



Dynamic Audio Solutions

**BrainCore™**

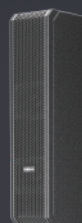
Technology Inside



**L65+L65A**  
Column System



**L65+L65S**  
Column System  
Bluetooth



**L43+L83S**  
Column System  
Bluetooth



**L83+L83S**  
Column System  
Bluetooth



## **L Series**

Compact Portable Active Column System



Plug and Play



Easy to carry



Quick installation



Even sound field

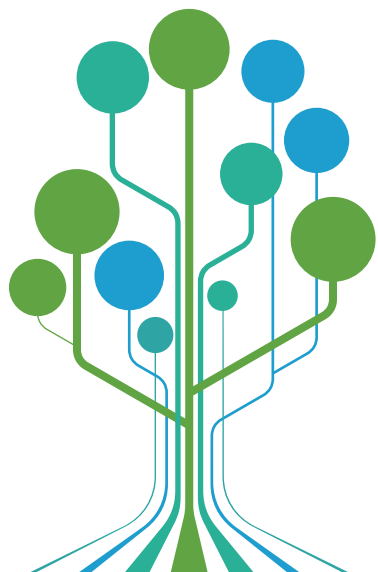


Multiple inputs



Built-in amplifier

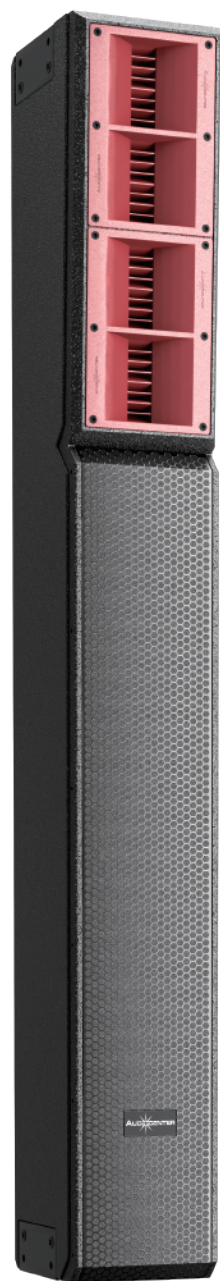
AUDIOCENTER INTERNATIONAL



# BrainCore™

BrainCore™ is an innovative core application technology researched and developed by Audiocenter, devoted to Audiocenter active DSP-controlled loudspeakers with supreme performance and high reliability.

With its advanced technology and scientific methodology, BrainCore™ analyses and processes the input signal, DSP module, Class D amplifier and loudspeaker optimally, achieving smooth transitions between the LF and HF, excellent frequency response and audio reproduction even at high levels of SPL.



## ● Innovative ETE™ Waveguide Technology

The innovative ETE™ waveguide technology realizes the perfect joint of frequency response, which provides the accurate horizontal coverage and ensures the well-balanced, clear and clean sound for the system.

## ● Innovative Phycal™ (Physical calibration) Technology

The innovative Phycal™ (Physical calibration) technology improves the coverage of vertical acoustic beam.

## ● Customized ProDriver

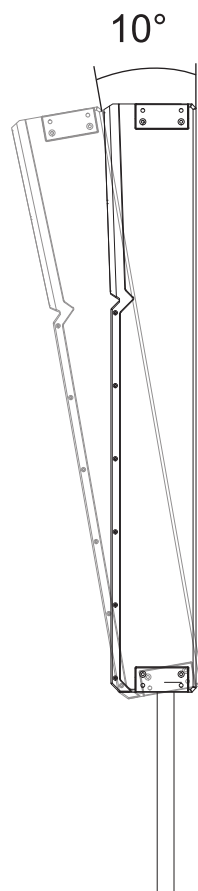
Audiocenter customized driver to ensure high-quality audio output and dynamic sound performance.

## ● Adjustable Pole Mount Design

L65/ L43/ L83 cabinet adopts 0° and 10° adjustable pole mount.

## ● Elegant Outlook

Streamlined cabinet design makes L series column system blended into various styles of applications easily.



## ● Class D Amplifier

Adopting multi-channel digital amplifier with switching power supply and built-in DSP, the system can work stably and efficiently, ensuring high quality sound performance.

## ● Advanced Cooling System

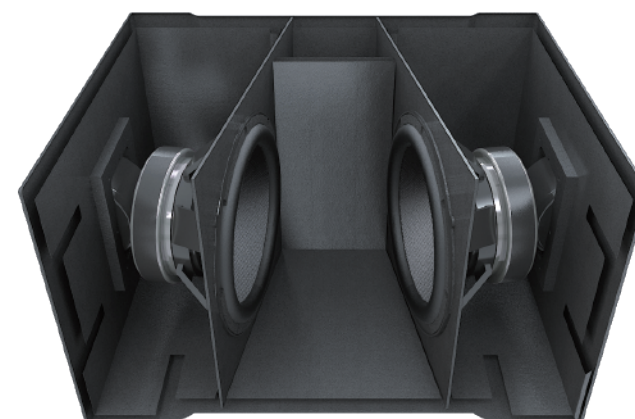
Moulded large heatsink improves the cooling efficiency, and ensure higher reliability of the system.

## ● Built-in Bluetooth

Built-in bluetooth supports a variety of Bluetooth devices access. It's stable and reliable transmission to get true sound reproduction.

## ● Plug and Play, Easy Set Up

A lot of considerations were taken into account when Audiocenter R&D teams design the L series accessories for easy and quick set up. Three different system packages are available to meet the demands of different applications.



