CLA-K Series

Professional Line Array Speaker System



CLA-8K / Dual 8" 2Way Bi-amp Line Array Speaker

CLA-18SK / 18" Line Array Subwoofer

CLA-5K / Dual 5" 2Way Bi-amp Compact Line Array Speaker

CLA-15SK / 15" Line Array Compact Subwoofer

CLA-8K

Dual 8" 2Way Bi-amp Line Array Speaker

CLA-18SK

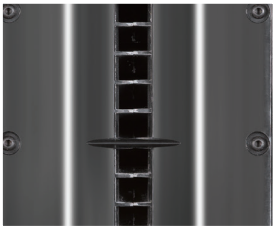
18" Line Array Subwoofer



HF Waveguides ▶

CLA-8K Rear ▶▶

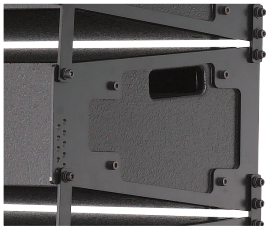
CLA-8K Rigging System ▶▶▶







〈 Pin Type 〉



〈 Bolt Type 〉

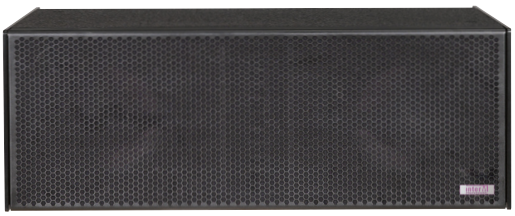
▼ CLA–8 Front (Without Grill)



OVERVIEW

CLA-8K is designed for line array so it is possible to use in diversity locations. The 8" high quality of low sound driver was settled and two of 1" high output titanium tweeter is installed at waveguide so it can be made line sound of high level for necessary source of line array.
Base on the 1 degree, Each speaker can be controlled the degree from 0 to 10 degree and the degree of array is decided according to top and bottom angle of each speaker.
The high output tweeter that is installed in waveguide passes on stable sound signal to 90 degree of wide range and clearer sound can be played using by paging plug.
When the full range of array is composed, the arrangement of only CLA-8K can be played wide range of frequency. For music performance and other events, it is possible to install with sub woofer, CLA-18SK, as flying type or ground stack to reinforce low sound.
The cabinet of CLA-8K is made by premium Birch plywood which made in North Europe and the front panel is manufactured by steel grill. Also, the handle grips are settled on the right and left sides for carrying with flying tools made by steel. It supports bolt type and pin type for easy installation.
The installment of frying speak can make through this frying tools.
The two pieces of NL4 connectors can be connect with power amplifier by directly or connect with speaker in parallel.

CLA-18SK is the sub woofer which 18' premium high output driver is settled can be used with CLA-8K or can be used by itself. The cone type woofer driver that has high output and used Long-Excursion method of CLA-18SK is settled on the front panel and the reflect sound on back side is designed for helping reinforcement of low level by fort.
CLA-18SK is can be used for diverse types with full range of CLA-8K speaker. The frying type is possible when CLA-18SK is settled on top of CLA-8K speakers and ground stack is also possible if the CLA-18SK stand on the ground and then put on CLA-18SK. CLA-18SK can be used as subwoofer for reinforcement of low sound with CLA-8K when it set up on the bottom depend on needs.



CLA-8K Dual 8" 2Way Bi-amp Line Array Speaker



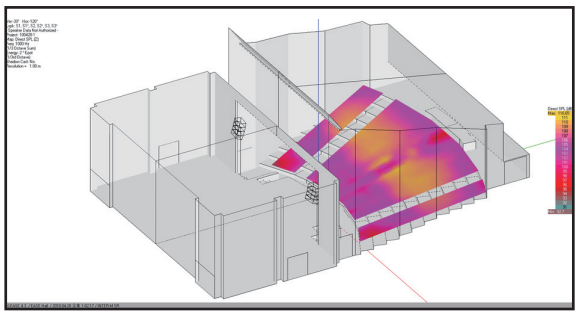
- Compact Line Array Module, 2x8″2way Bi–amp Full range
- Integrated device system for easy & speedy installation
- Wide horizontal range of 90°
- Can be used with multi–purpose 18" subwoofer
- Able to ground stack
- Scandinavian premium grade 15T birchwood enclosure
- Practical and good quality components
- Precise wave guide in 25mm(1") Tweeter
- Supports bolt type and pin type for easy installation

CLA-18SK 18" Line Array Subwoofer

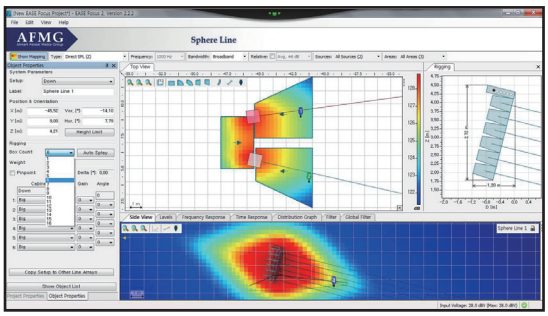


- Compact Flying–Sub Module, 18″subwoofer
- Integrated device system for easy & speedy installation
- 138dB SPL output at maximum
- Integrated device system for ground stack with CLA–8K or suspending

EASE Programme ▼



EASE FOCUS Programme ▼



High quality driver



CLA-K series used the high quality driver for producing of dynamic sound and enough low sound. The driver that is used for CLA-K has consistent quality and high durability and can be helped to operate stably under diversity circumstances. LF driver use the forced cooling system for maximum of thermal efficiency and driver for high sound use titanium having low harmonics for playing without any distortion of sound.

