



Dynamic Audio Solutions

BrainCore™

Technology Inside



K-LA28-MA/SP & K-LA118-DSP

Active DSP-controlled Line Array

K-LA28-MA is an active DSP-controlled line array speaker, and K-LA28-SP is a passive line array speaker. Innovative Master and Slave concept, every combo consists of 1 unit K-LA28-MA and 1 unit K-LA28-SP ("one plus one package"), and different scales of system is comprised of different quantities of package.

AUDIOCENTER INTERNATIONAL



IMPORTANT FEATURES



Innovative BrainCore™ technology to improve the audio performance of the system

The innovative BrainCore™ technology and built-in powerful DSP processor improve the performance of the speaker. With Cort™ correction technology and Limita™ processing technology, the system works with safety and reliability and achieves supreme performance.



Active Speaker DSP

K-LA28-MA is built with 3 different presets. Users can choose the presets according to their needs via the buttons on the back panel.



Advanced Cooling System

Mould-opening customized heat sink with honeycomb structure enlarges the contact surface with air, and thus to improve the cooling efficiency.



Automatic Standby 15mins

To save power, the system will enter into standby mode automatically if without signal input for 15mins.



PTV Technology

PTV technology, by a connector installed between the driver and horn, improves the mutual interference of phase and uniformity of sound field.



Class D Amplifier

K-LA28-MA adopts customized Class D Amplifier together with switch mode power supply technology, which ensure the system for high efficiency, exquisite and compact outlook, advanced cooling effect and high quality.



Wood Horn Material

The horn adopts high-class excellent wood with seamless connection to ensure low resonance and optimized smooth frequency response.



Solid Wood Construction

Optimized and compact CNC cabinet made of excellent wood is solid, waterproof and light-weight, very suitable for touring application.



Integrated Flyware

Integrated installation accessories built in the cabinet make K-LA28-MA/SP in installation flexibility.



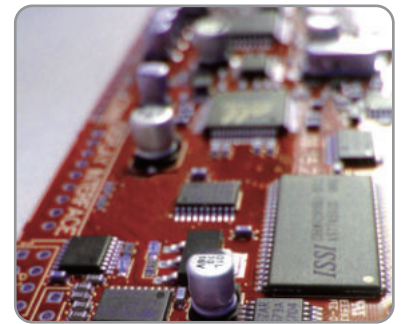
Customized ProDriver

Latest ferrite speaker technology and customized driver from Beyma ensure very clean and clear sound and impressive sound dynamic.



Innovative BrainCore™ technology to improve the audio performance of the system

The innovative BrainCore™ technology and built-in powerful DSP processor improve the performance of the speaker. With Cort™ correction technology and Limita™ processing technology, the system works with safety and reliability and achieves supreme performance.



Active Speaker DSP

3 presets (Linear, HFX, W/SUB) in full range loudspeaker are available for the users to choose via the buttons on the back panel. USB port is not available for the users.



Class D Amplifier

K-LA28-MA adopts customized Class D Amplifier together with switch mode power supply technology, which ensures the system for high efficiency, exquisite and compact outlook, advanced cooling effect and high quality.



K-LA28-MA

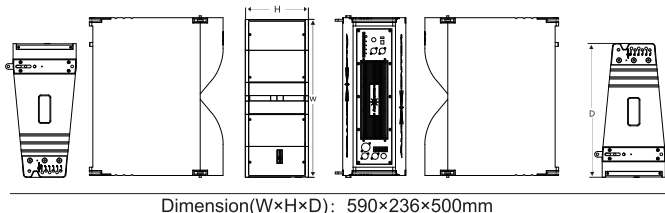
K-LA28-MA can be used in Applications like Live sound for rental application for small and mid-size venues, like roadshows, parties, company event, etc and Permanent installation like ballroom, conference room, coffee shop, lounge bar, etc.

The HF driver of K-LA28-MA is customized Beyma driver with composite membrane (1.75" voice coil), and the LF/MF driver is customized Beyma 8" driver (2" voice coil).

User Selectable 3 presets (Linear, HFX, W/SUB) in K-LA28-MA are available for the users to choose according to different environments/venues and music styles.

In application, 1 unit of K-LA28-MA should work together with 1 unit of K-LA28-SP. This one-driven-one working mode can fulfill paralleling of the amplifier signal by the 8-pin power connector on the back panel.