## ● Unique Physical Acoustics Design

CNC made cabinet of excellent wood, customized drivers together with unique physical acoustics design provide very clear and clean sound.

## ● Innovative FTF™ Technology in LF Driver

The innovative FTF™ technology in LF driver makes the cabinet with the three-order band-pass filter. By coupling the system continually and overlaying the multiple resonances, the LF efficiency is improved significantly.





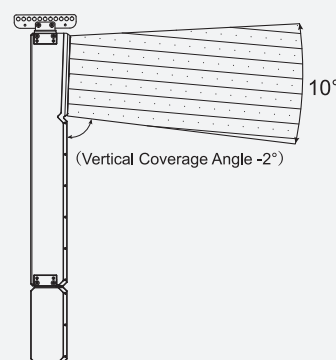
## L65+L65A Column System

L65+L65A system is a compact multi-purpose active DSP column system, consisting of a passive full-range column speaker L65 and a multi-channel digital power amplifier L65A with switching power supply and built-in DSP.

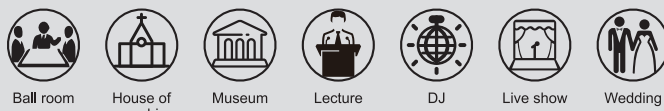
L65 passive full-range column speaker is built with 6pcs 5" customized Audiocenter ferrite drivers and 4pcs 1" customized Beyma ferrite drivers. The drivers are designed with sophisticated measurement and arranged elaborately by physical calibration technology Phycal™ to improve vertical acoustic beam coverage. The ETE™ waveguide system developed by Audiocenter forms cylindrical wave, then couples continually, working together with customized horn design to realize the perfect joint of frequency response, which provides the accurate horizontal coverage and ensures the well-balanced, clear and clean sound. L65 can meet the reinforcement application in different venues and complex space.

L65A multi-channel digital power amplifier with switching power supply and built-in DSP is attached to the bottom of L65 and used together with L65 to meet the different requirements of various applications.

L65+L65A column system is flyable with customized flying frame. It can also be pole mounted. It can be used as main P.A or as side fill, delay etc according to different applications.



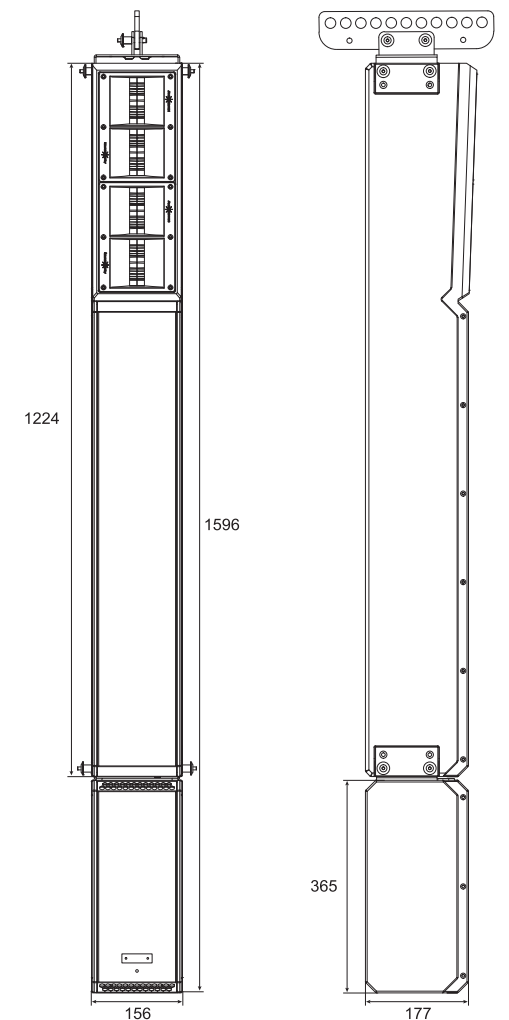
### SUGGESTED APPLICATION



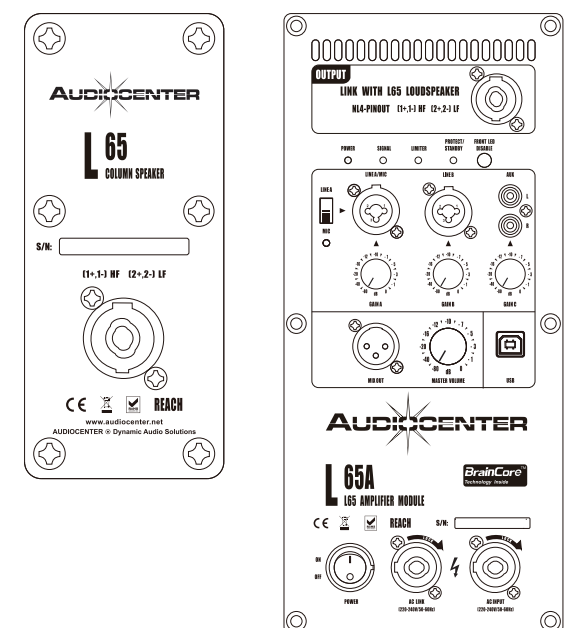
### SPECIFICATION

Type	Active DSP-controlled Column Speaker System
Frequency Response (-6dB anechoic chamber)	75Hz-20KHz
Maximum Calculated SPL/1M	134dB
LF Driver	Customized Audiocenter ferrite driver, 6pcs 5" drivers
HF Driver	Customized Beyma ferrite driver, 4pcs 1" drivers
Horizontal Coverage Angle(Symmetrical)	110°
Vertical Coverage Angle(Symmetrical )	10°
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Crossover	Controlled by DSP
Class D amplifier	
Power	1400W
Frequency Response	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 Fans + air convection
Cooling System	
Output / Input	
Signal Input	2×Combo (NEUTRIK® female XLR & Mono jack 6.35), 1×RCA
Signal Output	1×NEUTRIK® male XLR
Amplifier Output Link L65	1×NEUTRIK® NL4MP
Column Input Link L65-A	1×NEUTRIK® NL4MP
Power Input / Output	Power connector
Working Voltage	100-130V/60Hz or 220-240V/50Hz
Cabinet	
Cabinet Material	CNC made of excellent wood
Pole Mount	Φ35mm (0/10° adjustable)
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors

