AUDIOCENTER

Dynamic Audio Solutions

K-LA Series

User's Manual

Vertical Line Array Systems

RevisionA7-2024-06

Welcome into the world of Audiocenter,a world of Dynamic Audio Solutions.By acquiring a K-LA series speaker,you will enjoy a product embedded with the last technological chievement and the best materials in pro audio.Many years of effort were put to reach our goal of excellence,creating a system without any quality or compromise for compromise for real professional people.We hope you will be pleased to use your new speaker like we are pleased to dessign it.

Safety Precautions

When setting up, installing and using the K-LA series speaker system,there ate a number of important safety precautions that you should follow:

1 Some aspects of ringging are potentially hazardous.Any people using this equipment are personally responsible for their own safety.Audiocenter transactions are made with the assumption that the purchaser is a qualified individual or will have only qualified individuals perform work with the equipment.
2 We strongly recommend that suspended speakers take into account all current national,federal,state and local regulations.It is the responsibility of the installer to ensure that,speakers are safely in accordance with all such regulations.
3 If any sign of weakness or damage is detected,remedial action should be taken immediately.
4 When speakers are used for portable applications in which they will be positioned directly on the floor, make sure that the floor or stage is solid secure.Do not try to make the stand “taller” and compromise its structural integrity.
5 Do not attempt to suspend more than one speaker on a stand designed for a single speaker.
6 Route cables and position the stand so that performers,production crew and audience members will not trip over the stand or cables and pull the speaker system over.Secure cables with wire ties or tap whenever possible.
7 Do not place loudspeakers neat the magnetic sensitivity devices such as CRT display,television monitors or date storage material.
8 Loudspeakers are capable of generating sound pressure levels sufficient to cause permanent hearing damage to anyone within normal coverage distance.Caution should be taken to avoid prolonged exposure to sound pressure levels exceeding 105dB SPL.
9 To obtain service,contact your nearest Audiocenter Service Center or Dealer.

Preventing Loudspeaker Damage

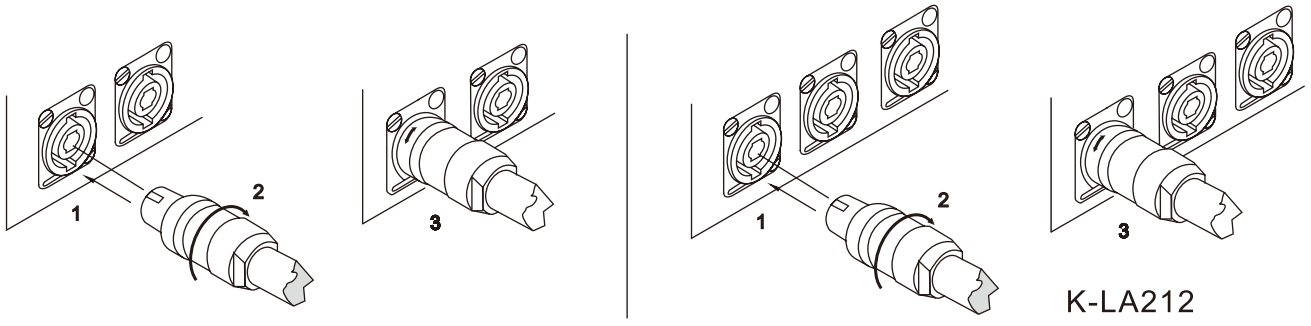
In general,the more powerful the amplifier the better it will sound,provided that it is not driven into sustained clipping.It should be understood that over driving an insufficiently powered amplifier is more likely to casue loudspeaker damage.The total energy is a heavily clipped signal is far higher than in an unclipped singal-than operating a more powerful a amplifier within its ratings.

For long time working,it‘s very important to use a processor connected before amplifier,calculate accurately the Numerical value of the limiter about the system,which will be set into the processor.

If you don‘t have value of the limiter,please contact us .We look forward to helping you!

Connecting Guidance

K-LA series uses two NEUTRIK® NL4MP SPEAKON connectors.These connectors are spectific designed for loudspeake use,with in mind safe reliable connection.To use your loudspeaker,insert the male SPEAKON connector into any of the input SPEAKON socket and rotate it clockwise.It will then lock into place and be ready for use.The two parallel connectors allow easy loop from one speaker to the next. Unused connector pins are also paralleled.Both connectors can be used as either inputs or outputs.



