

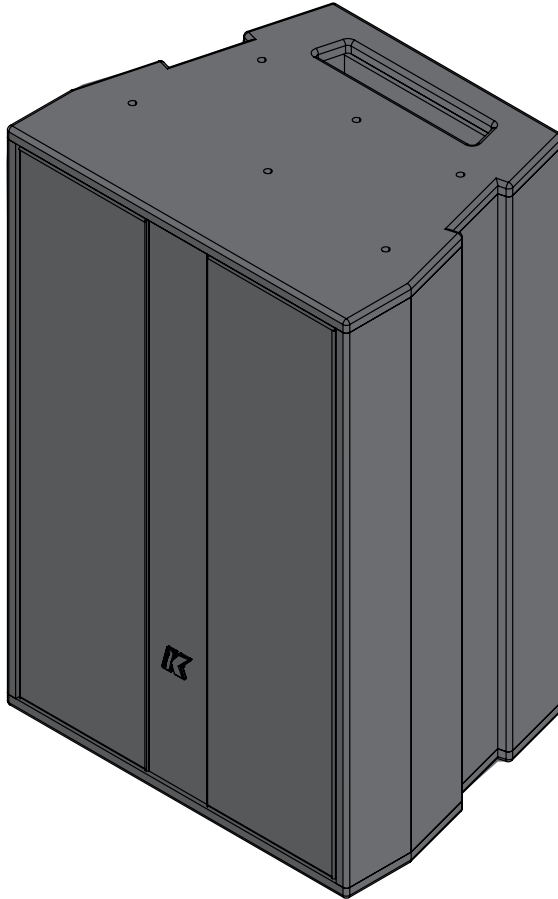
Dragon-KXT12P

Passive 12" triaxial full-range point source speaker for high SPL applications

USER GUIDE



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K-ARRAY
Unique Audio Solutions

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IMPORTANT SAFETY INSTRUCTIONS



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol alerts the user to the presence of recommendations about the product's use and maintenance.



The lighting flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated, dangerous voltage within the product enclosure that may be of magnitude to constitute a risk of electrical shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this guide.



Operator's manual; operating instructions

This symbol identifies the operator's manual that relates to the operating instructions and indicates that the operating instructions should be considered when operating the device or control close to where the symbol is placed.



For indoor use only

This electrical equipment is designed primarily for indoor use.



WEEE

Please dispose of this product at the end of its operational lifetime by bringing it to your local collection point or recycling center for such equipment.



This device complies with Restriction of Hazardous Substances Directive.



WARNING
Failure to follow these safety instructions could result in fire, shock or other injury or damage to the device or other property.

General heed and warnings

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
- Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Only use attachments/accessories specified by the manufacturer.
- Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
- Clean the product only with a soft and dry fabric. Never use liquid cleaning products, as this may damage the products cosmetic surfaces.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Avoid placing the product in a location under direct sunlight or near any appliance that generates UV (Ultra Violet) light, as this may change the product surface finishing and cause a change in color.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- WARNING: Only use attachments/accessories specified or provided by the manufacturer (such as the exclusive supply adapter, battery, etc.).
- Before turning the power on or off for all devices, set all volume levels to minimum.
- Use only speaker cables for connecting speakers to the speaker terminals.



This apparatus is intended for professional use.

Installation and commissioning may only be carried out by qualified and authorized personnel.

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- Be sure to observe the amplifier's rated load impedance particularly when connecting speakers in parallel. Connecting an impedance load outside the amplifier's rated range can damage the apparatus.
- K-array cannot be held responsible for damage caused by improper use of the loudspeakers.
 - K-array will not shoulder any responsibilities for products modified without prior authorization.

CE Statement

K-array declares that this device is in compliance with applicable CE standards and regulations. Before putting the device into operation, please observe the respective country-specific regulations!



Trademark Notice

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Thank you for choosing this K-array products!

To ensure proper operation, please carefully read the owner's manuals and safety instruction before using the products.

After reading this manual, be sure to keep it for future reference.

If you have any questions about your new device please contact K-array customer service at support@k-array.com or contact the official K-array distributor in your country.

The **Dragon-KXT** line showcases K-array's signature **tri-axial technology**, combining three acoustic axes in one enclosure for superior coherence and clarity. Iconic in design and performance, the **KXT12P**, the most compact model alongside the powerful KXT18P, forms a versatile duo ideal for live events, installations, and **high-SPL applications**.

The KXT12P is a high-output, full-range loudspeaker engineered for demanding professional use. Its advanced tri-axial design integrates a **12" high-excursion woofer with a 15" passive radiator and two coaxially mounted compression drivers (3" MF + 2" HF)**, ensuring excellent phase alignment and a wide, uniform dispersion.

Delivering up to **141 dB SPL (half space)** and a response from **63 Hz to 20 kHz (down to 52 Hz with Full-Range preset)**, the KXT12P provides powerful, full-spectrum sound. Its birch plywood enclosure minimizes resonance for superior acoustic integrity, while the removable front grille reveals the distinctive **coaxial horn assembly** that defines the Dragon aesthetic.

Key Features

- Transducer Configuration: 1 x 12" LF woofer + 15" passive radiator, 1 x 3" MF coaxial compression driver, 1 x 2" HF coaxial compression driver.
- Frequency Response (-6dB): 73 Hz - 20kHz
- Maximum SPL (half space): 144 dB
- Enclosure Material: Birch plywood
- Design Feature: Removable front grille to showcase the coaxial horn.

Applications*

- Medium-sized live sound reinforcement systems
- Stage monitoring and DJ setups
- Portable PA and touring systems
- Fixed installations in clubs, theaters, or multipurpose venues
- Situations requiring high SPL performance in a compact format.

* The configurations and applications described require dedicated accessories, which are sold separately from the loudspeaker.

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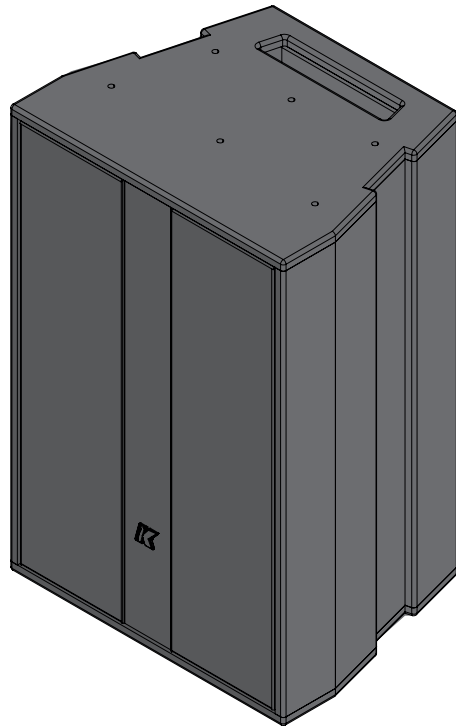
Unpacking

Package Contents

Each K-array product is built to the highest standard and thoroughly inspected before leaving the factory.

Upon arrival, carefully inspect the shipping carton, then examine and test your new device. If you find any damage, immediately notify the shipping company.