Dimension(W×H×D)	
L65	156×1224×177mm
L65A	156×365×177mm
Height for 1pc L65 +1pc L65A	1596mm
Net Weight	
L65	18Kg
L65A	5Kg



### BACK PANEL







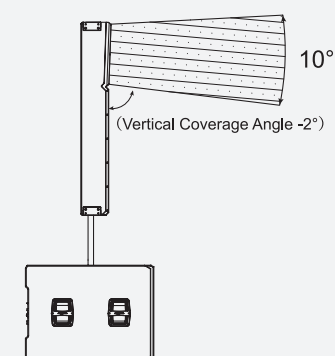
## L65+L65S Column System

L65+L65S system is a compact multi-purpose active DSP column system consisting of a passive full-range column speaker L65 and an active DSP controlled compact single 18" subwoofer L65S.

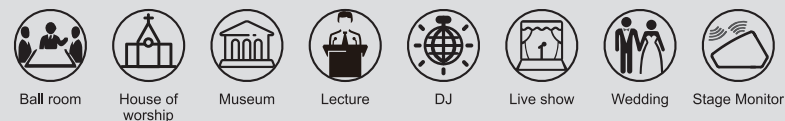
L65 passive full-range column speaker is built with 6pcs 5" customized Audiocenter ferrite drivers and 4pcs 1" customized Beyma ferrite drivers. The drivers are designed with sophisticated measurement and arranged elaborately by physical calibration technology Phycal™ to improve vertical acoustic beam coverage. The ETE™ waveguide system developed by Audiocenter forms cylindrical wave, then couples continually, working together with customized horn design to realize the perfect joint of frequency response, which provides the accurate horizontal coverage and ensures the well-balanced, clean and clear sound. L65 can meet the reinforcement application in different venues and complex space.

L65S is an active DSP controlled compact subwoofer with one 18" customized Audiocenter ferrite driver and very powerful Class D amplifier module. L65S is with built-in Bluetooth that supports multiple signal inputs.

L65+L65S is a plug and play column system with easy set up. The presets are made with a lot of testing. The system can be put in various applications.

