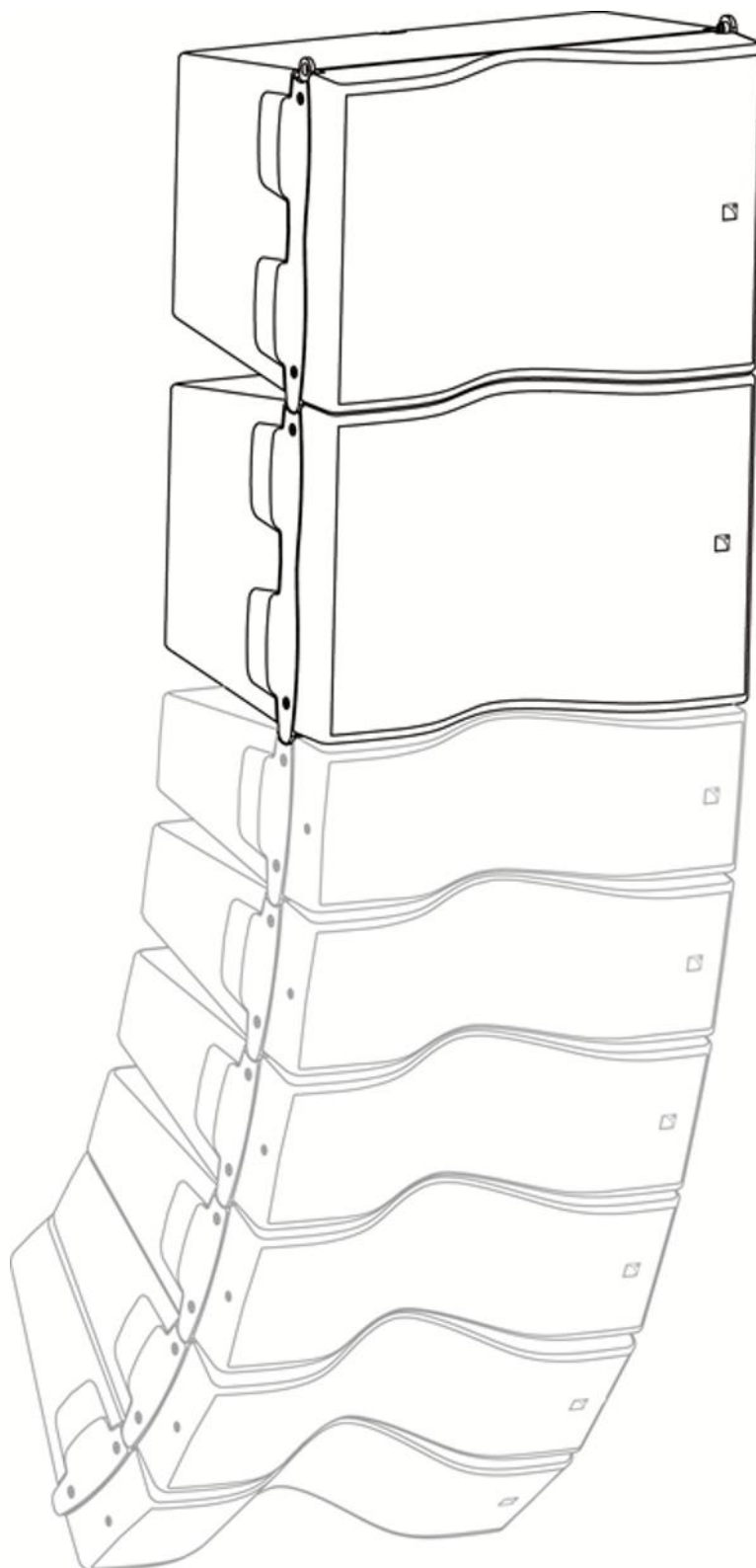


KIVA SYSTEM KIVA KILO

USER MANUAL

VERSION 2.1



SAFETY INSTRUCTIONS

1. **Read this manual**
2. **Heed all SAFETY INSTRUCTIONS as well as DANGER and OBLIGATION warnings**
3. **Never incorporate equipment or accessories not approved by L-ACOUSTICS®**
4. **Read all the related PRODUCT INFORMATION documents before exploiting the system**
The product information document is included in the shipping carton of the related system component.
5. **Read the RIGGING MANUAL before installing the system**
Use the rigging accessories described in the rigging manual and follow the associated procedures
6. **Beware of sound levels**
Do not stay within close proximity of loudspeakers in operation and consider wearing earplugs.
Loudspeaker systems are capable of producing very high sound pressure levels (SPL) which can instantaneously lead to permanent hearing damage to performers, production crew and audience members. Hearing damage can also occur with prolonged exposure to sound: 8 h at 90 dB(A), 30 min at 110 dB(A), less than 4 min at 130 dB(A).

SYMBOLS

The following symbols are used in this document:



DANGER

This symbol indicates a potential risk of harm to an individual or damage to the product.
It can also notify the user about instructions that must be strictly followed to ensure safe installation or operation of the product.



OBLIGATION

This symbol notifies the user about instructions that must be strictly followed to ensure proper installation or operation of the product.



INFORMATION

This symbol notifies the user about complementary information or optional instructions.



WELCOME TO L-ACOUSTICS®

Thank you for choosing the L-ACOUSTICS® KIVA KILO SYSTEM.

This document contains essential information on using the system properly. Carefully read this document in order to become familiar with the system.

As part of a continuous evolution of techniques and standards, L-ACOUSTICS® reserves the right to change the specifications of its products and the content of its document without prior notice.

Please check the L-ACOUSTICS® web site on a regular basis to download the latest document and software updates:
www.l-acoustics.com.

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KIVA SYSTEM KIVA KILO

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VERSION 2.1

KIVA KILO SYSTEM

The L-ACOUSTICS® KIVA KILO SYSTEM is a reference in line source technology. Packaged in a sleek fully integrated ultra-compact design, it fulfills the highest demands of both the fixed installation and rental production markets and provides the audio professionals with the ultimate performance level in its category. Utilizing the unrivalled characteristics of WST® (Wavefront Sculpture Technology), the KIVA KILO system delivers clarity, precision, and a unique proximity effect, for the audience to enjoy an incomparable listening experience.

The main system components are as follows:

- KIVA, full-range element, operating from 80 to 20 kHz;
- KILO, low-frequency element, operating down to 50 Hz;
- LA4, LA4X or LA8 amplified controller.

The KIVA line source delivers a considerable number of improvements over the traditional sound reinforcement approach, particularly with regard to the intelligibility and overall clarity of vocal material.

The KIVA line source, although compact by design, allows even coverage of extremely large acoustic environments where the number of elements (height of the array) constitutes the main factor in establishing the system throw, coverage pattern, and directivity control parameters. With a fixed horizontal directivity of 100° and a vertical inter-element variation of up to 15°, the KIVA line source is fully configurable to match any audience geometry.

Packaged in a lightweight and compact enclosure, in addition to a virtually invisible captive rigging system, the KIVA KILO system combines extremely quick set up and system integration with significant savings on storage and handling logistics. Thanks to its compact format, the KIVA system is adapted to installation in theatres, performing art centres, concert halls, convention centres, sport facilities, and TV/Broadcast studios. Before installation, any system configuration can be acoustically and mechanically modeled with the SOUNDVISION 3D simulation software.

The LA4, LA4X and LA8 amplified controllers and their preset library constitute an extremely advanced and precise drive system for the enclosures. All L-ACOUSTICS® amplified controllers feature the L-DRIVE, a thermal and over-excursion protection circuit.

Up to 253 LA8 amplified controllers can be connected together via the Ethernet-based L-NET protocol. The LA NETWORK MANAGER software allows online remote control and monitoring of all the connected units, via a user-friendly and intuitive graphic interface, and features the Array Morphing EQ. This exclusive tool allows the engineer to quickly adjust the tonal balance of the system to reach a reference curve or to ensure consistency of the sonic signature.