- A. 1x Dragon-KXT12P



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Getting Started

Follow these instructions to properly install and set up the loudspeaker:

- Unpack the Dragon-KXT12P and any purchased accessories required for the desired configuration.
- Verify that all components are intact and that the mounting surface or structure can safely support the loudspeaker's weight.
- Choose the appropriate installation setup for your application:
 - **Standalone use:** for standalone use, the KXT12P is equipped with a bottom-mounted M20 threaded hole for installation on standard speaker poles.
 - **Vertical Stack Installation on subwoofer:** for DJ monitoring or compact PA setups using K-PINM20 (vertical orientation) or K-SUBSTACKKXT1218 stacking kit.
 - **Vertical array or cluster configurations:** with K-FLYKXT1218V and K-JOINTKXT12.
 - **Horizontal array or cluster configurations:** with K-FLYKXT1218H (includes bumper and joining hardware).
 - **Wall-mount installation with K-UBRACKETKXT1218:** ensure structural safety and compliance with load capacity limits before securing the loudspeaker.
- Connect the loudspeaker to the amplifier or to an active subwoofer (e.g. Thunder-KS) using 2 × SpeakON NL4 cables wired as follows:
 - **1+ / 1-:** signal input
 - **2+ / 2-:** signal through

- Set the correct loudspeaker impedance with respect to the amplifier in use.
- In cluster or multi-element installations, ensure that load capacity and total impedance are within the amplifier's specifications.
- Power on the amplifier and the loudspeaker
 - from the amplifier Web App (KA or Thunder-KS), load the dedicated preset for the KXT12P to ensure proper system alignment.
- Make the necessary audio adjustments, and verify signal routing and polarity.
- Once setup is complete and the loudspeaker is securely mounted, switch on the music and enjoy!

Note: This Quick Guide provides only an overview of the available configurations and mounting options.

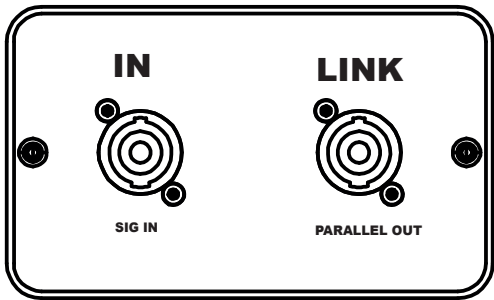
Detailed installation procedures, safety requirements, and configuration guidelines are covered in the complete User Guide.

Note: The K-UBRACKETKXT1218 bracket is compatible with all KXT models, with KXT18P. The same installing procedure and safety regulations are applied to KXT12P model, please check the KXT18P User Guide for detailed information

Note: The K-SUBSTACKKXT1218 is compatible with all KXT models, also with KXT18P. The same installing procedure and safety regulations are applied to KXT12P model please check the KXT18P User Guide for detailed information

Rear Panel

Each Dragon-KXT12P is equipped with 2x SpeakON NL4 connector - **IN** and **PARALLEL OUT / LINK** - for signal input and signal distribution trough other speakers in parallel.



KXT12P Speaker Wiring Overview

Speaker triaxial components:

- 12" Woofer (Low frequencies)
- 3" Compression driver (Mid frequencies)
- 2" Compression driver (High frequencies)

Input Connectors:

2 × SpeakON NL4, 4-pin connectors

- **Pin Assignments:**
 - Pins 1+ / 1-: Full-range signal input (feeds the internal passive crossover)
 - Pins 2+ / 2-: Signal through (parallel connection to the second SpeakON connector)

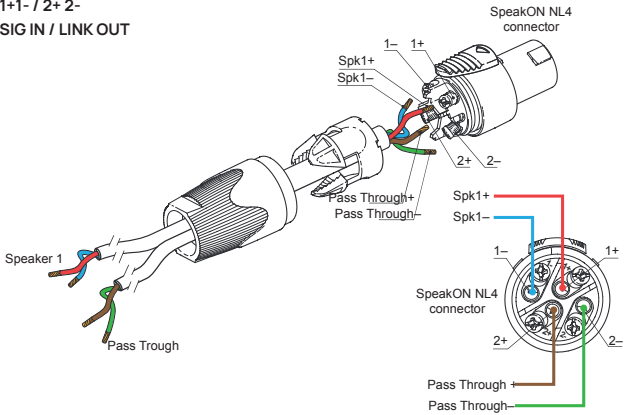
Amplification:

- The loudspeaker operates on a single amplifier channel, as the internal crossover divides the signal between low, mid, and high frequency components.

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KXT12P	2x NL4 speakON	Polarity - NL4 speakON		Amp Channels
HIGH / MID / LOW	IN	SIG		CH1
		1+	1-	
		LINK OUT / pass through		
		2+	2-	
HIGH / MID / LOW	LINK	SIG		CH1
		1+	1-	
		LINK OUT / pass through		
		2+	2-	

1+1- / 2+ 2-
SIG IN / LINK OUT



Impedance and Connections

- Nominal impedance KXT12P: 8 Ω
 - Internal crossover: splits the signal between woofer and drivers
 - Standard connection: single amplifier channel required
- Multiple speakers in parallel:
 - Total impedance decreases as more loudspeakers are added
 - Ensure the amplifier can handle the resulting load safely
 - Amplifier selection: refer to the [Amplifier Matching Table](#) on the K-array website



Always check the loudspeaker impedance before connecting the amplifier.



Before driving the loudspeakers ensure to load the proper loudspeaker factory preset on Kommander-KA amplifier

Amplifier Channel Matching

The KXT12P features an internal passive crossover that distributes the audio signal to the different transducers (woofer and compression drivers).

Thanks to this circuit, the loudspeaker presents a single nominal impedance of 8 Ω , seen by the amplifier as one load.

Only one amplifier channel is required for proper operation.

When connecting multiple loudspeakers in parallel, the total system impedance decreases as more units are added.

Always ensure that the amplifier can safely drive the resulting load according to its specifications.

For proper amplifier selection based on the loudspeaker model, please refer to the Amplifier Matching Table available on the K-array website.



Before connecting the loudspeaker cable to the amplifier:

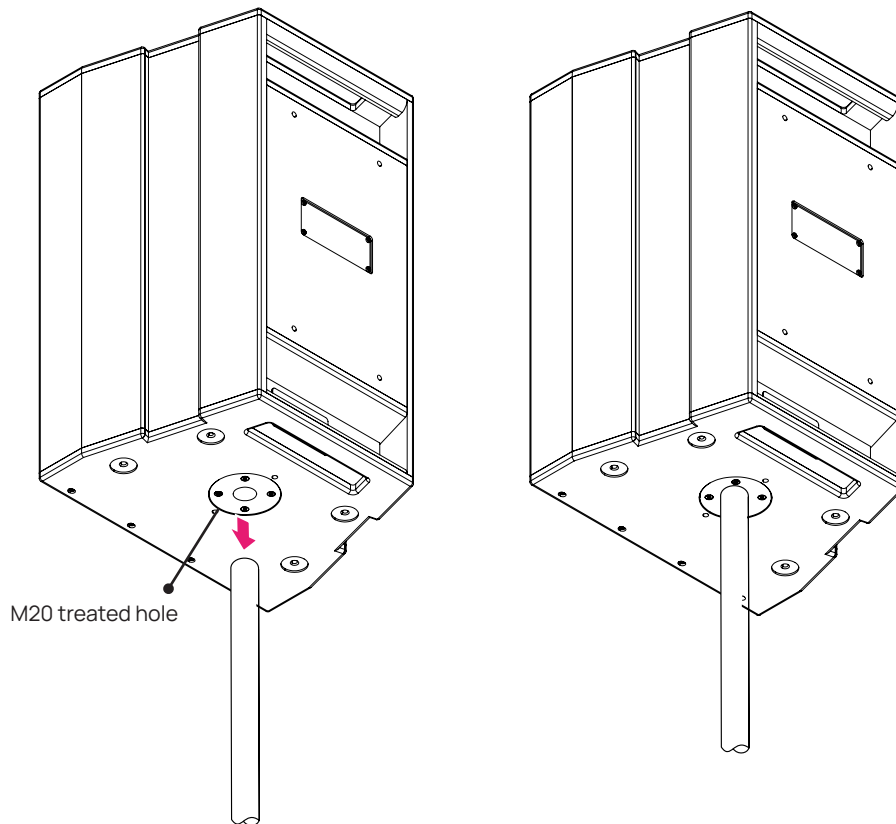
- ensure the loudspeaker impedance matches the amplifier channel rated load impedance, especially when connecting multiple loudspeakers in parallel;
- load the dedicated loudspeaker factory preset on the amplifier DSP.

