

Powered Subwoofers

# DXS Series

DXS12 DXS15 DXS18



## ***SERIOUS. BASS. PERFORMANCE.***

Prepare to make a lasting impression on your audience with the addition of DXS Series high-output, powered subwoofers to your sound reinforcement system. Featuring high-efficiency Class-D amplifiers and a customized woofer housed in a sturdy enclosure with a band-pass construction, DXS subwoofers are able to deliver up to 1020W of raw power with minimal distortion and superb clarity. Each of the three models that make up the series— the compact DXS12 and DXS15, as well as the new, high output DXS18—comes equipped with Yamaha state-of-the-art DSP processing, protection functions, and flexible crossover control, ensuring versatile management of your bottom end and seamless compatibility with Yamaha’s entire lineup of full-range powered speakers.

DXS Series powered subwoofers offer a new level of flexibility, reliability, and power for engineers, artists and audiences that are serious about their bass.



**DXR12 on DXS18**

# Amplifier and Speaker Technologies

Yamaha loudspeakers don't owe their superb audio performance to cutting-edge DSP technology alone. Only in combination with the very best amplifier units and Yamaha's accrued knowledge of acoustic technologies can these speakers operate at such a consistent, reliable level of performance.

## High-Efficiency Class-D Amplifier to deliver the Best-in-class Power

DSR, DXR, DBR and DXS Series are all equipped with highly efficient Class-D amplifiers that were designed to match HF and LF transducers and get the very best performance out of each model. Combined with customized speaker units, these high-performance amplifiers deliver the highest sound output in their class, producing up to 138dB SPL in the high-end DSR215. They also provide very fast attack and superior transient response, contributing to audio performance substantially.



## Custom Designed Transducer for High-Definition Sound

Choosing the right transducer can have a considerable impact on the overall sound of a speaker and it's not a task our team took lightly. All DSR, DXR, DBR and DXS transducers were meticulously selected and thoroughly customized in order to deliver the best possible performance. The detailed characteristics and behavior of each transducer were fully analyzed and evaluated with sophisticated computer simulations in order to help realize their full performance potential. The high power output woofers deliver minimal distortion and defined, deep bass, while the precision compression drivers produce accurate midrange and high frequencies up to 20kHz.



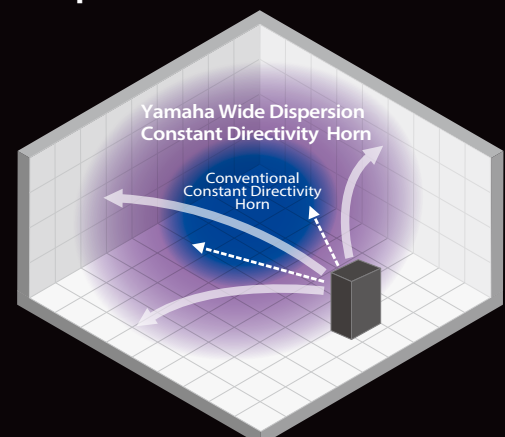
## Rugged Enclosure Design for Optimal Acoustic Performance

The durability, materials, and shape of the enclosure have a profound effect on the overall sound of the speaker. Even if high-quality amplifiers and transducers are used, a lack of durability, or errant design of the enclosure will create unwanted resonance and noise. By drawing from Yamaha's extensive history of developing loudspeakers and studio monitors, we carefully simulated and designed highly durable cabinets that eliminate unwanted resonance, and help deliver high-definition sound regardless of the output levels.



## Wide Dispersion Constant Directivity Horn for Consistent Sound Dispersal

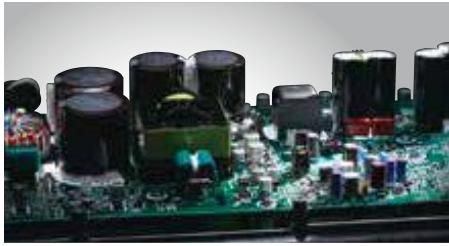
The extremely accurate constant directivity horn was designed with the goal of minimizing the radiation pattern deterioration in oblique directions that other, more conventional horns are prone to. This can help to achieve a more ideal coverage area without irregularities. With Yamaha's wide dispersion constant directivity horn, sound expands in a more rectangular pattern, evenly dispersing wide-frequency sound to the outer-most edges of the coverage area.



## High-Efficiency 1020W Class-D Amplifiers

The DXS's high performance Class-D amplifier is capable of producing up to 1020W\* of power, realizing an SPL of 136dB, delivered with exceptional clarity and accuracy.