1 SYSTEM COMPONENTS

The system approach developed by L-ACOUSTICS® consists in offering a global solution that guarantees the highest and most predictable level of performance at any step of loudspeaker system deployment: modeling, installation, and operation. A complete L-ACOUSTICS® system includes enclosures, amplified controllers, cables, rigging system and software applications.

1.1 Loudspeaker enclosure

| | |
|------|---|
| KIVA | Full-range (80 Hz – 20 kHz), 2-way passive, variable curvature WST® |
| KILO | Dedicated low-frequency enclosure (down to 50 Hz) |
| SB18 | Subwoofer (down to 32 Hz) |



Loudspeaker system design

Sound design aspects are beyond the scope of this document. However, the various applications of the system will be based on the loudspeaker configurations presented in this document.

1.2 Powering and driving system

| | |
|---------------------|---|
| LA4, LA4X or LA8 | Amplified controller with DSP, preset library and networking capabilities |
|---------------------|---|



Operating instructions

Refer to the **LA4, LA4X and LA8 user manual**.

1.3 Loudspeaker cables

| | |
|-----------------------------------|---|
| DO cables (DO.7, DO10, DO25) | 8-point PA-COM® loudspeaker cables (4 mm² section). Respective lengths of 0.7 m/2.3 ft, 10 m/32.8 ft, and 25 m/82 ft. |
| DOSUB-LA8 | Breakout cable for four passive enclosures. 8-point PA-COM® to 4 × 2-point SpeakON® (4 mm² section). |
| SP cables (SP.7, SP5, SP10, SP25) | 4-point SpeakON® loudspeaker cables (4 mm² section). Respective lengths of 0.7 m/2.3 ft, 5 m/16.4 ft, 10 m/32.8 ft and 25 m/82 ft. |
| SP-Y1 | Breakout cable for two passive enclosures. 4-point SpeakON® to 2 × 2-point SpeakON® (2.5 mm² section). Provided with CC4FP adapter. |



Information about the connection of the enclosures to the LA amplifiers is given in this document. Refer to the **LA4, LA4X and LA8 user manuals** for detailed instructions about the whole cabling scheme, including modulation cables and network.

1.4 Rigging element



Rigging elements or procedures are not presented in this document. Refer to the **KIVA KILO SYSTEM rigging manual**.

1.5 Software application

| | |
|--------------------|---|
| SOUNDVISION | Proprietary acoustical and mechanical 3D modeling software. |
| LA NETWORK MANAGER | Remote control and monitoring of amplified controllers |



Using L-ACOUSTICS® software

Refer to the **SOUNDVISION user manual** and the **LA NETWORK MANAGER tutorial**.

KIVA SYSTEM KIVA KILO USER MANUAL

VERSION 2.1



KIVA



SB18



KILO



CC4FP



LA4



LA4X



SPY1



LA8



DO.7



SP7



DO3WFILL



DO10



SP5



DOSUB-LA8



DO25



SP10



SP25



SOUNDVISION



LA Network Manager

KIVA KILO system components (excluding rigging elements and modulation cables)

2 LOUDSPEAKER CONFIGURATIONS


2.1 Line source


In this configuration – where a KIVA line source is used alone – the system operates over the nominal bandwidth of the enclosure.

The [KIVA] preset allows for a reference frequency response in medium to long throw applications.

This configuration is driven by the LA4, LA4X or LA8 amplified controller.

Standalone KIVA line source





Enclosure | [PRESET]
KIVA | ► **[KIVA]**

Frequency range (-10 dB)
80 Hz – 20 kHz

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2.2 Line source with low-frequency element

In this configuration – where a KIVA line source is used with the KILO low-extension and optional SB18 subwoofers – the bandwidth of the KIVA system is extended in the low-end.

The [KIVA] preset allows for a reference frequency response in medium to long throw applications.

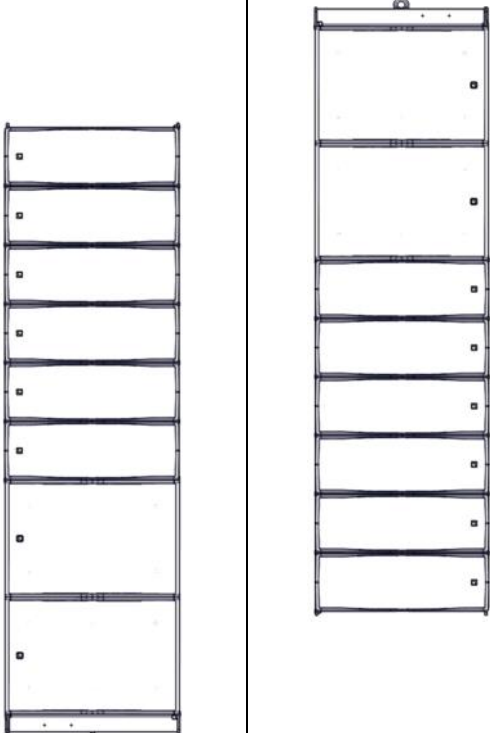
The [KILO] preset provides a 100 Hz upper frequency limit for the KILO.

The [KIVA_KILO] preset combines the [KIVA] and [KILO] presets to facilitate the use of this configuration.

The [SB18_60] preset provides a 60 Hz upper frequency limit for the SB18.

This configuration is driven by the LA4, LA4X or LA8 amplified controller.

KIVA/KILO line source



| | |
|---------------------------------|---------------|
| <u>Enclosure</u> | [PRESET] |
| KIVA + KILO | ► [KIVA_KILO] |
| Or | |
| KIVA | ► [KIVA] |
| KILO | ► [KILO] |
| <u>Frequency range (-10 dB)</u> | |
| 50 Hz – 20 kHz | |
| <u>Recommended ratio</u> | |
| 3 KIVA : 1 KILO | |



Delay settings

When combining a line source with subwoofers, delays may have to be added to the presets.

Refer to the **LA4, LA4X or LA8 PRESET LIBRARY user manual** to obtain the pre-alignment delay values.

The [KIVA_KILO] hybrid preset does not allow delay or polarity definition for the subwoofer output channel.

When delay or polarity need to be defined for this channel, it is necessary to build a custom preset with the [KIVA] and [KILO] presets.

Refer to the **LA NETWORK MANAGER tutorial** for detailed instructions

KIVA/KILO line source with SB18 subwoofer



| | |
|------------------|---------------|
| <u>Enclosure</u> | [PRESET] |
| KIVA + KILO | ► [KIVA_KILO] |
| SB18 | ► [SB18_60] |

Or

| | |
|------|-------------|
| KIVA | ► [KIVA] |
| KILO | ► [KILO] |
| SB18 | ► [SB18_60] |

Frequency range (-10 dB)

32 Hz – 20 kHz

Recommended ratio

3 KIVA : 1 KILO : 1 SB18



Delay settings

When combining a line source with subwoofers, delays may have to be added to the presets.

Refer to the **LA4, LA4X or LA8 PRESET LIBRARY user manual** to obtain the pre-alignment delay values.

The [KIVA_KILO] hybrid preset does not allow delay or polarity definition for the subwoofer output channel.

When delay or polarity need to be defined for this channel, it is necessary to build a custom preset with the [KIVA] and [KILO] presets.

Refer to the **LA NETWORK MANAGER tutorial** for detailed instructions



Use [SB18_60_C] with a SB18 subwoofer array in cardioid configuration

The cardioid configuration consists in reversing 1 element in an array of 4 subwoofers.

Refer to the **SB18 user manual** for details about the CARDIOID mode.