Waveguide



The line array uses the ware guide for the minimizing of mutual interruption.
This guide make to change the source of high sound from circular wave to linear wave so the mutual interruption become minimized when several speaker installed as one array. Also, the design of CLA-K series are optimized for size of waveguide and CLA-K series improve the character of high sound.

Compact size of acoustic enclosure

Module type of speaker as present line array needs the compact size for interior. The enclosing is designed for providing both powerful low sound and high sound pressure. So, even the compact size of CLA-K series can be working very well. Also, the clear sound can be provided as blocking of internal resonance and absorbing of unnecessary energy by high density of sound- absorbing material.



Strong and accurate rigging system

CLA-K series supports bolt type and pin type for easy installation. The rigging system that used for CLA-K series was made for the safe installation of flying, so it is possible to install strongly.
The control of array for one degree can be possible from 0 degree to 10 degree and Based on the safe rate,5:1, 24 boxes of CLA-5K can be installed for one array and 16 boxes of CLA-8K can be made for one array.
Also, the version of touring and outdoor one can be supplied if the customer requests.



Strong enclosure- VOID FREE

Selection of wood and bonded process system are important source for high quality speaker. CLA-K series was made of premium Birch plywood which made in North Europe and there is no resonance according to vacant in plywood. The increasing durability and minimization of leaking sound can be possible by ‘DADO’ connection method of enclosure that made by the premium wood and the accurate process.

Support of EASE, EASE Focus data

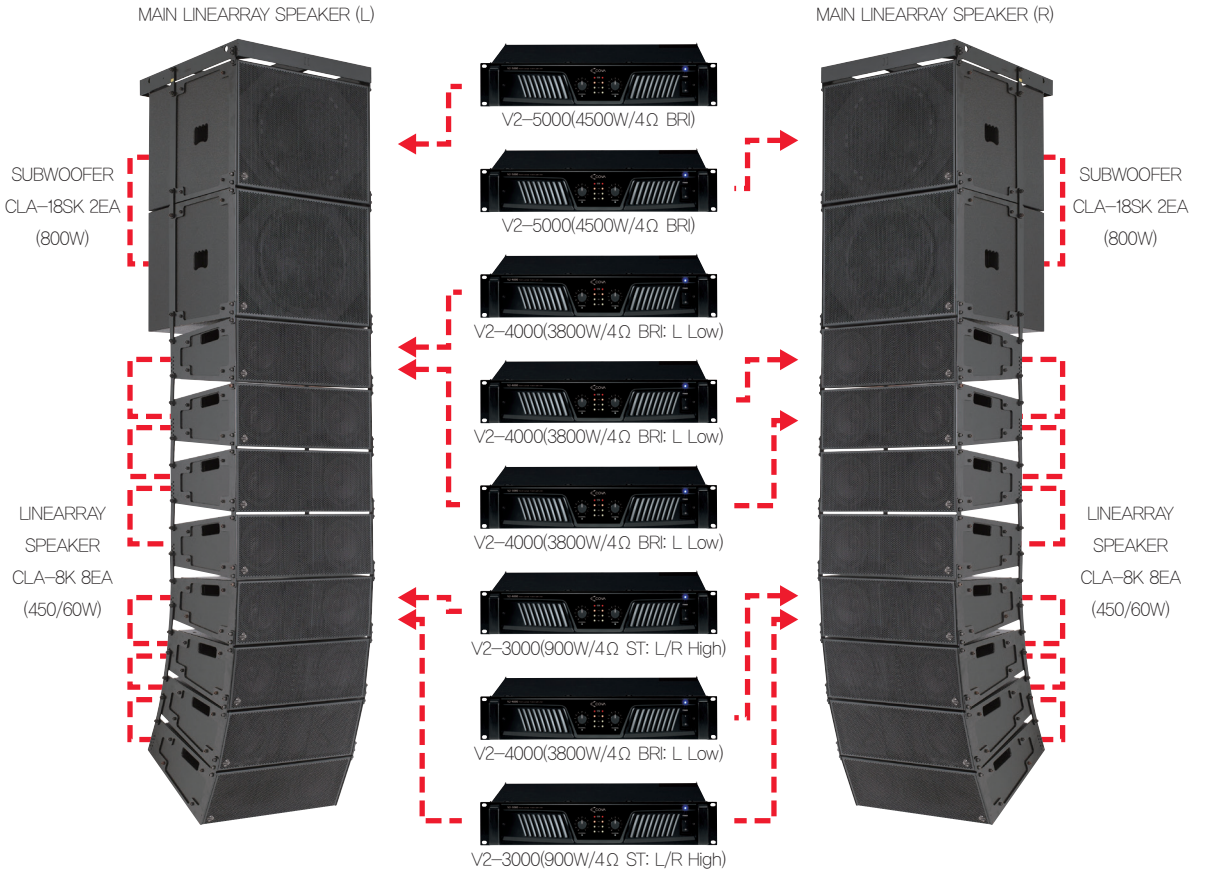


CLA-K series basically supports the EASE DATA that supports the “EASE FOCUS” software. The EASE Focus supports the simple simulation for installation companies and operators and they do not need to purchase this software because it can be downloaded at the internet. For more exact simulation, the system designer can test the same file at EASE software, and it can be estimated more accurately by 3D type of data.

