



Dynamic Audio Solutions

BrainCoreTM
Technology Inside



K-LA-DSP Series

Active DSP-controlled Line Array

K-LA-DSP Series Active DSP-controlled Line Array Speaker is specifically designed for mid to mid-high level market.

K-LA-DSP can be used in Applications like Live sound for rental application for small and mid-size venues, Permanent installation in theatres, houses of worship, convention centres, Portable PA, clubs, ballrooms, live theatres and almost anywhere else that people gather to enjoy music or hear the spoken word, are within the ability of the K-LA-DSP series to respond with acoustical perfection.

K-LA-DSP system is combined in modularization, which is suitable for various performance venues.

AUDIOCENTER INTERNATIONAL

K-LA28-DSP

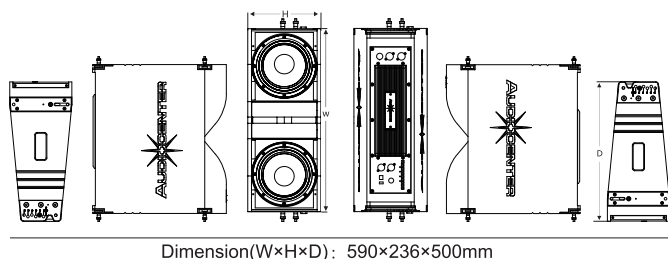
K-LA28-DSP, is an active DSP-controlled line array speaker, designed for high requirements of touring performance, rental and fixed installation.

The HF driver of K-LA28-DSP 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-DSP are available for the users to choose according to different environments and music styles.

K-LA28-DSP system can be used as main PA sound reinforcement with 2 cabinets at least and 16 cabinets maximum per array.

K-LA28-DSP 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 flied, there are customized frames suitable for both ground stacking (maximum 4 cabinets) or stacking on the stand (maximum 2 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
- 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 from PASCAL
- 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 Series subwoofer (K-LA28-DSP can be flied with K-LA118-DSP with same hanging frame.), SW Series subwoofer, K-LA Series subwoofer



SPECIFICATION

Type	Active DSP-controlled full range loudspeaker
Application	2 cabinets minimum, 16 cabinets maximum per array
Frequency Response (-6dB anechoic chamber)	60Hz-20KHz
Maximum Calculated SPL/1M	128dB
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×NEUTRIK® female XLR
Signal Output	1×NEUTRIK® male XLR
Power Input	Power connector
Power Output	Power connector
Working Voltage	85V-265V 50Hz (60Hz)
Cabinet	
Angle Adjustment	0°, 2°, 4°, 6°, 8°, 10°
Cabinet Material	Russian birch plywood CNC made
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-LA210-DSP

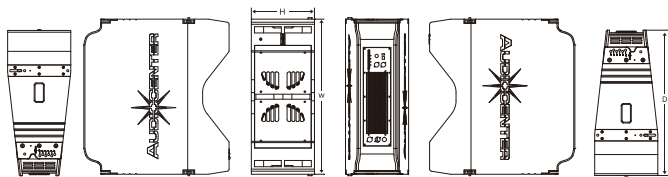
K-LA210-DSP, an active DSP-controlled line array speaker, is designed for high requirements of touring performance, rental and fixed installation.

The HF driver of K-LA210-DSP is customized Beyma driver with composite membrane (2.84"voice coil), and the LF driver are two customized Beyma 10"drivers (2.5"voice coil).

User Selectable 3 presets (Linear, HFX, W/SUB) in K-LA210-DSP are available for the users to choose according to different environments and music styles.

K-LA210-DSP system can be used as main PA system with 3 cabinets minimum and 16 cabinets maximum per array.

K-LA210-DSP can be suspended vertically. The integrated hardware with innovative fast lock mechanics built-in to the cabinet with high intensity 9.5mm 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 flied, there are customized frames suitable for ground stacking (maximum 4 cabinets) to meet different requirements of installation and reinforcement environment.