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USER MANUAL

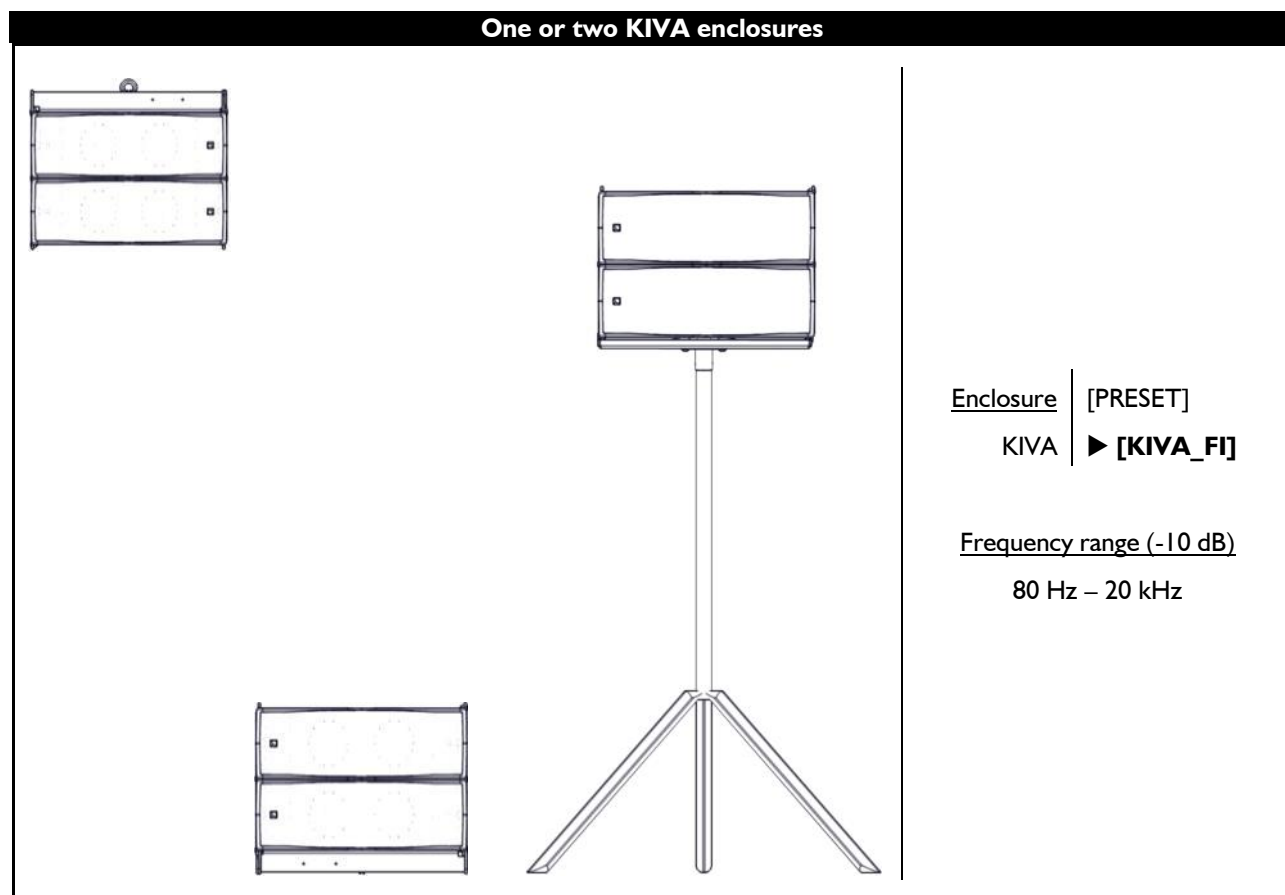
VERSION 2.1

2.3 Line source element

In this configuration – where one or two KIVA enclosures are used without complementary subwoofers – the system operates over the nominal bandwidth of the enclosure.

The [KIVA_FI] preset allows for a reference frequency response in short throw applications.

This configuration is driven by the LA4, LA4X or LA8 amplified controller.



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3.2 Connection to LA4 / LA4X



Maximum of enclosures per LA4 / LA4X

Two KIVA, two KILO, in parallel, or one SB18 enclosures can be connected to each output channel on the LA4 / LA4X. Therefore, a single LA4 / LA4X amplified controller can drive up to :

- 8 × KIVA or
- 8 × KILO or
- 6 × KIVA and 2 × KILO or
- 4 × SB18m.

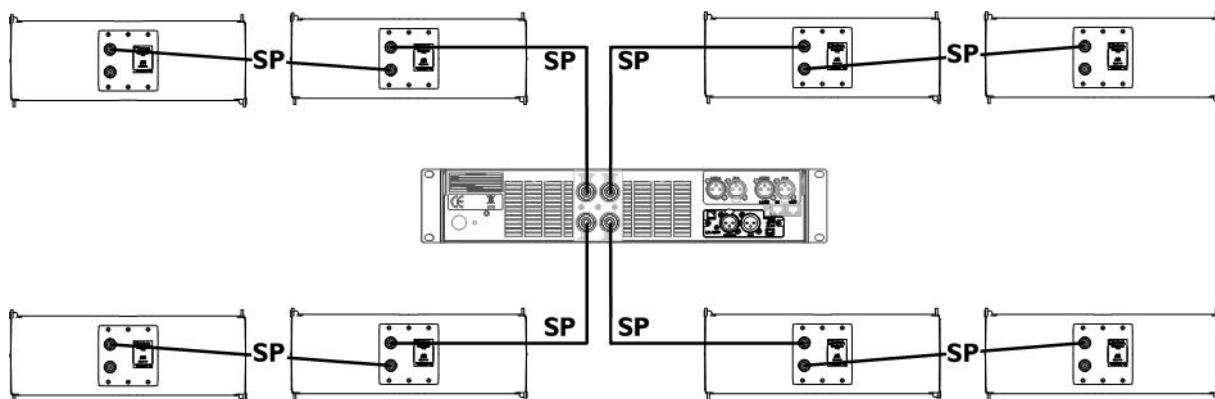


Impedance load

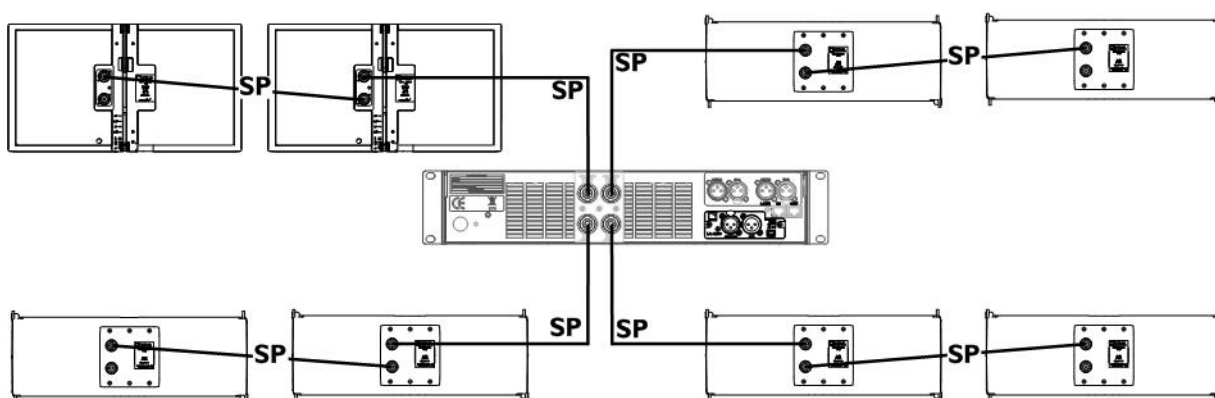
8 Ω for 1 enclosure, 4 Ω for 2 enclosures in parallel.