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Standalone Use

Standard pole mounting

for standalone use, the KXT12P is equipped with a bottom-mounted M20 threaded hole for installation on standard speaker poles (1,80m).



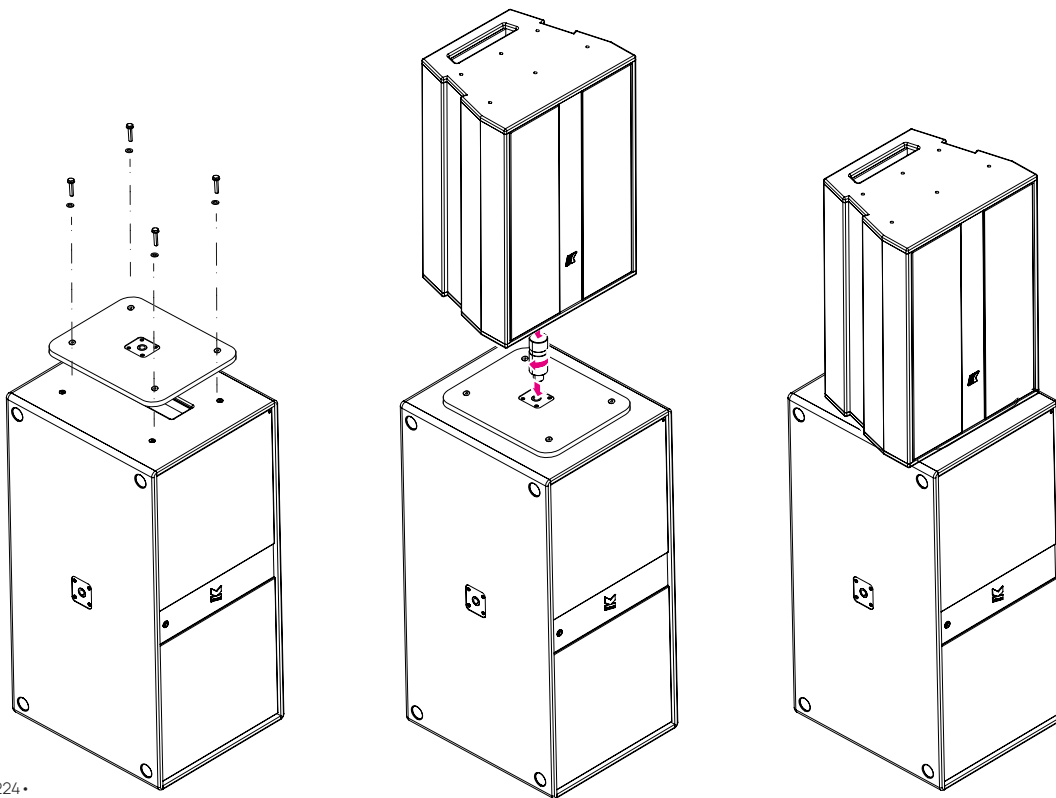
Vertical stack installation on subwoofer

DJ monitoring or compact PA setups

To install the KXT12P in a vertical stack configuration on a subwoofer, using the K-PINM20 pivot and the K-BASE3 standing base, proceed as follows:

1. Install the K-BASE3 on the top panel of the Thunder-KS4i subwoofer by removing the factory screws located on the subwoofer top plate.
Reposition the K-BASE3 and secure it using the same screws, ensuring proper tightening and stability.
2. Attach the K-PINM20 pivot to the threaded mounting hole of the KXT12P.
3. Mount the KXT12P onto the K-BASE3 by engaging the K-PINM20 pivot with the threaded hole of the standing base. Ensure the loudspeaker is correctly aligned and securely fastened before operation.

*See system configuration and wiring at page 24.



Ground Stack General Warnings



Key hardware components must be inspected before each use.

Any rigging components found to be defective, or even suspect might be defective should be replaced with equivalent approved part.



Always use properly rated installation hardware.



K-array is not responsible for any installing equipment and accessories that are not manufactured by K-array.



Check building codes for weight distribution requirements. Ensure that the total weight of the loudspeakers and additional hardware assembly in use is lower than the Working Load Limit (WLL).



Ground stacking the loudspeaker systems shall be accomplished by knowledgeable and experienced professionals.



Install the loudspeaker stack on a plain horizontal surface.



Ensure that the location for the loudspeakers stack and its support system provides for the minimum clearances required for safety.

It is the user's responsibility to secure the loudspeakers stack and its support system to ground in order to avoid any damage or failure due to any unintended hits, gust of wind, vibrations or such.

Critical Warnings



KXT12P has no dedicated ground-stacking frame. Stability must be ensured with proper accessories and external safety measures.



- Do not attach straps to handles, grilles, or non-load-rated parts.
- Do not use modified or non-certified accessories.
- Do not exceed the allowed stacking height for KXT12P configurations.
- Check stability frequently during operation, especially at high SPL.



Stabilization Measures

- Use certified ratchet straps anchored to secure, load-rated external points (truss, barriers, fixed structures).
- Add anti-slip blocks or wedges at the base to prevent movement from LF vibrations.
- If needed, place the subwoofer on a wider certified platform to increase overall stability.
- Keep cable runs tidy to avoid tripping hazards.



Best Practices

- Confirm the assembly can withstand vibration, crowd interaction, wind, or any environmental factor present.
- Perform a final push-test to verify that the system cannot shift or tip.
- Inspect all safety elements (straps, blocks, poles) before every show.

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Vertical curved cluster set-up

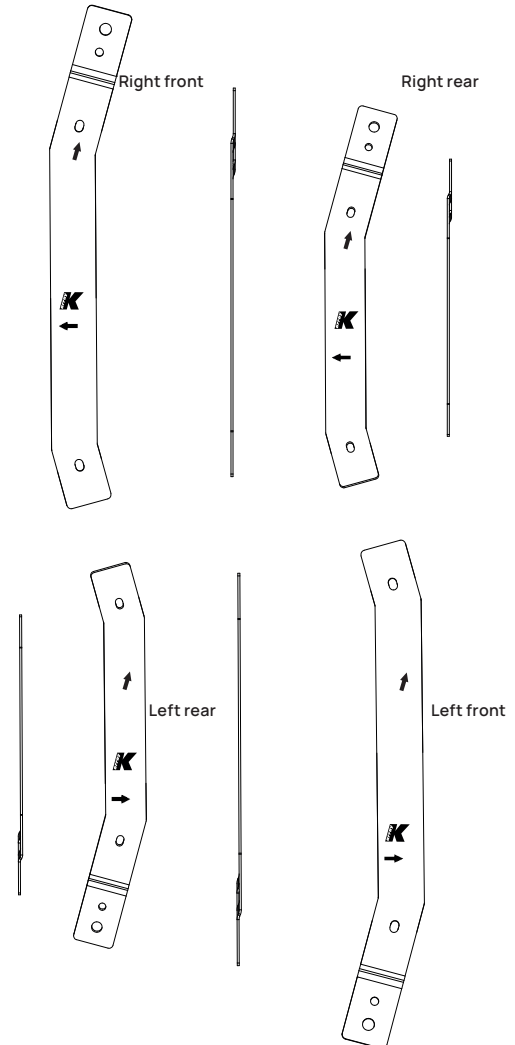
Required accessories

Bill of material	
K-FLYKXT12V	4x plates (2-pairs) + 4x M8 bolts for suspending 3x KXT12P in vertical cluster
up to 2 K-JOINTKXT12V	Linking kit with 4x lateral metal plates + 8x M8 bolts
n SpeakON NL4	SpeakON NL4 connectors for wiring the speakers in cluster configuration

Vertical Cluster array Assembly and Suspension – Procedure

1. Each plate (front and rear, left and right) is marked with a silkscreen arrow indicating the correct mounting direction, allowing you to easily distinguish between the left and right sides of the loudspeaker. (fig.a)
2. Install the 4 lateral plates of the joint kit (2 per side) onto the first speaker element. (fig.b)
3. Secure all components by fastening them with M8 bolts into the rear inserts. (fig.c)

a



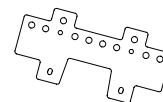
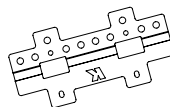
K-FLYKXT12V Installation Overview

Installing K-FLYKXT12V to the first element

The K-FLYKXT12V accessory is designed to suspend multiple loudspeaker elements in a vertical cluster configuration. The accessory features dual mounting plates on each side, which connect to the joint previously installed on the lateral side of the loudspeaker.