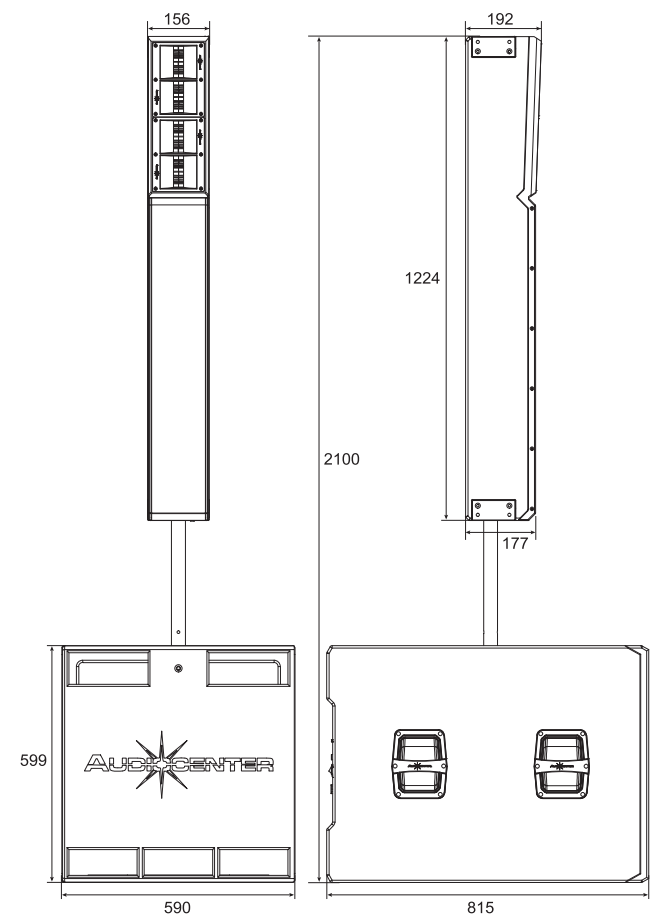


### SUGGESTED APPLICATION

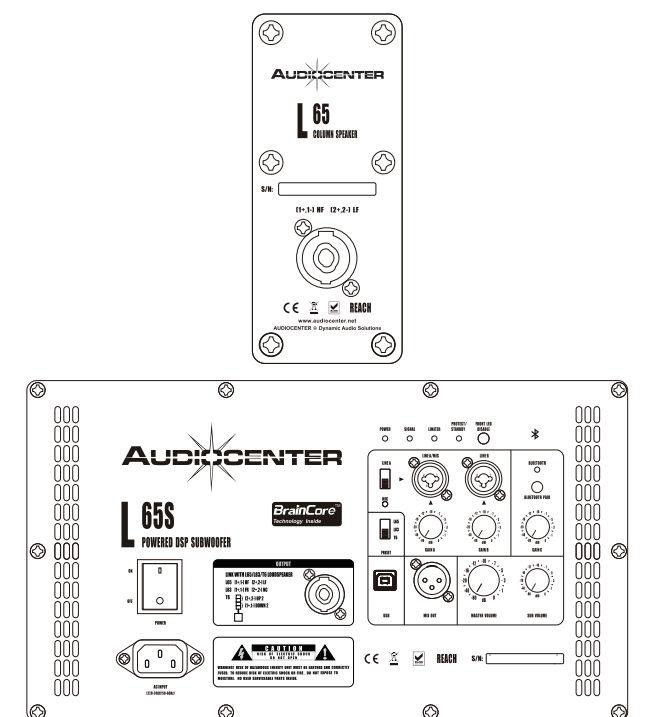


### SPECIFICATION

Type	Active DSP-controlled Column Speaker System
Frequency Response (-6dB anechoic chamber)	40Hz-20KHz
Maximum Calculated SPL/1M	134dB
Subwoofer	Customized Audiocenter ferrite driver, 1pcs 18" driver
LF Driver	Customized Audiocenter ferrite driver, 6pcs 5" drivers
HF Driver	Customized Beyma ferrite driver, 4pcs 1" drivers
Horizontal Coverage Angle(Symmetrical)	110°
Vertical Coverage Angle(Symmetrical )	10°
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Crossover	Controlled by DSP
Class D amplifier	
Power	3600W
Frequency Response	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	Fans + air convection
Output / Input	
Signal Input	2×Combo (NEUTRIK® female XLR & Mono jack 6.35), 1×Bluetooth
Signal Output	1×NEUTRIK® male XLR
Amplifier Output Link L65	1×NEUTRIK® NL4MP
Column Input Link L65S	1×NEUTRIK® NL4MP
Power Input	3 pin power socket
Working Voltage	100-130V/60Hz or 220-240V/50Hz
Cabinet	
Cabinet Material	CNC made of excellent wood
L65 Pole Mount	Φ35mm (0/10° adjustable)
L65S Pole Mount	M20 base Φ35mm
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	
L65	156×1224×177mm
L65S	590×599×815mm
Height for 1pc L65+1pc L65S+Pole	2100mm
Net Weight	
L65	18Kg
L65S	54Kg



### BACK PANEL







## L83+L65S Column System

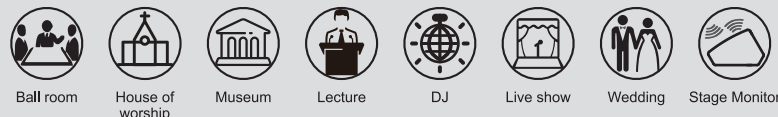
L83+L65S system is a compact multi-purpose active DSP column system consisting of a passive full-range column speaker L83 and an active DSP controlled compact single 18" subwoofer L65S.

L83 passive full-range column speaker is with 8pcs 3" neodymium full-range drivers. The drivers in L83 are arranged by elaborate calculation and Phycal™ technology to improve the coverage of vertical beam. With elaborate acoustic design, same drives in the cabinet work as one integrative full range speaker system, which can achieve perfect joint of frequency response and excellent sound performace.L83 can meet the applications in different venues and complex space.

L65S is an active DSP controlled compact subwoofer with one 18" customized Audiocenter ferrite driver and very powerful Class D amplifier module. L65S is with built-in Bluetooth that supports multiple signal inputs.

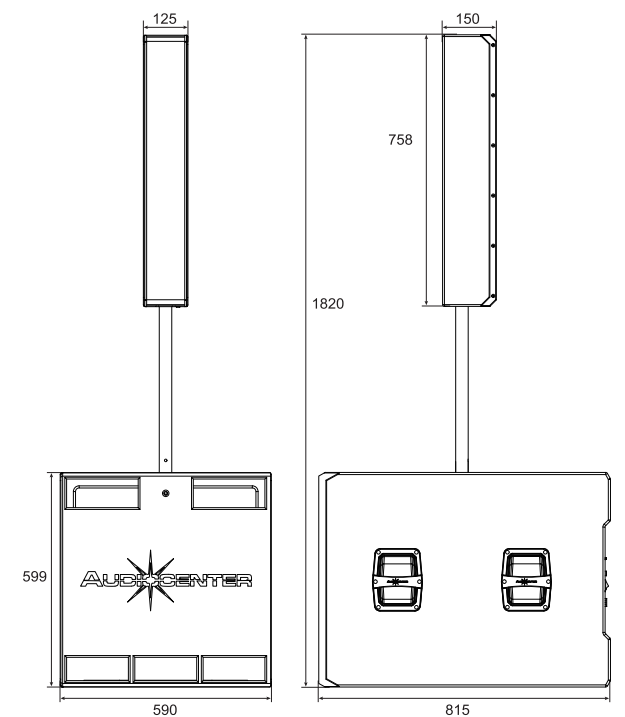
L83+L65S is a plug and play column system with easy set up. The presets are made with a lot of testing. The system can be put in various applications.