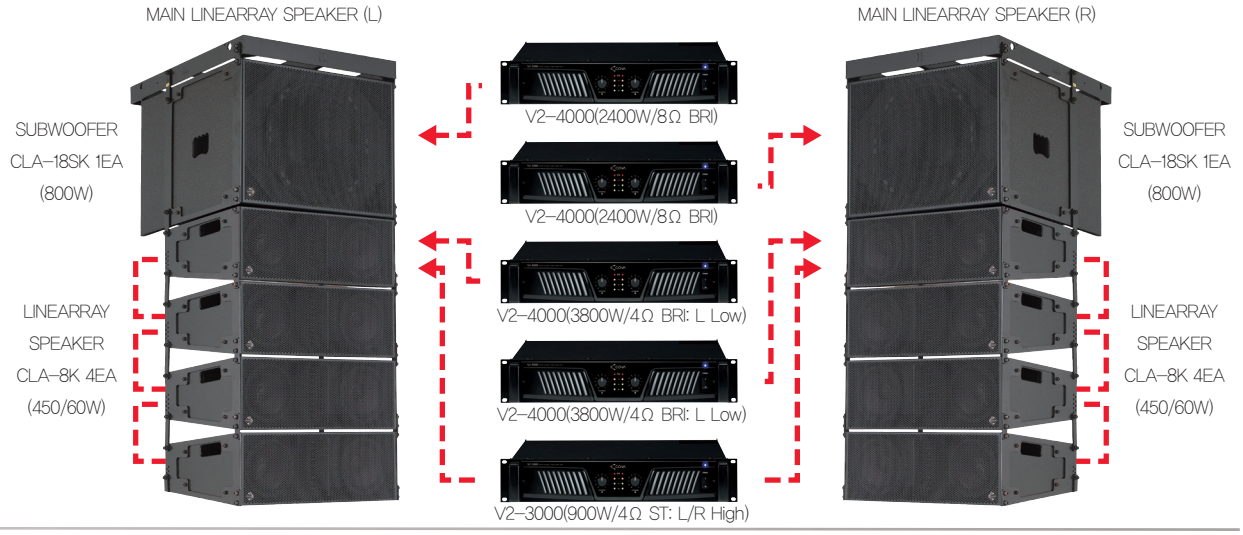
The composition source of system

Model	Function	Performance	Image
Full range line array **CLA-8K**	The main element of CLA-8K system. Play high quality sound and minimize the decreasing of sound pressure according to distance. One circuit can connect with up to four boxes	• 2×8” LF driver • 450W AES/ 1800W Peak • 2×1” HF driver • 60W AES/ 240W Peak • LF : 124.6dB HF : 122.69dB Max. SPL • Plane wave Guide • 90deg Horn • Bi-amp with HF protection • 16/16ohms LF/HF impedance	
Sub woofer line array **CLA-18SK**	Improve of the low sound for CLA-8K system. Minimize the visual parts through hanging with CLA-8K.	• 18” Long-excursion driver • 800W AES/ 3200W Peak • 138dB Max SPL • Extended to 35Hz • 8ohms impedance	
Rigging flame **CLA-8K FRAME**	This flame can be support the installation of rigging for CLA-8K Up to 24 boxes of CLA-8K can be installed based on safe rate (5:1)	• Power-coated steel frame • MAX rigging • 14 boxes @ 5:1 safety factor • 10 boxes @ 7:1 safety factor	
Speaker processor **CSP-4.8**	Digital speaker processor which is included in the circuit for protecting of speaker can be controlled the quality of sound of CLA-8K system and optimized of space.	• 4IN/ 8OUT DSP • Gain, Matrix, Delay • PEQ, X-OVER, Comp, Limiter • Front/USB(GUI) control	
Power amplifier **V2 SERIES**	The professional amplifier that can play high quality sound and has light weight can be played dynamic range. The output range is more than twice of speaker output.	• Light-weight High-power • Class-H, SMPS type • 2U size up to 5000W • V2-5000 for CLA-18K SUB • V2-4000 for CLA-8K LF • V2-3000 for CLA-8K HF	

CLA-8K & 18SK System Concept-1 : Worship / Auditorium



CLA-8K & 18SK System Concept-2 : Educational institutions / Auditorium / Gymnasium









CLA-5K

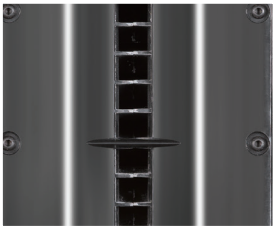
Dual 5" 2Way Bi-amp Compact Line Array Speaker

