KLING & FREITAG

SOUND SYSTEMS

EN | VERSION 4.2 | 06/16/2021

USER'S MANUAL

K&F VIDA L and VIDA C

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1 Introduction

1.1 Icons Used

WARNING This icon indicates a risk of injury or death. Not following these instructions may result in serious health problems including potentially fatal injuries.

CAUTION This icon indicates a possibly dangerous situation. Not following these instructions may cause minor injuries or damage.

NOTICE This icon marks instructions for proper use of the described products. Not following these instructions may cause malfunctions or damage.

TIP This icon marks information provided for simplified use of the described products.

1.2 About this user's manual

EN | Translation of the original instructions

All Kling & Freitag manuals are originally authored in German.

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All specifications regarding the features of the described products and applicable safety guidelines provided in this manual are based on information available at the time of publishing.

We assume no responsibility for technical specifications, dimensions, weights, and properties.

All information in this manual is subject to change without notice.

To ensure safe operation, all persons using the speaker system must have access to these user's manual and all other relevant material during installation. The speaker system may neither be set up nor used until these user's manual has been read, understood and kept readily available in site.

Kling & Freitag spare manuals are separately available for order or can be downloaded from our website: www.kling-freitag.de

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2 Product Description

2.1 Intended Use

Be sure to use the VIDA L speaker system for stationary indoors installations only.

For commercial use as specified in this document only!

WARNING

Risks imposed by falling or overturning parts

Be sure to install, suspend, fasten, and use Kling &<###Space: 1##>Freitag speakers only using the designated fixtures as specified in this document.

NOTICE

Possible malfunctions

Never operate the speaker in environments where the temperature exceeds 35 °C / 95 °F.

Never operate the speaker in places exceeding an altitude of 2,000 meters / 6,000 ft.

Make sure that the humidity is between 10% and 90%.

This product is not designed for use in corrosive environments.

Potential interference with household appliances

This device is not designed for home use.

Any use not described in this User's Guide is not an intended use.

2.2 System requirements

- Mounting hardware
- Computer running Windows 8, 8.1, or 10
- VIDA App

  The VIDA App required for setting up the speaker system is freely available at the Windows Store.

  For this purpose, visit the **Microsoft App Store** and search for **VIDA App**.

  For more information, refer to the VIDA App User's Manual, which is available for download at our website.

  www.kling-freitag.de
- Audio source connected to Analog, AES 3, or Dante.

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2.3 Items Included

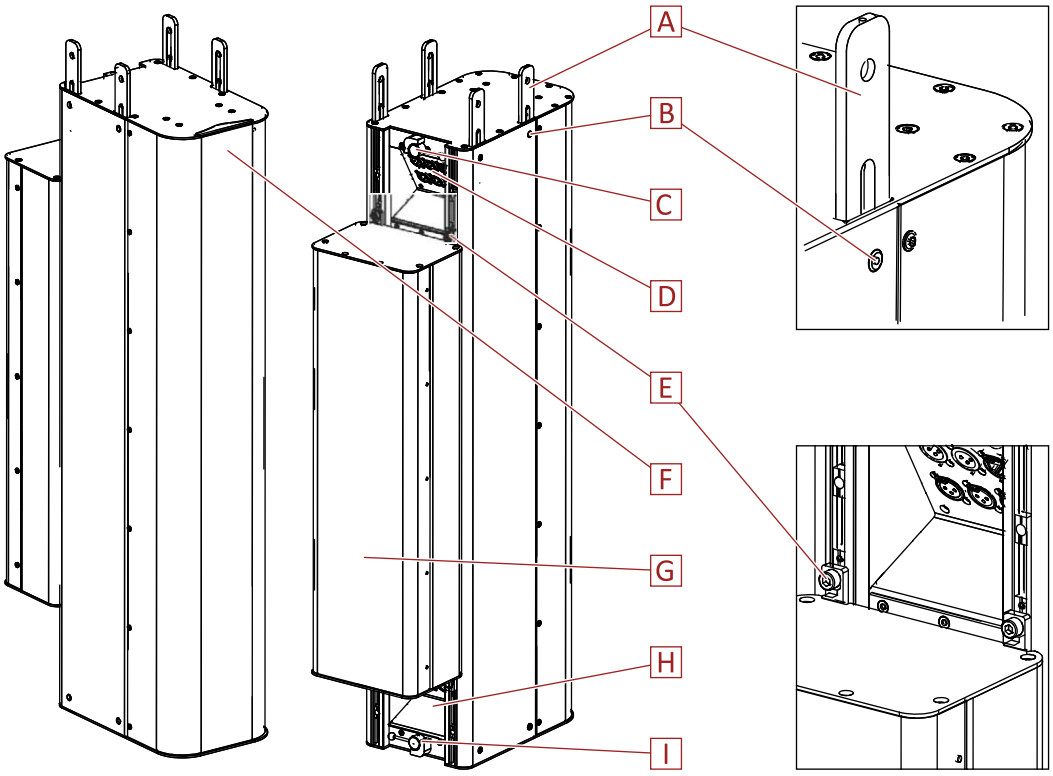
2.3.1 Items Included VIDA L

- (1x) loudspeaker VIDA L
- (1x) VIDA L hardware reset dongle
- (1x) Neutrik PowerCon TRUE1 power cord (with Type C safety plug) or
  (1x) Neutrik PowerCon TRUE1 power cord (no connector, for 115 V operation)
  Or Neutrik PowerCon TRUE1 power cord (1 item, no connector, for 115 V operation)
- (2x) Connector WR-TBL Series 3611, 6-pin for connection to GPIO
- (1x) Connector WR-TBL series 3611, 3-pin for connection to GPIs **COM, MUTE und PRIO**.
- (1x) User's manual

2.3.2 Items Included VIDA C

- (1x) VIDA C
- (1x) Allen wrench (6 mm)
- (1x) CP-4 - Speaker-patch-cord, 4x2.5 mm², black, 0.5 m, K&F Art.-No. 35892
- (1x) User's manual

2.4 Overview of VIDA L Parts



[A] 4 x Connecting Adapters (extended)

[B] 8 x Connecting Pins (4x on the top, 4x on the bottom of the speaker)

[C] Upper Lever

[D] Upper Terminal

[E] 4 x fixing screws for VIDA C

[F] Status indicator

[G] VIDA C (optional)

[H] Lower Terminal

[I] Bottom Lever

2.4.1 Front-panel indicator

Each VIDA L features an LED indicator located behind the front grille. The indicator color shows the following statuses:

- Power-up (blue): The speaker is being powered up and will be ready for operation shortly.
- Beam error (red-lit): The speaker has been powered up successfully and is ready for operation; however, the sound-ray setup needs to be checked.
- green - Identification via VIDA App: For this speaker, 'LED sign' has been activated via the VIDA App for identification.
- Error (flashing red and green): Fatal file error. Perform a firmware update. See chapter »Updates«, page 50. If the flashing is not stopped by a firmware update, contact the service department.

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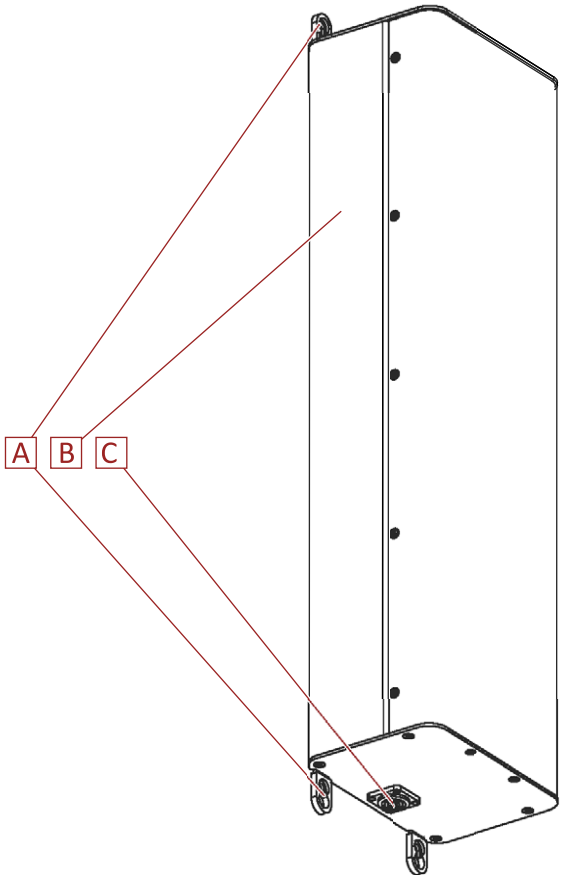
2.5 Overview of VIDA C Parts

[A] (4x) connecting link to mount on VIDA C

[B] Loudspeaker VIDA C

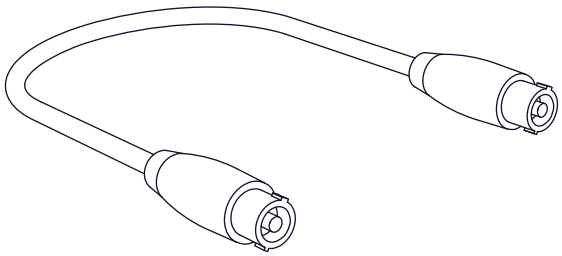
[C] Speakon connector



2.6 Accessories

Speaker Patch Cable NLT-425, 0.5 m

50 cm patch cable for connections between VIDA L and VIDA C elements, high-grade halogen-free cable, 4 conductors with 2.5 mm² cross section each, water proof metal connectors Neutrik NLT4FX



RJ45-Patchkabel, approx. 30 cm

for interconnecting two VIDA L units

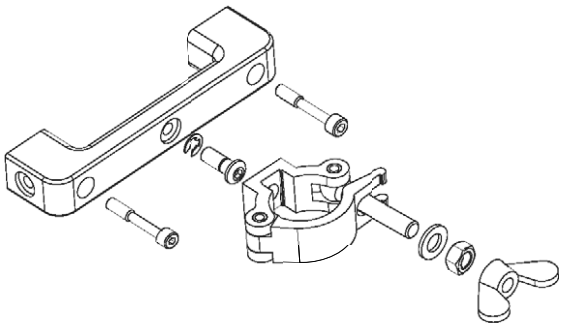
Mains power cable (EU, Schuko) 3 m, Neutrik powerCon True1™

lockable device connector, handles up to 16A, supports insertion / removal on load and voltage

without illustration

VIDA L Mounting Bracket / Handhold

for mounting to the VIDA L rear mounting rail. This ergonomic handhold allows for carrying the speaker or mount it to a truss using the supplied clips. Items included: 2 handholds, 2 pipe clips, custom screws

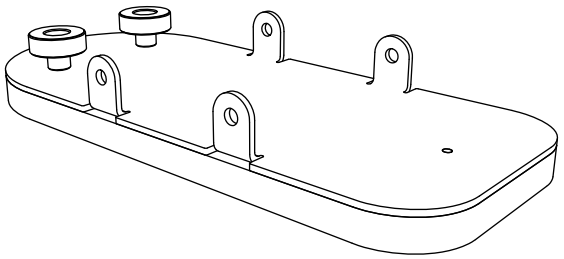


VIDA L Wall Bracket (for permanent installation)

For vertical mounting to suitable walls (without VIDA C only)

VIDA L Sub-Adapter

Mounting plate for secure placement of a VIDA L or VIDA L onto a K&F subwoofer equipped with VIDA C. Horizontally rotatable.

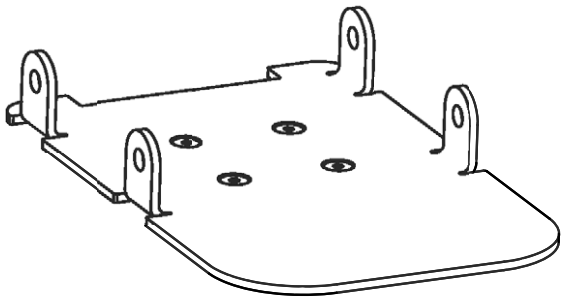


VIDA L Reset-Dongle

restoring the factory settings (included)

VIDA L Adapter Plate

for mounting VIDA L speakers to a H.O.F. designstand. Alutec speaker stands



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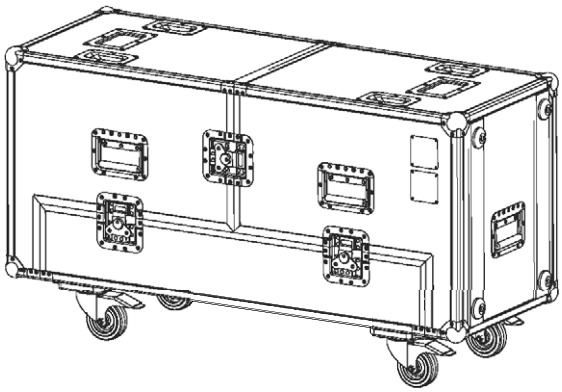
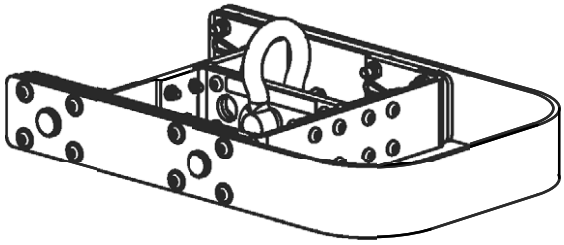
K&F VIDA L Transportation Case

for safe and secure transport of a VIDA L unit including VIDA C and other accessories. **Available on request.**



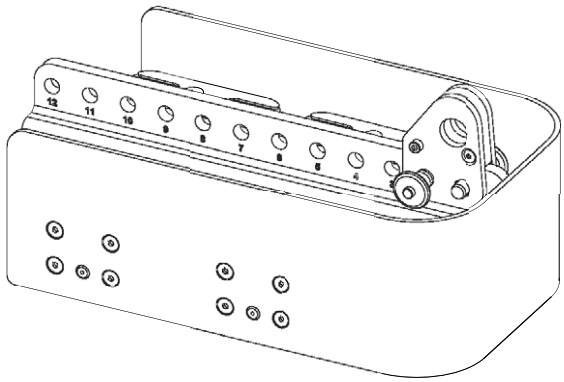
VIDA L Flying Bracket

Flying bracket for up to four VIDA L or four VIDA L plus VIDA C
0° angulation (fixed)



VIDA L Flying Frame

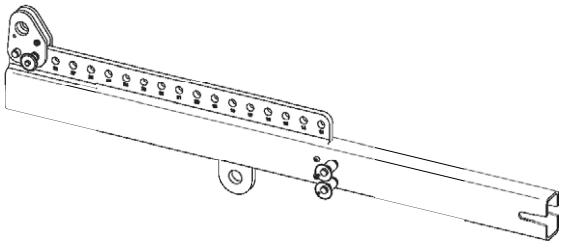
Flying frame for up to eight VIDA L or eight VIDA L plus VIDA C



2.6.1 Additional accessories for the VIDA L flying frame

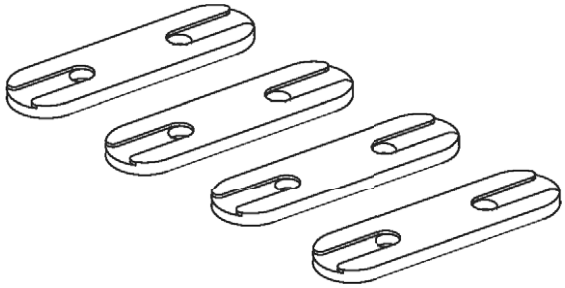
VIDA L Flying Frame Extension

For enlarging the front capacity in combination with a VIDA L flying frame.