K-LA28-MA can be suspended vertically. The integrated hardware with innovative fast lock mechanics built-in to the cabinet with 9.5mm 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. For those places where the system can not be filed, there are customized frames suitable for both ground stacking (maximum 4 cabinets) or stacking on the stand (maximum 3 cabinets) to meet different requirements of installation and reinforcement environment.



Dimension(W×H×D): 590×236×500mm

FEATURES

- Customized driver from Beyma
- PTV phase plug design for an extremely precise dispersion, HF horn design ensures even coverage and optimized for smooth frequency response
- Innovative Master and Slave concept
- Built in DSP with 96KHz signal sampling frequency, 56bit precision
- Standby mode automatically if without signal input for 15mins
- Class D amplifier
- Advanced cooling system in the driver
- Optimized and compact light weight cabinet design
- CNC cabinet made of excellent wood
- Comprehensive accessories suitable for different applications



SYSTEM CONFIGURATION

- K-LA28-SP full range loudspeaker
- K-LA-DSP series subwoofer. It can be filed or stacked with K-LA118-DSP in modularization



SPECIFICATION

Type	Active DSP-controlled full range loudspeaker
Application	1pcs K-LA28-MA together with 1pcs K-LA28-SP
Frequency Response (-6dB anechoic chamber)	60Hz-20KHz
Maximum Calculated SPL/1M	134dB
LF/MF Driver	Customized Beyma ferrite driver, 2" voice coil
HF Driver	Customized Beyma ferrite driver, 1" exit, 1.75" voice coil
Horizontal Coverage Angle (Symmetrical)	100°
Vertical Coverage Angle (Symmetrical)	Depend on the amount of the speaker and curvature of the line array
AMPLIFIER	
Amplifier Circuitry	Class D
Power(RMS standards)	1600W
Frequency Response (1W 8Ω 2ch)	20Hz-20KHz(±0.5dB)
Intermodulation Distortion	< 0.05%
Total Harmonic Distortion	< 0.05%
Protection	DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection
Cooling System	Cooling with fans
DSP	
Processor	96KHz signal sampling frequency, 56bit precision
Presets	Linear, HFX, W/SUB
Crossover	Controlled by DSP
Output/Input	
Signal Input	1× female XLR
Signal Output	1× male XLR
Link (K-LA28-MA/SP)	1×8pin speakon LF: 8Ω(+3, -3) MF: 8Ω(+2, -2) HF: 8Ω(+1, -1)
Power Input	Power connector
Power Output	Power connector
Working Voltage	230V 50Hz / 120V 60Hz
Cabinet	
Angle Adjustment	0°, 2°, 4°, 6°, 8°, 10°
Cabinet Material	CNC made of excellent wood
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	590×236×500mm
Net Weight	25.0Kg

K-LA28-SP

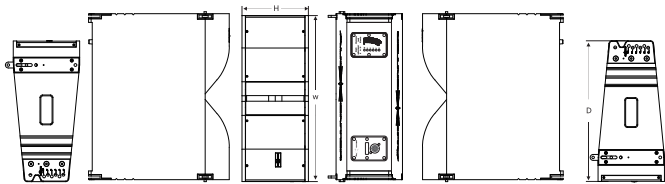
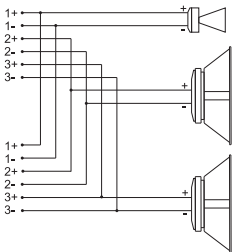
K-LA28-SP can be used in Applications like Live sound for rental application for small and mid-size venues, like roadshows, parties, company event, etc and Permanent installation like ballroom, conference room, coffee shop, lounge bar,etc.

K-LA28-SP, an active crossover line array speaker, is designed to meet the high requirements of touring performance, rental and fixed installation.

The HF driver of K-LA28-SP is customized Beyma driver with composite membrane (1.75"voice coil), and the MF/LF driver is customized Beyma 8" driver (2"voice coil).

In application, 1 Unit of K-LA28-SP should work together with 1 Unit of K-LA28-MA. This one-driven-one working mode can fulfill paralleling of the amplifier signal by the 8-pin power connector on the back panel.

K-LA28-SP can be suspended vertically. The integrated hardware with innovative fast lock mechanics built-in to the cabinet with 9.5mm diameter highly durable pins. The system can be configured in modularization according to the venues. Same frame can be either used for flying the arrays or for ground stacking the arrays (We suggest 4pcs maximum for stacking). To meet different demands, by use of three-rubber feet sustain frame and coupling bar, the system also can be stacked (maximum 4 units).