CLA-15SK

15" Line Array Compact Subwoofer



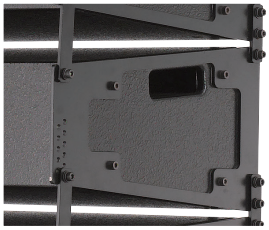
HF Waveguides ▶
CLA-5K Rear ▶▶
CLA-5K Rigging System ▶▶▶







〈 Pin Type 〉



〈 Bolt Type 〉

▼ CLA–5K Front (Without Grill)



OVERVIEW

CLA-5K is designed compact size for small spare and this size can be avoided the limit of line array. Two 5" high performance of lower driver are settled to individual housing and 1" high output of titanium tweeter was set up on waveguide so it can be produced the sound of high level. Basically, the CLA-5K is complete when the several cabinets are arranged vertically. Up to 24 pieces of speakers can be arranged for this. Base on the 1 degree, each speaker can be controlled the degree from 0 to 10 degree and the degree of array is decided according to top and bottom angle of each speaker. When the full range of array is composed, the arrangement of only CLA-5K can be played wide range of frequency. For music performance and other events, it is possible to install with sub woofer, CLA-15SK, as flying type or ground stack to reinforce low sound. The cabinet of CLA-5K is made by premium Birch plywood which made in North Europe and the front panel is manufactured by steel grill. Also, the handle grips are settled on the right and left sides for carrying with flying tools made by steel.
The installment of frying speak can make through this frying tools.
It supports bolt type and pin type for easy installation.
The two pieces of NL4 connectors can be connect with power amplifier by directly or connect with speaker in parallel.

CLA-15SK is the sub woofer which 15' premium high output driver is settled can be used with CLA-5K or can be used by itself. The cone type woofer driver that has high output and used Long-Excursion method of CLA-15SK is settled on the front panel and the reflect sound on back side is designed for helping reinforcement of low level by fort. CLA-15SK is can be used for diverse types with full range of CLA-5K speaker.
The frying type is possible when CLA-15SK is settled on top of CLA-5K speakers and ground stack is also possible if the CLA-15SK stand on the ground and then put on CLA-15SK.
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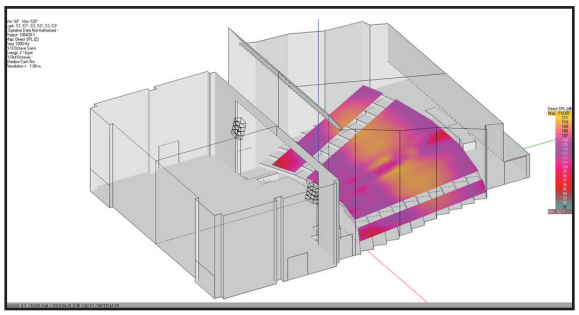
- Compact Line Array Module, 2x5″2way Bi–amp Full range
- Integrated device system for easy & speedy installation
- Wide horizontal range of 90°
- Can be used with multi–purpose 15" subwoofer
- Able to ground stack
- Scandinavian premium grade 15T birchwood enclosure
- Practical and good quality components
- Supports bolt type and pin type for easy installation

CLA-15SK 15" Line Array Compact Subwoofer

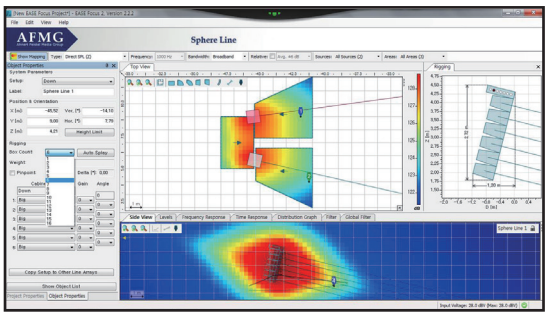


- 15" Compact Arrayable Subwoofer
- Precise bass playback
- Integrated device system for ground stack with CLA–5K or suspending