### SUGGESTED APPLICATION

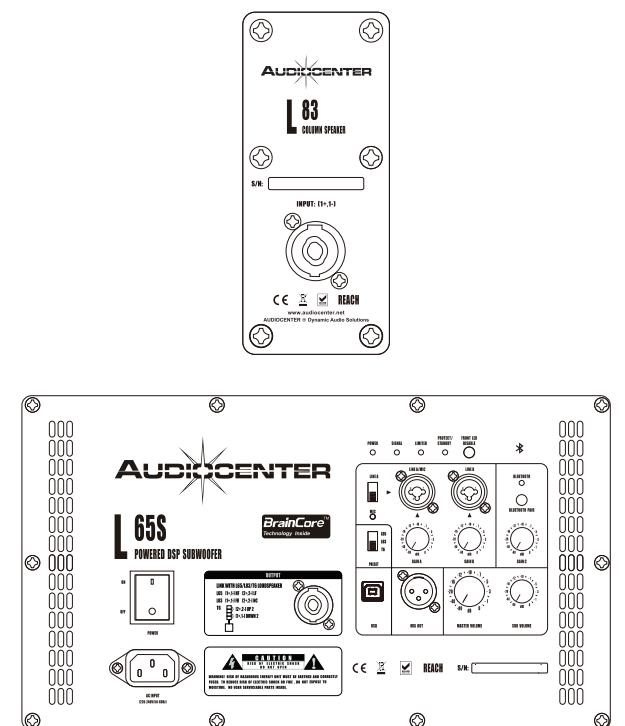


### SPECIFICATION

Type	Active DSP-controlled Column Speaker System
Frequency Response (-6dB anechoic chamber)	42Hz-20KHz
Maximum Calculated SPL/1M	132dB
Subwoofer	Customized Audiocenter ferrite driver, 1pcs 18" driver
Mid-high Driver	Customized Audiocenter neodymium full-range driver, 8pcs 3" drivers
Horizontal Coverage Angle(Symmetrical)	100°
Vertical Coverage Angle(Symmetrical )	20°
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Crossover	Controlled by DSP
Class D amplifier	
Power	3000W
Frequency Response	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	Fans + air convection
Output / Input	
Signal Input	2×Combo (NEUTRIK® female XLR & Mono jack 6.35), 1×Bluetooth
Signal Output	1×NEUTRIK® male XLR
Amplifier Output Link L83	1×NEUTRIK® NL4MP
Column Input Link L65S	1×NEUTRIK® NL4MP
Power Input	3 pin power socket
Working Voltage	100-130V/60Hz or 220-240V/50Hz
Cabinet	
Cabinet Material	CNC made of excellent wood
L83 Pole Mount	Φ35mm (0/10° adjustable)
L65S Pole Mount	M20 base Φ35mm
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	
L83	125×758×150mm
L65S	590×599×815mm
Height for 1pc L83+1pc L65S+Pole	1820mm
Net Weight	
L83	5Kg
L65S	54Kg



### BACK PANEL







## L43+L83S Column System

L43+L83S system is a compact multi-purpose active DSP column system consisting of a passive full-range column speaker L43 and an active DSP controlled dual 12" subwoofer L83S.

L43 passive full-range column speaker is with 4pcs 3" neodymium full-range drivers. The drivers in L43 are arranged by elaborate calculation and Phycal™ technology to improve the coverage of vertical beam. With elaborate acoustic design, same drives in the cabinet work as one integrative full range speaker system, which can achieve perfect joint of frequency response and excellent sound performance. L43 can meet the applications in different venues and complex space.

L83S is an active DSP controlled compact subwoofer with 2pcs 12" customized Audiocenter ferrite drivers and Class D amplifier module. The system works efficiently and has built-in Bluetooth that supports multiple signal inputs.

L83S has been carefully tested. With elaborate acoustic design, innovative FTF™ LF driver design and extensive testing, the cabinet is with three-order band-pass filter. By coupling the system continually and overlaying the resonances, the LF efficiency is improved significantly.

L43+L83S is a plug and play column system with easy set up. The presets are made with a lot of testing. The system can be put in various applications.