\*DXS12 and DXS15 deliver 950W power.



## Custom Designed Transducer

The high-output woofer features a 4" voice coil magnet and delivers powerful, well-defined, low-frequency bass with minimal distortion.

\*DXS12 and DXS15 feature 2.5" voice coil magnets.



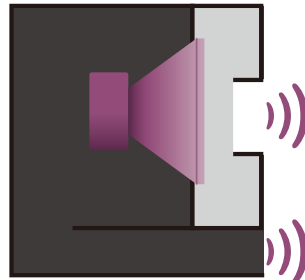
## Durable Wooden Enclosures with LINE-X® Coating

The exteriors feature a LINE-X® coating with extremely high damage resistance to protect the cabinet from scratches and wear, maintaining a professional appearance that can withstand many years of usage.



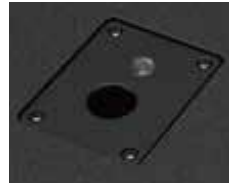
## Band-Pass Type Enclosure

The DXS Series has a band-pass design that produces extremely high SPL by drastically reducing the distortion.



## Dual pole socket

For additional flexibility configuring your speakers, the DXS18 comes equipped with a dual pole socket that accommodates 35mm diameter speaker poles and M20 screws.

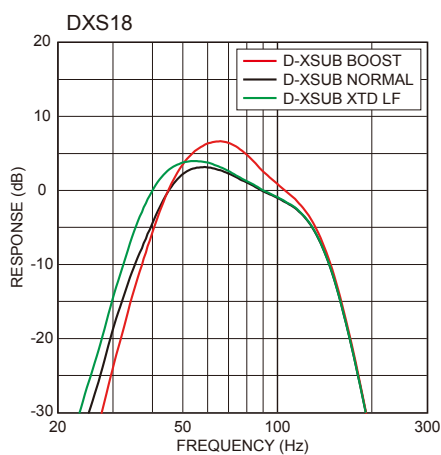


\*Only for DXS18

## Ultimate Bass control

### D-XSUB Bass Processing

Powerful D-XSUB processing gives you total control of your low frequency. NORMAL mode gives you the ideally balanced low-frequency response, while BOOST mode provides a more tight and focused bass. XTENDED LF mode drops the low-end frequencies down even further for thunderous bottom end that delivers. Take your full-range system to the next level with the power and versatility of DXS Series active subwoofers.

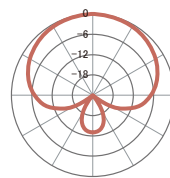


### Cardioid Mode

Because low frequencies can be omnidirectional, controlling the output directivity of a system's bottom end can be a challenge, with the sound pressure hitting the stage often being equal to that of its intended FOH audience. For setups consisting of two or more DXS18 subwoofers, selecting the newly developed Cardioid Mode function effectively decreases stage-side sound pressure while increasing the bottom-end output directed towards the audience, resulting in a clearer stage monitoring environment and a more pronounced bass experience out front.

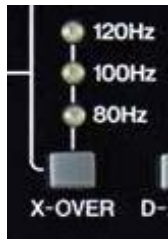
\*Only for DXS18

DXS18 - Cardioid Mode  
Horizontal Polar Pattern @ 50Hz



### Selectable X-OVER (80/100/120Hz)

Crossover switching allows users to seamlessly match DXS subwoofers with any of Yamaha's full-range powered speakers by selecting the cutoff frequency best suited to the models in their speaker array (up to 120Hz).



## Optional Wheel kit

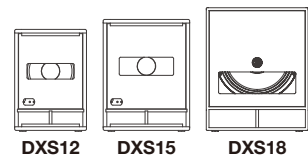
For more fast and convenient setup of your DXS18 subwoofers, optional wheels are available, featuring radial ball bearings that ensure quiet during your performance.

\*Only for DXS18 (SPW-1)



	Power Rating <sup>*1</sup>	Maximum SPL <sup>*2</sup>	Frequency Range	LF
DXS12	950W	131dB SPL	47Hz-160kHz	12" cone
DXS15	950W	132dB SPL	45Hz-160kHz	15" cone
DXS18	1020W	136dB SPL	32Hz-120kHz	18" cone

\*1 Dynamic Power \*2 Measured Maximum SPL (peak)