EASE Programme ▼



EASE FOCUS Programme ▼



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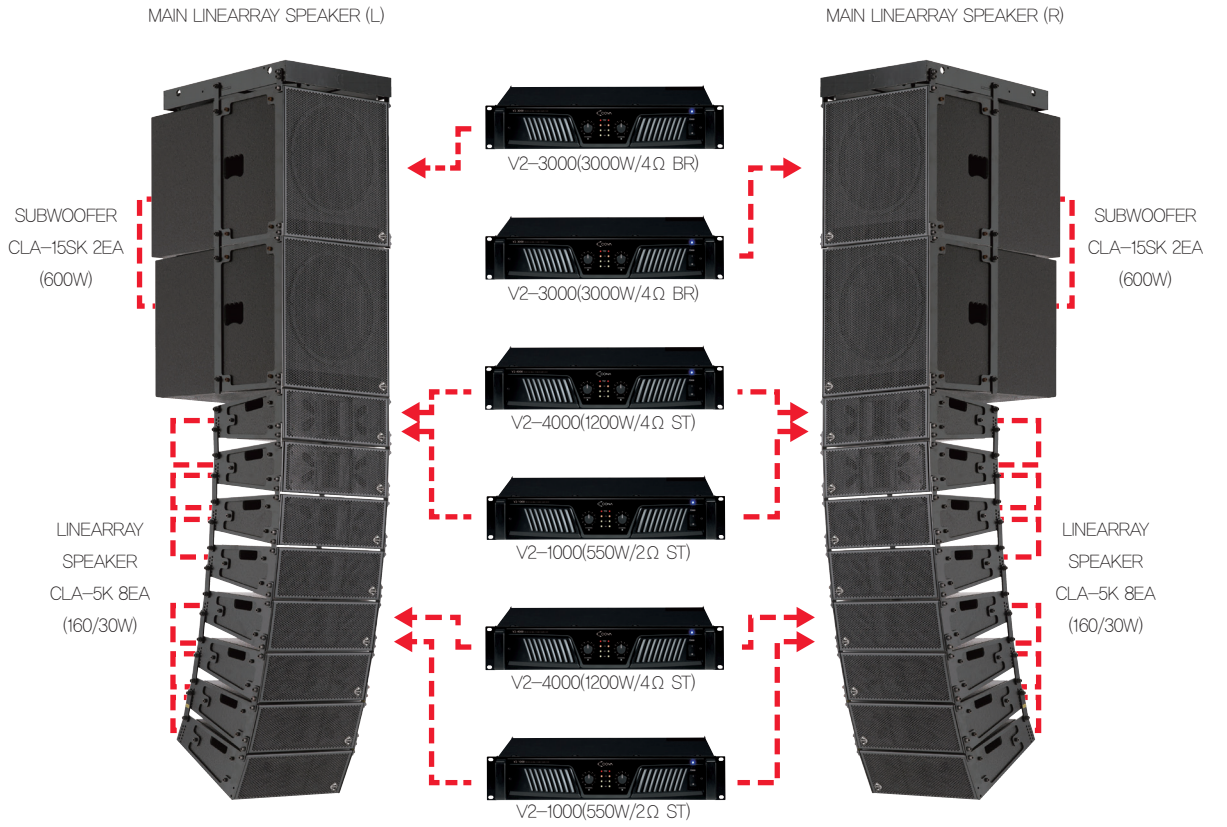
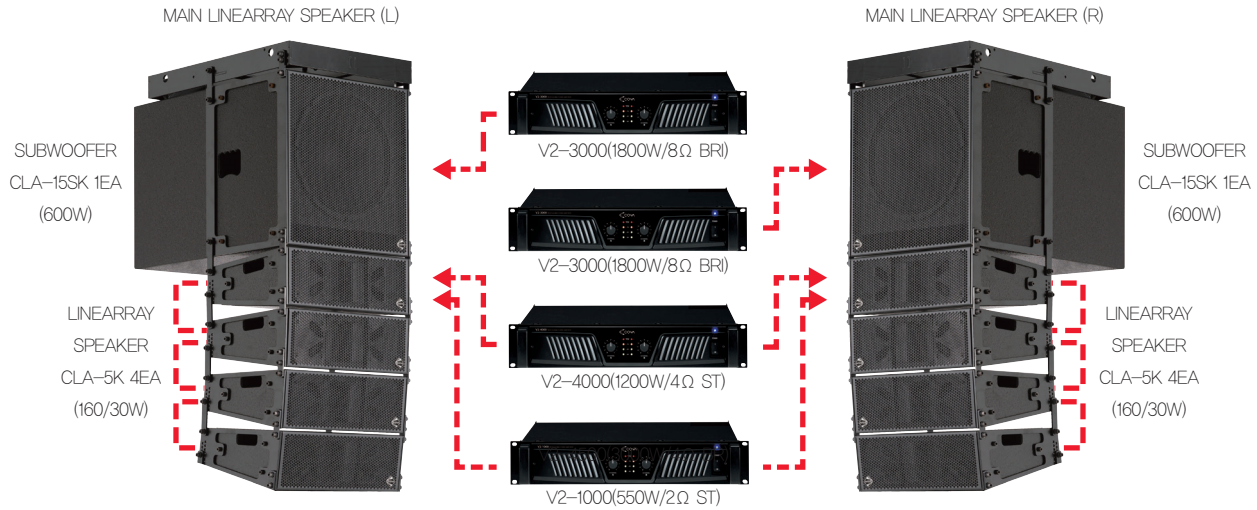
Sub woofer line array **CLA-15SK**	Improve of the low sound for CLA-5K system Minimize the visual parts through hanging with CLA-5K	• 15” Long-excursion driver • 600W AES/ 2400W Peak • 135dB Max SPL • Extended to 35Hz • 8 ohms impedance	
Rigging flame **CLA-5K FRAME**	This flame can be support the installation of rigging for CLA-5K Up to 24 boxes of CLA-5K can be installed based on safe rate (5:1)	• Power-coated steel frame • MAX rigging • 24 boxes @ 5:1 safety factor • 20 boxes @ 7:1 safety factor	
Speaker processor **CSP-4.8**	Digital speaker processor which is included in the circuit for protecting of speaker can be controlled the quality of sound of CLA-8K system and optimized of space.	• 4IN/ 8OUT DSP • Gain, Matrix, Delay • PEQ, X-OVER, Comp, Limiter • Front/USB(GUI) control	
Power amplifier **V2 SERIES**	The professional amplifier that can play high quality sound and has light weight can be played dynamic range. The output range is more than twice of speaker output.	• Light-weight High-power • Class-H, SMPS type • 2U size up to 5000W • V2-3000 for CLA-15K SUB • V2-4000 for CLA-5K LF • V2-1000 for CLA-5K HF	