Dimension(W×H×D): 742×302×695mm

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
- Dual phase plug design for an extremely precise dispersion
- 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 from PASCAL
- 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

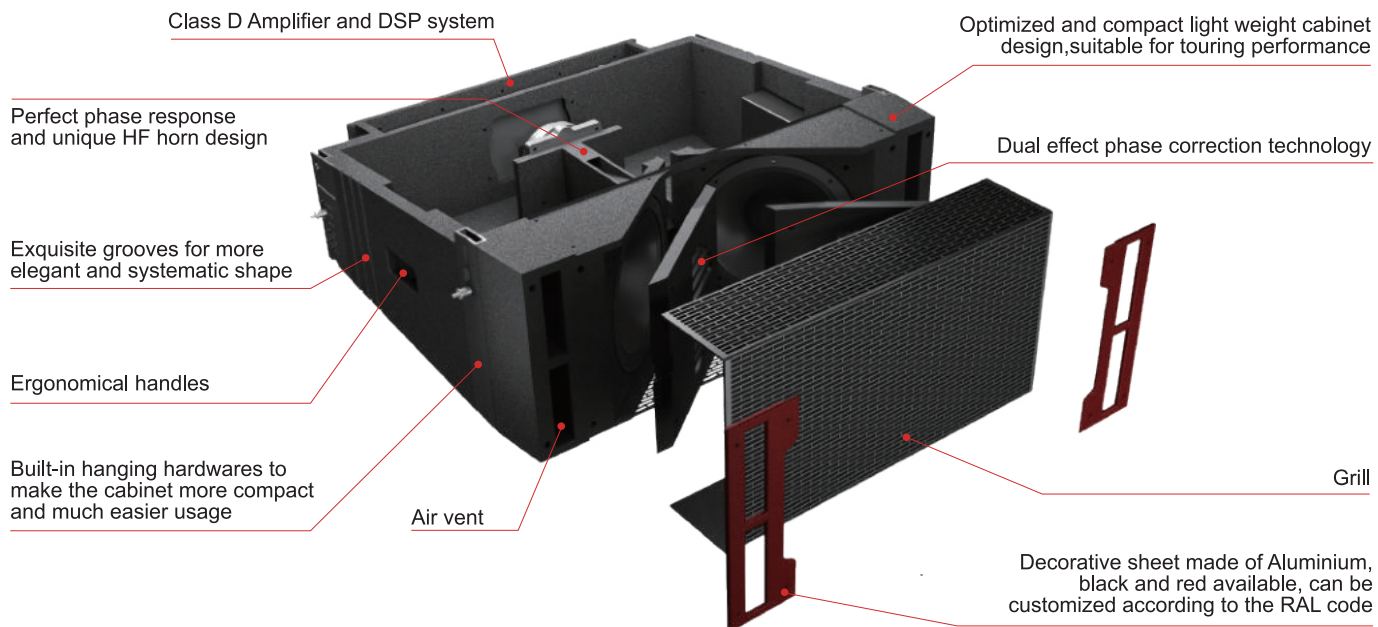
- K-LA-DSP, SW, K-LA Series subwoofer



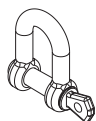
SPECIFICATION

Type	Active DSP-controlled full range loudspeaker
Application	3 cabinets minimum, 16 cabinets maximum per array
Frequency Response (-6dB anechoic chamber)	57Hz-20KHz
Maximum Calculated SPL/1M	133dB
LF/MF Driver	Customized Beyma ferrite driver, 2.5"voice coil
HF Driver	Customized Beyma ferrite driver, 1.4"exit, 2.84"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×NEUTRIK® female XLR
Signal Output	1×NEUTRIK® male XLR
Power Input	Power connector
Power Output	Power connector
Working Voltage	85V-265V 50Hz (60Hz)
Cabinet	
Angle Adjustment	0°, 1°, 2°, 3°, 4°, 6°, 8°, 10°
Cabinet Material	Russian birch plywood CNC made
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	742×302×695mm
Net Weight	38.5Kg

PROFILE



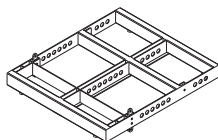
ACCESSORIES



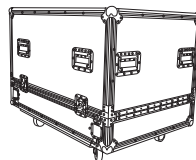
M20 D shackle
Bearing 3T



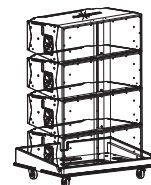
2M / 3M flying belt
Made of synthetic fibre,
bearing 2T/4T



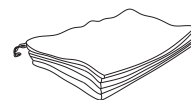
**Frame for flying and
ground stacking**