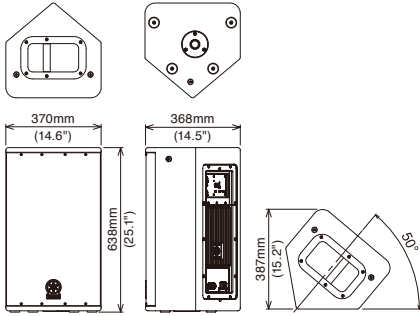
DXS12 DXS15 DXS18

# DSR Series

12" 2-way Powered Loudspeaker

## DSR112

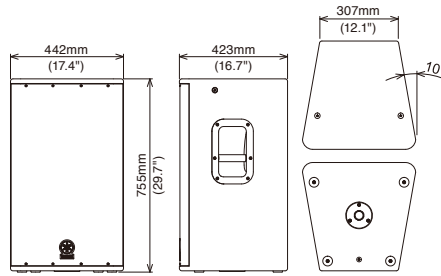
The DSR112 is the most compact and versatile speaker in the series. Capable of delivering an astonishing peak SPL of 134dB, the DSR112 can be used for both front-of-house sound or floor monitoring applications.



15" 2-way Powered Loudspeaker

## DSR115

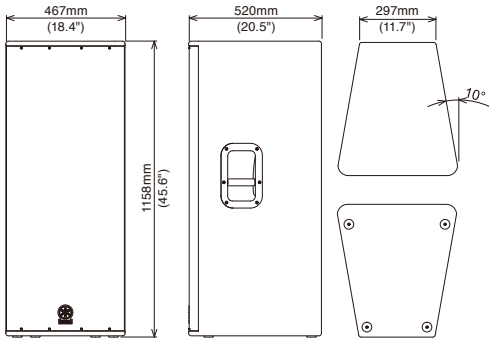
The DSR115 is a high-power 15" 2-way loudspeaker perfect for situations that require a more prominent bottom end and higher output. With a maximum SPL of 136dB and extremely wide bandwidth the DSR115 ensures a higher level of audience satisfaction.



Dual 15" 2-way Powered Loudspeaker

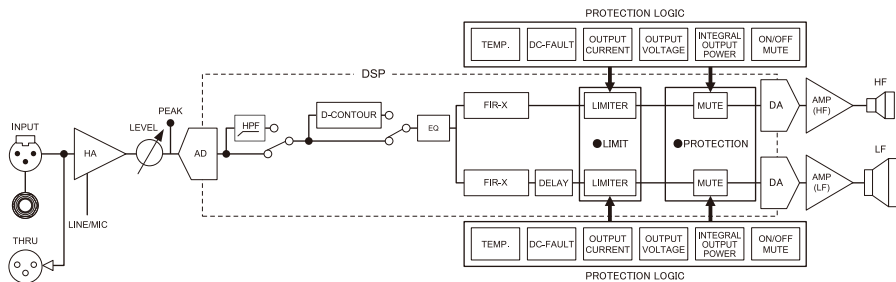
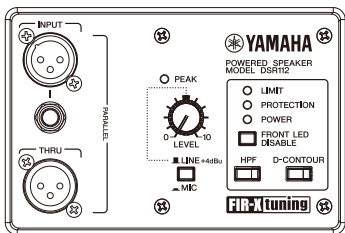
## DSR215

Perfect for live sound applications that require a simple setup and serious power, the DSR215 features two cast-frame 15" woofers, and a neodymium compression driver that faithfully reproduce a wide frequency range—from thunderous lows to soaring highs—with outstanding clarity.



### Rear Panels & Block Diagrams

DSR Series : Full-range models



# Optional Brackets

## U Bracket



Model	Compatible Speakers
UB-DXR8	DXR8
UB-DXR10	DXR10
UB-DXR12	DXR12
UB-DXR15	DXR15

UB-DXR brackets can be used with other brackets like BBS215 etc.

## Baton Bracket



Model	Compatible Speakers
BBS251	DBR10/12/15

## Ceiling Bracket



Model	Compatible Speakers
BCS251	DBR10/12/15

## Wall Bracket

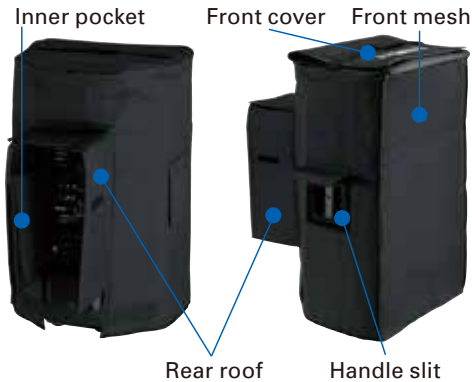


Model	Compatible Speakers
BWS251-300	DBR10/12/15
BWS251-400	DBR10/12/15

# Functional Speaker Covers

Introducing Yamaha's newly designed functional speaker covers that protect your speakers from unfavorable weather conditions during outdoor performances, dusty and dirty warehouse storage, or the rigors of equipment transport on the road.