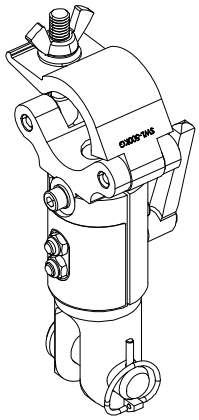
VIDA L Connector Set (set of 4)

For attaching a VIDA L flying frame under a VIDA L speaker for two-strand rigging



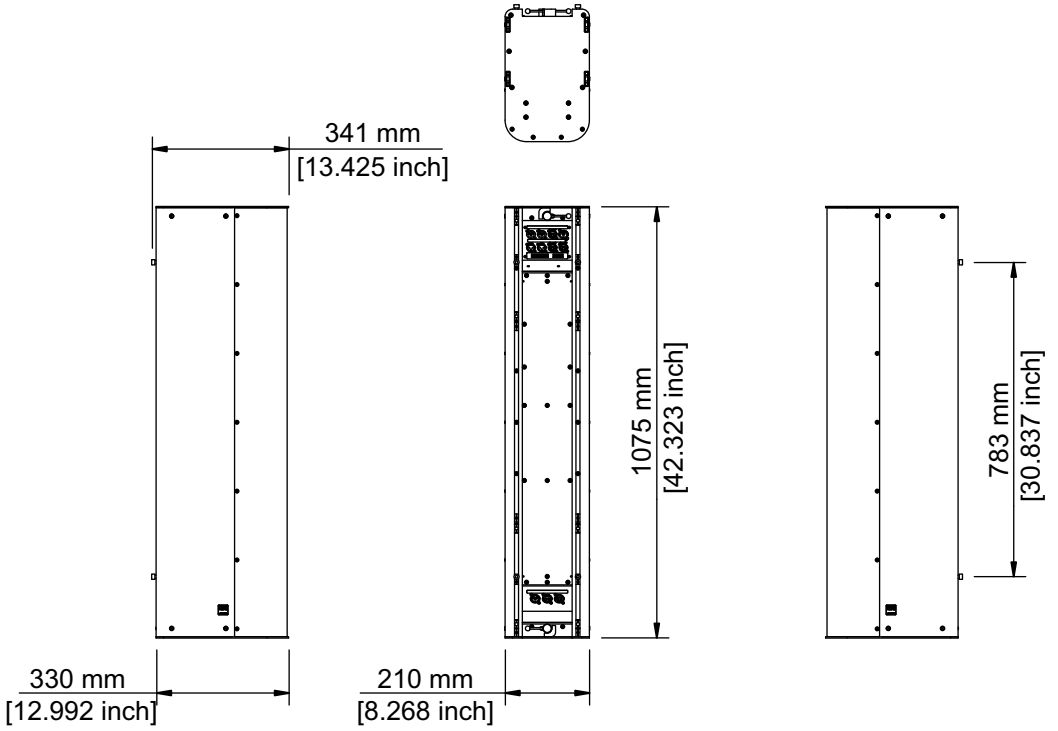
K&F Rotation Clamp 450 with 50 mm half coupler (HC823) or 60 mm half coupler (HC828),

Load max.

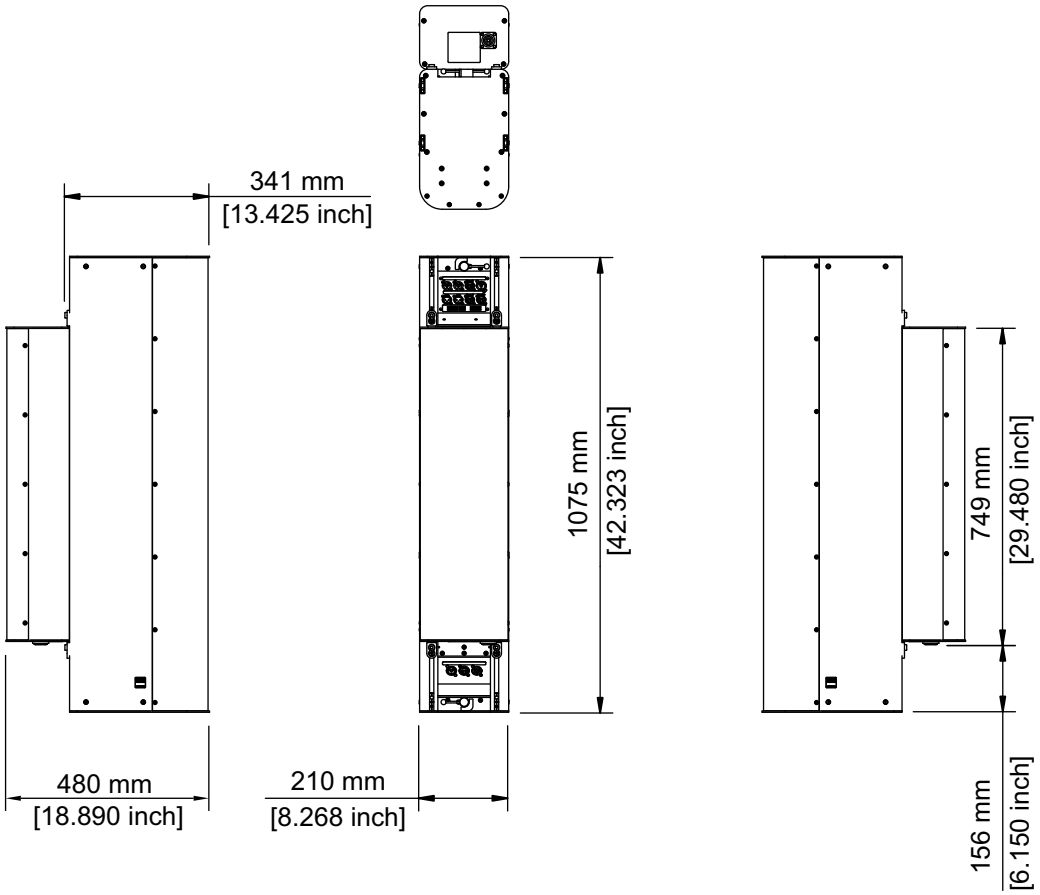


2.7 Dimensions

2.7.1 Dimensions VIDA L



2.7.2 Dimensions VIDA L with VIDA C



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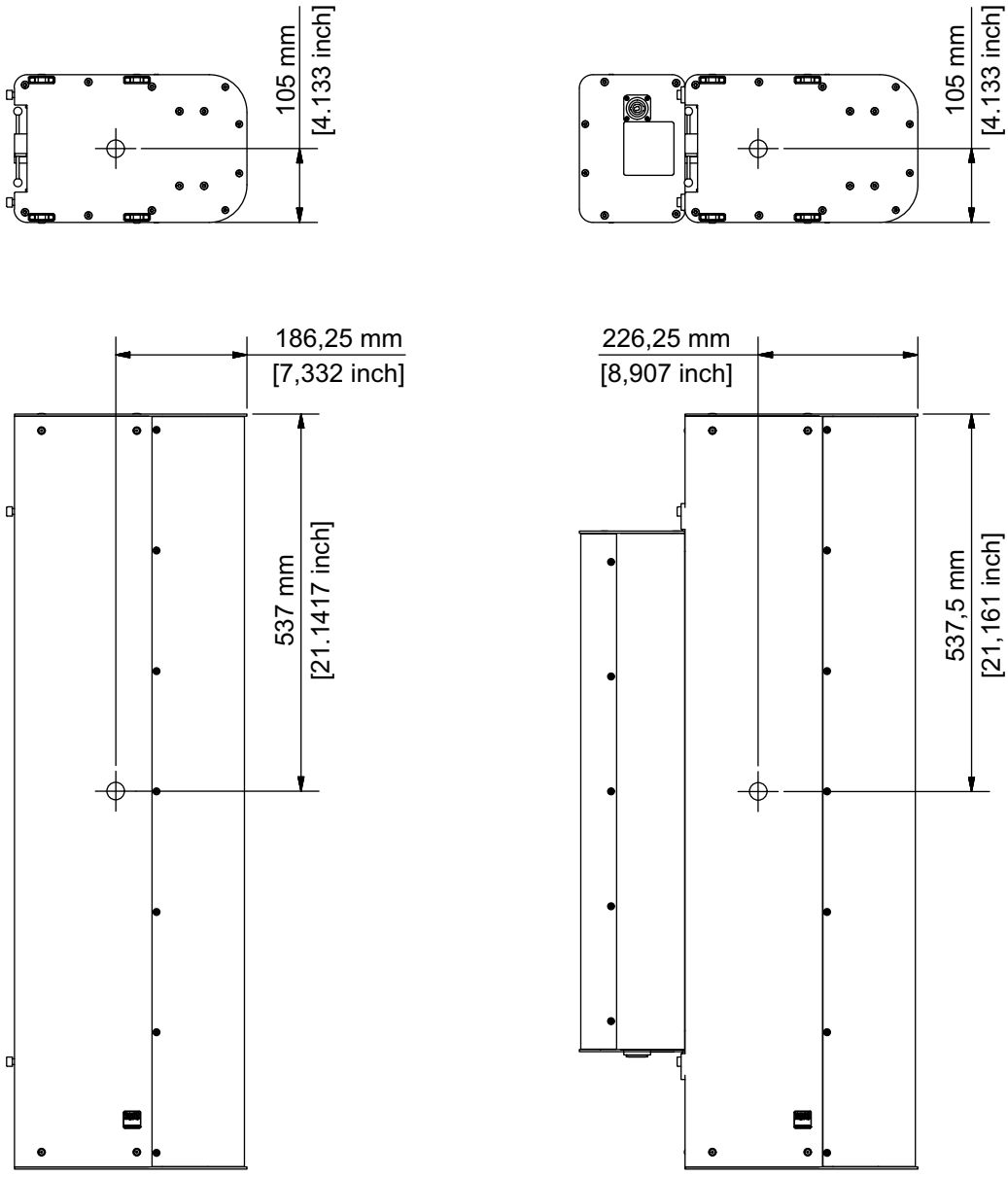
2.7.3 Mass Center



2.8 Technical Specifications

2.8.1 Technical Specifications VIDA L

Concept	High-performance line-array speaker with beam steering, 3-way coaxial design, built-in DSP and amplifier electronic components
Input signal	Each speaker is fed through a dedicated DSP/amp channel.
Frequency range @-10 dB	65 Hz – 22 kHz 'FR mode' 80 Hz – 22 kHz 'LCut mode'
Frequency range @±3 dB	77 Hz – 21 kHz 'FR mode' 115 Hz – 21 kHz 'LCut mode'
Horizontal coverage angle (nominal)	90° (in vertical operation)
Coverage angle vertical	Continuously adjustable spread angle up to 90°. ±45° steering angle
Max. SPL	135 dB
Components	32 x 1" dome tweeters 12 x 3,5" Mittelhochtontreiber 6 x 6,5 Tieftonchassis
AMP OUT power	2 x 400 W rms/4 ohm
Min. impedance AMP OUT	4 Ohm/Channel
AUX OUT	Nominal +6 dBu
Analog input	Fullscale at +18 dBu
Connectors	1 analogue input (XLR), 1 AES/EBU input (XLR), VIDA BUS input (Ethernet), 1 PowerCon True 1, 1 analog link (XLR), 1 AES/EBU link (XLR), 2 DANTE™ Remote (Primary/Secondary), 1 AUX OUT (XLR), 1 AMP OUT (speakON), 1 VIDA BUS output (Ethernet), GPIOs (Phoenix terminal block)
Wide-range power supply	100 V – 240 V AC, 50/60 Hz
Rated input power[a)]	520 watts (@ 1/8 rated output power)
Maximum power consumption	2350 watts
Idle power consumption:	100 watts

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Enclosure	Aluminum extrusion profile with built-in hidden flying mechanism, rear rail with slot nuts for mounting holders and VIDA C units (flying mechanism is locked / unlocked using a rear lever), highly robust black powder coating, downwards-tilted connector panel, impact-proof grille with black acoustic foam.
Mechanical tilt	Single-stranded and double-stranded suspension supported (with or without VIDA C)
Ambient temperature (max., during operation)	45 °C
Relative humidity	10% – 90%
Operating altitude (max.)	2,000 m (6,000 ft)
Contamination class	2
Power-surge category	2
Dimensions (H x W x D)	1.075 x 210 x 341 mm 1.075 x 210 x 480 mm (VIDA L mit VIDA C)
Weight	48,2 kg 61.8 kg (VIDA L with VIDA C)
Colors	RAL 9005 (black) special finish in RAL colours

a) @ 1/8 full-scale

2.9 Technical Specifications VIDA C

DSP/Amplifier	powered by VIDA L
Frequency range @±3 dB	65 Hz – 240 Hz
Frequency range @-10 dB	57 Hz – 350 Hz
Horizontal coverage angle	Cardioid, HyperCardioid, Omnidirectional (BassBoost)
System components	4 x 6,5" Woofer
Dimensions (H x W x D)	210 x 749 x 150 mm
Weight	13.6 kg
Color	RAL 9005 (black) special finish in RAL colours