Flightcase
For 2 cabinets,
with 100mm wheels

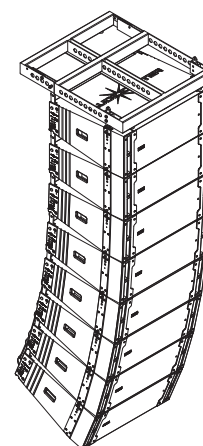
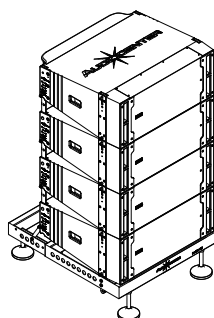
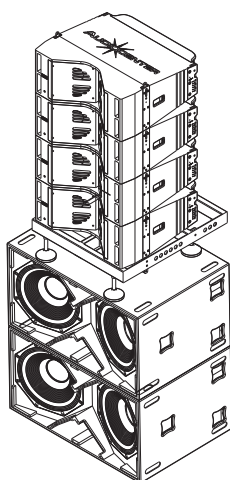


Dolly (customized)
For 4 cabinets



Rain bag
(customized)

INSTALLATIONS



K-LA212-DSP90/K-LA212-DSP60

K-LA212-DSP90 / K-LA212-DSP60 is an active DSP-controlled line array speaker. It can be compared to three-way systems for the sound performance, and with more compact size and lighter weight, K-LA212-DSP90 / K-LA212-DSP60 has more advantages for easier handling and transportation.

The K-LA212-DSP90 / K-LA212-DSP60 incorporates a novel phase corrector, which shifts the center of the speakers closer to the center of the box. This same corrector optimizes the working frequency of the speaker 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 performance and fixed installations.

The HF drivers are two customized Beyma drivers with composite membrane (2.84" voice coil), and the LF drivers are two customized Beyma 12" drivers (3" voice coil).

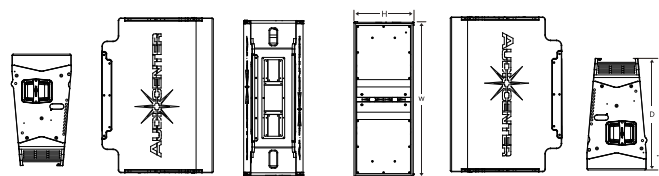
K-LA212-DSP90 / K-LA212-DSP60 system can be used as main PA sound reinforcement with 3 cabinets at least and 16 cabinets maximum per array.

K-LA212-DSP90 / K-LA212-DSP60 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).



SPECIFICATION

Type	Active DSP-controlled full range loudspeaker
Application	3 cabinets minimum, 16 cabinets maximum per array
Frequency Response (-6dB anechoic chamber)	55Hz-20KHz
Maximum Calculated SPL/1M	135dB
LF/MF Driver	Customized Beyma ferrite driver, 3" voice coil
HF Driver	Customized Beyma Neodymium driver, 1.4" exit, 2.84" voice coil
K-LA212-DSP90 Horizontal Coverage Angle (Symmetrical)	90°
K-LA212-DSP60 Horizontal Coverage Angle (Symmetrical)	60°
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	Fixed System Preset
Crossover	Controlled by DSP
Output/Input	
Signal Input	1×NEUTRIK® female XLR
Signal Output	1×NEUTRIK® male XLR
Power Input	Power connector
Power Output	Power connector
Working Voltage	85V-265V 50Hz (60Hz)
Cabinet	
Angle Adjustment	0°, 1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°
Cabinet Material	Russian birch plywood CNC made
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	899×344.5×647.5mm
Net Weight	59.0Kg