The K-FLYKXT12V consists of:

- one inner plate (per side) (A)
- one outer plate (per side) (B)



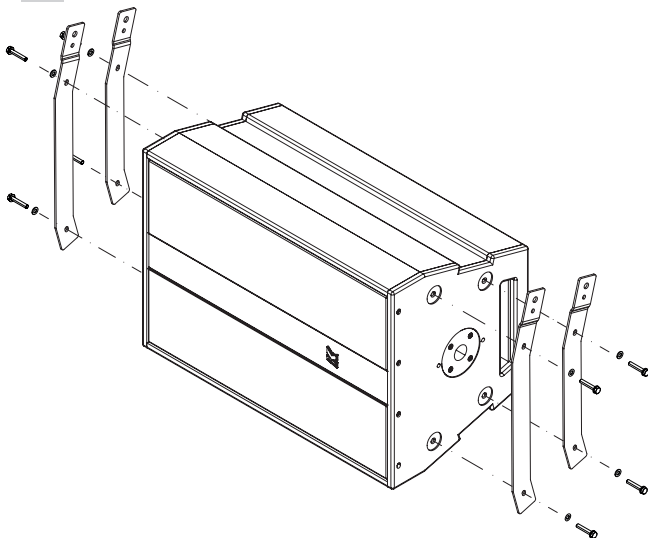
Inner Plate Installation

1. Position the inner plate at the end section of the joint
2. Insert the plate inside the joint, ensuring correct orientation. (fig.d)
3. Align the plate with the dedicated M8 mounting holes.
4. Make sure the plate is fully seated and that all holes are perfectly aligned before proceeding with the next installation steps. (fig.d)

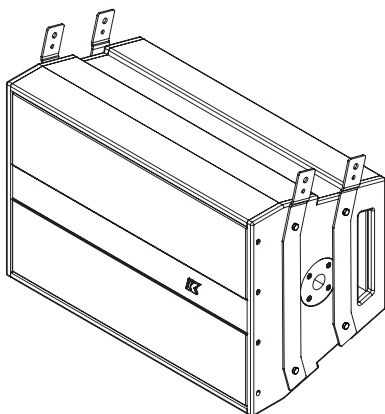
Outer Plate Installation

5. Position the inner plate at the end section of the joint.
6. Insert the plate inside the joint, ensuring correct orientation. (fig.e)
7. Align the plate with the dedicated M8 mounting holes.
8. Make sure the plate is fully seated and that all holes are perfectly aligned before proceeding with the next installation steps.

b

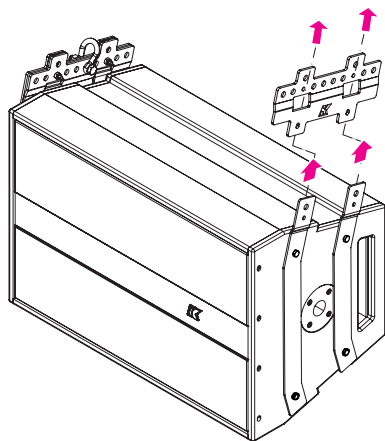


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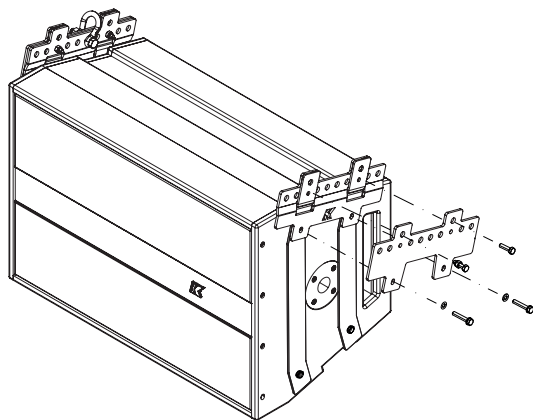


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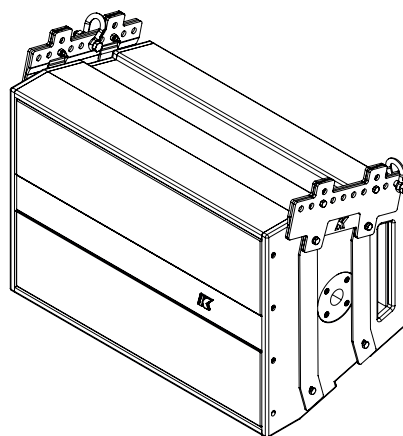
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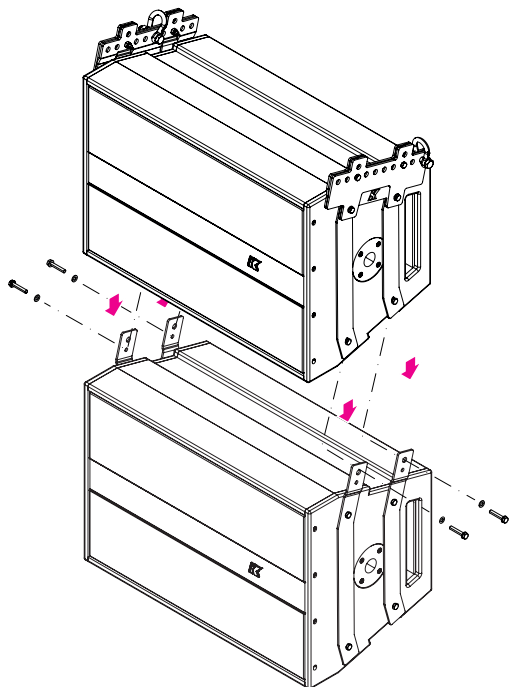
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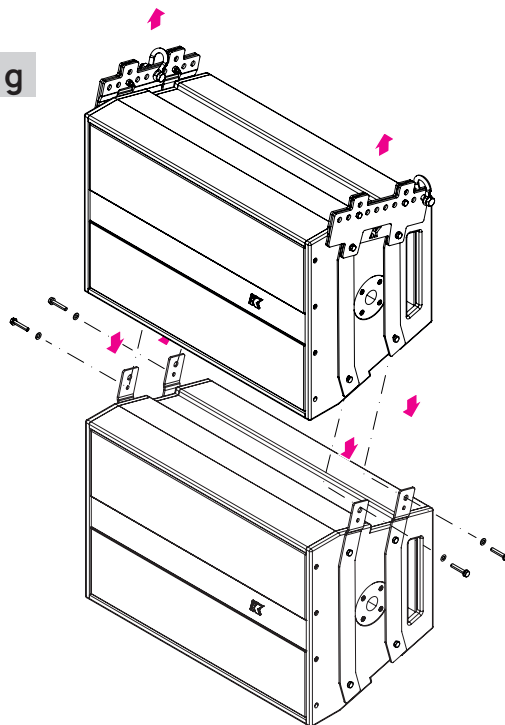


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Mounting additional elements in the cluster

1. Remove the lower M8 bolts from the joint plates of the upper loudspeaker unit.
2. Secure the upper loudspeaker to the lower loudspeaker using the dedicated M8 mounting holes and the supplied M8 bolts. (fig.g)
3. Tighten all fasteners evenly and verify that the connection between the two loudspeaker elements is secure and stable.
4. After completing all mechanical connections and finishing the cabling, the loudspeaker cluster can be raised to the appropriate height to achieve optimal audience coverage. (fig.g)

g



WARNING – Structural safety limit

The suspension system allows the creation of a vertical cluster of maximum 3 KXT12P units.
Never exceed this limit: suspending more than 3 loudspeakers in a vertical configuration may compromise installation safety, leading to potential structural failure and serious injury or damage.