Option A

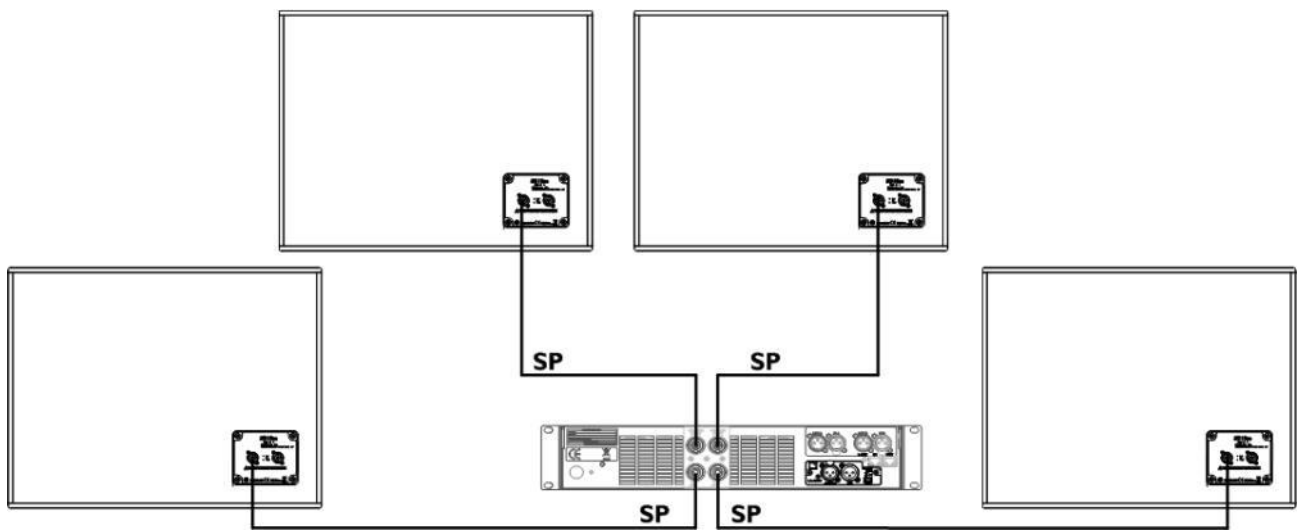
- Use **SP cables** (SP.7, SP5, SP10 or SP25) to connect first enclosures to the four LA4 / LA4X output channels.
- If necessary, use **SP cables** to connect additional KIVA enclosures in parallel with the first ones.



LA4 / LA4X option A maximum configuration with KIVA



LA4 / LA4X option A maximum configuration with KIVA and KILO



LA4 / LA4X option A maximum configuration with SB18

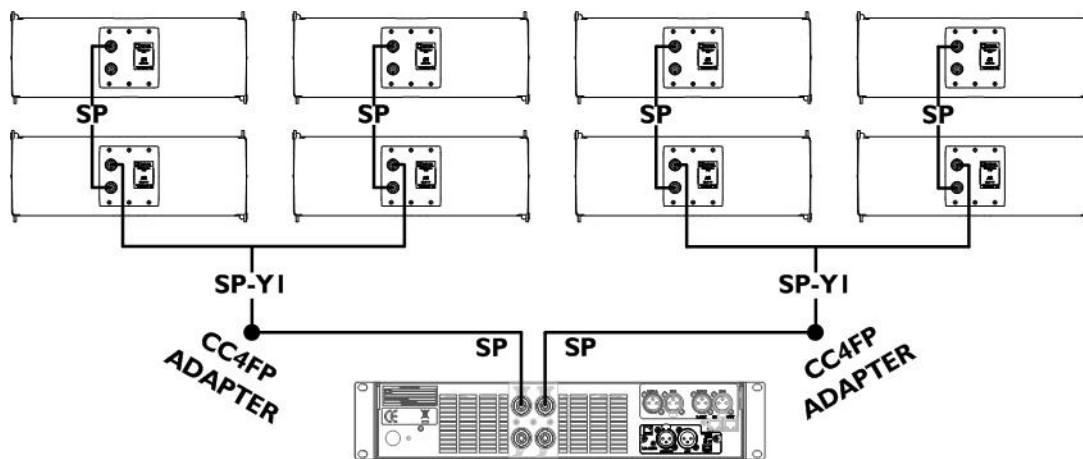
KIVA SYSTEM KIVA KILO

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Option B

- Connect an **SP cable** (SP.7, SP5, SP10 or SP25) to the OUT1/OUT2 and OUT3/OUT4 connectors of the LA4 / LA4X.
- Use a **CC4FP adapter** to connect an **SP-YI cable** and separate the two output channels.
- If necessary, use **SP cables** to connect additional KIVA enclosures in parallel with the first ones.

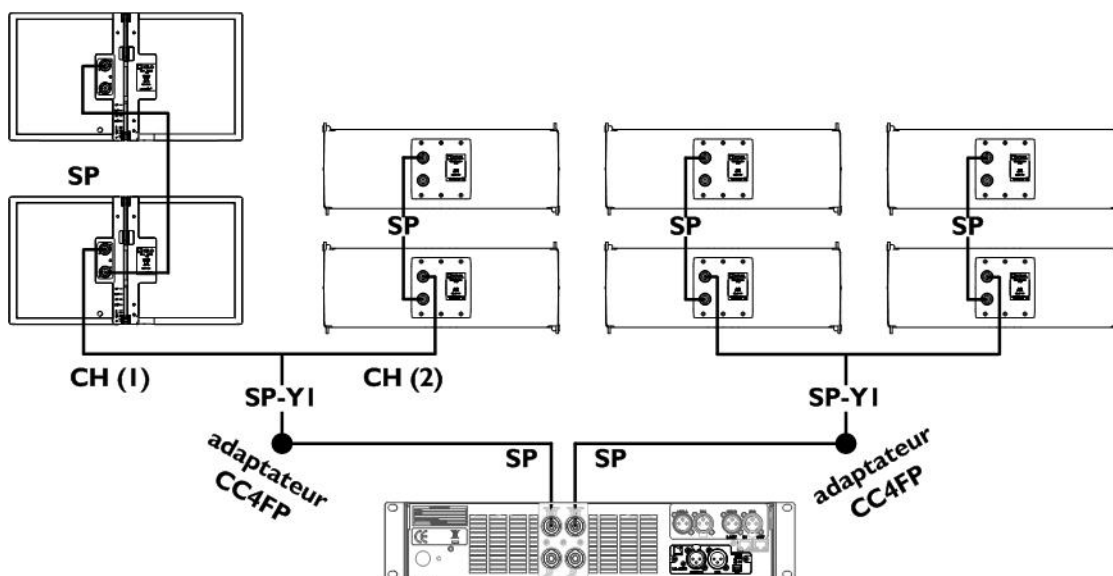


LA4 / LA4X option B maximum configuration with KIVA

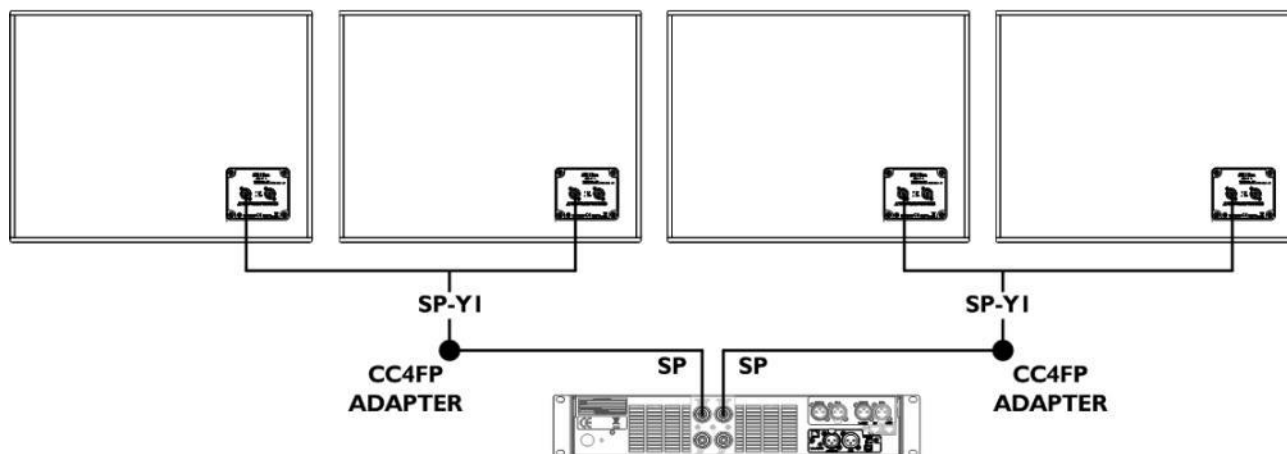


KILO on SP-YI CH (I) connector

Always connect the **CH (I)** connector of the SP-YI cable to the KILO enclosure when using this cabling scheme with the [KIVA-KILO] preset.