Dimension(W×H×D): 590×236×500mm

FEATURES

- Customized drivers from Beyma
- PTV phase plug design for an extremely precise dispersion, HF horn design ensures even coverage and Optimized for smooth frequency response
- High-efficient cooling system of the driver
- Optimized and compact elegant premium design cabinet
- CNC cabinet made of excellent wood
- Comprehensive accessories suitable for different applications



SYSTEM CONFIGURATION

- K-LA28-MA active DSP-controlled full range loudspeaker

SPECIFICATION

Type	Active crossover line array speaker
Application System	1pcs K-LA28-SP together with 1pcs K-LA28-MA
Frequency Response	60Hz-20KHz
Rated Power (AES standard)	LF: 400W HF: 50W
Maximum SPL	134dB
Horizontal Coverage Angle (Symmetrical)	100°
Vertical Coverage Angle (Symmetrical)	Depend on the amount of the speaker and curvature of the line array
LF Driver	Customized Beyma ferrite driver, 2" voice coil, 200W(AES)
HF Driver	Customized Beyma ferrite driver, 1"exit, 1.75" voice coil, 50W(AES)
Link (K-LA28-MA/SP)	1×8pin speakon LF: 8Ω(+3, -3) MF: 8Ω(+2, -2) HF: 8Ω(+1, -1)
Angle Adjustment	0°, 2°, 4°, 6°, 8°, 10°
Cabinet Material	CNC made of excellent wood
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension (W×H×D)	590×236×500mm
Net Weight	19.0Kg

CONNECTION DIAGRAM



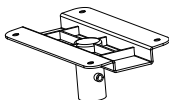
ACCESSORIES



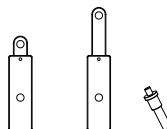
M20 D shackle
Bearing 3T



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



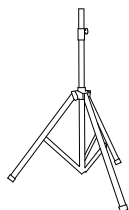
Bracket



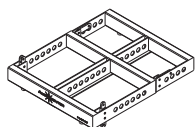
Locking accessories kit



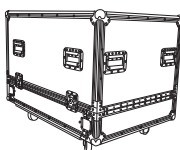
Coupling bar



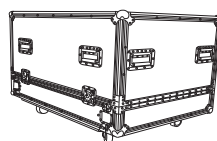
Three-foot stand
Bearing 80Kg



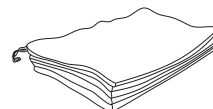
**Frame for flying and
ground stacking**



Flightcase
For 2 cabinets,
with 100mm wheels

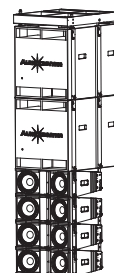
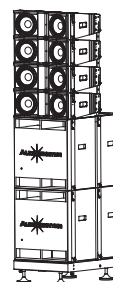
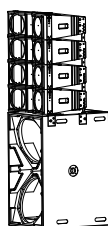
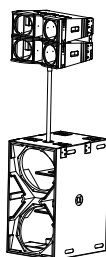


Flightcase
For 4 cabinets,
with 100mm wheels



Rain bag(customized)

INSTALLATIONS



K-LA118-DSP

K-LA118-DSP, an active DSP-controlled subwoofer, is designed to meet the high requirements of touring performance, rental and fixed installation.

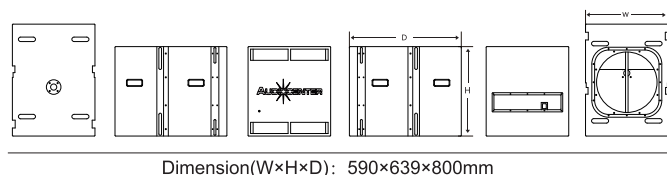
The LF driver of K-LA118-DSP is customized Audiocenter 18" driver (4" voice coil).

User Selectable 3 low-pass filters (80Hz, 100Hz, 120Hz) in K-LA118-DSP are available for the users to choose according to different environments and music styles.

K-LA118-DSP is a perfect match for all Audiocenter full range speakers, extending band width of frequency response and delivering powerful, impressive, punchy bass sound.