Dimension(W×H×D): 899×344.5×647.5mm

FEATURES

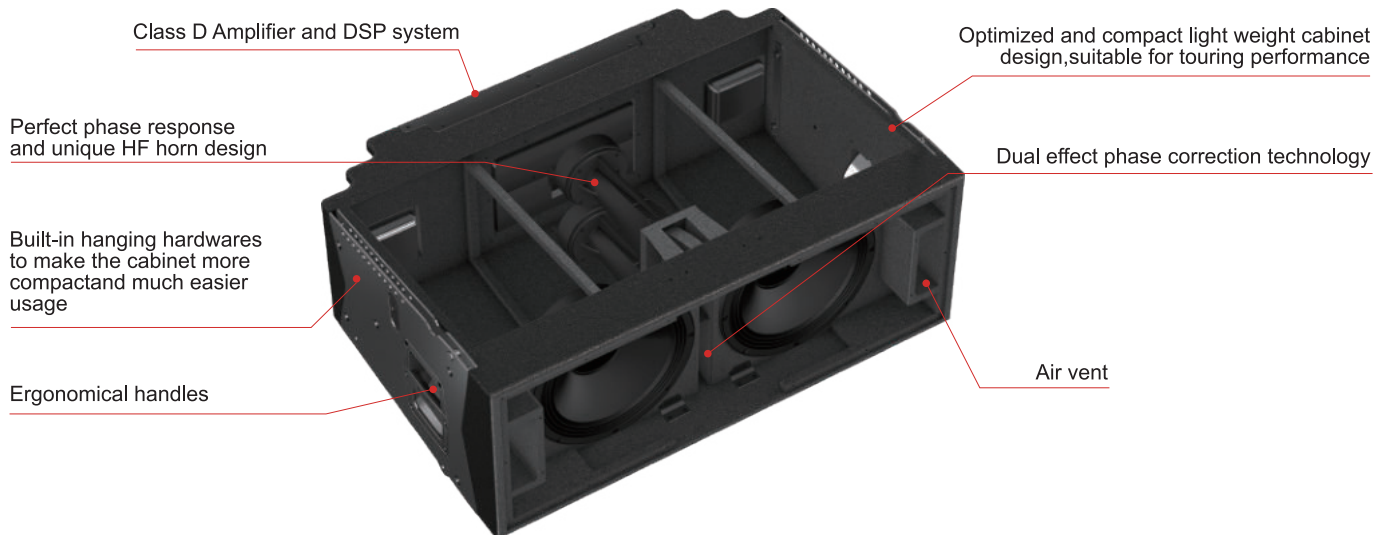
- Customized driver from Beyma
- PTV HF horn ensures even coverage and optimized for smooth frequency response
- Dual phase plug design for an extremely precise dispersion
- Hi end digital controller on board (DSP) with 96KHz signal sampling frequency, 56bit precision
- Standby mode automatically if without signal input for 15mins
- Class D amplifier from PASCAL
- 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



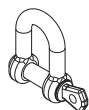
SYSTEM CONFIGURATION

- K-LA-DSP, SW, K-LA Series subwoofer

K-LA212-DSP PROFILE



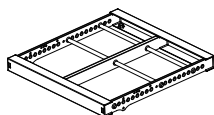
ACCESSORIES



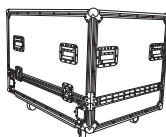
M20 D shackle
Bearing 3T



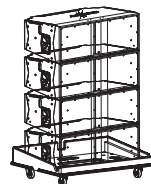
2M / 3M flying belt
Made of synthetic fibre, bearing 2T/4T



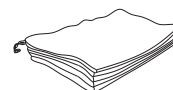
Frame for flying and ground stacking



Flightcase
For 2 cabinets, with 100mm wheels



Dolly(customized)
For 4 cabinets

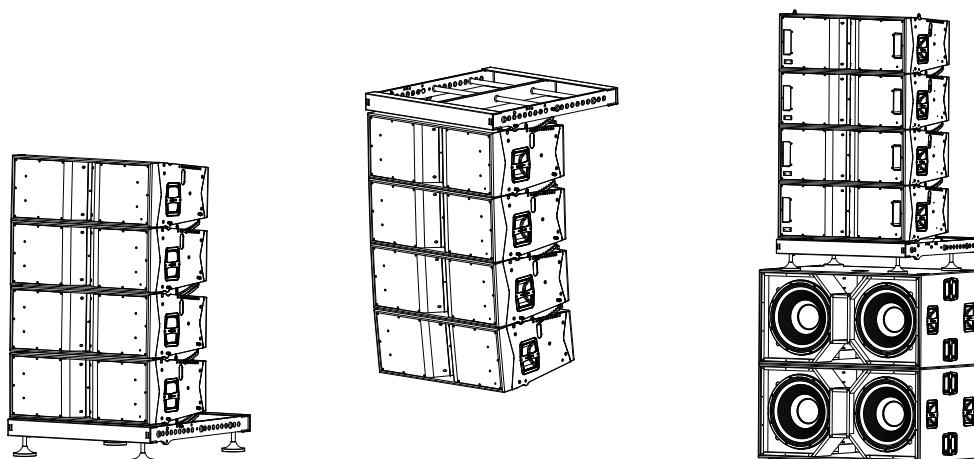


Rain bag
(customized)



Wheel

INSTALLATIONS



K-LA215S-DSP

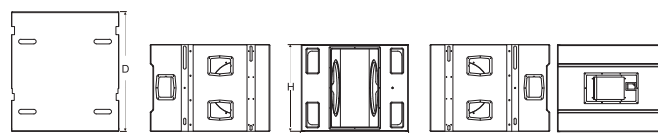
K-LA215S-DSP, an active DSP-controlled Dual 15" subwoofer, is designed to meet the high requirements of rental and fixed installation such as stadium, auto show, art performance.