### SUGGESTED APPLICATION



Ball room



House of worship



Museum



Lecture



Conference



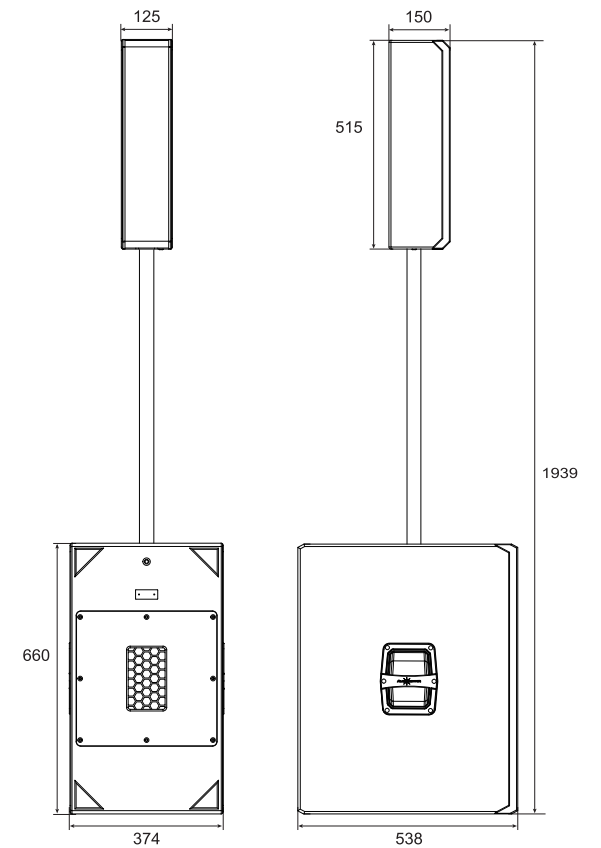
Gym



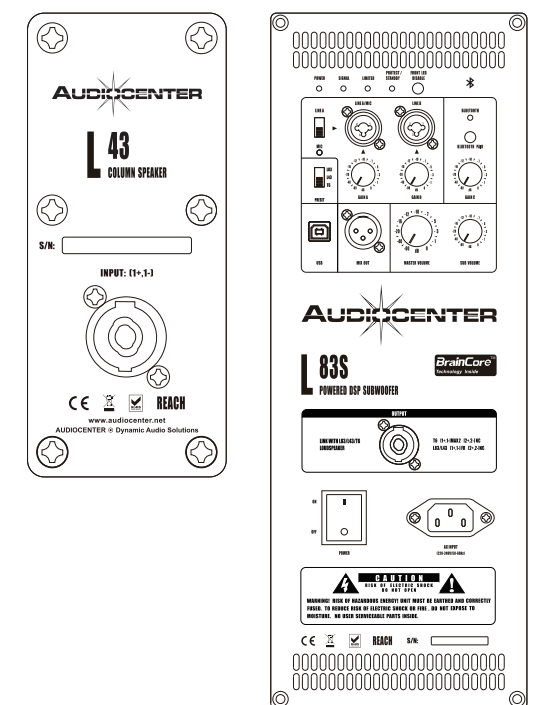
Restaurant

### SPECIFICATION

Type	Active DSP-controlled Column Speaker System
Frequency Response (-6dB anechoic chamber)	42Hz-20KHz
Maximum Calculated SPL/1M	128dB
Subwoofer	Customized Audiocenter ferrite driver, 2pcs 12" driver
Mid-high Driver	Customized Audiocenter neodymium full-range driver, 4pcs 3" drivers
Horizontal Coverage Angle(Symmetrical)	100°
Vertical Coverage Angle(Symmetrical )	20°
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Crossover	Controlled by DSP
Class D amplifier	
Power	2500W
Frequency Response	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	Fans + air convection
Output / Input	
Signal Input	2×Combo (NEUTRIK® female XLR & Mono jack 6.35), 1×Bluetooth
Signal Output	1×NEUTRIK® male XLR
Amplifier Output Link L43	1×NEUTRIK® NL4MP
Column Input Link L83S	1×NEUTRIK® NL4MP
Power Input	3 pin power socket
Working Voltage	100-130V/60Hz or 220-240V/50Hz
Cabinet	
Cabinet Material	CNC made of excellent wood
L43 Pole Mount	Φ35mm (0/10° adjustable)
L83S Pole Mount	M20 base Φ35mm
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	
L43	125×515×150mm
L83S	374×660×538mm
Height for 1pc L43+1pc L83S+Pole	1709mm
Net Weight	
L43	3.5Kg
L83S	32Kg



### BACK PANEL







## L83+L83S Column System

L83+L83S system is a compact multi-purpose active DSP column system consisting of a passive full-range column speaker L83 and an active DSP controlled dual 12" subwoofer L83S.

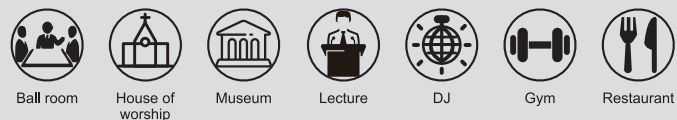
L83 passive full-range column speaker is with 8pcs 3" neodymium full-range drivers. The drivers in L83 are arranged by elaborate calculation and Phycal™ technology to improve the coverage of vertical beam. With elaborate acoustic design, same drives in the cabinet work as one integrative full range speaker system, which can achieve perfect joint of frequency response and excellent sound performance. L83 can meet the applications in different venues and complex space.

L83S is an active DSP controlled compact subwoofer with 2pcs 12" customized Audiocenter ferrite drivers and Class D amplifier module. The system works efficiently and has built-in Bluetooth that supports multiple signal inputs.

L83S has been carefully tested. With elaborate acoustic design, innovative FTF™ LF driver design and extensive testing, the cabinet is with three-order band-pass filter. By coupling the system continually and overlaying the resonances, the LF efficiency is improved significantly.

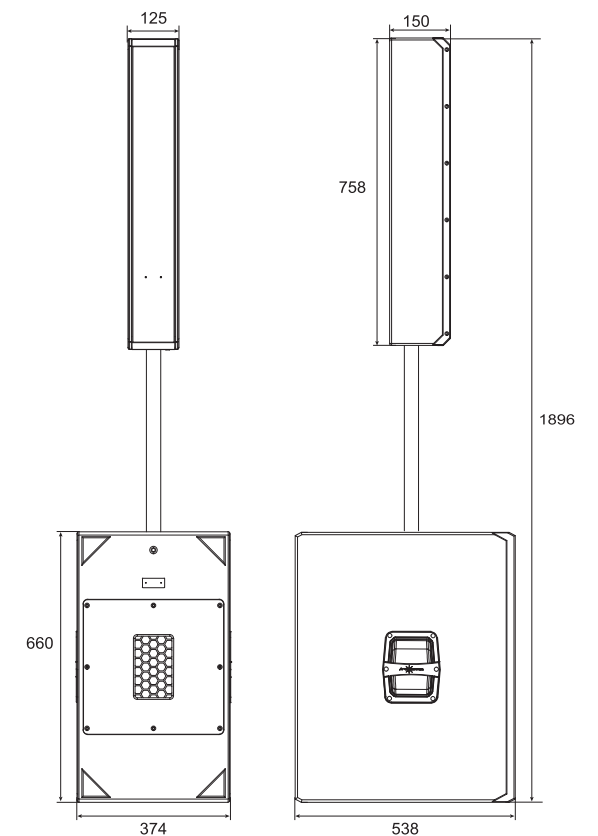
L83+L83S is a plug and play column system with easy set up. The presets are made with a lot of testing. The system can be put in various applications.