Horizontal curved cluster set-up

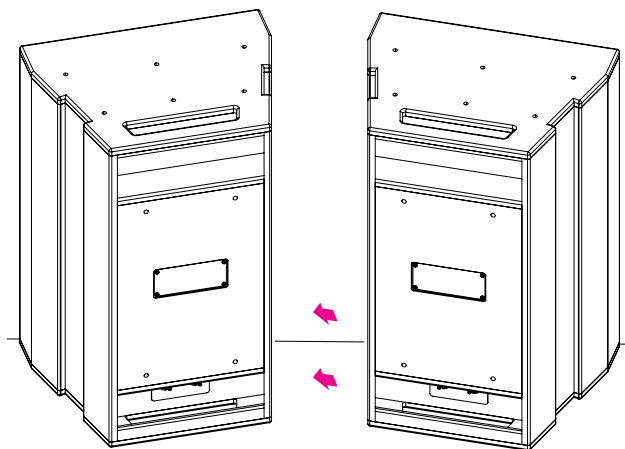
Required accessories

Bill of material	
up to 2 K-FLYKXT1218H suspension kit	L Bumper + 4x M8 bolts and linking joints + M8 bolts - kit for suspending 2x KXT12P in horizontal cluster
n SpeakON NL4	SpeakON NL4 connectors for wiring the speakers in cluster configuration

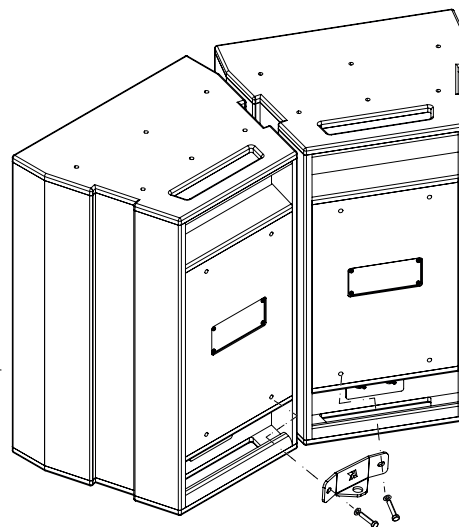
1. For horizontal cluster assembly, it is recommended to place the speakers on the ground, close to each other (the aiming angles of the individual speakers are fixed). (fig.h)
2. First, connect the speakers using the connection kit, securely fastening the plate to the rear M8 inserts with the dedicated M8 bolts. (fig.i)
3. Then, attach and secure the bumper using the 4x M8 bolts.(fig.l)
4. Finally, suspend the cluster by connecting the rigging points on the bumper eyebolts to a truss or dedicated support structure.(fig.m)
5. When adding a third element, an additional L-shaped bumper is required for suspension. In this configuration, two independent suspension points must be used to ensure structural stability.(fig.n)

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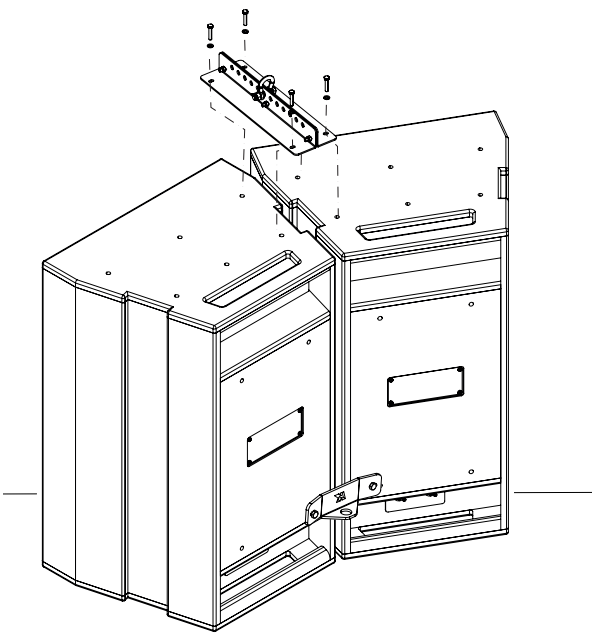
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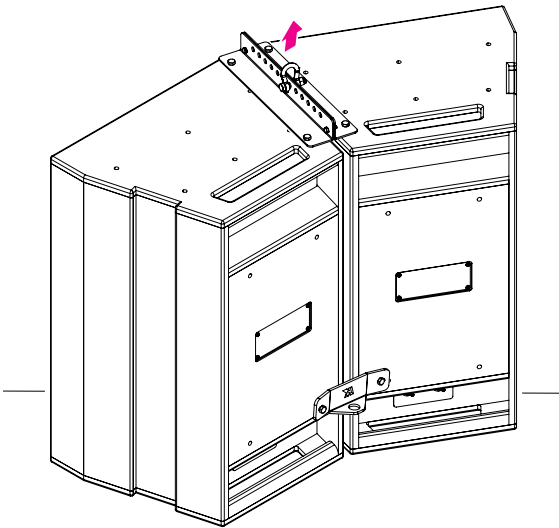
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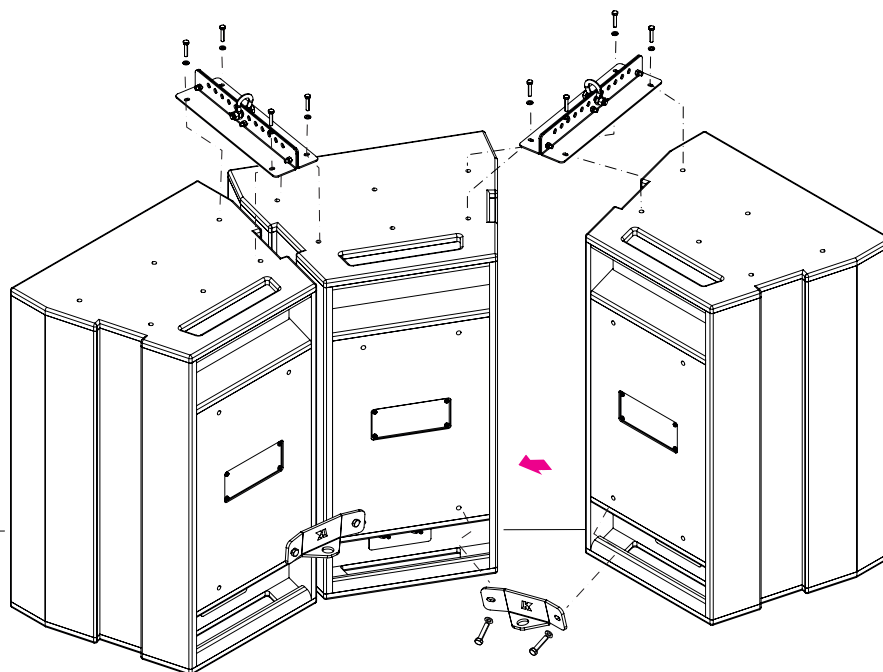
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Load limits and allowed configurations (K-FLYKXT1218H)

Suspension capacity

- Single-beam pick: max 1 KXT12P per suspension point.
- Two-beams pick: max 2 KXT12P total on the same two-point suspension system.

Curved horizontal clusters

- Curved horizontal clusters up to 360° (full ring) are allowed using the dedicated accessories and connections specified by the kit.
- Distribute the load evenly across the suspension points; use equal-length shackles and slings to keep the center of gravity aligned.
- Always respect the WLL (Working Load Limit) of each accessory and apply an appropriate safety factor per local regulations.