The LF drivers of K-LA215S-DSP are two customized Audiocenter 15" drivers (4" voice coil). D.F.L.(Dual Frequency Loading) technology and advanced cooling system in driver ensure extremely low power compression and high SPL, increase response speed and decrease inertial offset at the most.

User Selectable 3 low-pass filters (80Hz, 100Hz, 120Hz) in K-LA215S-DSP are available for the users to choose according to different environments and music styles.

K-LA215S-DSP is a perfect match for all Audiocenter full range speakers, extending band width of frequency response and delivering powerful, impressive, punchy bass sound. K-LA215S-DSP can be flied with K-LA210-DSP with same hanging frame.

The cabinet is made of CNC made Russian birch plywood, and is tongue and groove assembly.



Dimension(W×H×D): 742×600×828mm

FEATURES

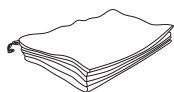
- Hi end digital controller on board(DSP) with 96KHz signal sampling frequency, 56bit precision
- Standby mode automatically if without signal input for 15mins
- Class D amplifier
- Advanced cooling system in the driver
- Rock solid humidity free birch plywood CNC made cabinet
- Comprehensive accessories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



SYSTEM CONFIGURATION

- K-LA, K-LA-DSP Series line array

ACCESSORIES



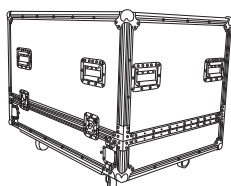
Rain bag(customized)



Wheel



Dolly
For 2 cabinets



Flightcase
For 1 cabinet,
with 100mm wheels

SPECIFICATION

Type	Active DSP-controlled Compact Subwoofer
Frequency Response (-6dB anechoic chamber)	35Hz-300Hz
Maximum Calculated SPL/1M	138dB
LF Driver	Customized Audiocenter ferrite driver, 4"voice coil
AMPLIFIER	
Amplifier Circuitry	Class D
Power(RMS standards)	2800W
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×NEUTRIK® female XLR
Signal Output	1×NEUTRIK® male XLR
Power Input	Power connector
Working Voltage	85V-265V 50Hz (60Hz)
Cabinet	
Cabinet Material	Russian birch plywood CNC made
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	742×600×828mm
Net Weight	90.0Kg

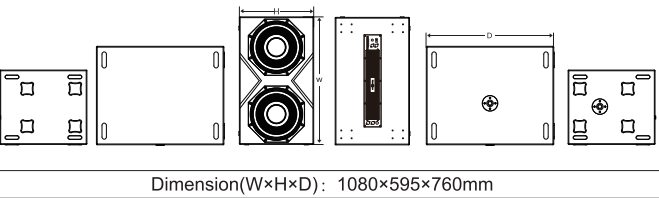
K-LA218-DSP

K-LA218-DSP, an active DSP-controlled Dual 18"subwoofer, is designed to meet the high requirements of touring performance, rental and fixed installation.

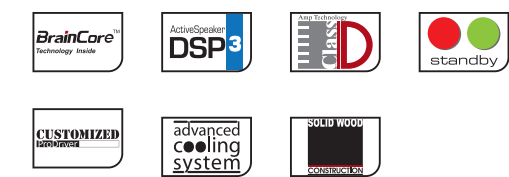
The LF drivers of K-LA218-DSP are two customized Audiocenter 18"drivers (4"voice coil).

User Selectable 3 low-pass filters (80Hz, 100Hz, 120Hz) in K-LA218-DSP are available for the users to choose according to different environments and music styles.