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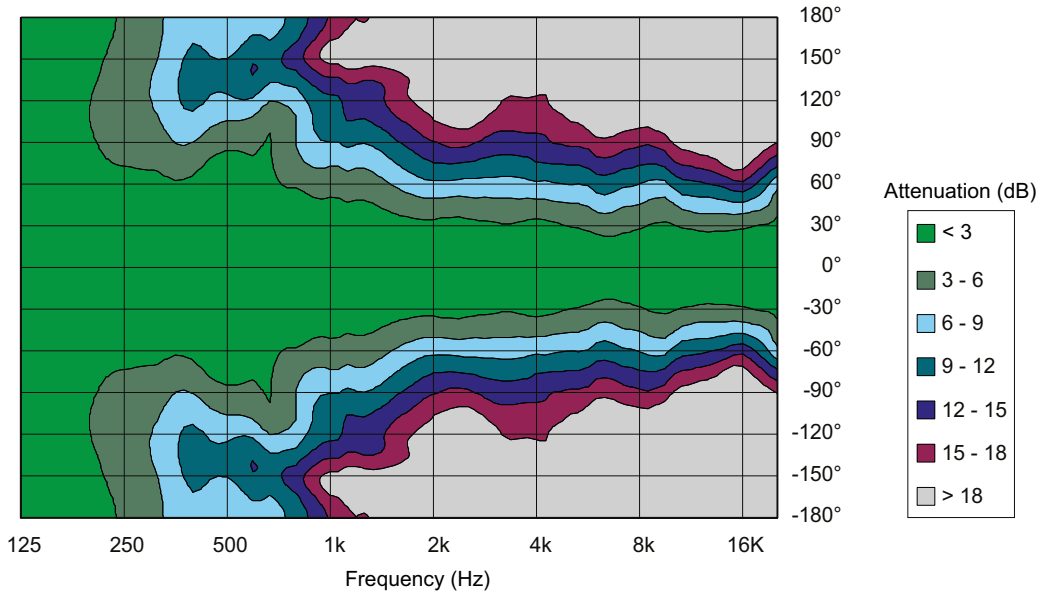
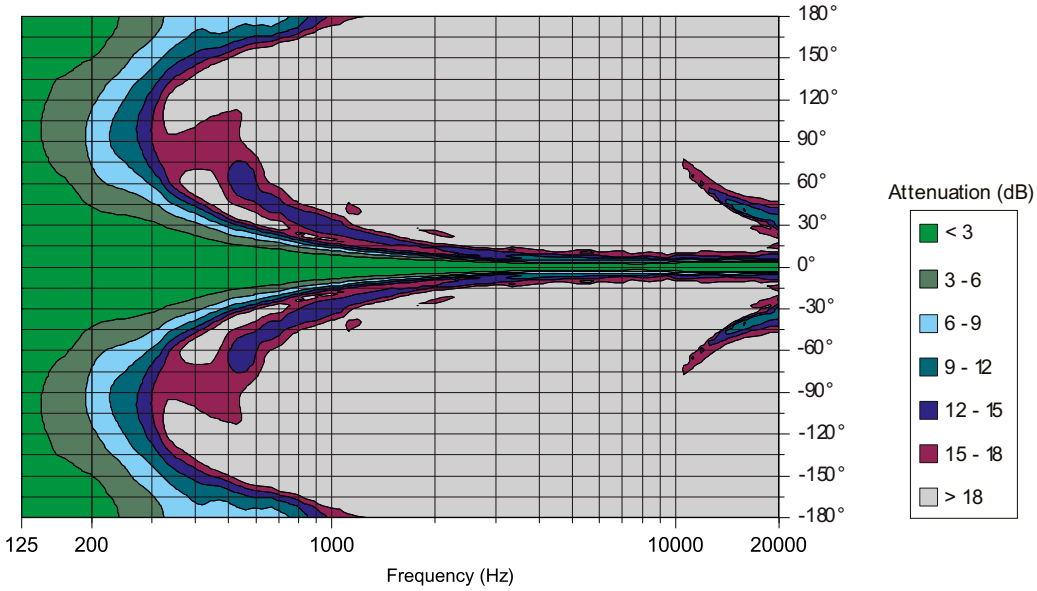
2.10 VIDA L diagrams

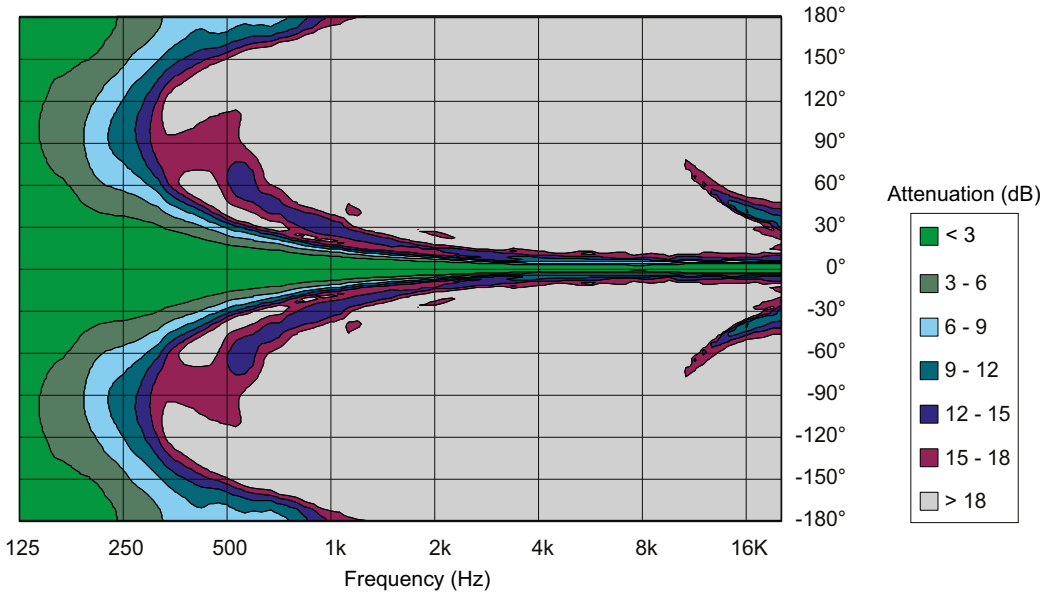
Horizontal Directivity



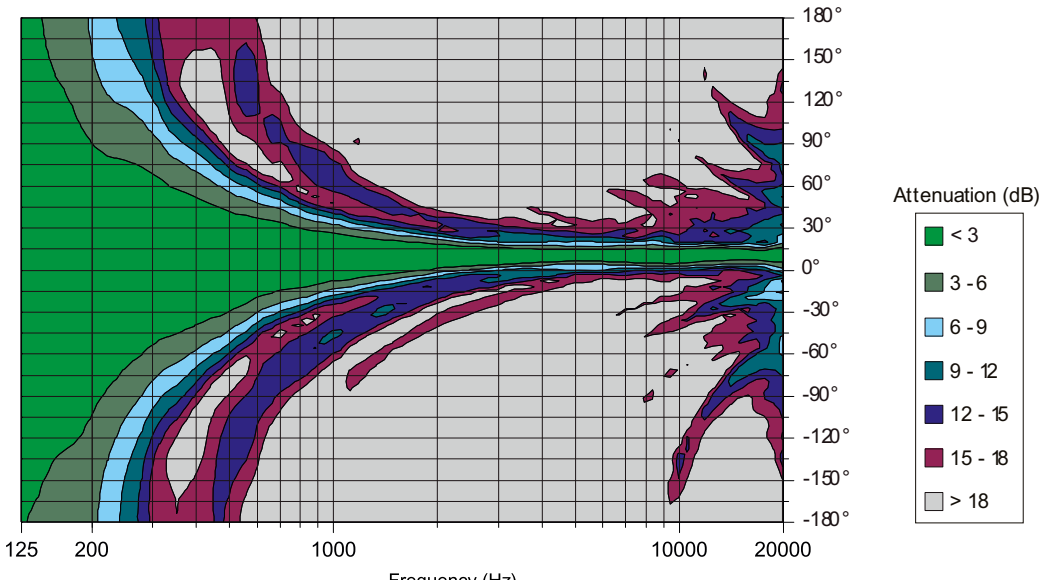
Vertical Directivity



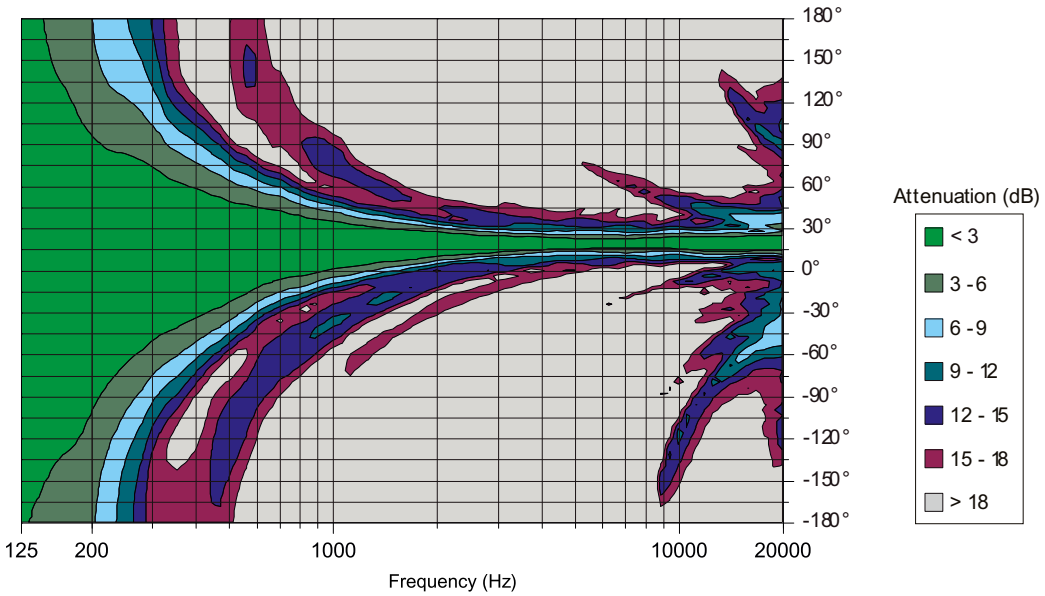
Vertical coverage, 0° Splayangle, 0° Tilt



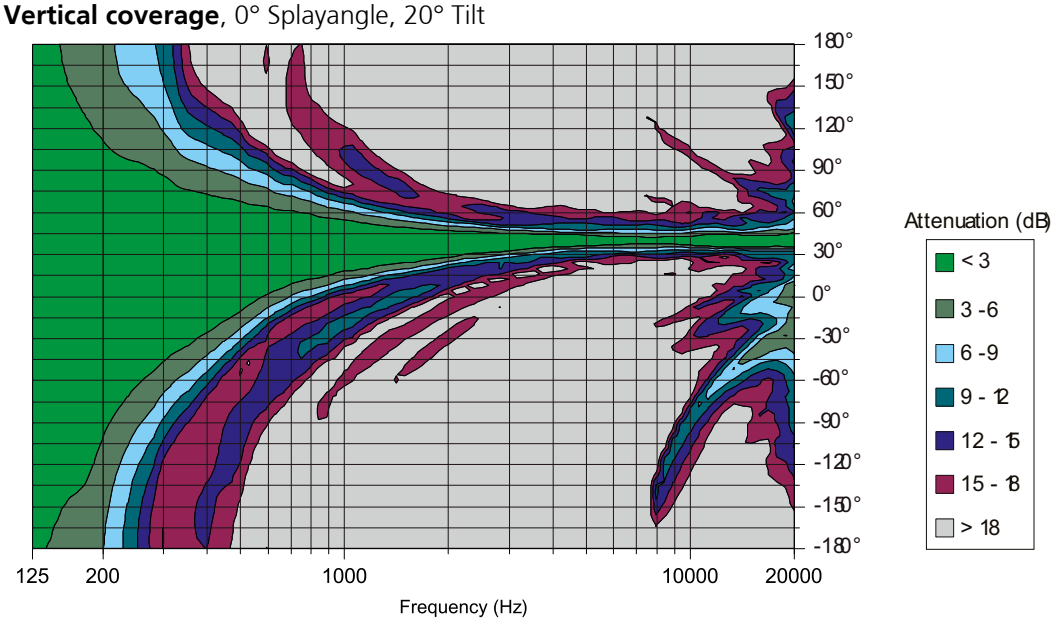
Vertical coverage, 0° Splayangle, 5° Tilt



Vertical coverage, 0° Splayangle, 10° Tilt

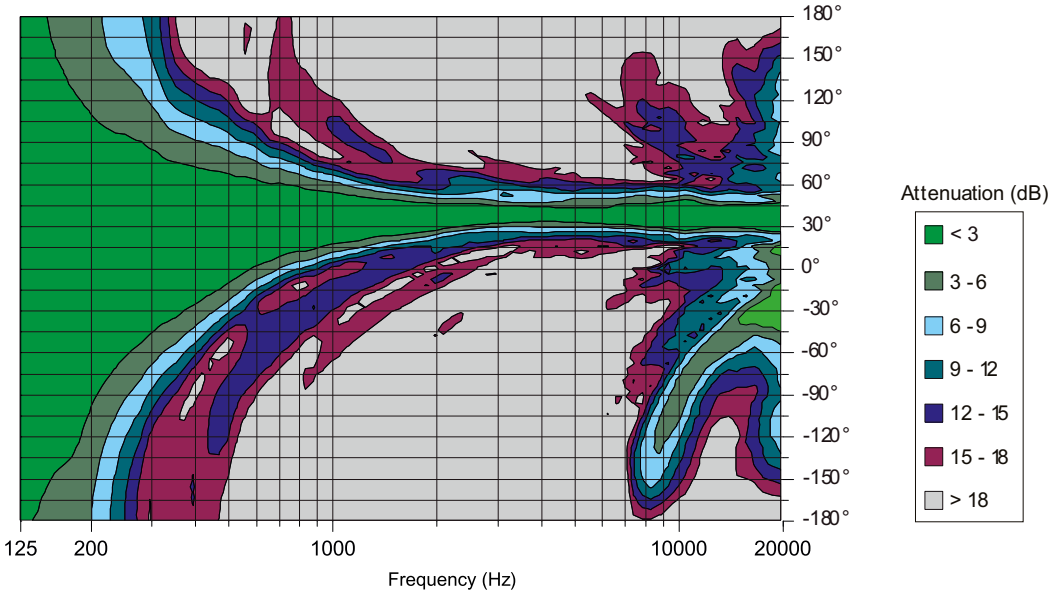


Vertical coverage, 0° Splayangle, 20° Tilt



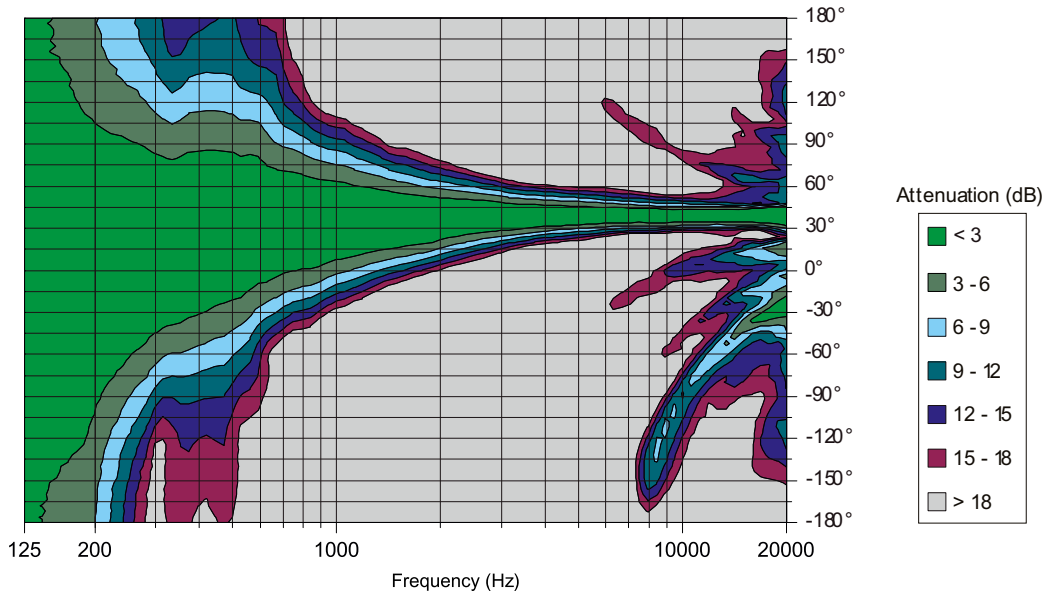
Function optimize 'off'

Vertical coverage, 0° Splayangle, 20° Tilt



Function optimize 'on'

