



Dynamic Audio Solutions

**BrainCore™**  
Technology Inside

[www.audiocenter.com](http://www.audiocenter.com)

*Together we are stronger*



## **T45-DSP & T115S-DSP** **Active DSP-controlled Line Array**

T45-DSP & T115S-DSP is a very compact, lightweight and modular active DSP- controlled line array system, with very high SPL and supreme sound performance. With the BrainCore™ technology, the system is highly integrated and very easy to use.





## 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.



### 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.



### Active Speaker DSP

Full range loudspeakers is built with 3 different presets, subwoofer is built with 3 different low-pass filters. Users can choose different presets or low-pass filters according to their needs via the buttons on the back panel.



### Class D Amplifier

Adopts customized Class D amplifier together with switch mode power supply technology, which ensures the system for high efficiency, exquisite and compact outlook and advanced cooling.



### Customized ProDriver

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



### Advanced Cooling System

Moulded large heatsink improves the cooling efficiency, with the result of higher reliability of the system.



### Solid Wood Cabinet

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



### Integrated Flyware

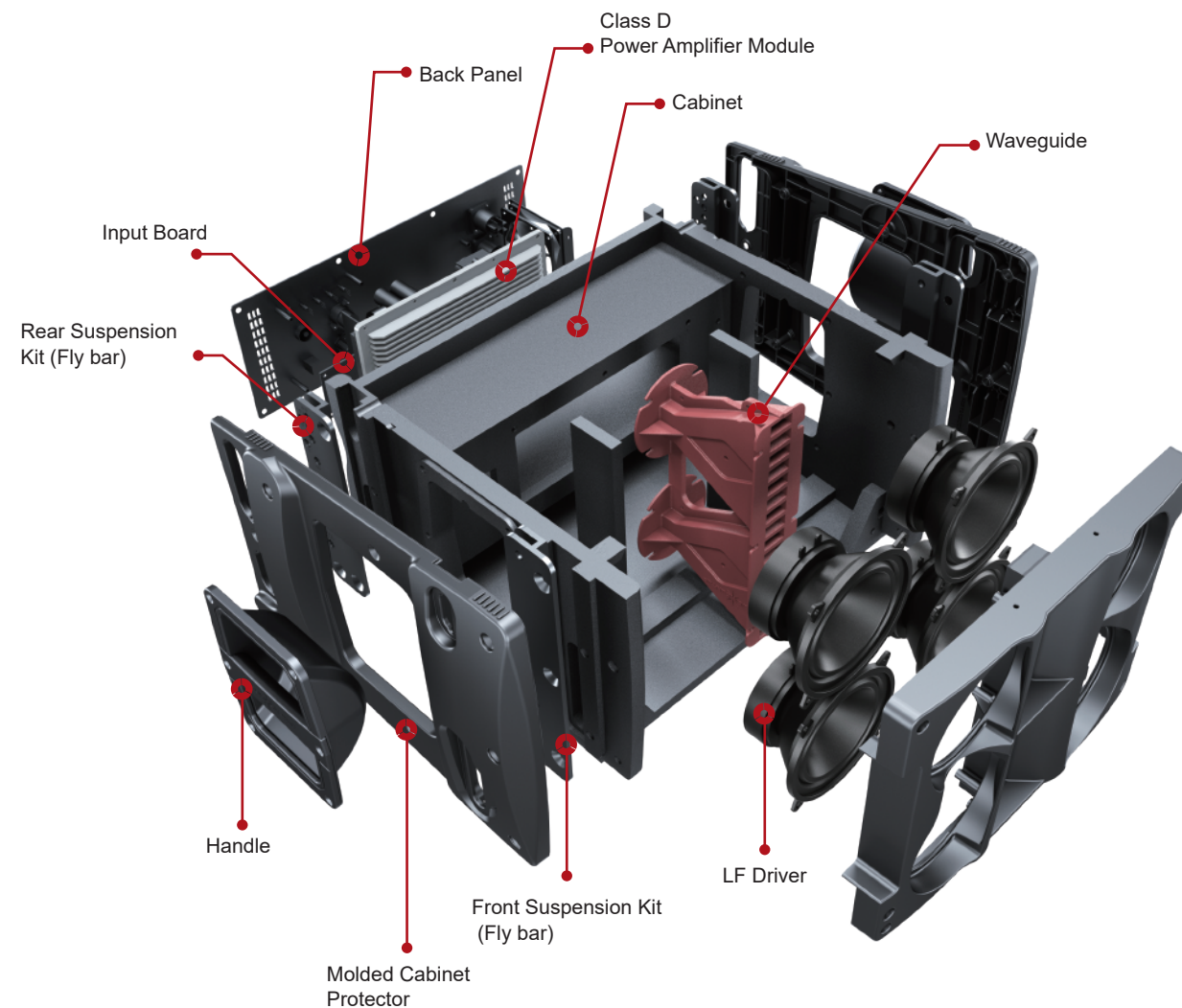
Integrated installation accessories built in the cabinet make it in installation flexibility.