## SPCVR-1501 on DXR15



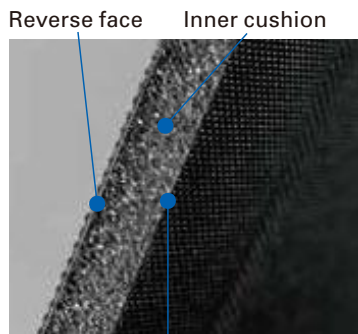
Model	Compatible Speakers
SPCVR-0801	DXR8
SPCVR-1001	DXR10, DBR10, CBR10
SPCVR-1201	DXR12, DBR12, CBR12
SPCVR-1501	DXR15, DBR15, CBR15
SPCVR-12S01	DXS12
SPCVR-15S01	DXS15
SPCVR-18S01	DXS18

\*Please visit our Web site for the latest information (<http://www.yamahaproaudio.com>)

## SPCVR-18S01 on DXS18



## Triliminar fabric



Polyester surface with PVC coating backside

# Optional Wheel kit

For more fast and convenient setup of your DXS18 subwoofers, optional wheels are available, featuring radial ball bearings that ensure quiet during your performance.

\*Only for DXS18 (SPW-1)



Model	Compatible Speakers
SPW-1	DXS18



SHARING PASSION & PERFORMANCE

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Printed in Japan

# DXS Series

## Powered Subwoofer



DXS18



DXS15



DXS12

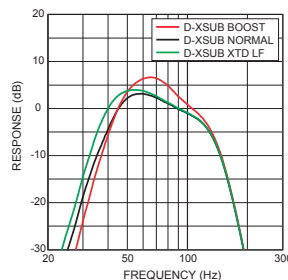
High output, compact powered subwoofers that match perfectly with DSR, DXR and DBR powered loudspeakers.

- Output levels up to 136dB SPL with 1020W Class-D power amplifier
- Low frequency extension down to 32Hz
- Optimized band-pass design produces high SPL with drastically reduced distortion
- Powerful D-XSUB DSP processing provides a choice of NORMAL, BOOST, or XTENDED LF settings to match a variety of applications
- Cardioid mode setting with two or more speakers reducing the SPL of bass directed towards the stage \*Only for DXS18
- Extensive DSP protection functions for maximum output
- Custom-designed high-power woofer with superior damping characteristics
- INPUT and THRU connectors for efficient, flexible system setup
- Universal switching-mode power supply for world-wide use
- Durable Wooden Enclosure with LINE-X Coating

### D-XSUB Bass Processing

Powerful D-XSUB processing gives you total control of low frequency. NORMAL mode gives you the ideally balanced low-frequency response, while BOOST mode provides a more tight and focused bass. XTENDED LF mode drops the low-end frequencies down even further for thunderous bottom end that delivers.

Frequency Response of DXS18



### OPTIONS

#### Functional Speaker Cover



SPCVR-18S01

Model	Compatible Speakers
SPCVR-0801	DXR8
SPCVR-1001	DXR10, DBR10, CBR10
SPCVR-1201	DXR12, DBR12, CBR12
SPCVR-1501	DXR15, DBR15, CBR15
SPCVR-12S01	DXS12
SPCVR-15S01	DXS15
SPCVR-18S01	DXS18

#### Wheel Kit

\*Only for DXS18 (SPW-1)