Vertical coverage, 20° Splayangle, 20° Tilt



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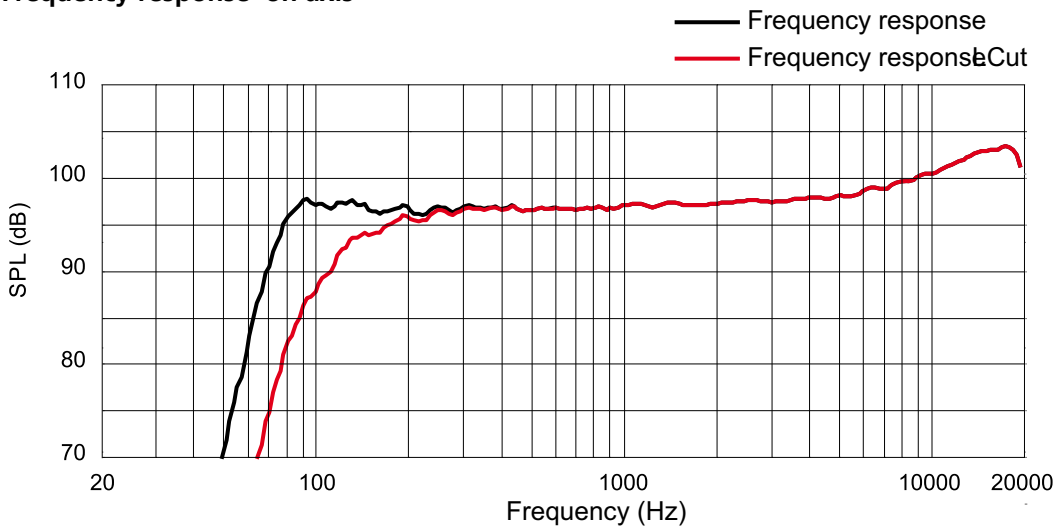
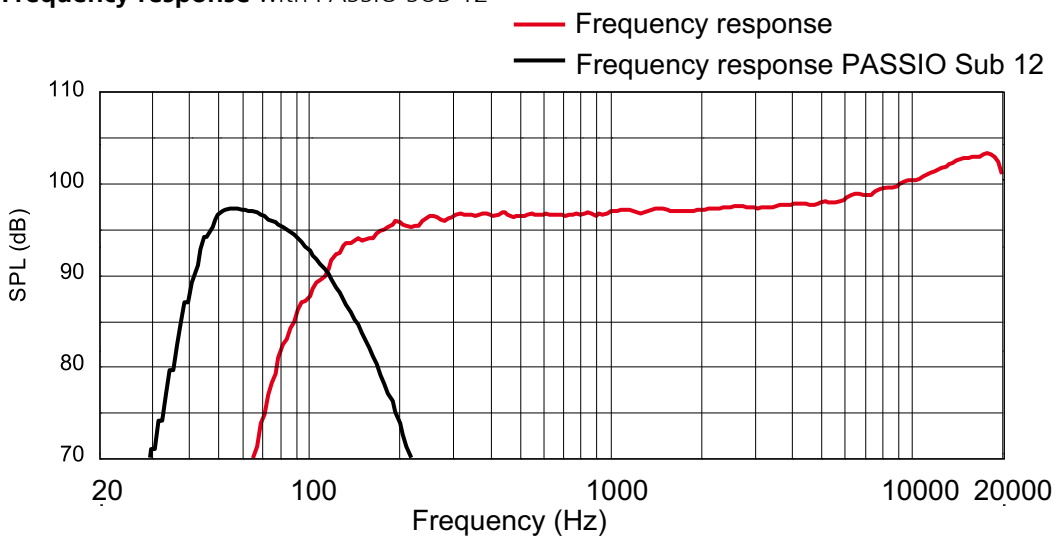
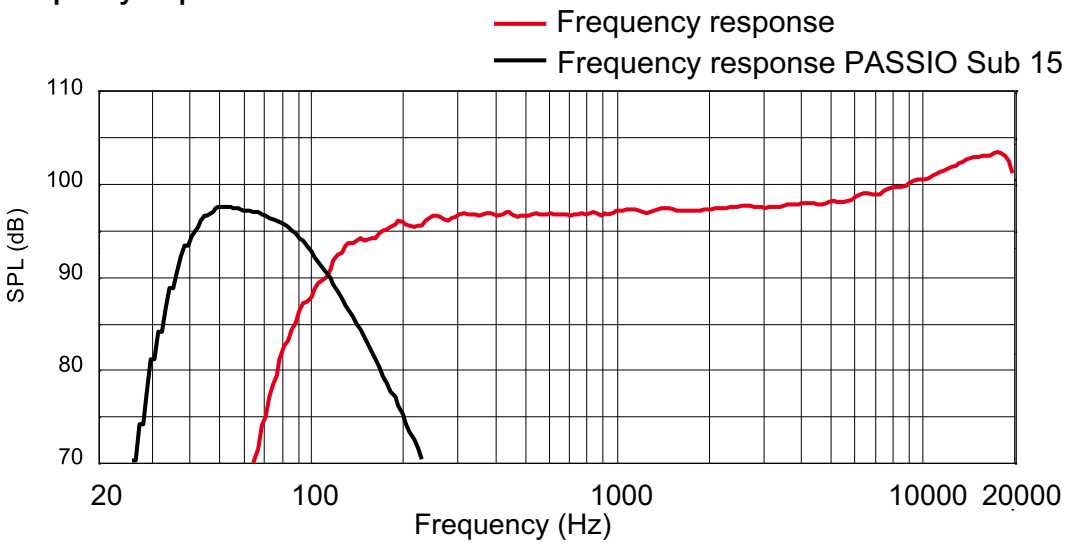
Frequency response 'on axis'



Frequency response with PASSIO SUB 12



Frequency response with PASSIO SUB 15



3 General Safety Instructions

WARNING

Risk of electric shock

- The device is designed for indoor use only.
- Make sure that the power outlet has a ground connector and it is connected to the device through the PE conductor of the power cord!
- Always route power cords so that they are protected from damage caused by stepping on it, tensile stress, or getting caught.
- All equipment interconnected through signal cables must be connected to common ground. Failing to do so may result in an electric shock or permanent damage to the connected equipment.
- Make sure you can disconnect the device from the mains at any time!
- liquids may not intrude or leak into the device.

Risk of electric shock and falling parts

- Never perform any maintenance work on the equipment other than what is described in these user's manual.
- Repair work must be carried out by qualified service personnel authorized by Kling & Freitag.

Risks imposed by falling or overturning parts

- To be installed by qualified personnel only.
- Be sure to install, suspend, fasten, and use Kling & Freitag speakers only using the designated mounting hardware as specified in this document.
- Observe the safety instructions in the User's Manuals to the respective mounting hardware.
- Unless otherwise stated, use only KLING & FREITAG original parts for mounting the speakers.

Danger of fire

- The device does not include a master fuse. Therefore, be sure to protect the supply line appropriately (230 V: 16 A fuse max.; 115 V: 20 A fuse max.)!
- Also make sure the supply line has an appropriately dimensioned cable cross-section.

CAUTION

Risk due to high volumes

This equipment is capable of delivering sound pressure levels in excess of 90dB SPL, which may cause permanent hearing damage. Keep your distance from operating speakers.

NOTICE

Possible malfunctions or damage

- Before connecting the device to a power source, check if the local voltage matches the voltage marked on the device. NEVER connect the device to an unauthorized power source. Doing so may permanently destroy the device.
- RF interference at the power cord or line cables may result in unwanted noise.
- When using the AES/EBU input, strong interference may result in a total audio dropout.
- This device is not designed for home use.
- Always use properly shielded cables with connectors attached as specified by the EMC directive.
- When transporting the device, make sure that it is protected from vibrations.

Never place your devices

- where they are permanently exposed to direct sunlight,
- near heat sources or open fire,
- where the airflow for cooling is blocked,
- where they are exposed to strong vibrations or dust.

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4 Wiring

4.1 Wiring Instructions

NOTICE

Note that the topmost speaker inside a VIDA L array is the 'master' speaker.

Connect all audio input sources to the master speaker. Signal lines to other speakers within the array are not supported!

As all inputs, the outputs are configured only at the master loudspeaker.

However, the outputs (AMP OUT / AUX OUT) can be used with all speakers in the array.

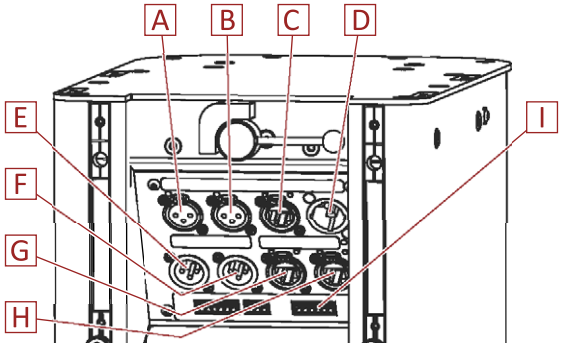
All other speakers are daisy-chained using the VIDA Link Bus. Connect the VIDA Link Bus Out on the lower connector panel of each speaker to the VIDA Link Bus In on the upper connector panel of the next speaker in the chain using an RJ45 patch cord.

- Before connecting your VIDA L speaker, switch off all devices and turn down all faders and encoders.
- To connect the mixing console to the speaker inputs, use shielded balanced 2-pole microphone cables equipped with quality connectors.
- Avoid creating ground loops.
- Be sure to follow the pinouts shown in this manual.
- Check for correct polarity (+/–) at the AMP OUT port of the VIDA L speaker.
- When connecting 3rd-party speakers to the AMP OUT port of the VIDA L speaker, make sure not to fall below the minimum overall impedance of 4 ohms.

4.2 Connectors

4.2.1 Upper Terminal

[A] Analogue Input (XLR-female)
[B] AES/EBU Input (XLR-female)
[C] VIDA Link Bus Input (RJ45)
[D] AC Mains, 100 V – 240 V AC (Neutrik PowerCon True1)
[E] Analogue Link (XLR-male)
[F] AES/EBU Link (XLR-male)
[G] Dante/Remote Primary (RJ45)
[H] Dante/Remote Secondary (RJ45)
[I] Phoenix Connectors (see below)



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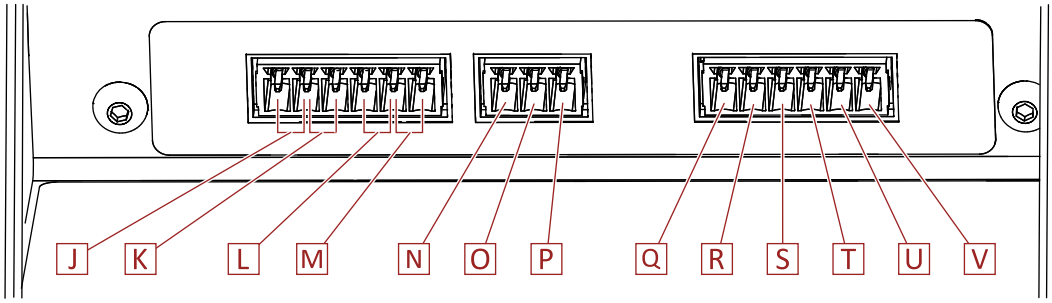
[J] to [K]: GPO 1:
NC1, M1, NO1:
Status output (warnings, errors)

[L] to [M]: GPO 2:
NC2, M2, NO2:
Status output (warnings, errors)

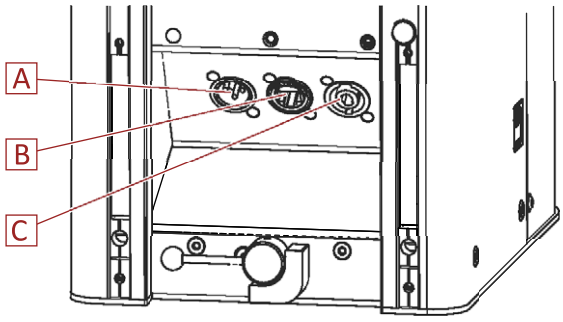
[N] to [P]: MUTE / PRIO:
COM, MUTE, PRIO:
GPIs, for example, for warning systems: auto switch-off for prioritizing another warning system, or for loading a specific warning-system preset

[Q] to [V]: GPI a1 - a3:

GND, +10 V, COM, a1, a2, a3:
GPIs featuring power sources, allowing for switching
between 8 presets.For detailed information on the GPIOs, refer to the manual for the 'VIDA App'.



4.2.2 Lower Terminal



[A] AUX OUT (XLR)

[B] VIDA Link Bus Output (RJ45)

[C] Connection 'AMP OUT' (Neutrik Speakon)

This output is provided mainly for connecting a VIDA C; However, using the VIDA App, you can set up the AMP OUT of the VIDA L speaker for joint operation with PASSIO SUB 12 or PASSIO SUB 15. In addition, using the Flat setting, you can connect a passively equalized top. For this purpose, the AMP OUT setup allows for configuring high-pass and low-pass filters, etc.

Note that with the PASSIO SUB 12, PASSIO SUB 15, and Flat settings, the AMP OUT is available at the array master unit only! In an array, the master unit is always the topmost VIDA L speaker.

Pin Out of the Speakon socket 'AMP OUT':

CH1 = 1+ / 1-, ≥ 4 Ω

CH2 = 2+ / 2-, ≥ 4 Ω

Power:

400 W rms/800 W peak, min. 4 Ohm

NOTICE

Never bridge the 2 AMP OUT channels of the VIDA L.