LA4 / LA4X option B maximum configuration with KIVA and KILO



LA4 / LA4X option B maximum configuration with SB18

KIVA SYSTEM KIVA KILO

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3.3 Connection to LA8



Maximum of enclosures per LA8

Three KIVA, three KILO or two SB18 enclosures can be connected in parallel to each output channel on the LA8. Therefore, a single LA8 amplified controller can drive up to :

- 12 × KIVA or
- 12 × KILO or
- 9 × KIVA and 3 × KILO or
- 8 × SB18m.



Impedance load

8 Ω for 1 enclosure, 4 Ω for 2 enclosures, 2.7 Ω for 3 enclosures

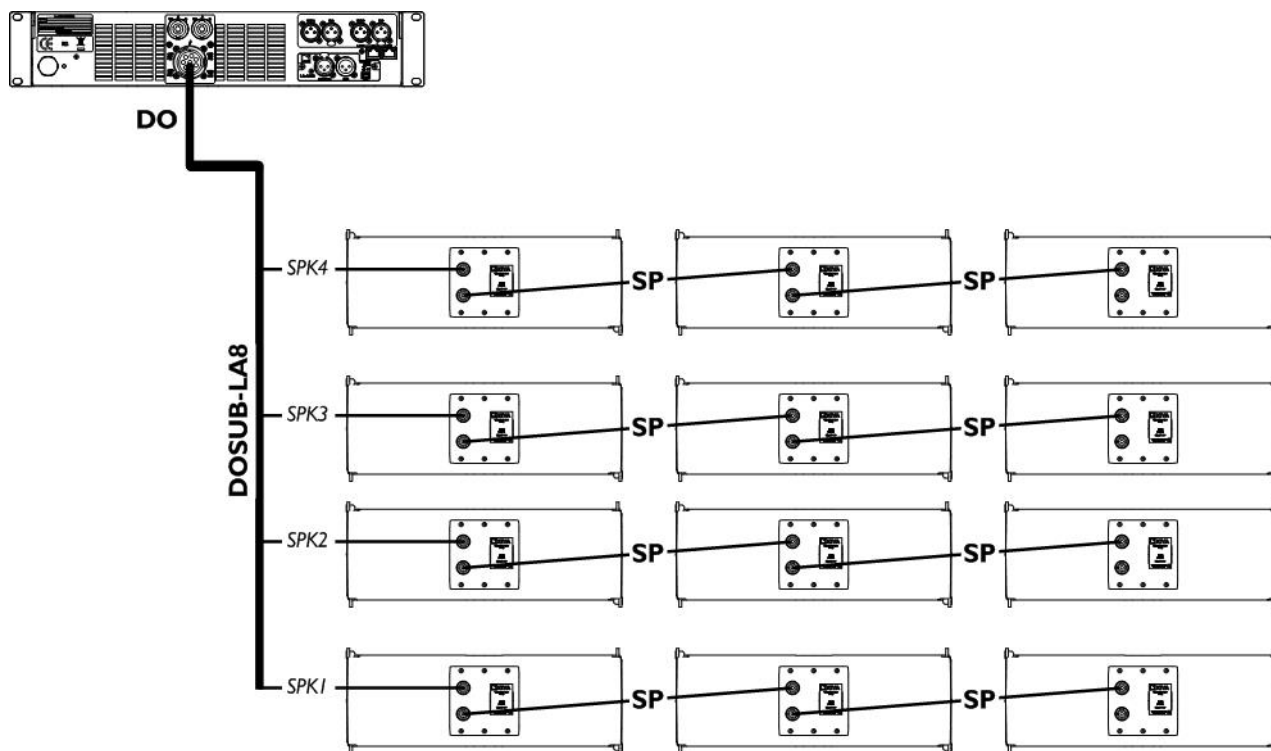
Option A

- ▶ Connect a **DO cable** (DO.7, DO10 or DO25) to the LA8 PA-COM[®] connector
- ▶ Use the **DOSUB-LA8** to separate the four output channels.
- ▶ If necessary, use **SP cables** to connect additional similar enclosures in parallel with the first ones.

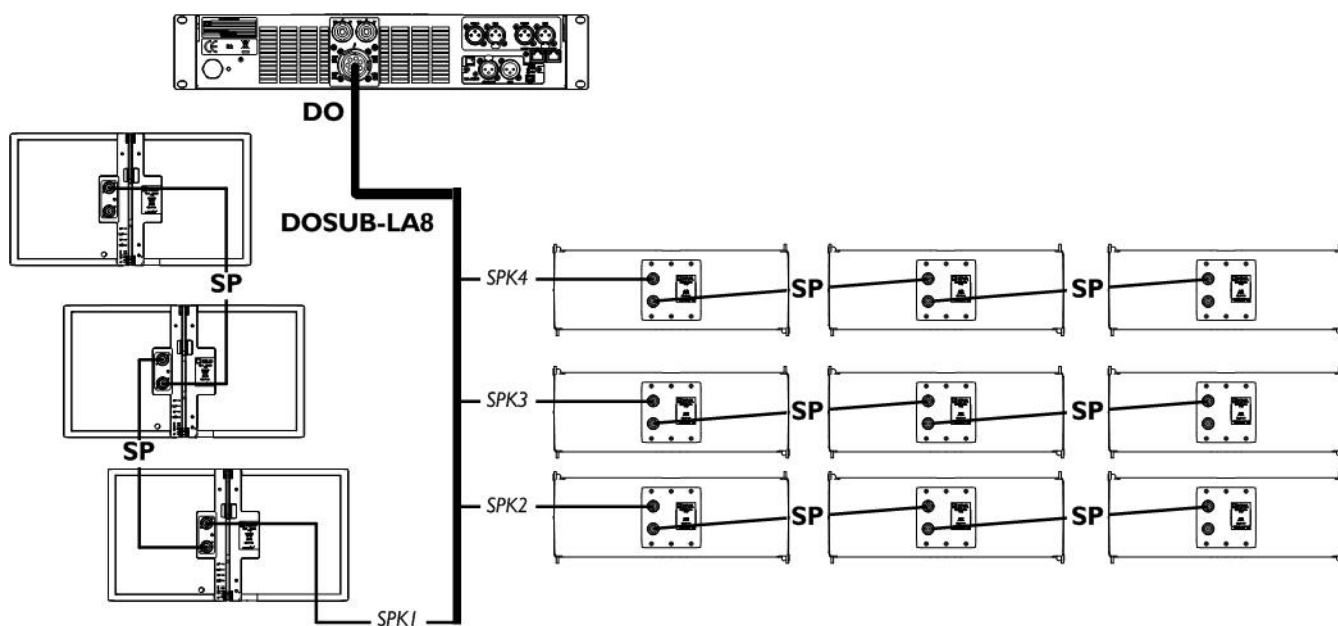


Corresponding DOSUB-LA8 SpeakON[®] points and LA8 output channels:

