# K-LA212-DSP

K-LA212-DSP is an active DSP-controlled line array loudspeaker. It can be compared to three-way systems for the sound performance, and with more compact size and lighter weight, K-LA212-DSP has more advantages for easier handling and transportation.

The K-LA212-DSP incorporates a novel phase corrector, which shifts the center of the loudspeakers closer to the center of the box. This same corrector optimizes the working frequency of the loudspeaker and the waveguides system of the horn, getting a sum of + 6dB on the entire response band of the subwoofer. Create a two-way coaxial system capable of achieving a consistent response across the horizontal plane coverage. It is with high-performance, small size and light weight, which is suitable for both touring performancel and fixed installations.

The HF drivers are two customized drivers with composite membrane (3" voice coil), and the LF drivers are two customized 12" divers (3" voice coil).

K-LA212-DSP system can be used as main PA sound reinforcement with 6 cabinets at least and 16 cabinets maximum per array.

K-LA212-DSP can be suspended vertically. The integrated hardware built-in to the cabinet with 12.0mm high intensity pins make installation easy and convenient. The system can be combined in modularization according to the coverage angle of place, which can meet the requirements of different applications. The installation of the system is very flexible and convenient. For those places where the system can not be flown, there are customized frames suitable for both flying and ground stacking (maximum 4 cabinets).

Dimension(W×H×D)： 899×344.5×647.5mm
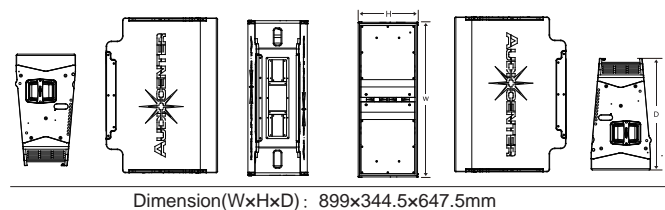
## FEATURES

- Customized driver
- PTV HF horn ensures even coverage and optimized for smooth frequency response
- Dual phase plug design for an extremely precise dispersion
- Hi end digital controller on board (DSP) with 96kHz signal sampling frequency
- Sleep mode automatically if without signal input for 15mins
- Class D amplifier
- Advanced cooling system in the driver
- Optimized and compact elegant premium design cabinet
- Rock solid humidity free birch plywood CNC made cabinet
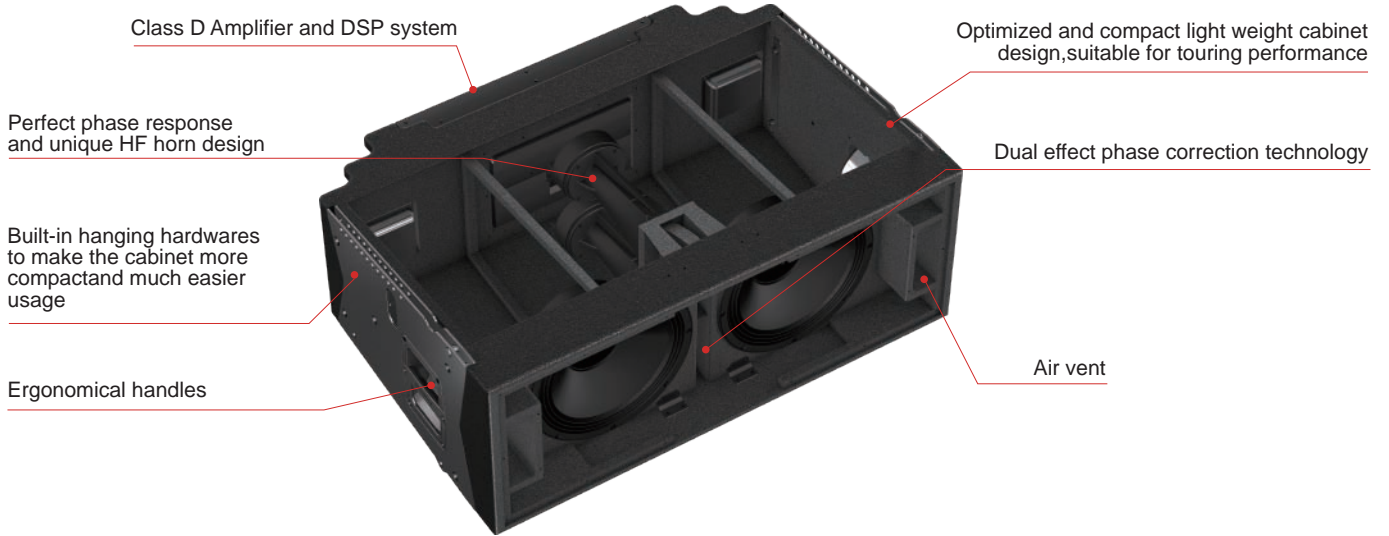- Comprehensive accessories suitable for different applications
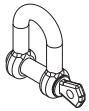
## SYSTEM CONFIGURATION