4.3 Anschluss VIDA L an USV

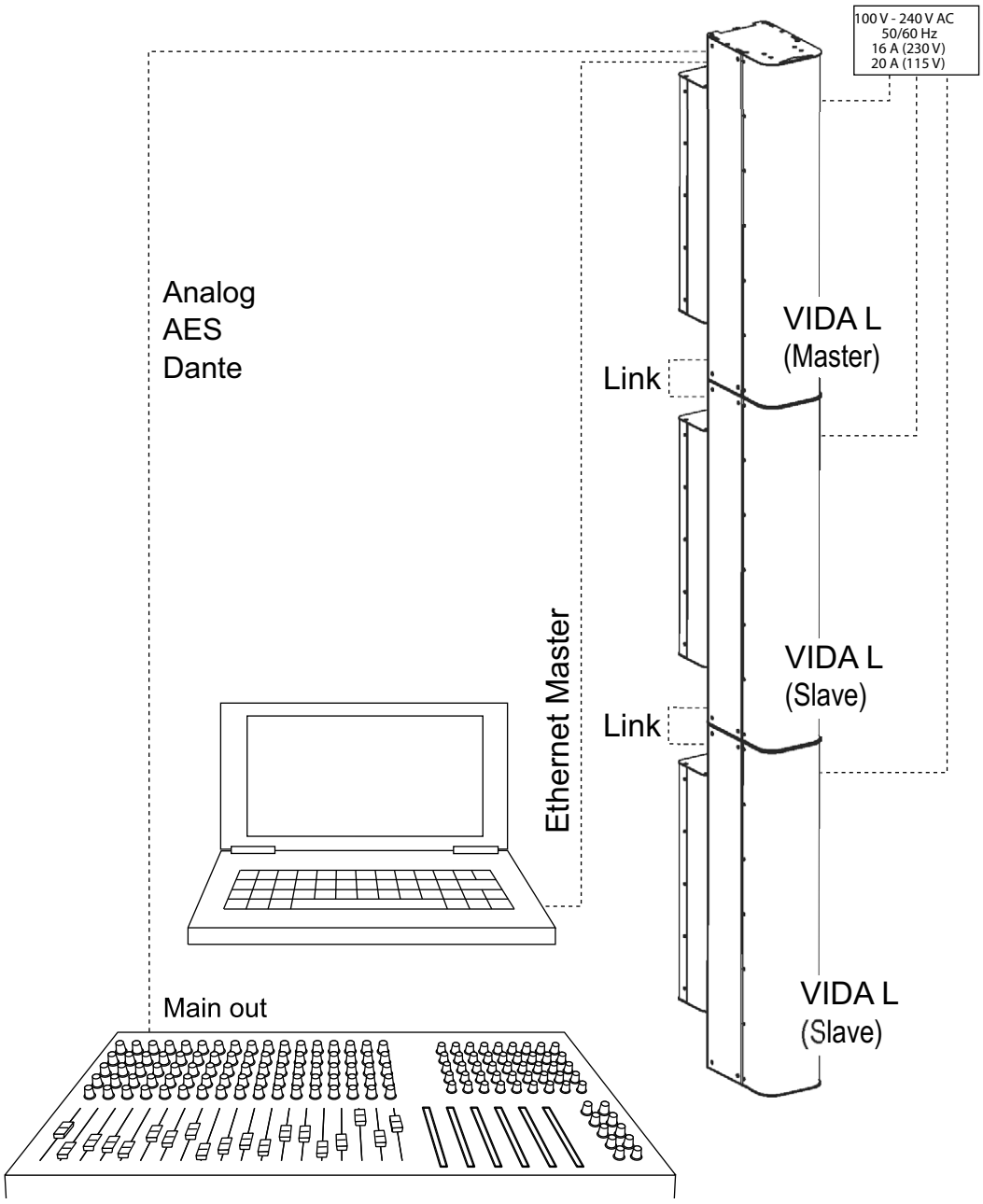
In case of using a UPS System (uninterruptible power supply) with a VIDA L following numbers should be used for designing the system:

For full load, the internal buffers keep the controller of VIDA L at least for 50 ms operational.

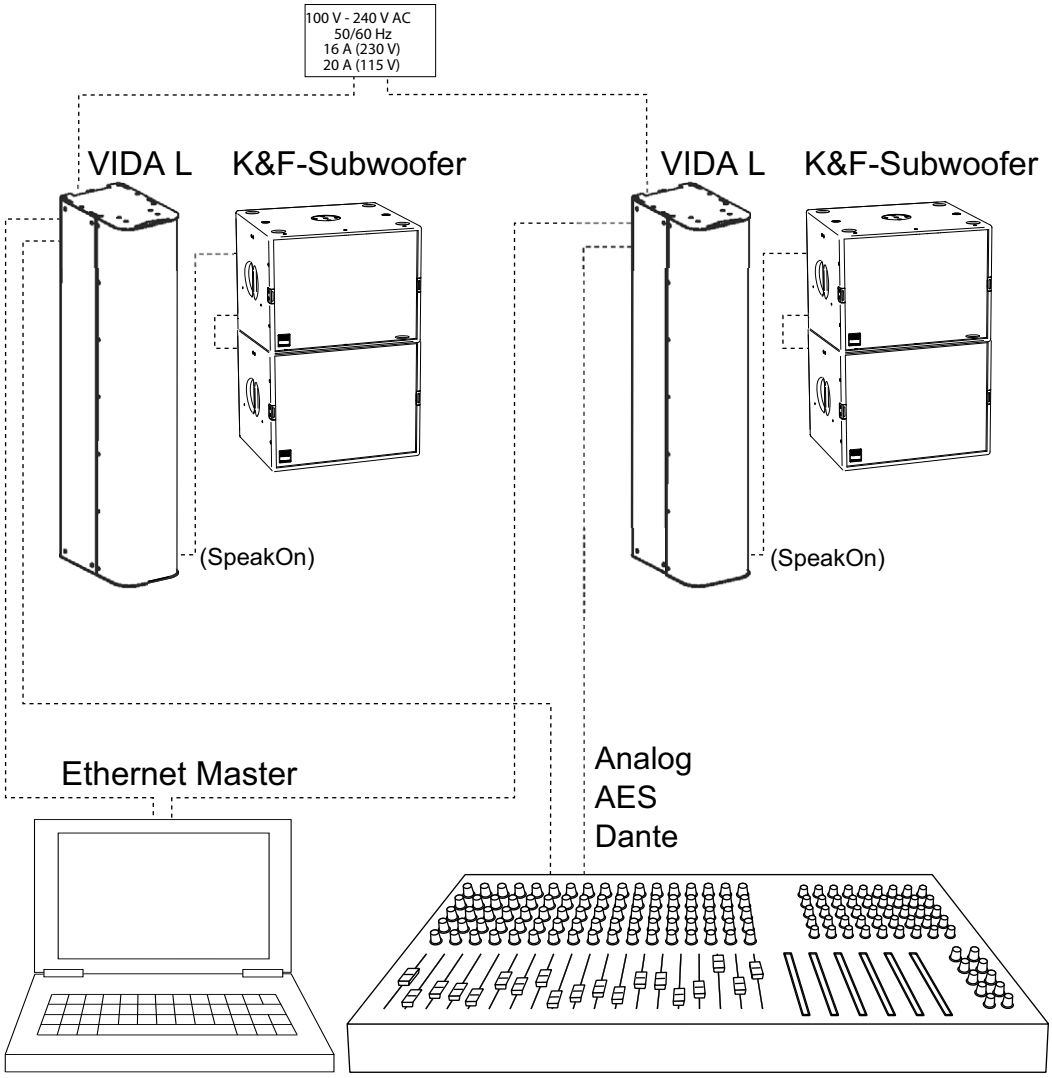
To prevent the controller from rebooting the UPS therefore should react within 50 ms.

4.4 Sample configurations:

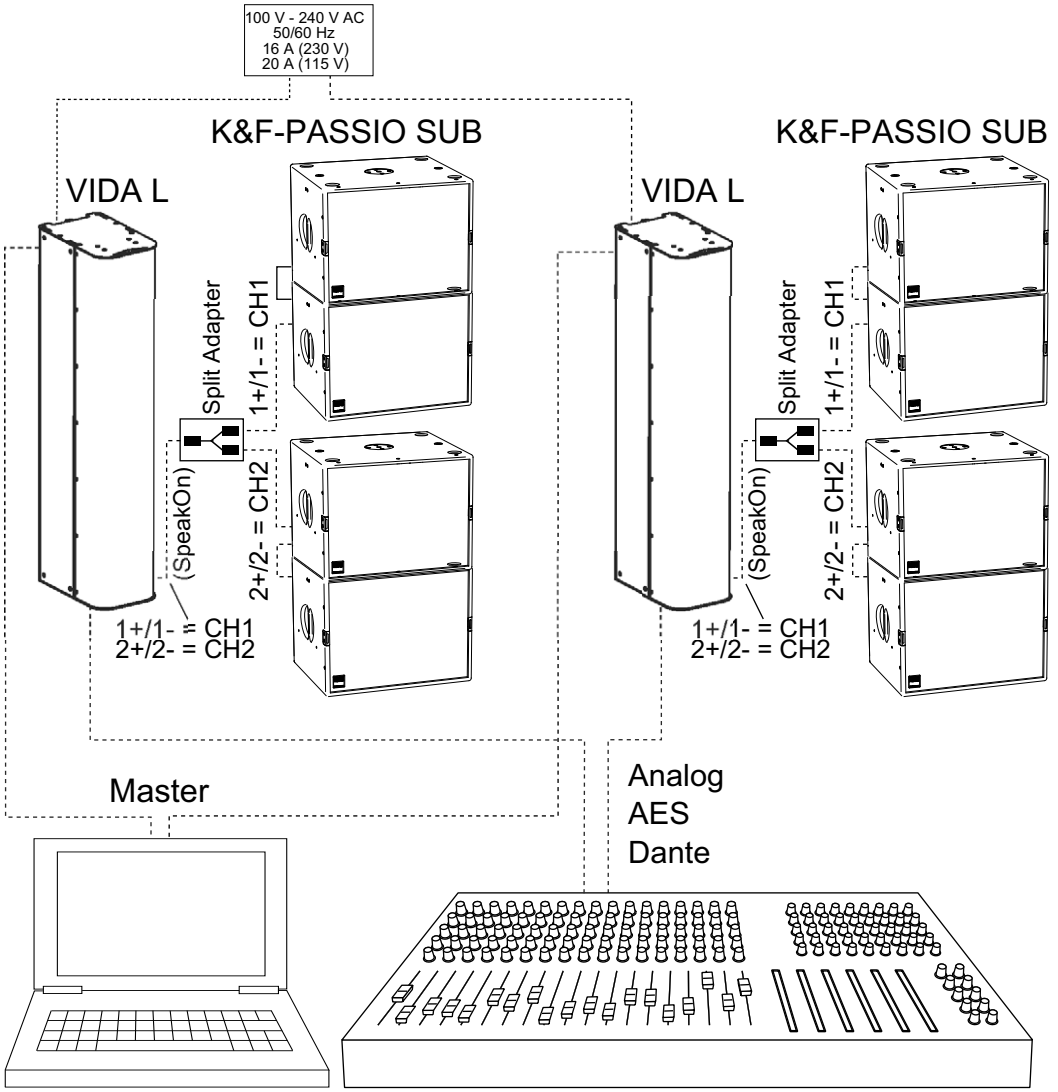
4.4.1 VIDA L speakers with or without VIDA C



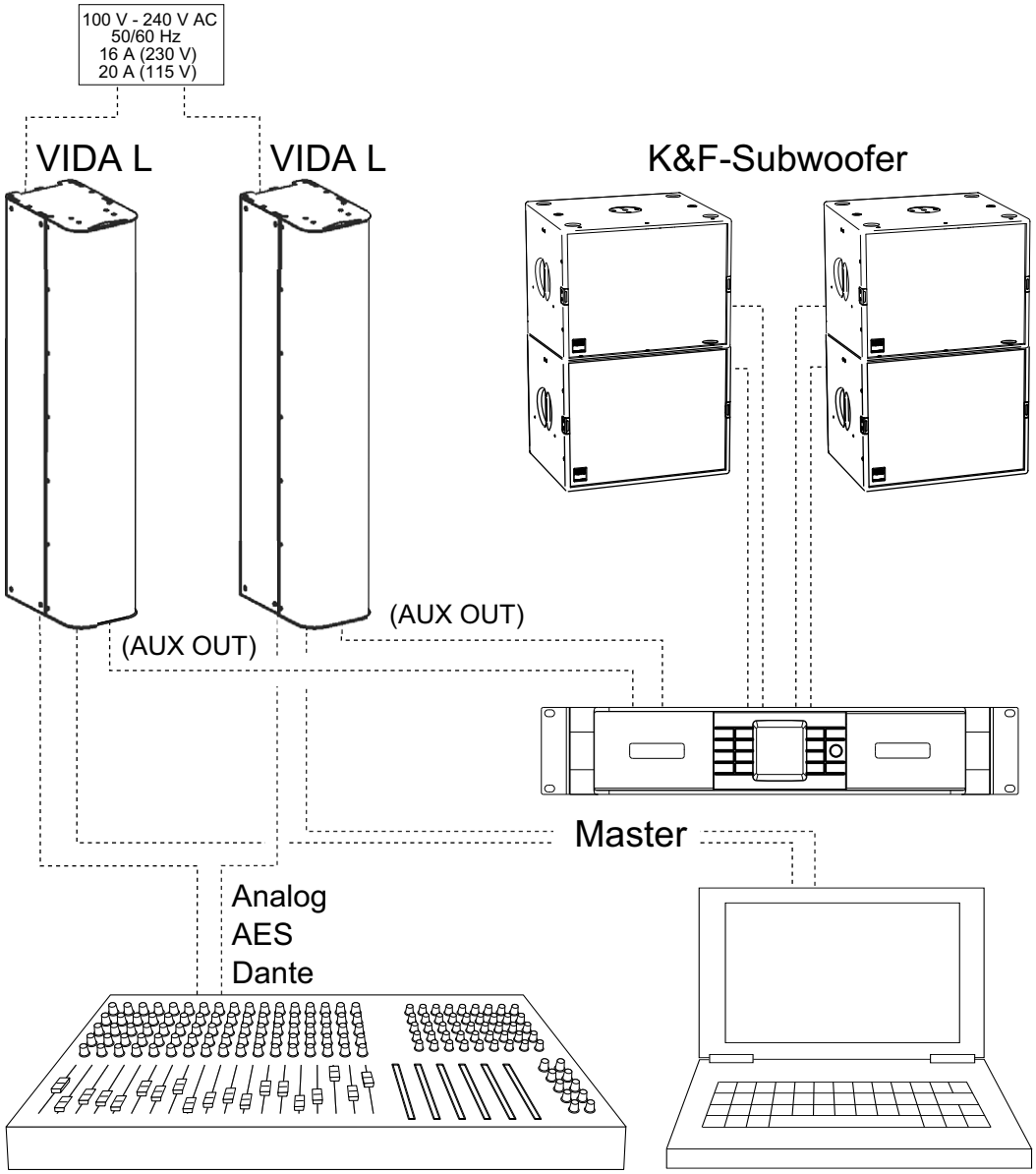
4.4.2 VIDA L speakers with K&F PASSIO SUB 12 or K&F PASSIO SUB 15



4.4.3 VIDA L speakers with the maximum number of K&F PASSIO SUB subwoofers



4.4.4 VIDA L speakers with K&F subwoofers and power amp connected to AUX OUT



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5 GPIO specifications

5.1 GPI

GPI a1 - a3:

Type	Floating optocoupler inputs
Power consumption	2.5 mA @10 V
Internal voltage supply[a)]	12 V/1 mA, floating
Reverse voltage	–6 V
HIGH switching threshold	Edge-triggered: 5 V (min.) – 30 V (max.)
LOW switching threshold	Edge-triggered: –6 V (min.) – 1.5 V (max.)