### Durable Polyurea Coating

The polyurea coating is waterproof, wear resistance, impact resistance and aging resistance.

## INTERNAL STRUCTURE

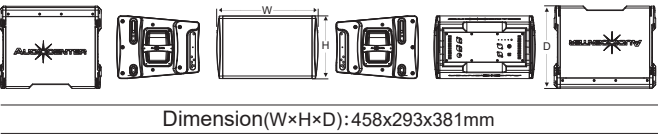




T45-DSP

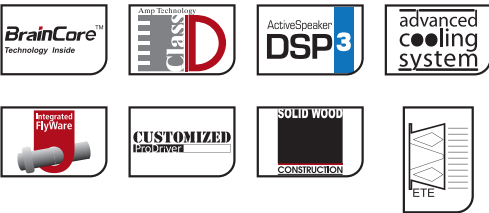
T45-DSP active DSP-controlled line array adopts front bass reflex design and elaborate driver layout, the cabinet is very small and lightweight. With innovative ETE™ wave guide technology, T45-DSP delivers supreme sound performance that no need too much correction while tuning. T45-DSP is very compact, but with very high SPL and long throw.

T45-DSP is highly integrated with the BrainCore™ technology. 3 presets can be recalled easily by the switch on back panel. It is a plug and play system with user-friendly ergonomic design accessories to ensure easy and quick installation. The angle of the fly bar can be adjusted 0.5 °, 1.5 °, 3 °, 5 °, 7 °, 10° according to different venues.



FEATURES

- Maximum SPL 136 dB
- Customized driver
- The innovative ETE™ waveguide technology can ensure excellent frequency response, to achieve very smooth transitions between HF and LF, which provides precise horizontal coverage and ensures clear and balanced sound for the system.
- Built in DSP with 96kHz signal sampling frequency, 56bit precision
- Class D amplifier
- Advanced cooling system in the driver
- Optimized, compact and light weight cabinet design for easy usage
- Durable Polyurea Coating
- Comprehensive accessories for different applications



SYSTEM CONFIGURATION

- T115S-DSP subwoofer



SPECIFICATION	
Frequency Response(-10dB)	63Hz-20kHz
Maximum Calculated	130dB/136dB
SPL/1M(Continuous/Peak)	
Horizontal Coverage	120°
Vertical Coverage	Splay angle dependent
HF	Customized driver, 2x1.0" voice coil and 1.0"exit
LF	Customized driver, 4x5"
DSP	
Processor	96kHz signal sampling frequency
Presets	ARRAY2,ARRAY4,ARRAY6
AMPLIFIER	
Amplifier Circuitry	Class D
Power(RMS standards)	1000W
Peak Power	2000W
Frequency Response (1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)
Intermodulation Distortion	< 0.05%
Total Harmonic Distortion	< 0.05%
Cooling System	Cooling with fans,air convection
Protection	DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection
Signal Input	Female XLR
Signal Output	Male XLR
Power Input	Power connector
Power Output	Power connector
AC Power Operating Range	100V-130V~ or 220V-240V~(±10%,50/60Hz)
Power consumption (1/8 output power)	65W
CABINET	
Cabinet Material	CNC made of excellent wood
Angle Adjustment	0.5°,1.5°,3°,5°,7°,10°
Coating	Durable Polyurea Coating
Cabinet Color	Black is the default color. Contact Audiocenter for customization
Grille	Iron mesh
Handles	2 side
Speaker Dimension(W×H×D)	458×293×381mm
Carton Dimensions (W×H×D)	389×553×476mm
Net Weight	18.0kg
Shipping Weight	20.5kg

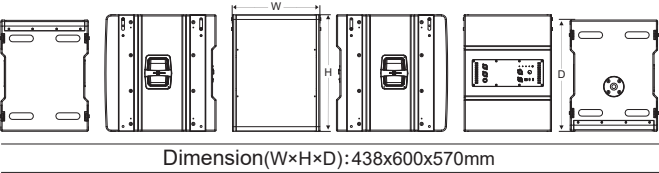
T115S-DSP

T115S-DSP is single 15" active DSP- controlled subwoofer with front loaded cabinet design and customized SMPS class D amplifier with built in DSP. With the powerful and dynamic performance, T115S-DSP is a good match for T45-DSP.