K-LA-DSP, K-LA Series subwoofer

## SPECIFICATION

| Type | Active DSP-controlled line array loudspeaker |
|---|---|
| Frequency Response(-10dB) | 55Hz-20kHz |
| Horizontal Coverage | 90° |
| Vertical Coverage | Splay angle dependent |
| Maximum Calculated SPL/1M(Continuous/Peak) | 129dB/135dB |
| HF Driver | Customized Neodymium driver,3.0"voice coil,1.4"exit |
| LF Driver | Customized 2x12" driver, 3.0"voice coil |
| **DSP** | |
| Processor | 96kHz signal sampling frequency |
| **AMPLIFIER** | |
| Amplifier Circuitry | Class D |
| Power(RMS standards) | 1600W |
| Peak Power | 3200W |
| Frequency Response (1W 8Ω 2ch) | 20Hz-20kHz(±0.5dB) |
| Intermodulation Distortion | ＜0.05% |
| Total Harmonic Distortion | ＜0.05% |
| Cooling | Cooling with fans |
| Protection | DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection |
| Signal Input | Female XLR |
| Signal Output | Male XLR |
| Power Input | Power connector |
| Power Output | Power connector |
| AC Power Operating Range | 100V-130V~ or 220V-240V~(±10%,50/60Hz) |
| Power consumption (1/8 output power) | 176W |
| **CABINET** | |
| Cabinet Material | Russian birch plywood CNC made |
| Angle Adjustment | 0°, 1°, 2°, 3°, 4°, 5°, 6°,7°, 8°, 9°,10° |
| Cabinet Color | Black is the default color. Contact Audiocenter for customization |
| Grille | Iron mesh |
| Handles | 2 side,2 back |
| Speaker Dimension(W×H×D) | 899×344.5×647.5mm |
| Carton Dimensions (W×H×D) | 1000×745×434mm |
| Net Weight | 59.0kg |
| Shipping Weight | 63.0kg |

## K-LA212-DSP PROFILE

Class D Amplifier and DSP system

Optimized and compact light weight cabinet design,suitable for touring performance

Perfect phase response and unique HF horn design

Dual effect phase correction technology

Built-in hanging hardwares to make the cabinet more compactand much easier usage
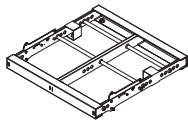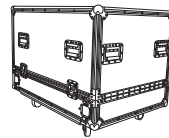
Ergonomical handles

Air vent

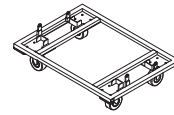## ACCESSORIES

**M20 D shackle**
Bearing 3T

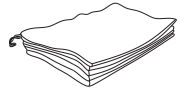**2M / 3M flying belt**
Made of synthetic fibre, bearing 2T/4T

**Frame for flying and ground stacking**

**Flightcase**
For 2 cabinets, with 100mm wheels

**Dolly**(customized)
For 4 cabinets

**Rain bag**
(customized)

## INSTALLATIONS