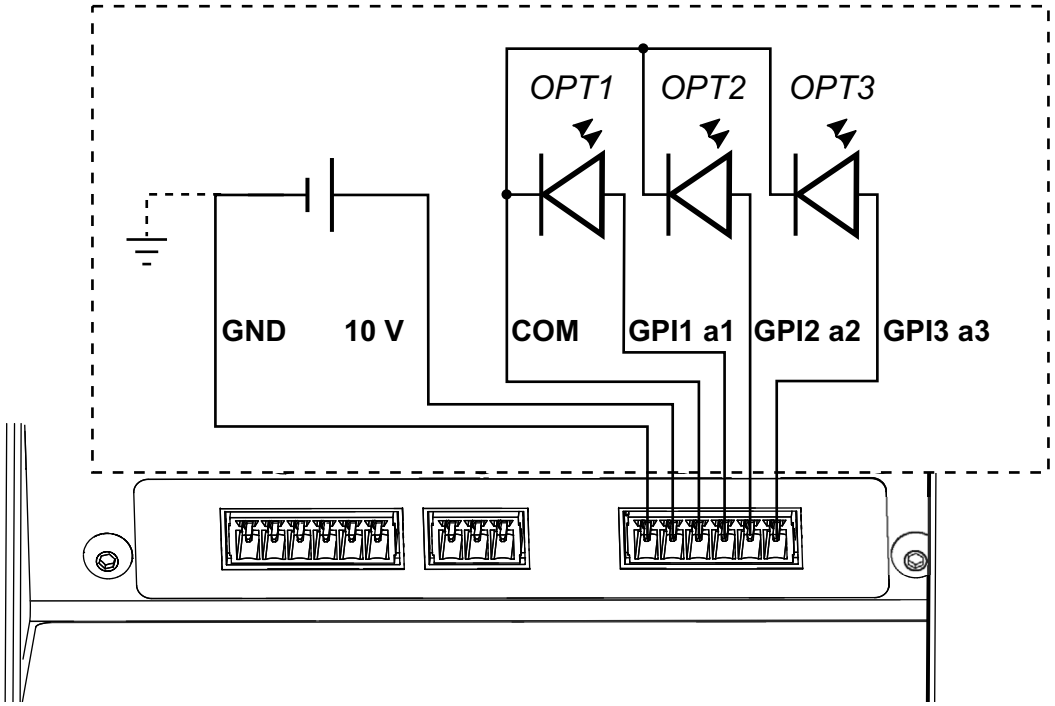
a) If galvanic isolation is required, be sure to use an external voltage source!

GPI MUTE / PRIO:

Type	Floating optocoupler inputs
Power consumption	2.5 mA @10 V
Internal voltage supply[a)]	12 V/1 mA, floating
Reverse voltage	–6 V
HIGH switching threshold	Voltage controlled: 5 V (min.) – 30 V (max.)
LOW switching threshold	Voltage controlled: –6 V (min.) – 1.5 V (max.)
GPI PRIO function	Input selection
GPI MUTE function	Mute

a) If galvanic isolation is required, be sure to use an external voltage source!

5.1.1 GPI internal wiring:



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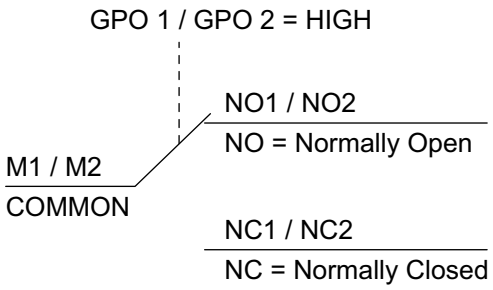
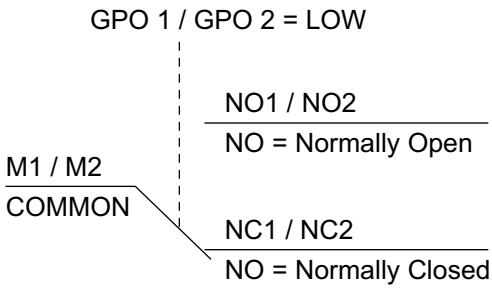
5.2 GPO

Type	Floating MOSFET-Schalter
Max. Continuous current	0.5 A
Max. Peak current	1.5 A
Max. Peak voltage	60 VAC
NO1 / NO2	Normally open, low impedance to COMMON
NC1 / NC2	Normally closed, high impedance to COMMON
M1 / M2	COMMON

GPO internal wiring:



- GPO 1 / GPO 2 is high, status is OK
- NO1 / NO2 is low-impedance to COMMON



- GPO 1 / GPO 2 is low, status is ERROR
- NO1 / NO2 is high-impedance to COMMON

6 Systemlatency

The following table lists the systems latency of the VIDA L. These values are valid for firmware version 1.4.0, without beamsteering.

Input	K&F VIDA L	AUX OUT
Analog	6.016 ms	1.260 ms
AES 44.1 kHz	8.299 ms	3.537 ms
AES 48.1 kHz	8.062 ms	3.313 ms
AES 88.2 kHz	7.302 ms	2.540 ms
AES 96 kHz	7.208 ms	2.448 ms
AES 176.4 kHz	6.830 ms	2.046 ms
AES 192 kHz	6.760 ms	2.000 ms
DANTE	n.a.	n.a.

When using system amplifiers such as the K&F PLM+ series with the AUX OUT, additional delay will be added due to the amps signal processing. For this reason, the AUX OUT has the least amount of delay possible, which leaves room to be adjusted via the VIDA APP.

6.1 Dante latency

The latency for the DANTE playback results from the setup for the DANTE network and the

6.1.1 Example

DANTE controller setup: latency = 0.5 ms, sample rate = 96 kHz

Total latency = 7.208 ms (AES 96 kHz) + 0.5 ms (DANTE) = 7.708 ms

By factory default, the two network ports of the VIDA L are configured for redundant operation. This way, you can route a signal through Dante and two separate cable runs in order to increase fail-safety.

If necessary, you can change the two ports to the ‘Switched’ mode using the Dante Controller software. This way, you can route control data and the Dante signal from one speaker to the next. (This is referred to as daisy-chaining.) In this case, you cannot achieve a redundant configuration.

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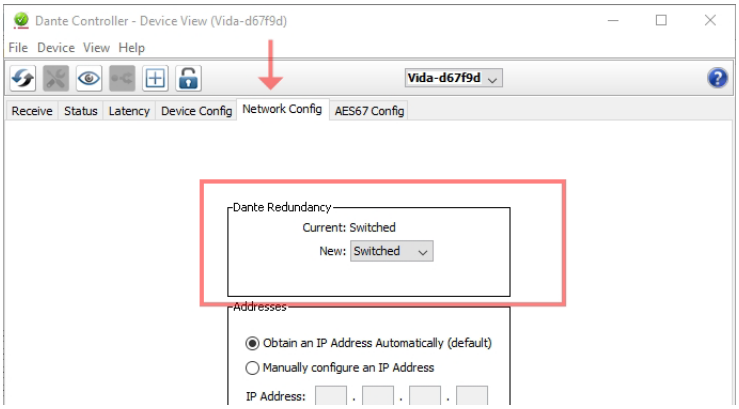
6.1.2 Changing between Dante redundancy operating modes

1. Launch Dante Controller.
2. Double-click the VIDA L to be configured to access the Device View.
3. Click the Network Config tab.
4. Make the appropriate settings in the Dante Redundancy section.



6.1.3 Setting up Dante latency with an additional hop

There is one additional network switch installed inside K&F VIDA L which translates to one additional hop for the network. Be sure to note this when setting up the Dante latency.

For more information about setup and design of a Dante audio network and the necessary

www.audinate.com/resources

7 Mounting the optional VIDA C to the VIDA L

WARNING

Risk of injury from falling objects!

Improperly mounted speakers are not safe for suspending. Objects falling down impose a deadly risk for people standing near-by!

To attach the VIDA C, use only the dedicated fasteners featuring captive screws inside the rails located at the VIDA L rear panel.

Make sure all bolts and screws are tightened to the specified torque.

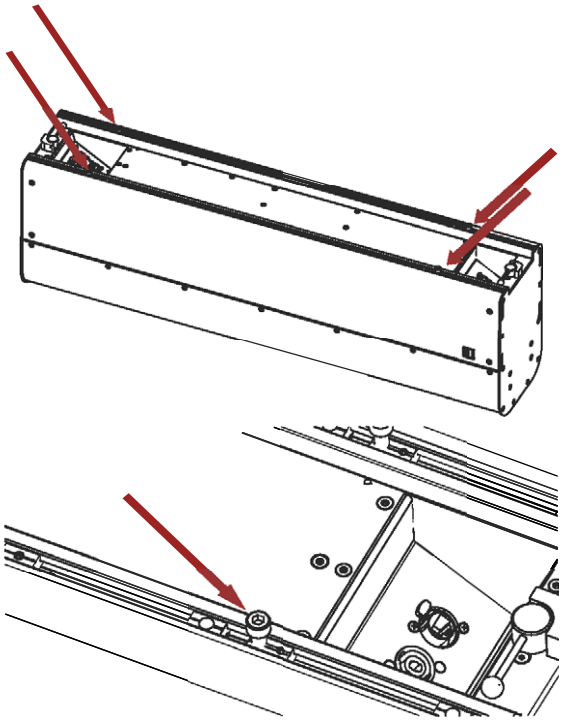
TIP

If you want to use the VIDA L speakers in combination with VIDA C you need to attach one VIDA C to **each** VIDA L speaker. You need to emulate that setup using the VIDA App, too.

You can mount a VIDA C to a VIDA L speaker while it is still in the transportation case.

1. Loosen the mounting screws until the VIDA C can be mounted.

   Note that these are captive mounting screws, i.e. they are tied to their respective holders. To avoid damaging the screws and threads, don't apply excessive force when loosening the screws.



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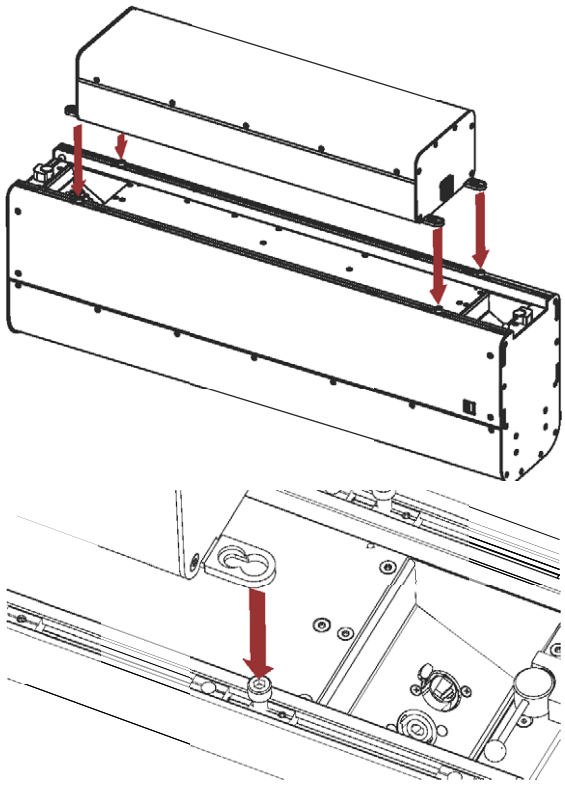
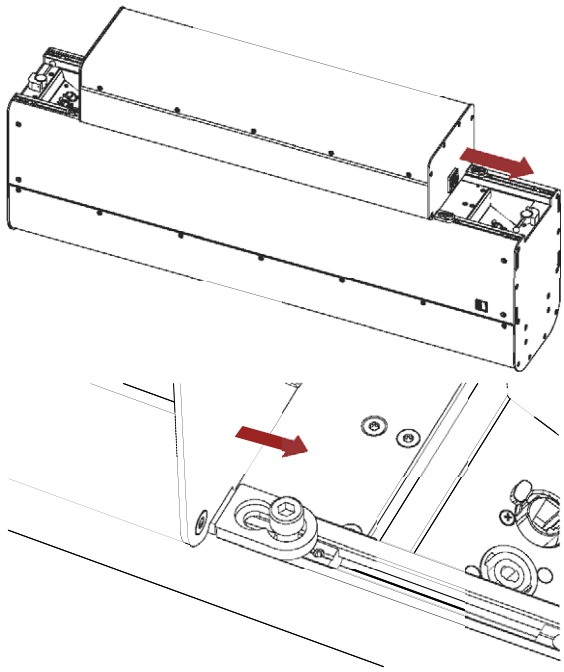
2. Place the VIDA C onto the VIDA L speaker.

   The Speakon port of the VIDA C needs to point towards the lower connector panel (three ports).

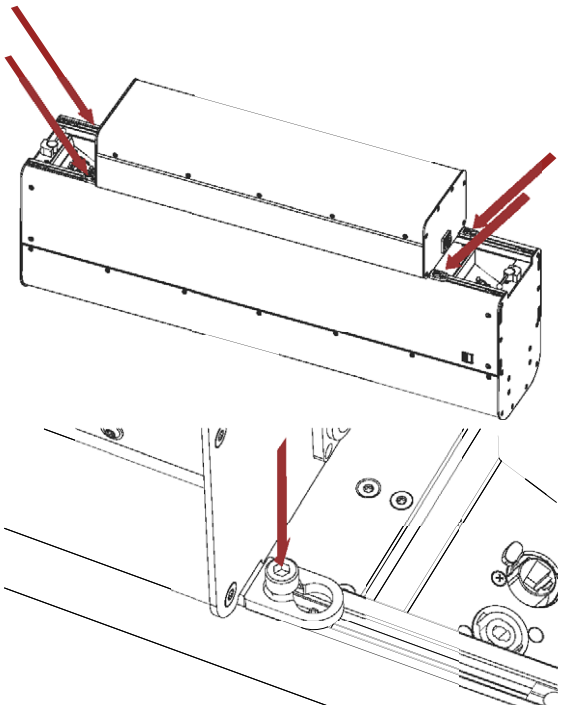


3. When the VIDA C is properly aligned to the speaker through all four screws, push it towards the lower connector panel until it stops.



4. Fasten all four screws finger-tight.

   Connect the VIDA C to the VIDA L's AMP OUT port using a 4-pin SpeakOn patch cord.



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8 Setup of the VIDA L Systems

WARNING

As general rules apply:

- With one strand rigging you can array up to eight pieces of K&F VIDA L for mechanical tilt angles between 2.5 to -6.1 degrees (with VIDA C), or rather 2.0 to -7.9 degrees (without VIDA C).
- According to larger or smaller mechanical tilt angles the number of speakers for an array may need to be reduced.
- Detailed information about the rigging of K&F VIDA L arrays can be found in the user's manuals for K&F VIDA L Flying Frame and K&F VIDA L Flying Bracket.
- You must simulate and check the resulting real angles and the permissible load with the VIDA-APP.
- A plug-in is also available for the K&F CONSEQUENZA+ simulation software to check the mechanical alignment and load.

8.1 Required Tools

The following is required for mounting the VIDA C to the VIDA L speaker:

- Allen wrench (6 mm)
- Torque wrench for 16Nm

8.2 Interconnecting System Components

The following describes how to interconnect VIDA L system components. The approach is basically applicable to VIDA L accessories, too. Here, we will explain how to securely interconnect two speakers as an example. In this case, whether the components are placed vertically (upright) or horizontally is not important.

The key parts required for interconnecting two components are the upper and lower levers.