3 presets are available for T115S-DSP.

- Normal - to match with T45-DSP  
Cardioid F - cardioid usage, for front coverage  
Cardioid B - cardioid usage, for back coverage

You need to combine Cardioid F and Cardioid B together for cardioid usage.



FEATURES

- Maximum SPL 136 dB
- Customized driver
- Built in DSP with 96kHz signal sampling frequency, 56bit precision
- Class D amplifier
- Advanced cooling system in the driver
- Optimized, compact and light weight cabinet design for easy usage
- Durable Polyurea Coating
- Comprehensive accessories for different applications



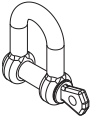

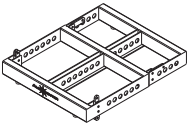
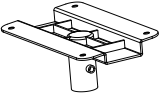

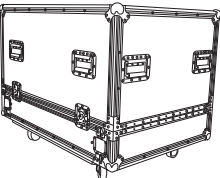
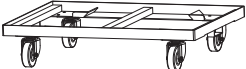
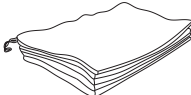
SYSTEM CONFIGURATION

- T45-DSP line array

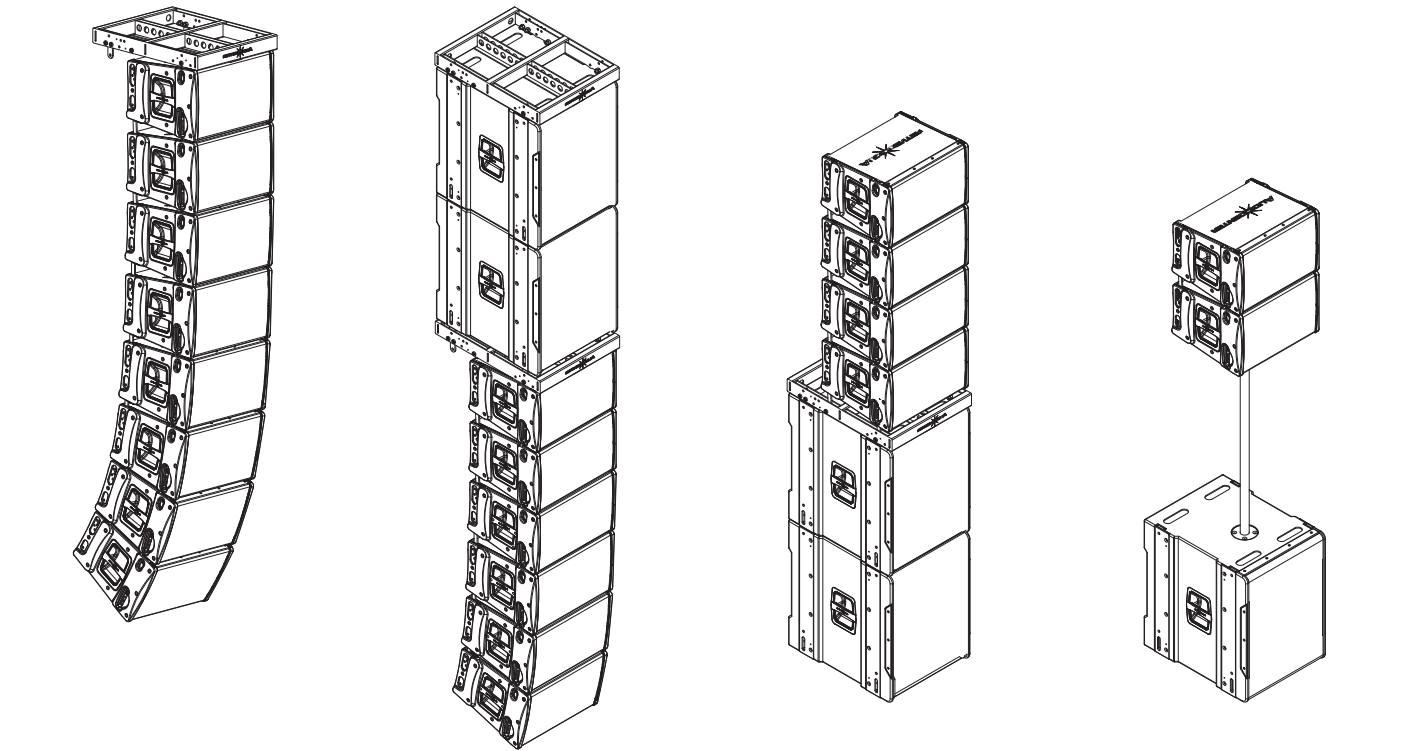


SPECIFICATION	
Frequency Response(-10dB)	35Hz-250Hz
Maximum Calculated	130dB/136dB
SPL/1M(Continuous/Peak)	
LF	Customized 15" driver, 4"voice coil
DSP	
Processor	96kHz signal sampling frequency
Presets	Normal.Cardioid F.Cardioid B
AMPLIFIER	
Amplifier Circuitry	Class D
Power(RMS standards)	1000W
Peak Power	2000W
Frequency Response (1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)
Intermodulation Distortion	< 0.05%
Total Harmonic Distortion	< 0.05%
Cooling System	Cooling with fans,air convection
Protection	DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection
Signal Input	Female XLR
Signal Output	Male XLR
Power Input	Power connector
Power Output	Power connector
AC Power Operating Range	100V-130V~ or 220V-240V~(±10%,50/60Hz)
Power consumption (1/8 output power)	132W
CABINET	
Cabinet Material	CNC made of excellent wood
Coating	Durable Polyurea Coating
Cabinet Color	Black is the default color. Contact Audiocenter for customization
Grille	Iron mesh
Handles	2 side
Pole Mount	M20 base ø35mm
Speaker Dimension(W×H×D)	438x600x570mm
Carton Dimensions (W×H×D)	522x695x653mm
Net Weight	43.0kg
Shipping Weight	46.5kg

ACCESSORIES

			