WARNING

Use only original or K-array approved suspension accessories.
Ensure that the mounting points can support the loudspeaker load with the proper safety factor.
Installation must be performed by qualified personnel.
Never exceed the maximum load specified for the K-FLYKXT1218H kit.

WARNING

For 360° clusters, ensure redundant suspension points and proper balance of the center of gravity.

Recommended System Configurations

Suggested System Setups

This section presents example configurations using the KXT12P loudspeaker. Each setup is tailored for a specific application and includes key components: KXT12P loudspeakers, Thunder-KS4P or KS3P subwoofers, amplification, cabling, and installation accessories.

Depending on the application, systems can be arranged as follows:

Full-passive system: All components (KXT12P and Thunder-KS4P or KS3P) are passive and powered by an external Kommander-KA amplifier.

Active subwoofer system: An active Thunder-KS4 or KS3 can power an additional passive subwoofer together with passive KXT12P loudspeakers, offering a compact and efficient solution for portable setups, live sound, or club installations.

These configurations illustrate K-array's recommended approach to combining compatible components for real-world use in various installation and live sound environments.

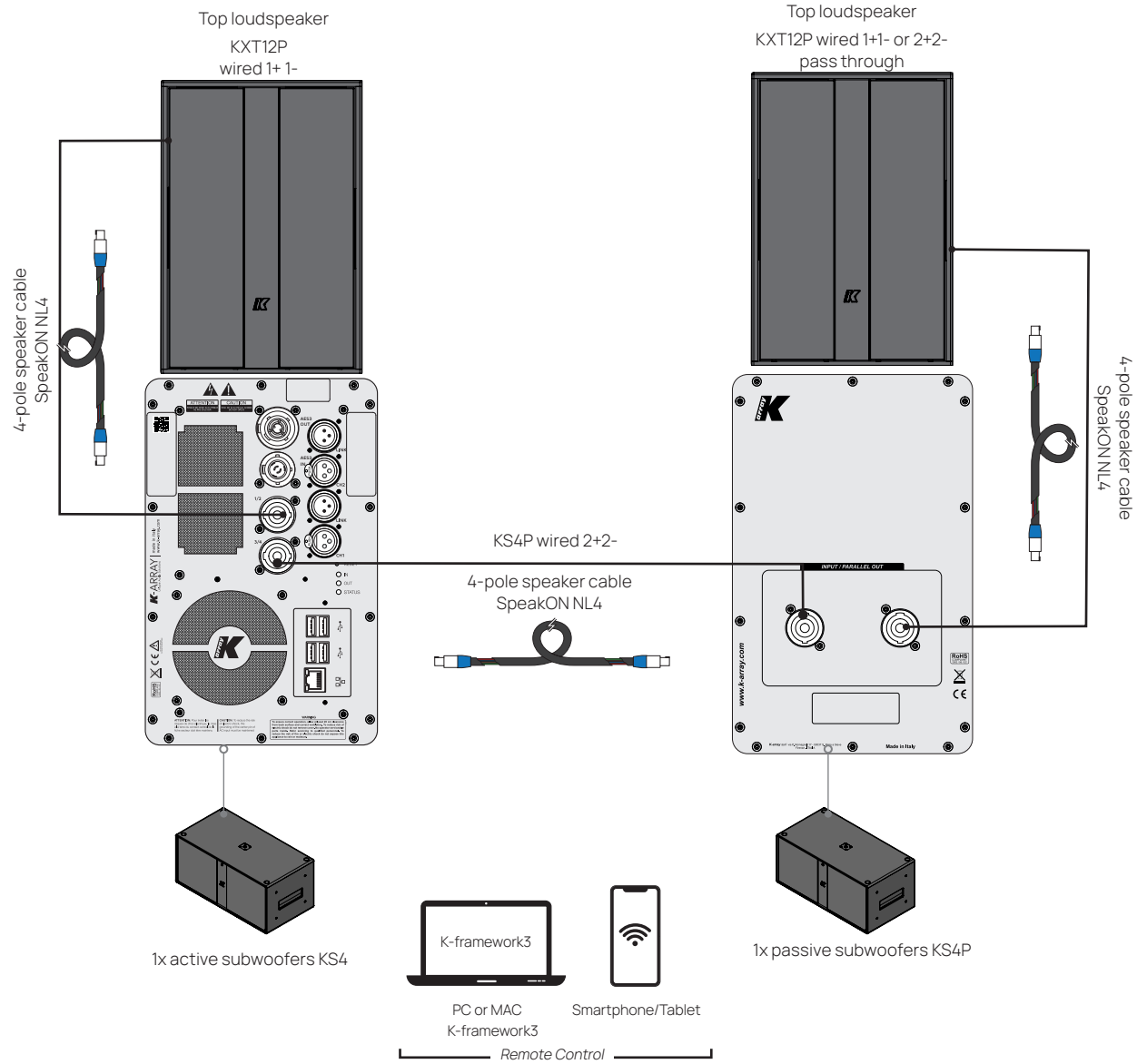
System 1 – Classic Near - field Stacked Stereo System (L/R)

Description	Components
Loudspeakers / Satellites	2× KXT12P (in vertical set up and stuck on subwoofer)
Subwoofers	2× KS4P (ground stack)
Amplifier platform	1× KA204LIVE or 1x KS4 (active)
DSP and dedicated remote software control	Built in Web-App - remote accessible
Audio Cabling	Analog, SpeakOn 4-pole connectors
Power Cabling	PowerCON cables for each unit
System Configuration	Stereo L/R
Set up hardware accessories	2× K-PINM20 2× K-BASE3

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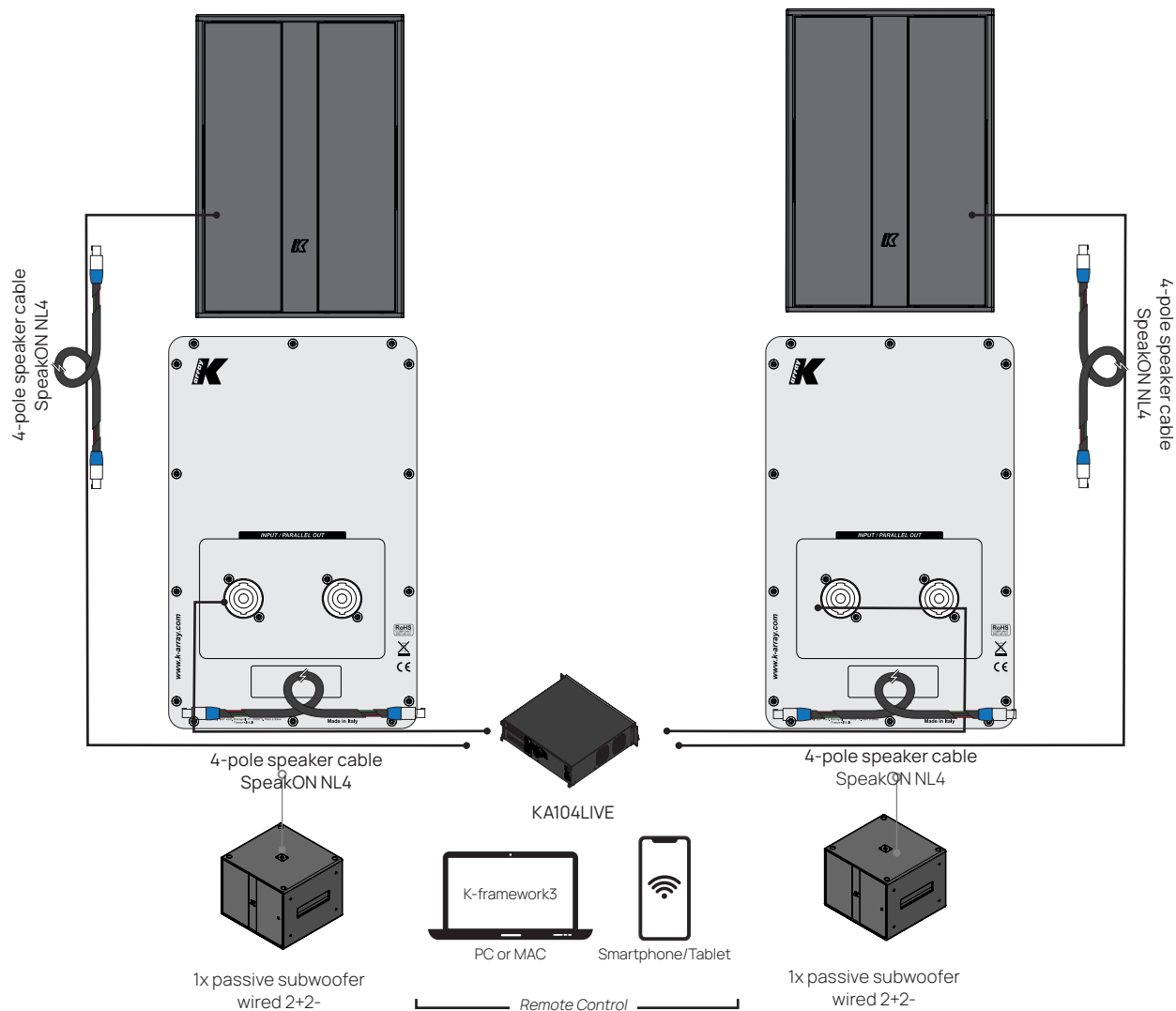
System 2 – Classic Near-field Stereo System (L/R)
with Satellites on pole.

