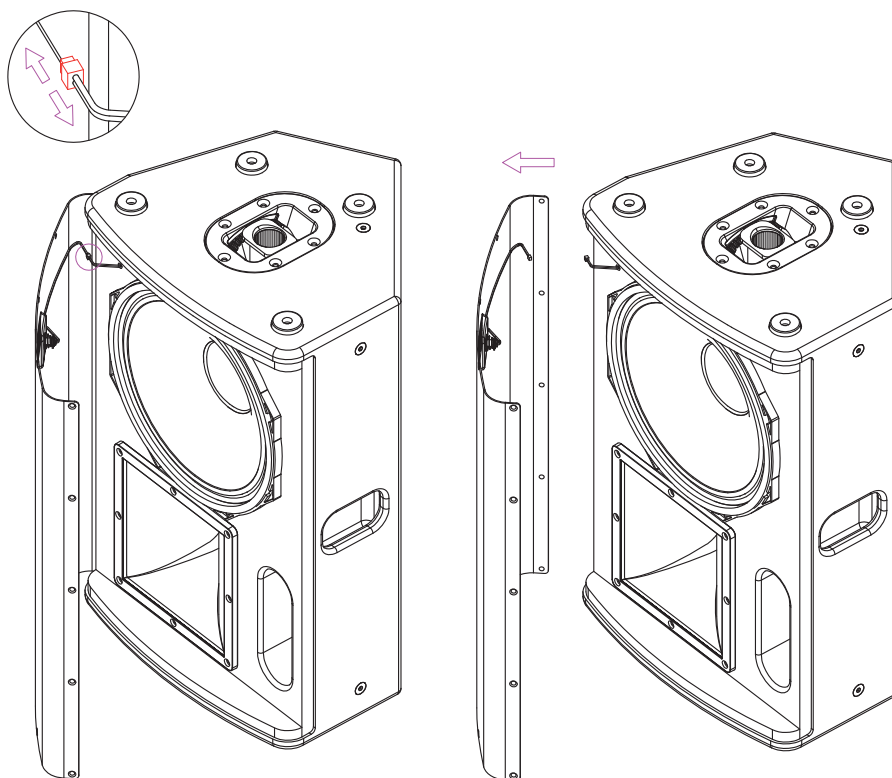
INTERRUPT THE **ILLUMINATION**:



How to interrupt the illumination of the logo of active V-LINE speakers

- 1.) Remove the mounting screw of the front grille.
- 2.) Pull out the front grille as far as the logo cable allows you to
- 3.) Unplug the connection leading to the logo
- 4.) Fix both connectors (tape, foam) to avoid any noise due to vibration of the connector on the front panel, or on the housing.

INTERRUPT THE **ILLUMINATION**:





ACCESSORIES FOR TRANSPORT & INSTALLATION:



SPEAKER STAND
SPS56B / SPS56S /
SPS20B



PROTECTION COVER
V-8PC,V-10PC,
V-12PC,V-15PC



WALL MOUNTING SUPPORT
SMBS5



MANUFACTURER'S DECLARATIONS:

LIMITED WARRANTY

This Limited Warranty applies to the **Sennheiser** branded products.

The statutory warranty rights towards the seller are not affected by this guarantee. In fact, it justifies, additional independent warranty claims towards **Sennheiser**

Sennheiser warrants that the **Sennheiser** product you have purchased from **Sennheiser** or from an **Sennheiser** authorized reseller is free from defects in materials or workmanship under normal use for a period of 2 years from the date of purchase.

The Limited Warranty Period starts on the date of purchase. In order to receive warranty services you are required to provide proof of the purchase date. Your dated sales or delivery receipt, showing the date of purchase, is your proof of the purchase date. Should products of the brands named above be in need of repair within the limited warranty period, you are entitled to warranty services according to the terms and conditions stated in this document.

This Limited Warranty extends only to the original purchaser of this **Sennheiser** branded product and is not transferable to anyone, who obtains ownership of the **Sennheiser** branded product from the original purchaser. During the Limited Warranty Period, **Sennheiser** will repair or replace the defective component parts or the product. All component parts or hardware products removed under this Limited Warranty become the property of **Sennheiser**

In the unlikely event that your **Sennheiser** product has a recurring failure, **Sennheiser**, at its discretion, may elect to provide you with a replacement unit of **Sennheiser**'s choice that is at least equivalent to your **Sennheiser** branded product in hardware performance.

Sennheiser does not warrant that the operation of this product will be uninterrupted or error-free. **Sennheiser** is not responsible for damage that occurs as a result of your failure to follow the instructions included with the **Sennheiser** branded product.

This Limited Warranty does not apply,

- to wear parts (e.g. accumulator)
- to any product from which the serial number has been removed or that has been damaged or rendered defective as the result of an accident
- in case of, misuse, abuse, or other external causes
- by operation outside the usage parameters stated in the user's documentation shipped with the product
- by use of spare parts not manufactured or sold by **Sennheiser**
- by modification or service by anyone other than **Sennheiser**

These terms and conditions constitute the complete and exclusive warranty agreement between you and **Sennheiser** regarding the **Sennheiser** branded product you have purchased.



LIMITATION OF LIABILITY

If your **s)))e** branded hardware product fails to work as warranted above, your sole and exclusive remedy shall be repair or replacement. **s)))e**'s maximum liability under this limited warranty is expressly limited to the lesser of the price you have paid for the product or the cost of repair or replacement of any hardware components that malfunction in conditions of normal use.

s)))e is not liable for any damages caused by the product or the failure of the product, including any lost profits or savings or special, incidental, or consequential damages. **s)))e** is not liable for any claim made by a third party or made by you for a third party.

This limitation of liability applies whether damages are sought, or claims are made, under this Limited Warranty or as a tort claim (including negligence and strict product liability), a contract claim, or any other claim. This limitation of liability cannot be waived or amended by any person. This limitation of liability will be effective even if you have advised **s)))e** of an authorized representative of **s)))e** of the possibility of any such damages. This limitation of liability however, will not apply to claims for personal injury.

This Limited Warranty gives you specific legal rights. You may also have other rights that may vary from state to state or from country to country. You are advised to consult applicable state or country laws for a full determination of your rights.

REQUESTING WARRANTY-SERVICE

To request warranty service for the product, contact **s)))e** or the **s)))e** authorized reseller from which you purchased the product.

EG-DECLARATION OF CONFIRMITY

These products meet the essential requirements as well as the further standards of the EU Directives 199/5/EU, 89/336/EU.

CORRECT DISPOSAL OF THIS PRODUCT (ELECTRICAL WASTE)

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal



WEEE-DECLARATION

Your **V-LINE** product was developed and manufactured with high quality materials and components which can be recycled and/or reused. This symbol indicates that electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime.

Please dispose of this product by bringing it to your local collection point or recycling centre for such equipment. This will help to protect the environment in which we all live.

BATTERIES AND ACCUMULATORS

The supplied batteries or rechargeable batteries can be recycled. Please dispose of them as special waste or return them to your specialist dealer. In order to protect the environment, only dispose exhausted batteries.

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www.se-audiotechnik.com



Designed in Germany 2013/ 01

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