M20 D shackle Bearing 3T	2M / 3M flying belt Made of synthetic fibre, bearing 2T/4T	Frame for flying and ground stacking	Bracket
			
Coupling bar	Flightcase For 2 cabinets, with 100mm wheels	Dolly	Rain bag(customized)

INSTALLATIONS



T45-DSP & T115S-DSP Specifications

SPECIFICATIONS		T45-DSP	T115S-DSP
Frequency Response(-10dB)		63Hz-20kHz	35Hz-250Hz
Horizontal Coverage		120°	/
Vertical Coverage		Splay angle deependent	
Maximum Calculated SPL/1M	Continuous	130dB	130dB
	Program	133dB	133dB
	Peak	136dB	136dB
Drivers	HF	Customized driver,1.0" voice coil and 1.0"exit	
	LF	Customized 4x5" driver,1.0"voice coil	
		Customized 15" driver, 4.0"voice coil	

DSP		
Processor	96kHz signal sampling frequency	
Presets	ARRAY2, ARRAY4, ARRAY6	Normal, Cardioid F, Cardioid B

AMPLIFIER		
Amplifier	Class D	
Power(RMS standards)	1000W	1000W
Peak Power	2000W	2000W
Frequency Response(1W 8Ω 2ch)	20Hz-20kHz(±0.5dB)	
Intermodulation Distortion (20Hz-20kHz, half power)	<0.05%	
Total Harmonic Distortion (20Hz-20kHz, Rated power 8Ω)	<0.05%	
Cooling	Cooling with fans, air convection	
Protection	DC protection	√
	Short circuit protection	√
	Overheat protection	√
	Output overload protection	√
	Soft startup protection	√
	Overvoltage protection	√
	Undervoltage protection	√
Signal Input/Output Connectors	Female XLR input, male XLR output	
Power Input Connectors	Power connector	
Power Output Connectors	Power connector	
AC Power Operating Range	100V-130V~ or 220V-240V~(±10%,50/60Hz)	
Power consumption(1/8 output power)	65W	132W

CABINET		
Cabinet Material	CNC made of excellent wood	
Angle Adjustment	0.5°, 1.5°, 3°, 5°, 7°, 10°	/
Coating	Durable Polyurea Coating	
Cabinet Color	Black is the default color. Contact Audiocenter for customization	
Grille	Iron mesh	
Handles	2 side	2 side
Optional Accessories	Frame for flying and ground stacking / Flightcase with 100mm wheels / Rain bag	
Speaker Dimension(W×H×D)	458×293×381mm	438×600×570mm
Carton Dimensions (W×H×D)	389×553×476mm	522×695×653mm
Net Weight	18.0kg	43.0kg
Shipping Weight	20.5kg	46.5kg
Technical Support and After-sales Service	Global application support team, EASE GLL files available	