CLA-5K & 15SK System Concept-1 : Culture and Sports Facilities / Small Auditorium



CLA-5K & 15SK System Concept-2 : Large Classroom / Venue

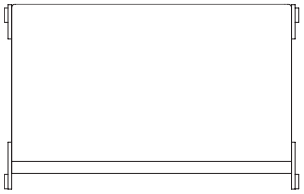






DRAWING

CLA-8K



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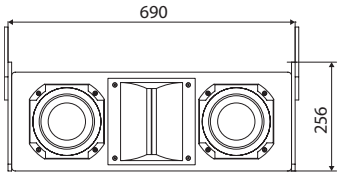

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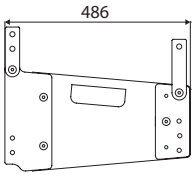

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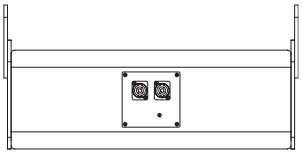

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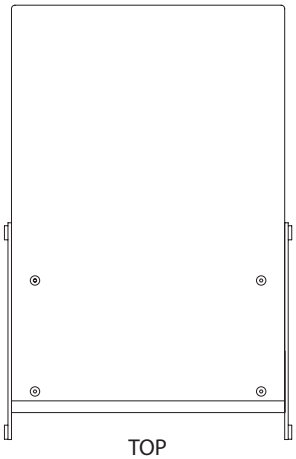
CLA-18SK



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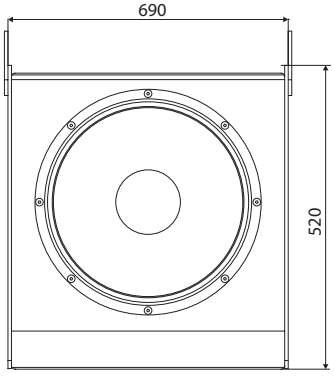

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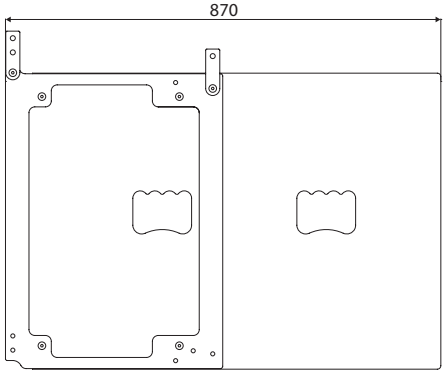

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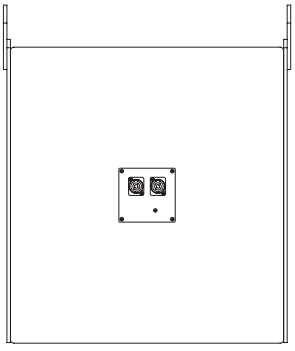

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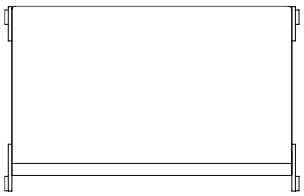
CLA–5K



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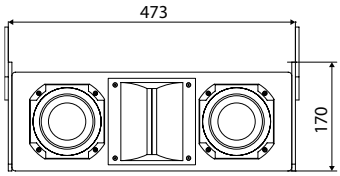

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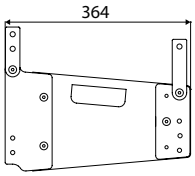

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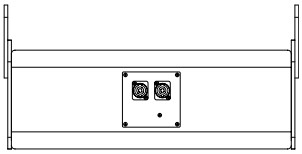

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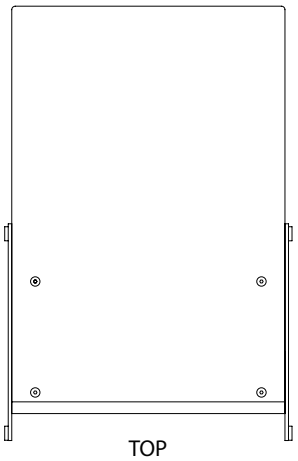
CLA–15SK



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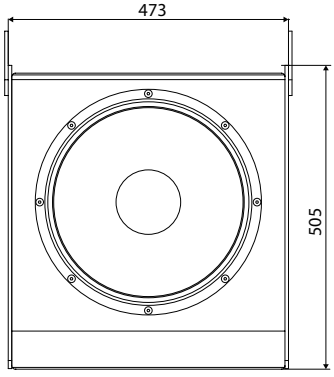

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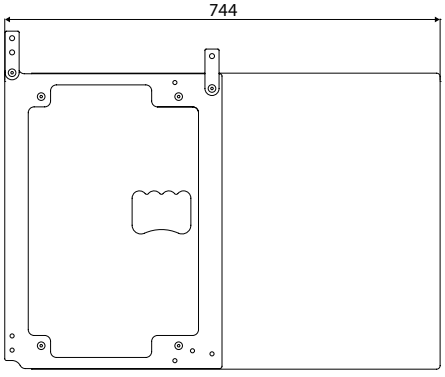