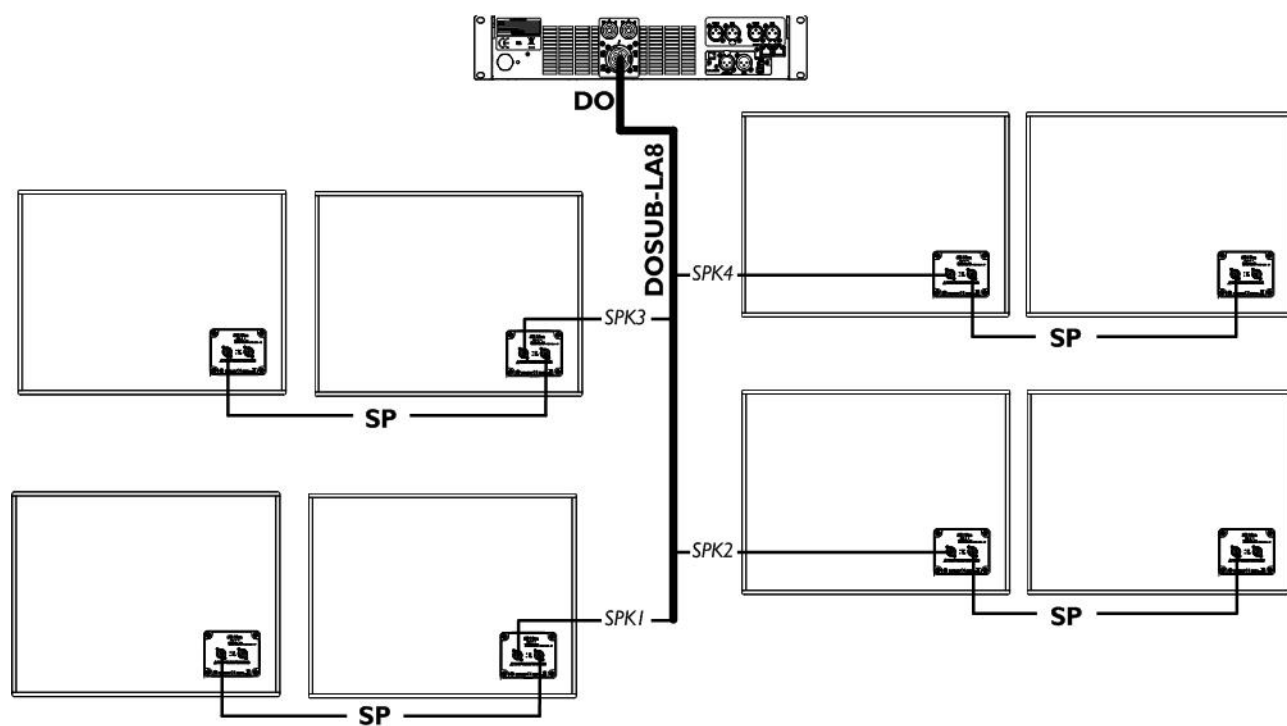
| | |
|--------------|--------------|
| SPK1 = OUT 1 | SPK3 = OUT 3 |
| SPK2 = OUT 2 | SPK4 = OUT 4 |



LA8 option A maximum configuration with KIVA



LA8 option A maximum configuration with KIVA and KILO



LA8 option A maximum configuration with SB18

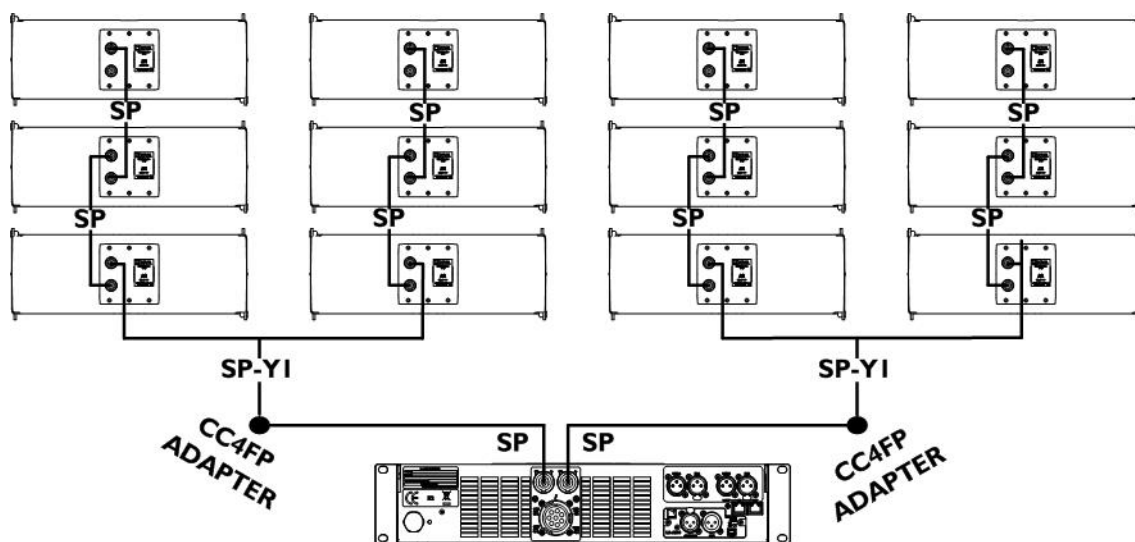
KIVA SYSTEM KIVA KILO

USER MANUAL

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Option B

- ▶ Connect an **SP** cable (SP.7, SP5, SP10 or SP25) to the OUT1/OUT2 and OUT3/OUT4 LA8 SpeakON® connectors.
- ▶ Use a **CC4FP adapter** to connect an **SP-YI** cable and separate the two output channels.
- ▶ If necessary, use **SP** cables to connect additional similar enclosures in parallel with the first ones.