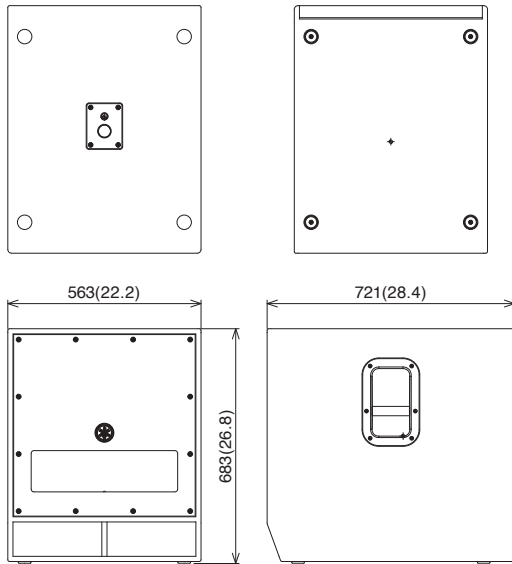
## GENERAL SPECIFICATIONS

Model	DXS18	DXS15	DXS12
Speaker Type	Powered subwoofer, Band-pass type		
Frequency Range	-10dB 32Hz - 120Hz	45Hz - 160Hz	47Hz - 160Hz
Maximum SPL (1m; on axis)	136dB SPL		
Components	18" cone, 4" voice coil	15" cone, 2.5" voice coil	12" cone, 2.5" voice coil
Output Power	Dynamic	1020W	950W
	Continuous	800W	600W
Connectors	INPUT: XLR-3-31 x2 , THRU: XLR3-32 x 2(THROUGH or HPF POST)	INPUT: XLR-3-31 x2 , THRU: XLR3-32 x 2(Parallel with INPUT)	
HPF/LPF	80,100,120Hz 24dB/oct LPF		
Processors	D-XSUB: BOOST, XTD-LF, NORMAL CARDIOID	D-XSUB: BOOST, XTENDED-LF, OFF	
Power Requirements	100V - 240V, 50Hz/60Hz		
Power Consumption	100W	120W	
Pole socket	35mm (depth 80mm)&M20(threaded depth 25mm)	35mm (Top x1)	
Dimensions (W x H x D)	563 x 683 x 721mm (22.2" x 26.8" x 28.4")	478 x 618 x 624mm (18.8" x 24.3" x 24.5")	397 x 563 x 594mm (15.6" x 22.2" x 23.4")
Weight	49.7kg (110lbs)	38.0kg (83.8lbs)	33.0kg (72.8lbs)
Material	Plyood, LINE-X®, Black	Wood, LINE-X®, Black	

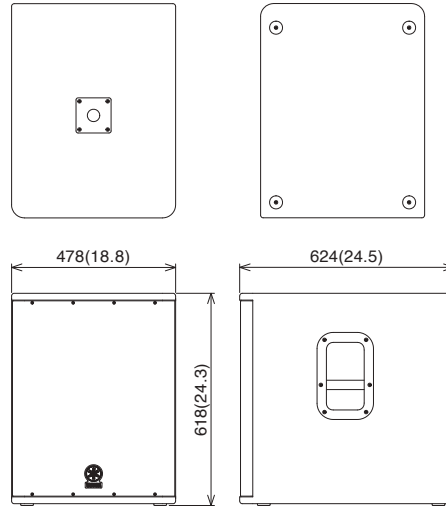
## DIMENSIONS

unit : mm (inch)

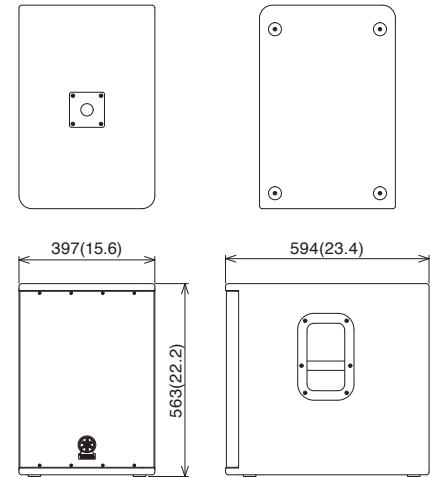
DXS18



DXS15

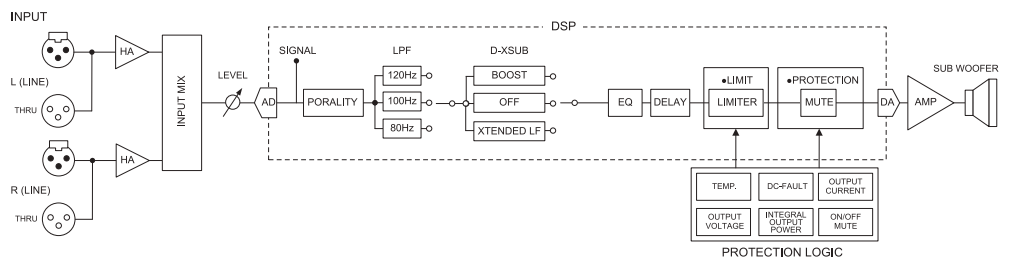
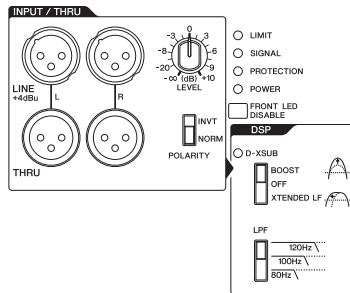


DXS12



## REAR PANELS & BLOCK DIAGRAMS

DXS12&DXS15



DXS18