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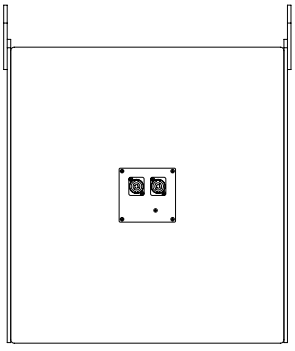

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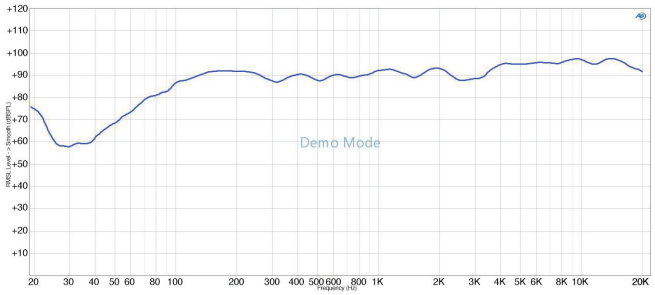
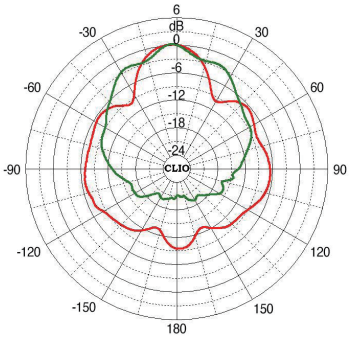
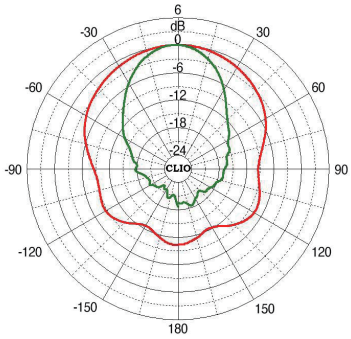
CLA-8K



FREQUENCY RESPONSE

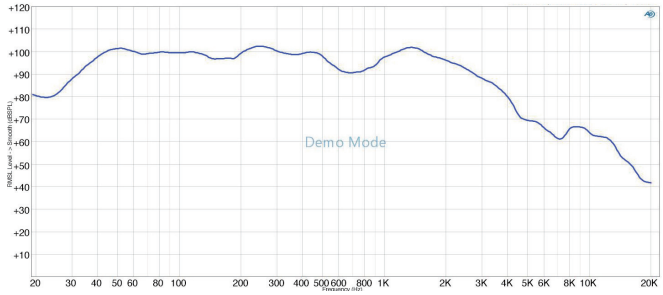


POLAR PATTERN(H)

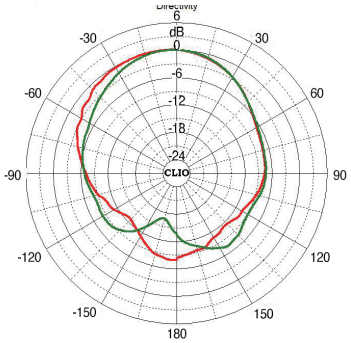


POLAR PATTERN(V)

CLA-18SK

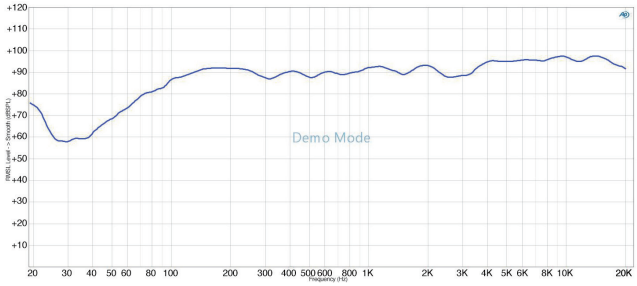


FREQUENCY RESPONSE



POLAR PATTERN(H)

CLA-5K



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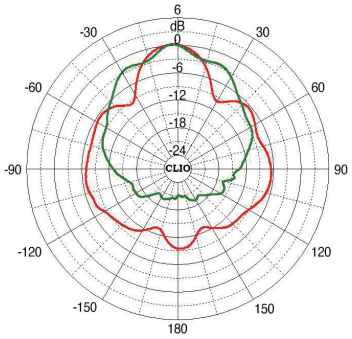
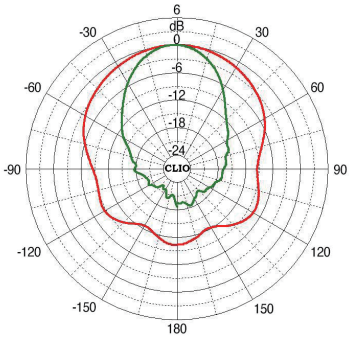
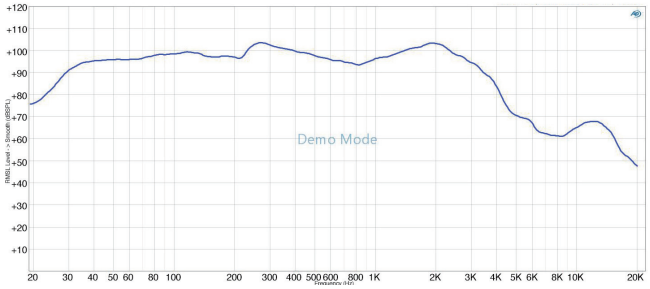