Description	Components
Loudspeakers / Satellites	2× KXT12P on dedicated esthetic pole
Subwoofers	2× KS3P
Amplifier platform	1× KA204LIVE or 1× KS3 (active)
DSP and dedicated remote software control	Built in Web-App - remote accessible
Audio Cabling	Analog, SpeakOn 4-pole connectors
Power Cabling	PowerCON cables for each unit
System Configuration	Stereo L/R
Set up hardware accessories	2 × pole.

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System 3 – Horizontal cluster main system configuration + subwoofer system

Description	Components
Loudspeakers / Satellites	4× KXT12P (2× horizontal cluster)
Subwoofers	4× KS4P
Amplifier platform	1× KA208LIVE
DSP and dedicated remote software control	Built in Web-App - remote accessible
Audio Cabling	Analog, SpeakOn 4-pole connectors
Power Cabling	PowerCON cables for each unit
System Configuration	Stereo L/R
Set up hardware accessories	K-FLYKXT12H

Note:

Configurations involving the K-SUBSTACKKXT1218 and K-FLYKXT12H accessories are not included in the current diagrams. For further information, please refer to the K-array website and the next update of the full User Guide.

System 5 – Monitoring system

Description	Components
Loudspeakers / Satellites	4× KXT12P (2 per side stack on subwoofer)
Subwoofers	2× KS3P
Amplifier platform	1× KA204LIVE
DSP and dedicated remote software control	Built in Web-App - remote accessible
Audio Cabling	Analog, SpeakOn 4-pole connectors
Power Cabling	PowerCON cables for each unit
System Configuration	Stereo L/R
Set up hardware accessories	2× K-SUBSTACKKXT1218

Service

To obtain service:

1. Please have the serial number(s) of the unit(s) available for reference.
2. Contact the official K-array distributor in your country: find the Distributors and Dealers list on K-array website. Please describe the problem clearly and completely to the Customer Service.
3. You will be contacted back for on line servicing.
4. If the problem cannot be resolved over the phone, you may be required to send the unit in for service. In this instance, you will be provided with an RA (Return Authorization) number which should be included on all shipping documents and correspondence regarding the repair. Shipping charges are the responsibility of the purchaser.

Any attempt to modify or replace components of the device will invalidate your warranty. Service must be performed by an authorized K-array service center.

Cleaning

Use only a soft, dry cloth to clean the housing. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives. Do not use any sprays near the product or allow liquids to spill into any openings.

V1

Technical Specifications

Technical specifications	
Type	Point source
Transducers	Tri-axial "12" neodymium magnet woofer 3" compression driver (MF) + 2" compression driver (HF) + 15" passive radiator
Frequency Response ¹	63 Hz - 20 kHz (-6dB)
Frequency Response ^{1,1} full-range	52 Hz - 20 kHz (-6dB)
Max SPL ²	141 dB (peak) half-space
Max SPL ^{2,1} full-range	133 dB (peak) half-space
Rated Power	1200 W
Nominal Impedance	8 Ω
Coverage	V. 40° - H. 60° (Rotatable w/ screws)
Connectors	2x SpeakOn NL4 1+ 1- (signal); 2+ 2- (through)

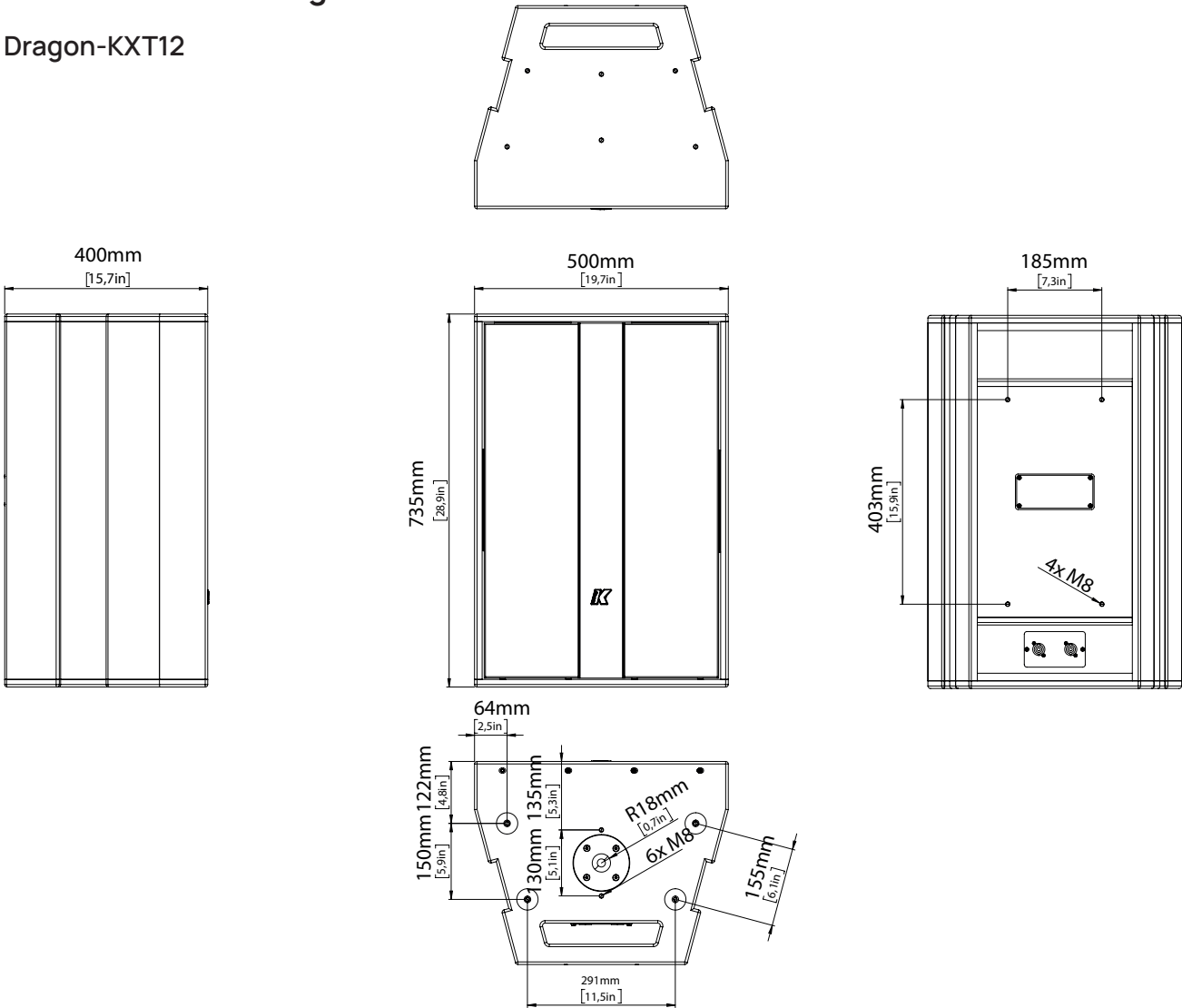
Handling & Finishes	
Material	Birch Plywood
Colors	Black, Custom RAL - Custom Horn
IP Rating ³	IP54
Dimensions (WxHxD)	500 x 735 x 400mm (19,7 x 28.9 x 15,8 in)
Weight	32 kg (70,55 lb)