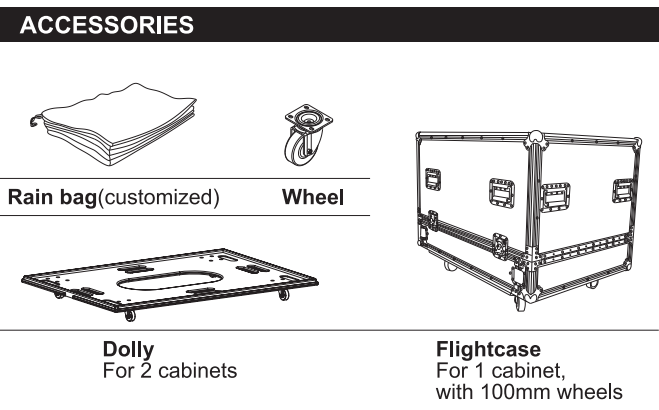
K-LA218-DSP is a perfect match for all Audiocenter full range speakers, extending band width of frequency response and delivering powerful, impressive, punchy bass sound.



- 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 from PASCAL
 - Advanced cooling system in the driver
 - Rock solid humidity free birch plywood CNC made cabinet
 - Comprehensive accessories suitable for different applications



- SYSTEM CONFIGURATION
- K-LA, K-LA-DSP Series line array



SPECIFICATION	
Type	Active DSP-controlled Compact Subwoofer
Frequency Response	32Hz-150Hz
Maximum Calculated SPL/1M	140dB
LF Driver	Customized Audiocenter ferrite driver, 4"voice coil
AMPLIFIER	
Amplifier Circuitry	Class D
Power(RMS standards)	2800W
Frequency Response	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×NEUTRIK® female XLR
Signal Output	1×NEUTRIK® male XLR
Power Input	Power connector
Working Voltage	85V-265V 50Hz (60Hz)
Cabinet	
Cabinet Material	Russian birch plywood CNC made
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	1080x595x760mm
Net Weight	101.0Kg

■ K-LA-DSP Series Specifications

SPECIFICATIONS		K-LA28-DSP	K-LA210-DSP	K-LA212-DSP90 K-LA212-DSP60	K-LA215S-DSP	K-LA218-DSP
Frequency Response (-6dB anechoic chamber)		60Hz-20KHz	57Hz-20KHz	55Hz-20KHz	35Hz-300Hz	32Hz-150Hz
Horizontal Coverage Angle (Symmetrical)		100°		90°(K-LA212-DSP90) 60°(K-LA212-DSP60)	/	
Vertical Coverage Angle (Symmetrical)		Depend on the amount of the speaker and curvature of the line array			/	
Maximum Calculated SPL/1M	Continuous	122dB	127dB	129dB	132dB	134dB
	Program	125dB	130dB	132dB	135dB	137dB
	Peak	128dB	133dB	135dB	138dB	140dB
Drivers	HF	Customized Beyma ferrite driver,1.75" voice coil,1" exit	Customized Beyma ferrite driver, 2.84" voice coil,1.4" exit	Customized Beyma Neodymium driver, 2.84" voice coil,1.4" exit	/	
	MF	Customized Beyma ferrite driver, 2" voice coil	Customized Beyma ferrite driver, 2.5" voice coil	Customized Beyma ferrite driver, 3" voice coil	/	
	LF			Customized Audiocenter ferrite driver, 4" voice coil		
Crossover and Slope		Controlled by DSP				
Signal Input / Output Connectors		Female XLR input, male XLR output				
Connectors		/				
Power Input Connectors		Power connector				
Power Output Connectors		Power connector			/	
Working Voltage		85V-265V 50Hz(60Hz)				
DSP						
Processor		96KHz signal sampling frequency, 56bit precision				
presets		Linear, HFX, W/SUB		Fixed System Preset	80Hz, 100Hz, 120Hz	
AMPLIFIER						
Amplifier		Class D				
Power(RMS standards)		1600W			2800W	
Frequency Response (1W 8Ω 2ch)		20Hz-20KHz(±0.5dB)			20Hz-6KHz(±0.5dB)	
Intermodulation Distortion (20Hz-20KHz, half power)		<0.05%				
Total Harmonic Distortion (20Hz-20KHz, Rated power 8Ω)		<0.05%				
Cooling		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	742×302×695mm	899×344.5×647.5mm	742×600×828mm	1080×595×760mm
Net Weight		25.0Kg	38.5Kg	59.0Kg	90.0Kg	101.0Kg
Technical Support and After-sales Service		Global application support team, EASE GLL files				

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