POLAR PATTERN(H)

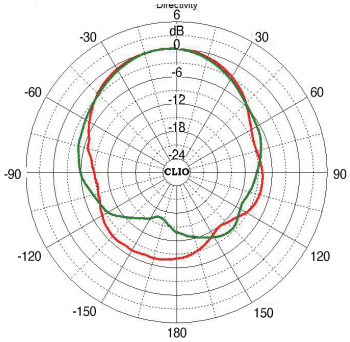


POLAR PATTERN(V)

CLA-15SK



FREQUENCY RESPONSE



POLAR PATTERN(H)

SPECIFICATION

Model	CLA-8K	CLA-18SK
Type	2Way Bi-amp Compact Line Array Speaker	Line Array Subwoofer
Frequency Response (±6dB)	127Hz ~ 20kHz	52Hz ~ 2.5kHz
Frequency Range (-10dB)	103Hz ~ 20kHz	45Hz ~ 3kHz
Power Handling (AES)	LF : 450W/HF : 60W	800W
Power Handling (Program)	LF : 900W/HF : 120W	1600W
Power Handling (Peak)	LF : 1800W/HF : 240W	3200W
Recommended Amplifier Power	LF : 900W/HF : 120W	1600W
Sensitivity (1W/1m)	LF : 98dB/HF : 105dB	103dB
Maximum SPL (Peak)	LF : 124.6dBHF : 122.69dB	138dB
Nominal Dispersion	90° H	OMNI
Nominal Impedance	LF : 16Ω/HF : 16Ω	8Ω
Crossover Point	1,400Hz, 24dB/oct, LR Filter	100Hz, 24dB/oct, LR Filter
LF Driver	8" Woofer 2" voice coil	18" Woofer 3" voice coil
HF Driver	1" Twitter 1.4" voice coil	-
Horn	Constant directivity horn with Precision waveguide	-
Enclosure Material	15T Birch Plywood, Polyurea Coating	15T Birch Plywood, Polyurea Coating
Grille	SECC 1.5t, Powder Coating / BLACK	SECC 1.5t, Powder Coating / BLACK
Connection	2 X SPEAKON (1+,1- : LF / 2+,2- : HF) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]
Fittings/Suspension	4Point flying rigging0°~10° variable angle(1°step)	4Point flying rigging
Finish	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK
Weights (Net)	25.96kg/58.9lb	49kg
Dimensions (Net, W×H×D)	694×256×486mm/27.3×10.1×19.1in	694×520×870mm/27.3×20.5×34.3in
Optional Accessories	CLA-8K Frame	CLA-8K Frame

Model	CLA-5K	CLA-15SK
Type	2Way Bi-amp Compact Line Array Speaker	Line Array Subwoofer
Frequency Response (±6dB)	80Hz ~ 18.5kHz	59Hz ~ 3kHz
Frequency Range (-10dB)	75Hz ~ 20kHz	47Hz ~ 3.5kHz
Power Handling (AES)	LF : 160W/HF : 25W	600W
Power Handling (Program)	LF : 320W/HF : 50W	1200W
Power Handling (Peak)	LF : 640W/HF : 100W	2400W
Recommended Amplifier Power	LF : 320W/HF : 50W	1200W
Sensitivity (1W/1m)	LF : 93dB/HF : 105dB	101dB
Maximum SPL (Peak)	LF : 118dB/HF : 122dB	135dB
Nominal Dispersion	90° H/10° V	OMNI
Nominal Impedance	LF : 16Ω/HF : 8Ω	8Ω
Crossover Point	2,000Hz, 24dB/oct, LR Filter	150Hz, 24dB/oct, LR Filter
LF Driver	5" Woofer 1.26" voice coil	15" Woofer 3" voice coil
HF Driver	1" Twitter 1.4" voice coil	-
Horn	Line Array Module	-
Enclosure Material	15T Birch Plywood, Polyurea Coating	15T Birch Plywood, Polyurea Coating
Grille	SECC 1.5t, Powder Coating / BLACK	SECC 1.5t, Powder Coating / BLACK
Connection	2 X SPEAKON (1+,1- : LF / 2+,2- : HF) [Parallel]	2 X SPEAKON(1+,1-) [Parallel]
Fittings/Suspension	4Point flying rigging0°~10° variable angle(1°step)	4Point flying rigging
Finish	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK
Weights (Net)	12.92kg/29.1lb	36.29kg/80.0lb
Dimensions (Net, W×H×D)	477×170×364mm/18.8×6.7×14.3in	477×505×741mm/18.8×19.9×29.2in
Optional Accessories	CLA-5K Frame	CLA-5K Frame

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※ The contents stated in this company profile may be subject to change depending on our internal circumstances.

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