The K-LA118-DSP is with half formula double opening design and dual LF output. With 6th order band pass filter function, the cabinet design of K-LA118-DSP can decrease HF interference and improve LF performance. K-LA118-DSP is novel and innovative product with high technology.

K-LA118-DSP is combined in modularization, which is suitable for any performance venues. It can also be used together with other speakers of other brands.



FEATURES

- Hi end digital controller on board(DSP) with 96KHz signal sampling frequency, 56bit precision
- Standby mode automatically if without signal input for 15mins
- Class D amplifier
- Advanced cooling system in the driver
- CNC cabinet made of excellent wood
- Comprehensive accessories suitable for different applications



SYSTEM CONFIGURATION

- K-LA28-DSP, K-LA28-MA/SP full range loudspeaker

SPECIFICATION

Type	Active DSP-controlled Compact Subwoofer
Frequency Response (-6dB anechoic chamber)	32Hz-150Hz
Maximum Calculated SPL/1M	137dB
LF Driver	Customized Audiocenter ferrite driver, 4" voice coil
AMPLIFIER	
Amplifier Circuitry	Class D
Power(RMS standards)	1600W
Frequency Response (1W 8Ω 2ch)	20Hz-6KHz(±0.5dB)
Intermodulation Distortion	< 0.05%
Total Harmonic Distortion	< 0.05%
Protection	DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection
Cooling System	Cooling with fans
DSP	
Processor	96KHz signal sampling frequency, 56bit precision
Presets	80Hz, 100Hz, 120Hz
Crossover	Controlled by DSP
Output/Input	
Signal Input	1×female XLR
Signal Output	1×male XLR
Power Input	Power connector
Working Voltage	230V 50Hz / 120V 60Hz
Cabinet	
Cabinet Material	CNC made of excellent wood
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	590x639x800mm
Net Weight	63.0Kg

■ K-LA28-MA/SP & K-LA118-DSP Specifications

SPECIFICATIONS		K-LA28-MA	K-LA28-SP	K-LA118-DSP
Frequency Response (-6dB anechoic chamber)		60Hz-20KHz		32Hz-150Hz
Horizontal Coverage Angle (Symmetrical)		100°		/
Vertical Coverage Angle (Symmetrical)		Depend on the amount of the speaker and curvature of the line array		/
Maximum Calculated SPL/1M	Continuous	128dB		131dB
	Program	131dB		134dB
	Peak	134dB		137dB
Drivers	HF	Customized Beyma ferrite driver, 1.75" voice coil, 1" exit		/
	MF	Customized Beyma ferrite driver, 2" voice coil		/
	LF			Customized Audiocenter ferrite driver, 4" voice coil
Crossover and Slope		Controlled by DSP	/	Controlled by DSP
Signal Input / Signal Output		Female XLR input, male XLR output	/	Female XLR input, male XLR output
Link (K-LA28-MA/SP)		8pin speakon link		/
Power Input / Output Connectors		Power connector	/	Power connector
Working Voltage		230V 50Hz / 120V 60Hz	/	230V 50Hz / 120V 60Hz

DSP			
Processor	96KHz signal sampling frequency, 56bit precision	/	96KHz signal sampling frequency, 56bit precision
presets	Linear, HFX, W/SUB	/	80Hz, 100Hz, 120Hz

AMPLIFIER				
Amplifier		Class D	/	Class D
Power(RMS standards)		1600W	/	1600W
Frequency Response (1W 8Ω 2ch)		20Hz-20KHz(±0.5dB)	/	20Hz-6KHz(±0.5dB)
Intermodulation Distortion (20Hz-20KHz, half power)		<0.05%	/	<0.05%
Total Harmonic Distortion (20Hz-20KHz, rated power 8Ω)		<0.05%	/	<0.05%
Cooling		Cooling with fans	/	Cooling with fans
Protection	DC protection	√	/	√
	Short circuit protection	√	/	√
	Overheat protection	√	/	√
	Output overload protection	√	/	√
	Soft startup protection	√	/	√
	Overvoltage protection	√	/	√
	Undervoltage protection	√	/	√

CABINET			
Cabinet		High density Russian birch plywood CNC made	
Optional Accessories		Flightcase with 100mm wheels / Durable rain bag / D shackle / Stainless steel wire / Flying frame	
Dimensions(W×H×D)		590×236×500mm	590×639×800mm
Net Weight		25.0Kg	63.0Kg
Technical Support and After-sales Service		Global application support team, EASE GLL files	