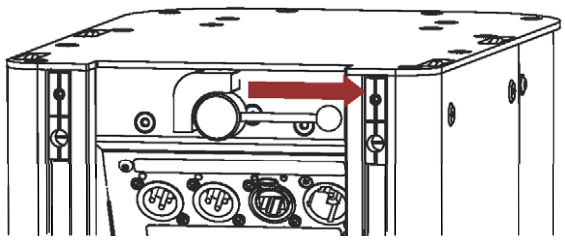
Upper lever:

The upper lever is used for locking or unlocking the rigging-system connecting adapter (steps 1 - 8)

Lower lever:

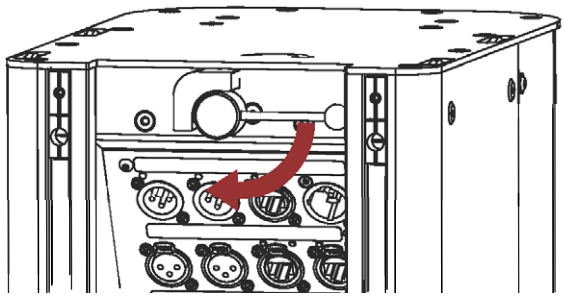
The lower lever is used for locking or unlocking the connection to another speaker or accessory (stepsa 9 - 11)

1. Pull out the upper lever towards its longitudinal axis.

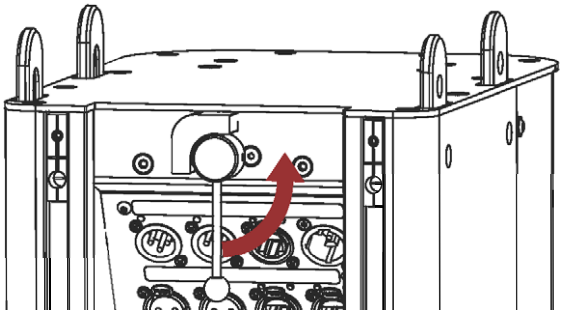


2. Rotate the lever clockwise by 90 degrees.

   Doing so will push the connecting adapters out of the speaker.

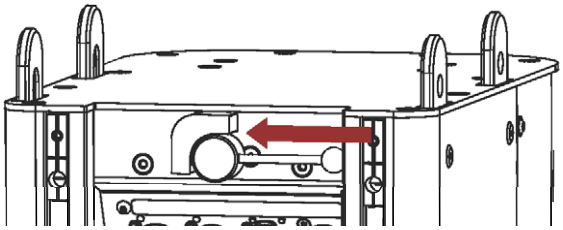


3. Rotate the lever anticlockwise back into the vertical position.



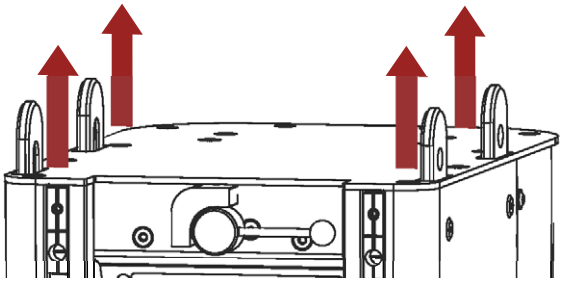
4. Push the lever back in in longitudinal direction until it snaps.

   This will lock the lever.

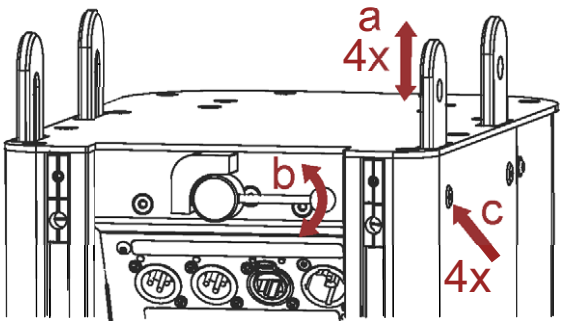


5. Pull the connecting adapters by hand out of the housing as far as possible.

   The connecting pins lock into the connecting adapters and fix them.



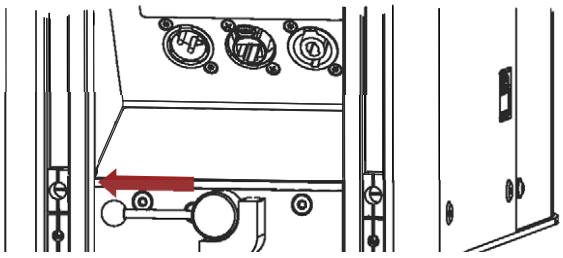
6. Check whether all four connecting adapters have been fully pushed out and locked **(a)**.
7. Make sure that the lever has returned to its captive position **(b)**.
8. On both sides of the speaker, make sure that you can see and feel the chamfers of the 4 connecting pins are flush with the walls from outside **(c, 8x)**.



The speaker top with the pulled-out connecting adapters is now ready for interconnection with another speaker or accessory.

The steps 9 – 11 below show how to prepare the speaker bottom for accepting the connecting adapters of another speaker or accessory.

9. Pull out the lower lever towards its longitudinal axis.



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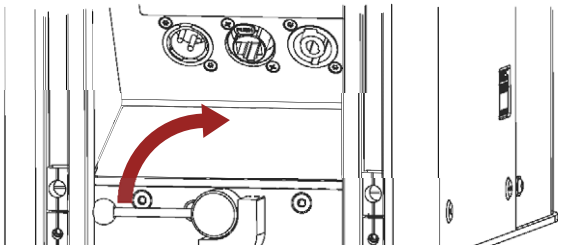
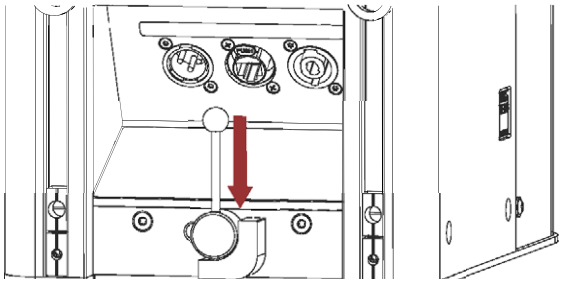
10. Rotate the lever clockwise by 90 degrees.



11. Push the lever longitudinally into the joint case to lock it.

    Doing so will allow the receptacles to accept the connecting adapters of another speaker or accessory.



This speaker is now ready for accepting and securely locking the connecting adapters of another speaker or accessory. The steps below explain how to securely mount two prepared speakers to each other.

CAUTION

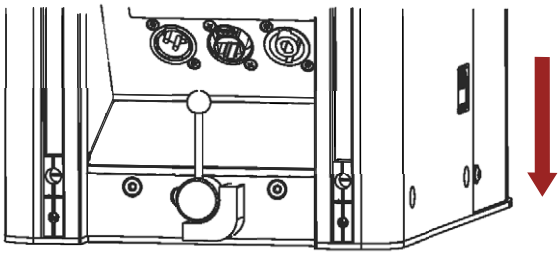
Crushing hazard!

Speakers moving towards each other can crush fingers during installation!

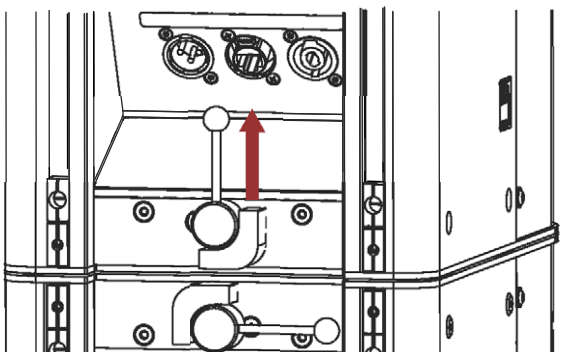
While mounting speakers onto each other, never put your hands between the connecting faces (i.e. speaker bottom and top faces)!

12. Put the upper speaker onto the lower speaker or the connecting adapters of an accessory.

    Let the connecting adapters slide into the corresponding openings of the upper speaker.

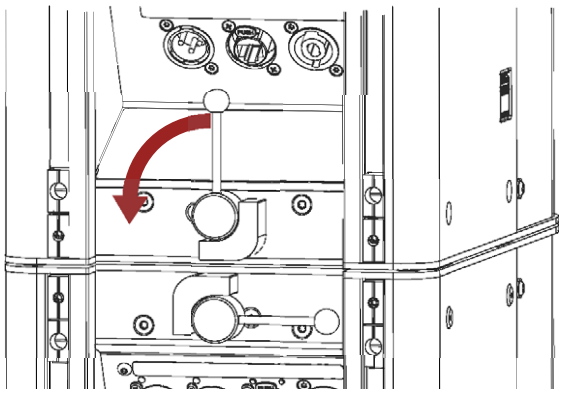


13. Pull out the lower lever towards its longitudinal axis.

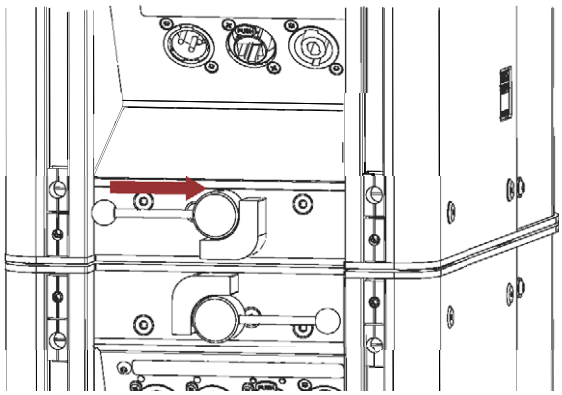


14. Rotate the lever anticlockwise into its original position.

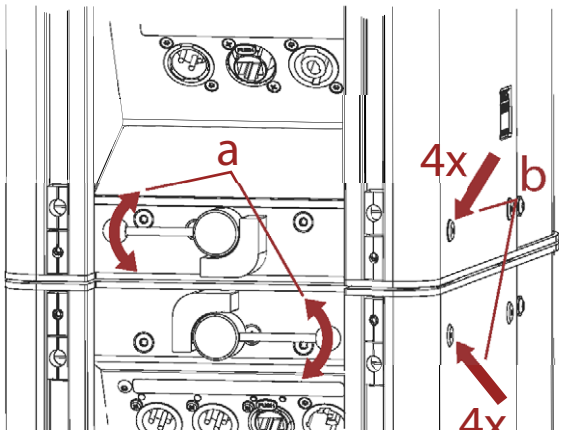
    Doing so will fasten and secure the connecting adapters of the lower speaker.



15. Push the lever back in in longitudinal direction until it snaps.



16. Make sure that the lever has returned to ist captive position **(a)**.
17. On both sides of the speaker, make sure that you can see and feel the chamfers of the 4 connecting pins are flush with the walls from outside **(b, 8x)**.



TIP

To support the adapters snapping into each other, slightly push the joint in every direction.

If any connecting pin still doesn't extend fully, try pulling it

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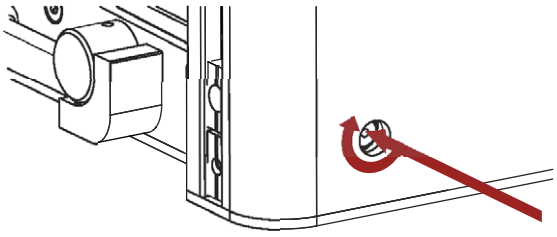
8.2.1 Emergency bore in the connecting pin.

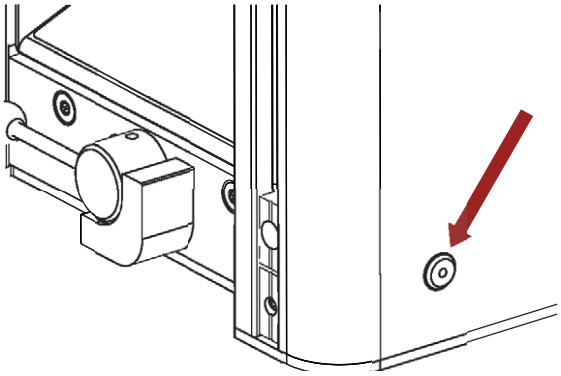
If the pin is blocked by dirt or foreign objects, try loosening it through the emergency bore.

1. For this purpose, carefully thread an M4 screw into the connecting pin from outside.



2. Trying moving the screw and the lever to release the blocked pin.

   If you have successfully released and pulled out the pin, be sure to have any issues resolved before next use.

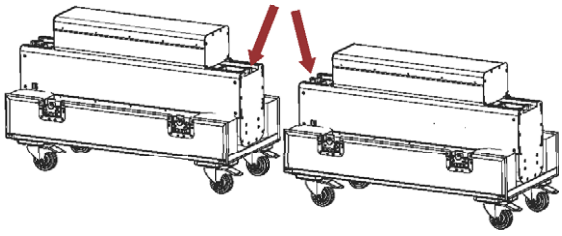


8.2.2 Setting up a Speaker Array

1. Prepare the interfacing speaker sides as described in Chapter »Interconnecting System Components« on page 41.

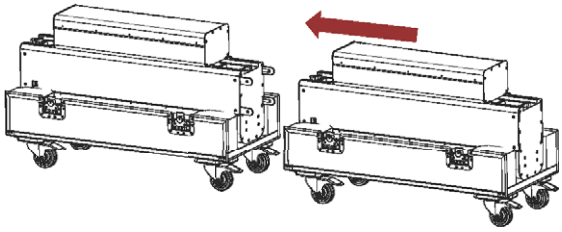
   Upper speaker: steps 1 - 6

   Lower speaker: steps 9 - 11

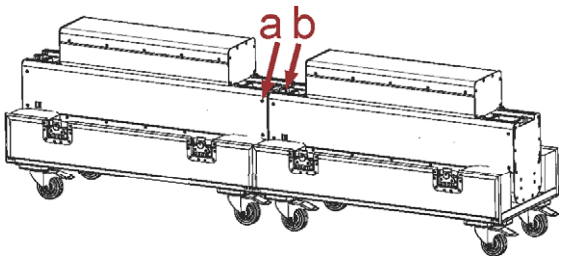


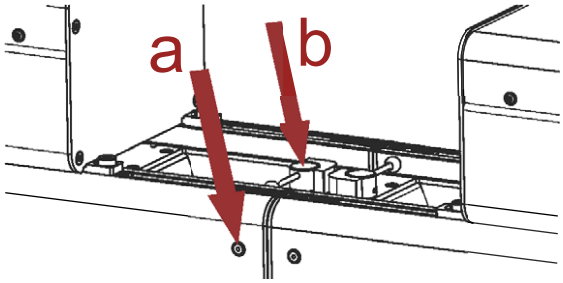
2. After preparing the speakers as explained, push them towards each other.

   Make sure that the four connecting adapters smoothly slide into the other speaker's housing.



3. Rotate the lever anticlockwise into ist original position.
4. Make sure that all levers of both speakers are locked in their captive positions **(b, 2x)**.
5. On both sides of the speaker, make sure that you can see and feel the chamfers of the 4 connecting pins are flush with the walls from outside **(a, 8x)**.