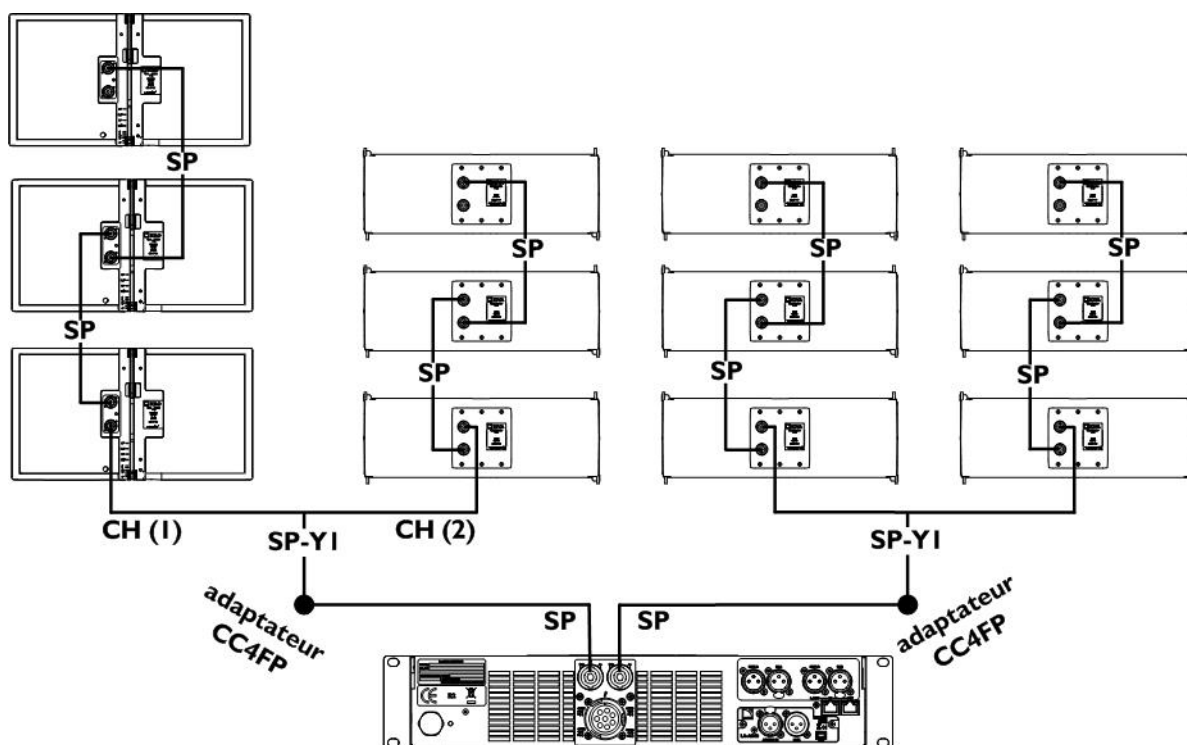


LA8 option B maximum configuration with KIVA

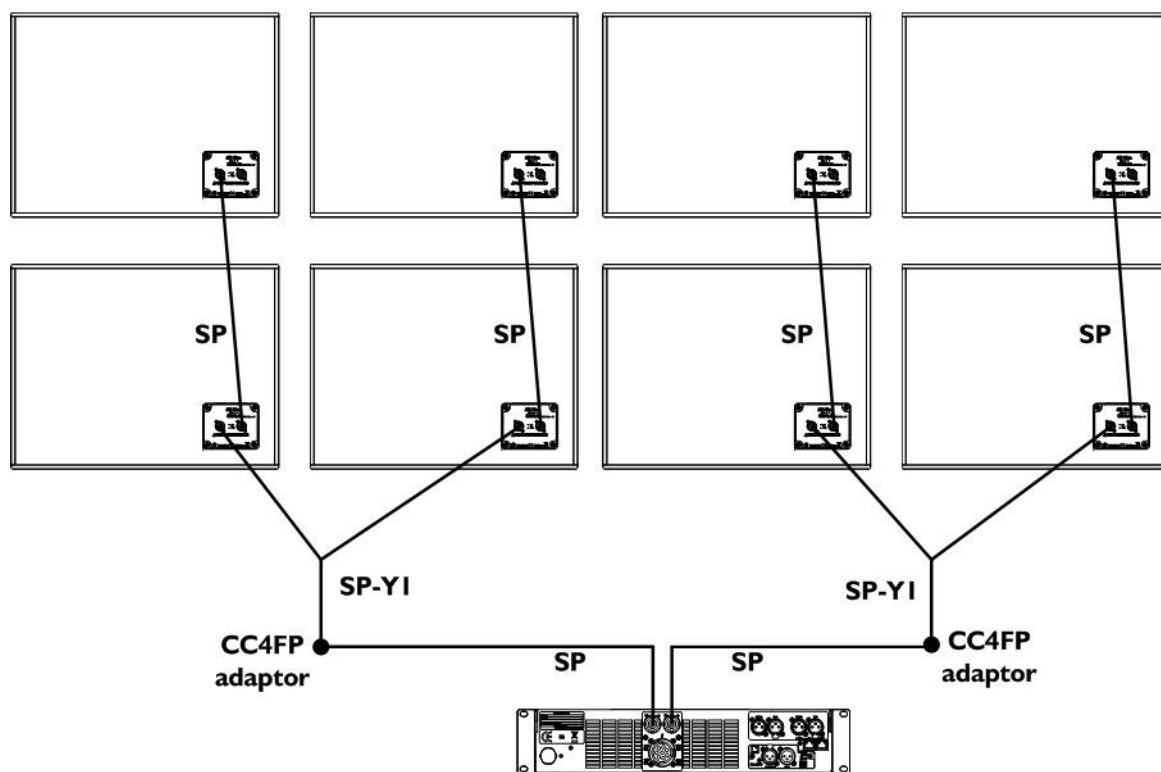


KILO on SP-YI CH (I) connector

Always connect the **CH (I)** connector of the SP-YI cable to the KILO enclosure when using this cabling scheme with the [KIVA-KILO] preset.



LA8 option B maximum configuration with KIVA and KILO



LA8 option B maximum configuration with SB18

KIVA SYSTEM KIVA KILO

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APPENDIX A PRESET DESCRIPTION



For more information about the presets (design, pre-alignment values, acoustic properties) refer to the **LA4-LA8 Preset guide**.

[KIVA]

The [KIVA] preset allows for a reference frequency response in medium to long throw applications.

| Loudspeaker elements | Amplifier outputs | Channels | Default parameters | | | | |
|----------------------|-------------------|----------|--------------------|------|-------|----------|------|
| | | | Routing | Gain | Delay | Polarity | Mute |
| KIVA | OUT 1 | PA | IN A | 0 dB | 0 ms | + | ON |
| KIVA | OUT 2 | PA | IN A | 0 dB | 0 ms | + | ON |
| KIVA | OUT 3 | PA | IN A | 0 dB | 0 ms | + | ON |
| KIVA | OUT 4 | PA | IN A | 0 dB | 0 ms | + | ON |

* A, B: channel A or B PA: passive output

[KIVA_FI]

The [KIVA_FI] preset allows for a reference frequency response in short throw applications.

| Loudspeaker elements | Amplifier outputs | Channels | Default parameters | | | | |
|----------------------|-------------------|----------|--------------------|------|-------|----------|------|
| | | | Routing | Gain | Delay | Polarity | Mute |
| KIVA | OUT 1 | PA | IN A | 0 dB | 0 ms | + | ON |
| KIVA | OUT 2 | PA | IN A | 0 dB | 0 ms | + | ON |
| KIVA | OUT 3 | PA | IN B | 0 dB | 0 ms | + | ON |
| KIVA | OUT 4 | PA | IN B | 0 dB | 0 ms | + | ON |

* A, B: channel A or B PA: passive output

[KIVA_KILO]

The [KIVA_KILO] preset combines the [KIVA] and [KILO] presets to facilitate the use of this configuration.

| Loudspeaker elements | Amplifier outputs | Channels | Default parameters | | | | |
|----------------------|-------------------|----------|--------------------|------|-------|----------|------|
| | | | Routing | Gain | Delay | Polarity | Mute |
| KILO | OUT 1 | LF | IN A | 0 dB | 0 ms | + | ON |
| KIVA | OUT 2 | PA | | | | | ON |
| KIVA | OUT 3 | PA | | | | | ON |
| KIVA | OUT 4 | PA | | | | | ON |

* A, B: channel A or B LF: low-frequency output PA: passive output

[KILO]

The [KILO] preset provides a 100 Hz upper frequency limit for the KILO.

| Loudspeaker elements | Amplifier outputs | Channels | Default parameters | | | | |
|----------------------|-------------------|----------|--------------------|------|-------|----------|------|
| | | | Routing | Gain | Delay | Polarity | Mute |
| KILO | OUT 1 | SB | IN A | 0 dB | 0 ms | + | ON |
| KILO | OUT 2 | SB | IN A | 0 dB | 0 ms | + | ON |
| KILO | OUT 3 | SB | IN B | 0 dB | 0 ms | + | ON |
| KILO | OUT 4 | SB | IN B | 0 dB | 0 ms | + | ON |

* A, B: channel A or B SB: subwoofer output

[SB18_60]

The [SB18_60] preset provides a 60 Hz upper frequency limit for the SB18.

| Loudspeaker elements | Amplifier outputs | Channels | Default parameters | | | | |
|----------------------|-------------------|----------|--------------------|------|-------|----------|------|
| | | | Routing | Gain | Delay | Polarity | Mute |
| SB18m | OUT 1 | SB | IN A | 0 dB | 0 ms | + | ON |
| SB18m | OUT 2 | SB | IN A | 0 dB | 0 ms | + | ON |
| SB18m | OUT 3 | SB | IN B | 0 dB | 0 ms | + | ON |
| SB18m | OUT 4 | SB | IN B | 0 dB | 0 ms | + | ON |

* A, B: channel A or B SB: subwoofer output

[SB18_60_C]

The [SB18_60_C] preset provides a 60 Hz upper frequency limit for the SB18.

It feature optimized delay settings for subwoofers arrays in cardioid configuration.

| Loudspeaker elements | Amplifier outputs | Channels | Default parameters | | | | |
|----------------------|-------------------|----------|--------------------|------|-------|----------|------|
| | | | Routing | Gain | Delay | Polarity | Mute |
| Reversed SB18m | OUT 1 | SR | IN A | 0 dB | 0 ms | + | ON |
| SB18m | OUT 2 | SB | | | | | ON |
| SB18m | OUT 3 | SB | | | | | ON |
| SB18m | OUT 4 | SB | | | | | ON |

* A, B: channel A or B SB: subwoofer output SR: reversed subwoofer output

APPENDIX B RECOMMANDATION FOR SPEAKER CABLES



Cable quality and resistance

Only use high-quality fully insulated speaker cables made of stranded copper wire.