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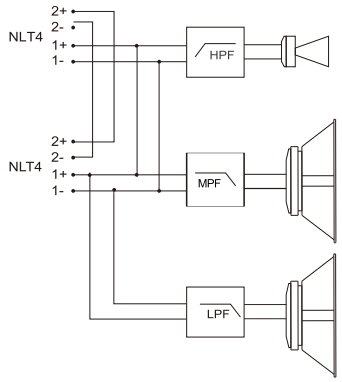
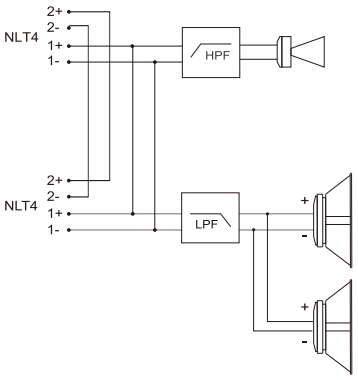
Wiring and connecting

To ensure quality sound and minimum power loss, the speaker cable needs to have a large enough cross section depending on the cable length,number of speakers per channel and speaker impedance.The total impedance for a number of speakers in parallel is equal to the impedance of one divided by the number of speakers.

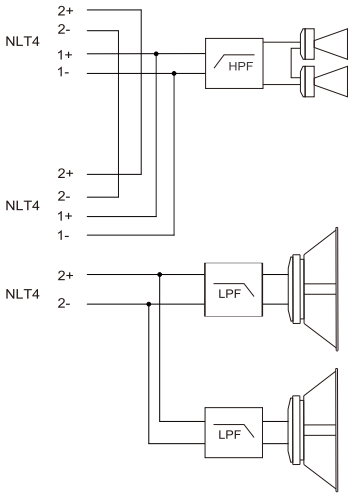
Wiring schematic



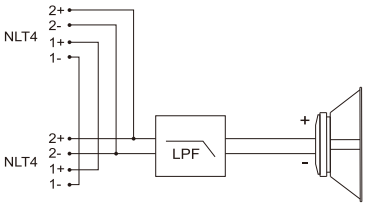
K-LA28



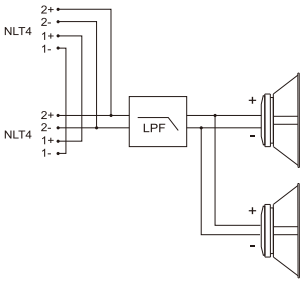
K-LA210



K-LA212



K-LA118



K-LA215S/K-LA218

K-LA28

K-LA210

K-LA212

K-LA118

K-LA215S

K-LA218

■ K-LA Series Specification

SPECIFICATIONS		K-LA28	K-LA210	K-LA118	K-LA215S	K-LA218
Power (AES standards)	**Rated**	400W	500W	800W	1400W	1600W
	Program	800W	1000W	1600W	2800W	3200W
	Peak	1600W	2000W	3200W	5600W	6400W
Impedance		4Ω	8Ω		4Ω	
Frequency Response (-6dB anechoic chamber)		60Hz-20KHz	57Hz-20KHz	32Hz-200Hz	35Hz-300Hz	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**	122dB	127dB	131dB	132dB	134dB
	Program	125dB	130dB	134dB	135dB	137dB
	Peak	128dB	133dB	137dB	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	/		
	MF	Customized Beyma ferrite driver, 2” voice coil	Customized Beyma ferrite driver, 2.5” voice coil	/		
	LF			Customized Audiocenter ferrite driver, 4” voice coil		
Crossover Points		450Hz 2.2KHz passive	1.2KHz passive	Active		
Cabinet		Multilayer baltic birch plywood				
Connectors		2 x NEUTRIK® NL4MP				
Optional Accessories		Flightcase with 100mm wheels / Durable rain bag / D shackle /Stainless steel wire / Flying frame				
Dimensions(W×H×D)		590×236×436mm	742×302×615mm	590×639×800mm	742×600×828mm	1080×595×760mm
Net Weight		19.0Kg	33.5Kg	51.0Kg	64.0Kg	85.0Kg
Technical Support and After-sales Service		Global application support team, EASE GLL files				

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Http://www.audiocenter.net E-mail: Info@ac-pro.net