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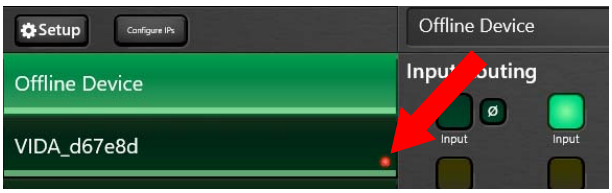
9 Initial Operation

1. Download the VIDA App from the Microsoft Store and install it.
   For this purpose, visit the **Microsoft App Store** and search for **VIDA App**.
2. Download the VIDA App User's Guide from our website (**www.kling-freitag.de**).
3. Wire the speaker as previously described. See chapter »Wiring« on page 48.
4. Connect the power supply.
5. Add the speakers to your network. Use for this purpose primarily the network socket **Dante / Remote Primary (RJ45)**
6. Run the VIDA App on your computer. At program launch, the Setup screen will be displayed.
   - By default, the Offline Device is always displayed at the top left corner. *Using that device, you can configure settings without physically connecting a speaker. This means you can create and store "virtual setups" that you can later apply onto your physical speakers. To configure Offline Devices, press the* ⚙ *button on the right-hand side to select the desired speaker type and in the case of VIDA L speakers, the corresponding number.*
   - The Offline Device will list all accessible VIDA speakers and arrays.
   - While the VIDA App is uploading the settings to the speakers found, green progress bars will show the upload status for each system.

   - **When setting up for the first time** or changing the array size, a red dot appears next to the speaker. In addition, the front LED will light red.
   - That means no valid filter setup is loaded and the speaker is not ready for operation.



   - The filter setup is automatically loaded when you make settings on the 'Beam' page.
   - For a functional check, press the button 'Preset' (bottom right) under the tab 'Beam'.
   - Load the 'Default' setup.
   - Note that this preset is only for a functional check and is not suitable for a sound adjustment.

7. To check, change to the Setup tab.
   - When the progress bar is fully displayed and no red dot is shown, the speaker is ready for operation.

8. For details on speaker configuration and operation, refer to the VIDA App User's Manual.
9. Output a low-volume signal to the system.
10. Check to see if the desired signals are applied to the intended speakers and make sure there is no interference.
    - A red progress bar indicates that the speaker has received damaged data packets, or no data packets at all. In this case, make sure you are within the WLAN service area, are connected to the correct WLAN, and no other network-related problems exist.

10 Dismounting of the VIDA L system

Basically, dismounting the speakers is performed in reverse order of the installation process.

1. Secure the array and unload the connecting pins.
2. Rotate the lever on the upper speaker clockwise until it snaps.
3. Pull the speakers apart.

TIP

When dismounting is completed, store all speakers and accessories in the transportation case. This way, they cannot get lost and are always at hand when needed. In addition, the parts are protected at least temporarily against the effects of unfavorable weather conditions, etc.

If you intend putting the speakers into a transportation case, you don't need to push the connecting adapters back into the housing and to unmount the VIDA C. The transportation case is designed for housing the speaker with the adapters extruded and the VIDA C mounted. This saves a few steps when dismounting and remounting the speakers.

11 Reset the loudspeaker to factory settings

Using the VIDA reset dongle allows for restoring the factory defaults of the speaker. Doing so will rest all customized parameters as well as the network settings. As of firmware 1.2.4, the Dante module is also reset to the factory settings in case of a dongle reset.

TIP

With firmware 1.4.1, a reset is also possible via the internal web interface:
"Added factory reset via web interface"

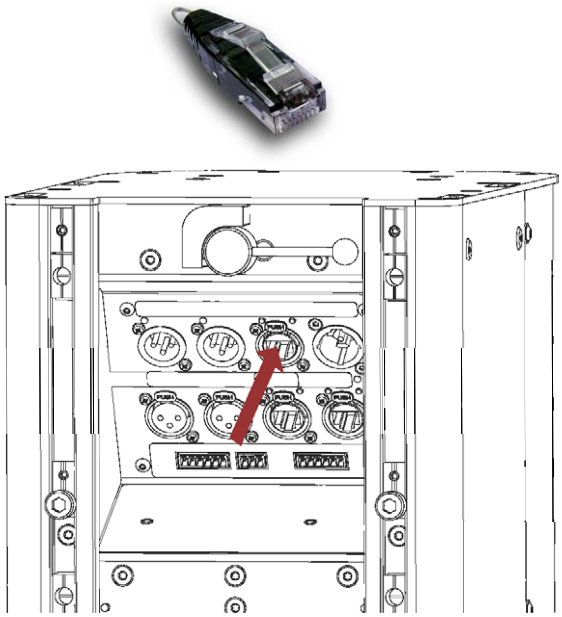
NOTICE

Note that the speaker's network setting is set back to DHCP after the hardware reset. If necessary, configure the network settings according to your requirements.

1. Insert the reset dongle into the VIDA Link port.

   The rear-panel indicators produce the following subsequent light chases:

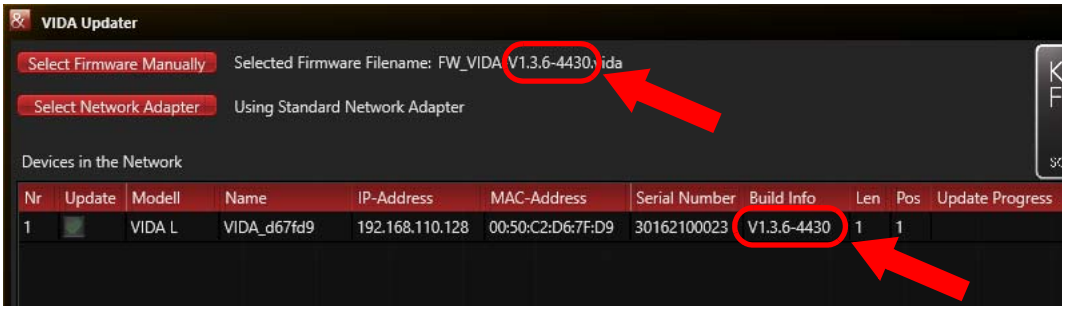
   - Green, from left to right
   - Orange, from left to right
   - Red, from left to right
2. If you remove the dongle at this time, the indicators will flash red twice. Meaning that the reset operation has been canceled.
3. If you don't remove the dongle, the indicators will flash green twice. That means you have to restart the speaker to complete the reset process.
4. Restart the speaker by disconnecting it from the power supply for at least 3 seconds.
5. When the restart is complete, all editable user data and network settings have been reset.



12 Updates

12.1 Firmware Update

1. Connect the speakers to the mains.
2. Add the speakers to your network.
3. Download the VIDA Firmware Updater from our website (**www.kling-freitag.de**).
4. Unzip the file and run the executable.
5. Wait a moment until the software has found the speakers on the network and has selected the current firmware on the K&F server.
6. Compare the version numbers of the current firmware ("Build Info") on the server with the installed speaker firmware.
7. If the firmware version installed on the speaker is lower than the version number on the K&F server, perform a firmware update.



8. Follow the instructions in the Quick Start Guide included in the ZIP file of the VIDA Firmware Updater.

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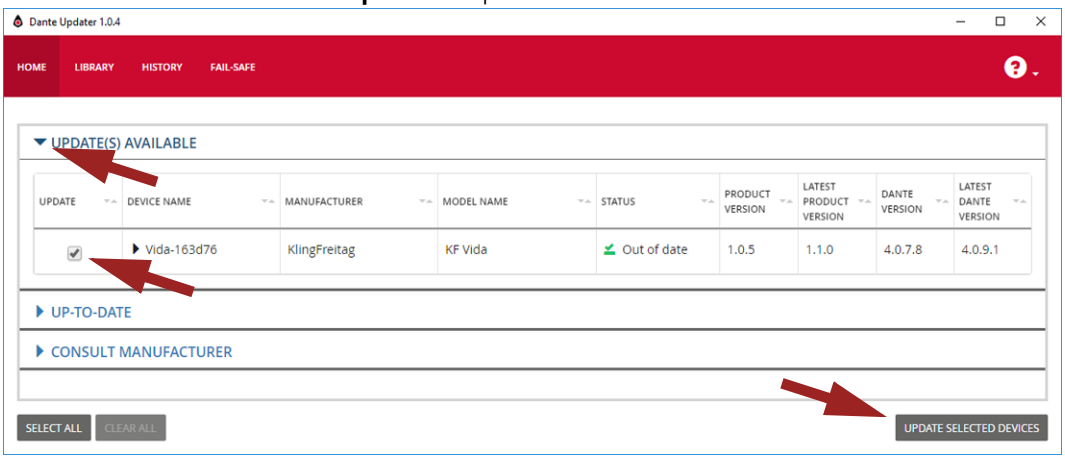
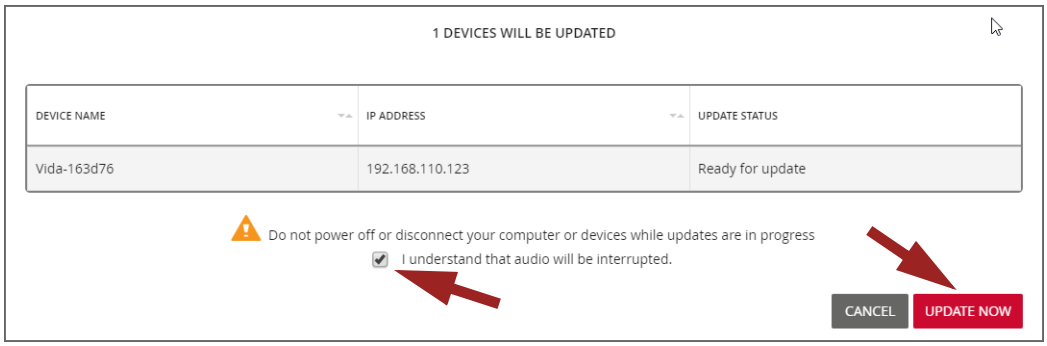
12.2 Dante Update

1. Connect the speakers to the mains.
2. Add the speakers to your network.
3. If the **Dante Controller** application is already installed, proceed to step 10.
4. Visit https://www.audinate.com/products/software/dante-controller.
5. Select your operating system.
6. Click the **Dante Controller v…** button.
7. Select **I need to create an account** to create a new account, or click **I have an account** to log in using your existing credentials.
8. Click **Downloadfile: Dante Controller-….exe** and save the file.
9. Launch the saved executable and follow the installation instructions.
10. Run the **Dante Controller** program.
11. To launch the Dante updater, click the button.
    OR: Select View > **Dante Updater** or press CTRL+U.

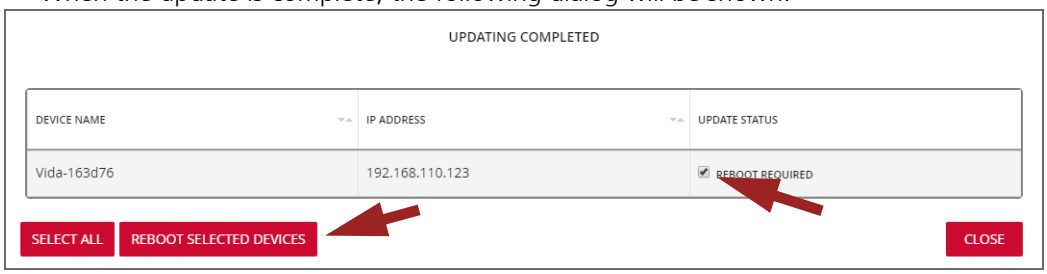


12. Open the **UPDATES AVAILABLE** menu.
13. Select the checkbox for the speakers you want to update.
14. Click **UPDATE SELECTED DEVICES**.



15. Select the checkbox to confirm that you understand that audio will be interrupted during the update process.
16. Click **UPDATE NOW**.

When the update is complete, the following dialog will be shown:



17. Check the REBOOT REQUIRED box.

- Click the REBOOT SELECTED DEVICES button to reboot the updated speaker(s).

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13 Care and Maintenance

The K&F VIDA L system can exhibit signs of wear over the years, for example, from mechanical strain, transport damage, corrosion, or improper handling. Signs of wear typically indicate an increased safety risk.

In general, check the speaker and accessories for signs of wear at regular intervals.

When performing those checks, particularly look for deformations, cracks, dents, damage to threads, and corrosion. Also check slings and lifts (e.g. shackles, chains, and steel ropes) carefully for wear and deformation.

If as a result of these checks any uncertainty should arise with regard to safety or defects are found, don't use the speaker any longer. Contact your retailer.

Inspection regulations may vary depending on application and country of use. Observe all applicable regulations; If in doubt, contact local authorities.

Many countries require regular inspection of mounting components and accessories. An additional annual inspection is typically required to be performed by a technical expert. Moreover, a legally certified or official authority must perform a detailed inspection every four years.

Therefore, be sure to maintain an inspection log. Enter the values determined for each speaker and accessory during the periodic checks into this log. This way, relevant data are always at hand in case of inspection. This inspection log book shall be updated with the inspection steps, test intervals and parts lists.

14 Transportation and Storage

Store the product in a dry place. Also, transport under dry conditions only.

During prolonged storage, ensure sufficient ventilation.

Avoid vibrations during transport.

Avoid mechanical stress during transport and storage, so the product is not damaged.

We recommend storing VIDA L speakers inside a VIDA L transportation case (see the »Accessories« Chapter on page 9).

15 Disposal

This symbol on the electronic equipment indicates that the product must not be disposed of with household waste.

15.1 Germany

Don’t dispose of waste electrical equipment through household waste. All KLING & FREITAG products are plain business-to-business (B2B) products. Don’t deliver it to official recycling points either.

KLING & FREITAG GmbH is exclusively responsible for disposing of all KLING & FREITAG waste equipment marked with a crossed-out garbage-can icon. Please call the below phone number when you have a KLING & FREITAG product for disposal. We will offer you a straightforward and professional disposal at no cost.

For further disposal information of KLING & FREITAG waste products, call **+49 511 -96 99 7 -0**

The WEEE registration number of KLING & FREITAG GmbH is: DE64110372.

15.2 EU, Norway, Iceland, and Liechtenstein

The local distributor (sales partner) in the respective country is responsible for complying with the national implementation of the WEEE directive.

Contact your retailer or the local authorities for information on the regulations applicable in any EU member state (except Germany).

15.3 All Other Countries

Contact your retailer or the local authorities for information on the regulations applicable in any country not listed above.

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16 EC Declaration of Conformity

Representative authorized for compiling the technical documentation:	Kling & Freitag GmbH Junkersstraße 14 30179 Hanover Germany
Produkt:	Kling & Freitag GmbH Dept. R&D 049 (0)511 96997-50 Germany
Product:	Speaker System K&F VIDA L
Named Company of the examination:	Test Report No. 028-713069561-000 TÜV SÜD Product Service GmbH Certification Body Ridlerstraße 65 80339 München Germany

We declare that the designated product(s) are in conformity with the protection requirements imposed by the following EU directives:

- 2014/35/EU, Low Voltage Directive
- 2014/30/EU, Electromagnetic Compatibility
- 2011/65/EU, RoHS II

Conformance of the products with the requirements is approved by compliance with the following harmonized European standards:

- DIN EN/ISO 60065 : 2002/A12:2011
- Eurocode 1/DIN EN 1991-1-1 : 12/2010
- Eurocode 3/DIN EN 1993-1-1 : 12/2010
- Eurocode 9/DIN EN 1999-1-1 : 12/2010
- EN 55103+1 : 2009+A1 : 2012
- EN 55103-2 : 2009

National regulations:

- DGUV, Regulation 15 (BGV C1)

Hannover, 09 November 2017

Jürgen Freitag
(Geschäftsführer)

THANK YOU FOR CHOOSING K&F.

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