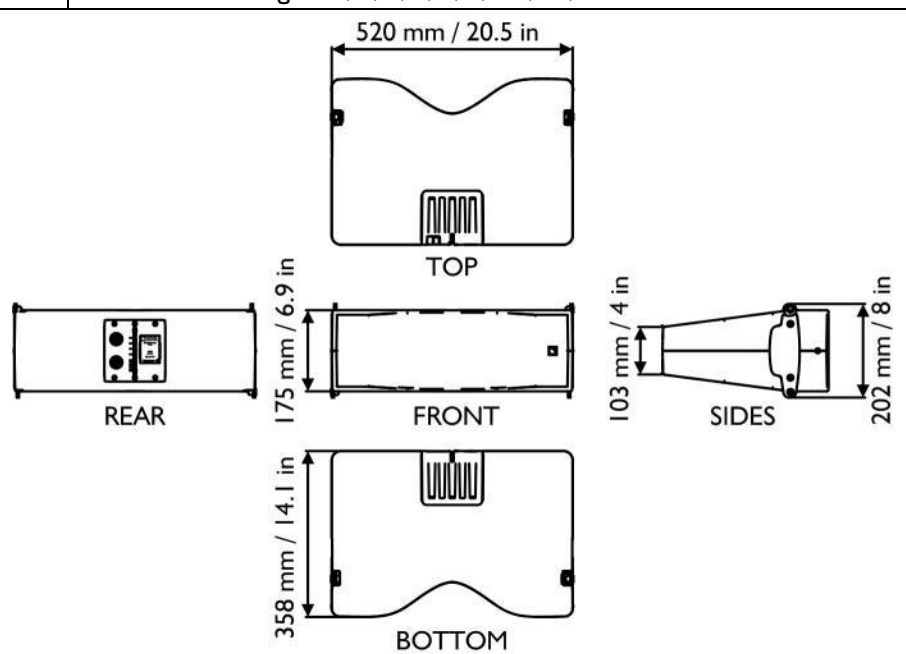
Use cables of gauge offering low resistance per unit length and keep the cables as short as possible.

The following table provides the recommended maximum length depending on the cable cross-section and on the impedance load connected to the amplifier.

| | | | Recommended maximum length | | | | | |
|---------------------|-----|-----|----------------------------|-----|-----------------|-----|-------------------|-----|
| Cable cross-section | | | 8 Ω load | | 4 Ω load | | 2.7 Ω load | |
| mm ² | SWG | AWG | m | ft | m | ft | m | ft |
| 2.5 | 15 | 13 | 30 | 100 | 15 | 50 | 10 | 33 |
| 4 | 13 | 11 | 50 | 160 | 25 | 80 | 17 | 53 |
| 6 | 11 | 9 | 74 | 240 | 37 | 120 | 25 | 80 |
| 10 | 9 | 7 | 120 | 390 | 60 | 195 | 40 | 130 |

APPENDIX C SPECIFICATIONS

KIVA

| | | |
|----------------------------------|--|--|
| Description | 2-way passive enclosure, amplified by LA4X or LA8 | |
| Usable bandwidth (-10 dB) | 80 Hz - 20 kHz ([KIVA] preset) | |
| Maximum SPL¹ | 130 dB ([KIVA] preset) | |
| Coverage angle (-6 dB) | Horizontal: 100° (from 500 Hz) | |
| | Vertical: depends on the number of elements and array curvature | |
| Transducers | LF: 2 × 6.5" , weather-resistant , bass-reflex | |
| | HF: 1 × 1.5" , diaphragm compression driver, DOSC® waveguide | |
| Nominal impedance | 8 Ω | |
| RMS power handling | 120 W | |
| Connectors | IN: 1 × 4-point SpeakON® | LINK: 1 × 4-point SpeakON® |
| Rigging components | Captive 3-point rigging system Inter-enclosure angles: 0, 1, 2, 3, 4, 5, 7.5, 10, 12.5 or 15° | |
| Dimensions |  <p>Technical drawings of the KIVA enclosure showing dimensions in mm and inches:</p> <ul style="list-style-type: none"> TOP: 520 mm / 20.5 in FRONT: 175 mm / 6.9 in REAR: 175 mm / 6.9 in BOTTOM: 358 mm / 14.1 in SIDES: 103 mm / 4 in and 202 mm / 8 in | |
| Physical data | Weight (net): | 13 kg / 28.7 lb |
| | Cabinet: | Composite sandwich structure |
| | Back plate: | ZAMAC |
| | Finish: | Dark grey Brown (Pantone 426C) Pure white (RAL 9010®) Custom RAL code on special order |
| | Front: | Plastic grill with anti-corrosion coating Airnet® acoustically neutral fabric |
| | Rigging components: | High strength steel with anti-corrosion coating |

¹ Peak level at 1 m under free field conditions using 10 dB crest factor pink noise with specified preset.

KIVA SYSTEM KIVA KILO

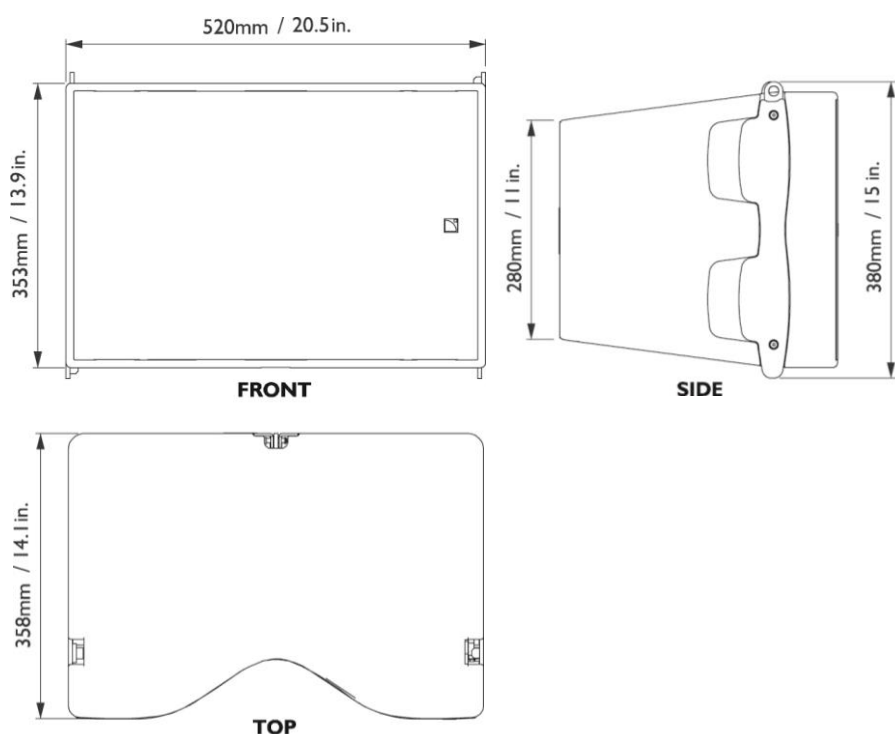
USER MANUAL

VERSION 2.1

KILO

| | | |
|-------------------------------------|--|----------------------------|
| Description | Low-frequency extension for KIVA, amplified by LA4X or LA8 | |
| Low frequency limit (-10 dB) | 50 Hz ([KIVA_KILO] preset) | |
| Maximum SPL¹ | 129 dB ([KIVA_KILO] preset) | |
| RMS power handling | 310 W | |
| Transducer | 1 x 12" neodymium weather-resistant transducer, dual bass-reflex | |
| Nominal impedance | 8 Ω | |
| Connectors | IN: 1 x 4-point SpeakON® | LINK: 1 x 4-point SpeakON® |
| Rigging components | Captive 3-point rigging system Inter-enclosure angles: 0, 1, 2, 3, 4, 5, 7.5, 10, 12.5 or 15° | |

Dimensions



| | | |
|----------------------|----------------------------|--|
| Physical data | Weight (net): | 19 kg / 41.9 lb |
| | Cabinet: | Baltic birch plywood |
| | Finish: | Grey brown (RAL 8019®) Pure white (RAL 9010®) Custom RAL code on special order |
| | Front: | Steel grill with anti-corrosion coating Airnet® acoustically neutral fabric |
| | Rigging components: | High strength steel with anti-corrosion coating |

¹ Peak level at 1 m under free field conditions using 10 dB crest factor pink noise with specified preset.



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