¹ With dedicated preset.
¹¹ With dedicated full-range preset
² Maximum SPL is calculated using a signal with crest factor 4 (12dB) measured at 8 m then scaled at 1 m.
^{2,1} Maximum SPL is calculated using a signal with crest factor 4 (12dB) measured at 8 m then scaled at 1 m.
³ In case of permanent, long lasting outdoor installation, we recommend to further protect the speaker. Contact K-array directly to discuss best protection practices.

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Mechanical Drawings

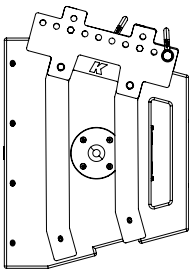
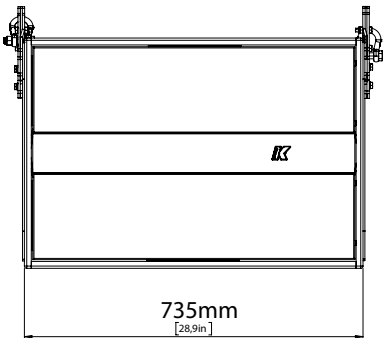
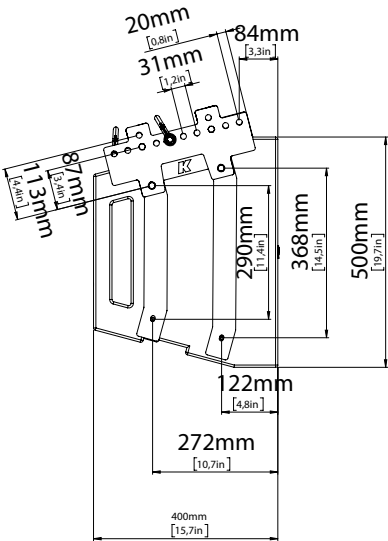
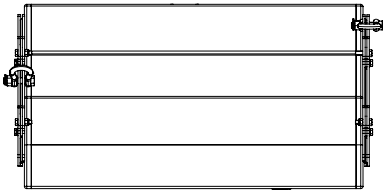
Dragon-KXT12



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K-JOINTKXT12V

K-FLYKXT12V

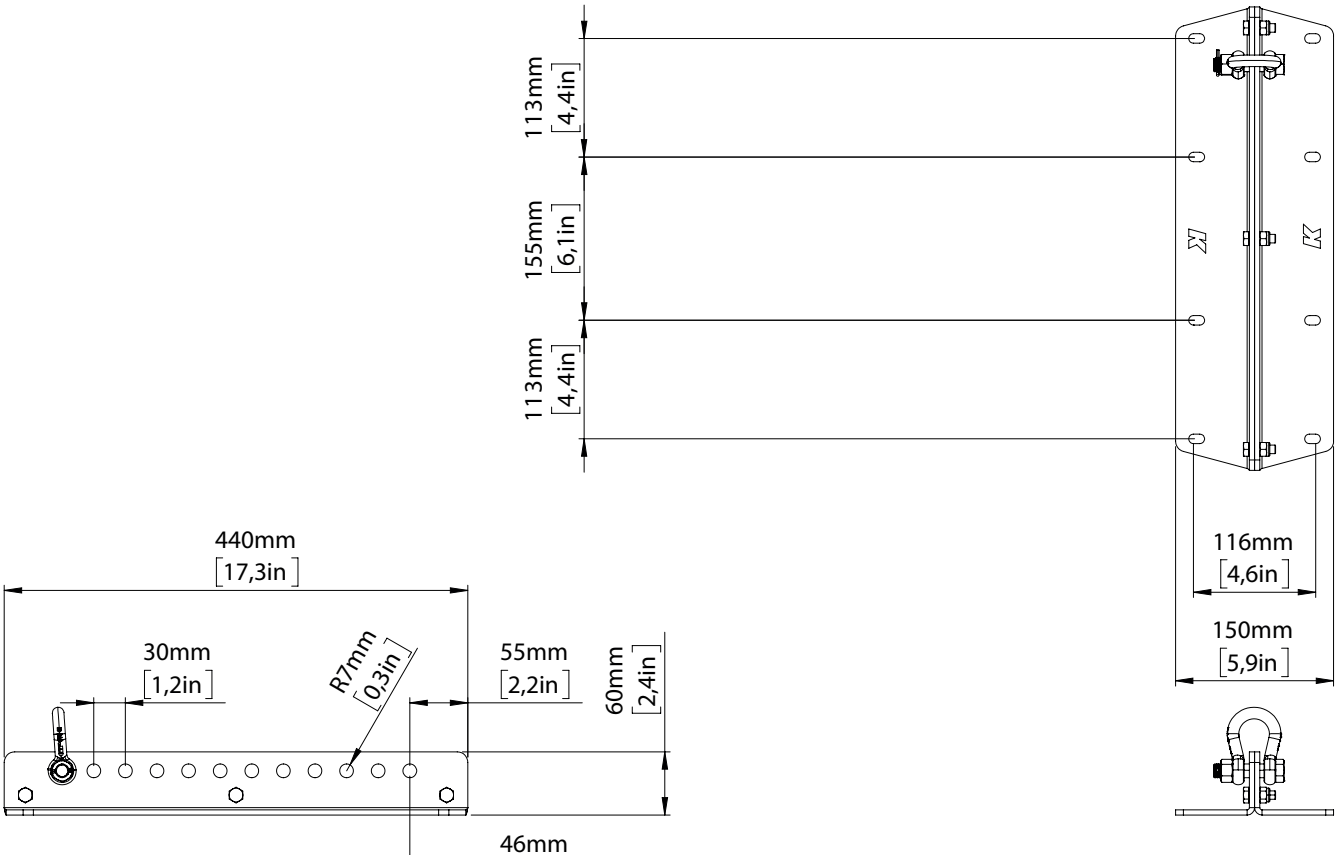


Dragon-KXT12P

User Guide

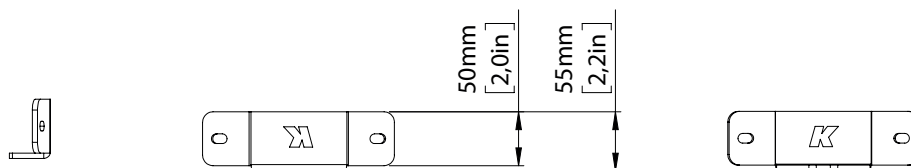
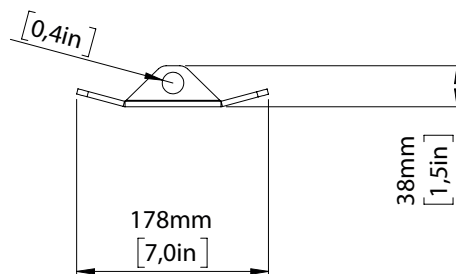
V1

K-FLYKXT1218H



V1

K-FLYKXT1218H - Joining kit



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