### SUGGESTED APPLICATION

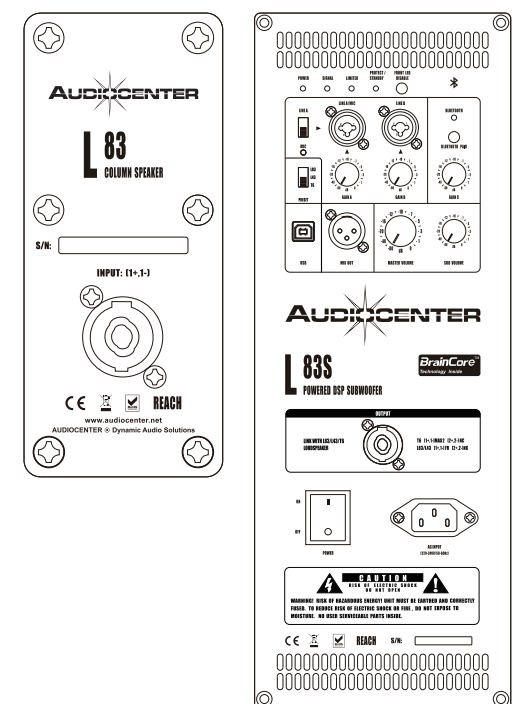


### SPECIFICATION

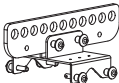
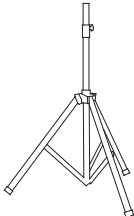
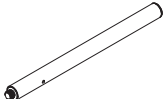
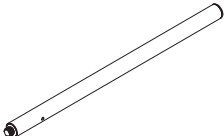
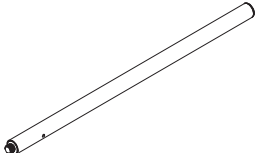
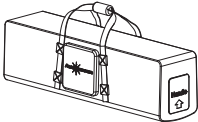

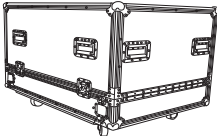
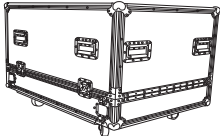
Type	Active DSP-controlled Column Speaker System
Frequency Response (-6dB anechoic chamber)	42Hz-20KHz
Maximum Calculated SPL/1M	131dB
Subwoofer	Customized Audiocenter ferrite driver, 2pcs 12" driver
Mid-high Driver	Customized Audiocenter neodymium full-range driver, 8pcs 3" drivers
Horizontal Coverage Angle(Symmetrical)	100°
Vertical Coverage Angle(Symmetrical )	20°
DSP	
Processor	96KHz signal sampling frequency, 24bit precision
Crossover	Controlled by DSP
Class D amplifier	
Power	2500W
Frequency Response	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	Fans + air convection
Output / Input	
Signal Input	2×Combo (NEUTRIK® female XLR & Mono jack 6.35), 1×Bluetooth
Signal Output	1×NEUTRIK® male XLR
Amplifier Output Link L83	1×NEUTRIK® NL4MP
Column Input Link L83S	1×NEUTRIK® NL4MP
Power Input	3 pin power socket
Working Voltage	100-130V/60Hz or 220-240V/50Hz
Cabinet	
Cabinet Material	CNC made of excellent wood
L83 Pole Mount	Φ35mm (0/10° adjustable)
L83S Pole Mount	M20 base Φ35mm
Cabinet Color	Black is standard and default color. Consult with Audiocenter sales team for other customized colors
Dimension(W×H×D)	
L83	125×758×150mm
L83S	374×660×538mm
Height for 1pc L83+1pc L83S+Pole	1896mm
Net Weight	
L83	5Kg
L83S	32Kg



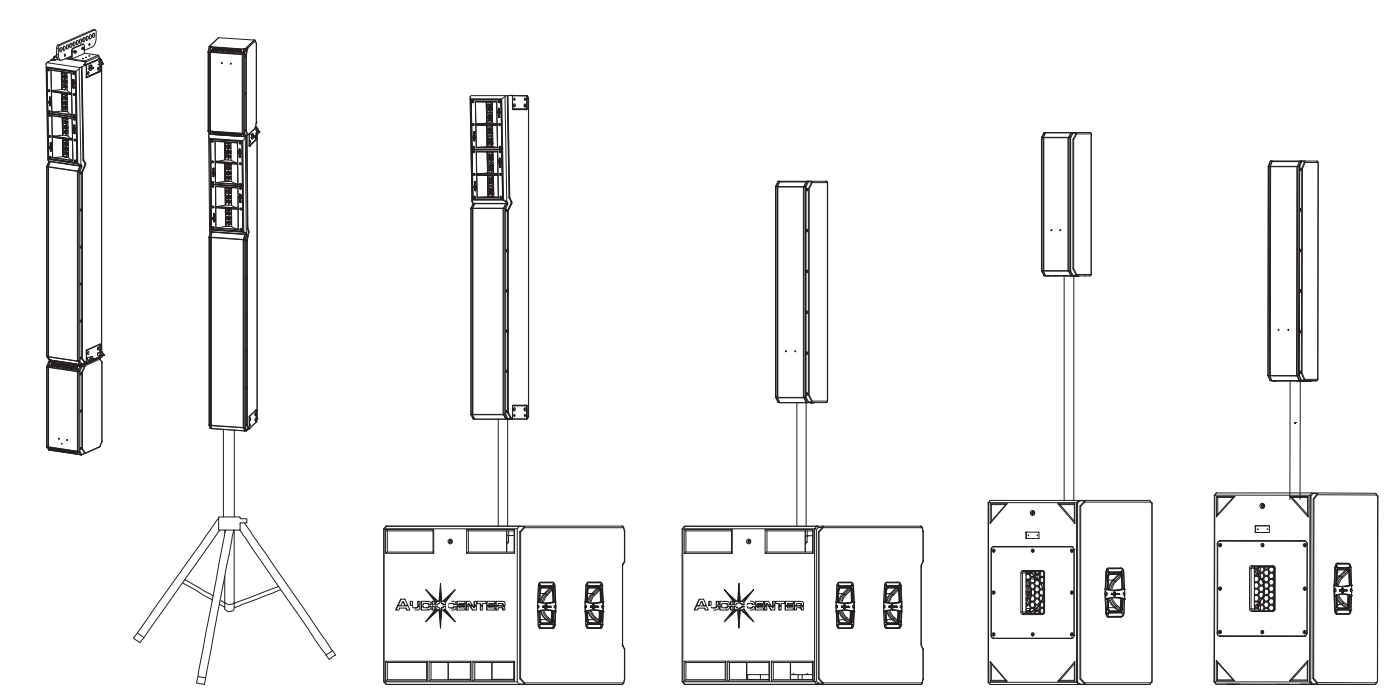
### BACK PANEL



ACCESSORIES

				
L65+L65A Flying kit	Three-foot stand Bearing 80KG	L65+L65S Pole (Length 400mm)	L83+L83S/L65S Pole (Length 600mm)	L43+L83S Pole (Length 900mm)
				
Hand bag For 1 pcs L65 / 2 pcs L83 / 2 pcs L43	L65S/L83S Protection bag (with wheel)	L65+L65A Flightcase (For 2 pcs L65, 2 pcs L65A and 2sets Flying kits) with 100mm wheels	L83+L83S Flightcase (For 1 pcs L83, 1pcs L83S and 1 pole) with 100mm wheels	

INSTALLATIONS



L Series Active DSP-controlled Column Speaker System Specifications

SPECIFICATIONS		L65+L65A Column System	L65+L65S Column System	L83+L65S Column System	L43+L83S Column System	L83+L83S Column System
Type		Active DSP-controlled Column Speaker System				
Frequency Response (-6dB anechoic chamber)		75Hz-20KHz	40Hz-20KHz	42Hz-20KHz	42Hz-20KHz	42Hz-20KHz
Horizontal Coverage Angle (Symmetrical)		110°	110°	100°	100°	100°
Vertical Coverage Angle (Symmetrical)		10°	10°	20°	20°	20°
Maximum Calculated SPL/1M	Continuous	128dB	128dB	126dB	122dB	125dB
	Program	131dB	131dB	129dB	125dB	128dB
	Peak	134dB	134dB	132dB	128dB	131dB
Drivers	HF	Customized Beyma ferrite driver, 4pcs 1" drivers		/	/	/
	Mid-high	/	/	Customized Audiocenter Neodymium full-range driver, 8pcs 3" drivers	Customized Audiocenter Neodymium full-range driver, 4pcs 3" drivers	Customized Audiocenter Neodymium full-range driver, 8pcs 3" drivers
	LF	Customized Audiocenter ferrite driver, 6pcs 5" drivers			/	
	Subwoofer	/	Customized Audiocenter ferrite driver, 1pcs 18" drivers		Customized Audiocenter ferrite driver, 2pcs 12" drivers	
Signal Input Connector		2×Combo NEUTRIK® (female XLR & Mono jack 6.35), 1×RCA	2×Combo NEUTRIK® (female XLR & Mono jack 6.35), 1×Bluetooth			
Signal Output Connector		1×NEUTRIK® male XLR				
Power Input Connector		Power connector	3 pin power socket			
Power Output Connector		Power connector	/			
Working Voltage		100V-130V/60Hz or 220V-240V/50Hz				
DSP						
Processor		96KHz signal sampling frequency, 24bit precision				
Crossover and Slope		Controlled by DSP				
AMPLIFIER						
Amplifier		Class D				
Peak Power		1400W	3600W	3000W	2500W	2500W
Frequency Response (1W 8Ω 1ch)		20Hz-20KHz(±0.5dB)				
Intermodulation Distortion		<0.05%				
Total Harmonic Distortion (20Hz-20KHz, half power)		<0.05%				
Cooling		Fans + air convection				
Protection		DC protection / Short circuit protection / Overheat protection / Output overload protection / Soft startup protection / Overvoltage protection / Undervoltage protection				
CABINET						
Cabinet		CNC made of excellent wood				
Pole Mount		/	Column speaker with Φ 35 mm (0/10 ° adjustable), subwoofer with M20 pole mount Φ 35 mm			
Optional Accessories		Flying kit,Three-feet stand,pole,Hand bag,Protection bag,Flightcase				
Dimensions (W×H×D)	Column speaker	156×1224×177mm	156×1224×177mm	125×758×150mm	125×515×150mm	125×758×150mm
	L65A	156×365×177mm	/	/	/	/
	Subwoofer	/	590×599×815mm	590×599×815mm	374x660x538mm	374x660x538mm
	Height for whole system set up	1596mm	2100mm	1820mm	1939mm	1896mm
Net Weight		L65 18Kg / L65A 5Kg	L65 18Kg / L65S 54Kg	L83 5Kg / L65S 54Kg	L43 3.5Kg / L83S 32Kg	L83 5Kg / L83S 32Kg
Technical Support and After-sales Service		Global application support team				



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