

Powered Loudspeakers

# DBR Series

DBR10 DBR12 DBR15



## ***POWER TO PLAY***

Wherever your music may take you, DBR Series loudspeakers are up to the task of delivering powerful, high-quality sound with an un-matched economy of transport and setup time. The most portable powered loudspeakers Yamaha has to offer, the versatile DBR Series harnesses the same state-of-the-art Yamaha DSP and amplifier and speaker technologies developed for the professional DSR Series and DXR Series lineups, ensuring high-resolution sound at any output level. Comprised of 10", 12" and 15" models, each DBR loudspeaker is housed in a newly designed, durable, lightweight cabinet optimized for FOH sound, floor-monitoring and even rigged applications. Whether you're powering your band's live performance, DJ-ing a party, or MC-ing an event, be prepared for DBR Series speakers to take your performance to the next level.

# 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.



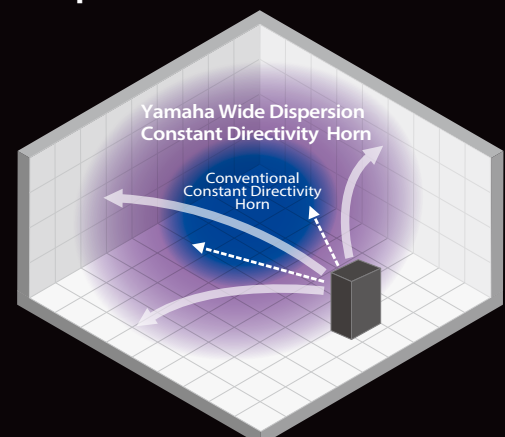
## Rugged Enclosure Design for Optimal Acoustic Performance

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

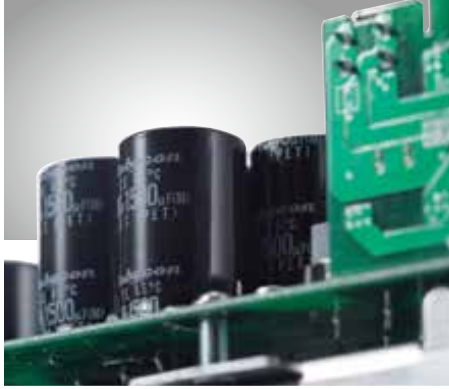
The extremely accurate constant directivity horn was designed with the goal of minimizing the radiation pattern deterioration in oblique directions that other, more conventional horns are prone to. This can help to achieve a more ideal coverage area without irregularities. With Yamaha's wide dispersion 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 1000W Class-D Amplifiers

The DBR's lightweight, high performance Class-D amplifier is capable of producing up to 1000W\* of power, achieving an SPL of 132dB, delivered with remarkable clarity and dynamic characteristics.

\*DBR10 has an output level of 700W.



## Custom Designed Transducer

The high power output woofers deliver well-defined, powerful bass with minimal distortion, while the 1.4" precision compression driver\* produces accurate mid-range and high frequencies.

\*DBR10 features a 1" compression driver.



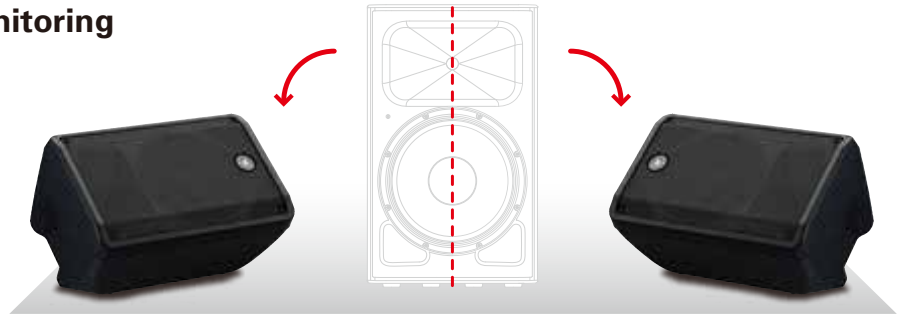
## A Rugged, Highly Portable Cabinet

DBR Series speakers feature a compact, lightweight, and durable plastic cabinet which offers the highest level of portability of all Yamaha powered speakers. The sleek steel grill bolsters cabinet durability and protects the internal components while a newly designed ergonomic handles provide effortless transportation and system setup.



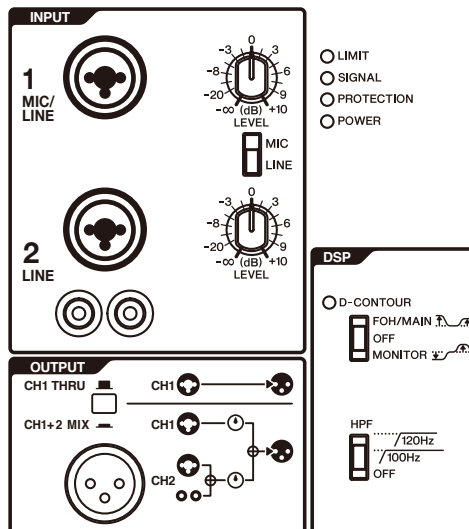
## Smart Enclosure Design for Floor Monitoring

DBR Series speakers feature an optimized 50° wedge angle for floor monitoring. In addition the DBR12 and DBR15's symmetrical shape allows for effortless configuration of a mirror-mode floor monitoring system in either symmetrical or stereo sound field setups.



## Easy-to-use Onboard 2-Channel Mixer

DBR Series speakers have two input channels. CH1 has a combo jack which accepts both XLR and TRS Phone allowing for either Mic or Line level input signals. CH2 offers two input options; a combo jack that accepts XLR or TRS Phone, and an RCA pin jack for input from CD players or other stereo line-level sources. The onboard mixer allows you to select either CH1+2 MIX to mix the signal of CH1 and CH2, or CH1 THRU to pass the signal from CH1 only.



## Rigging Points for Installation Applications

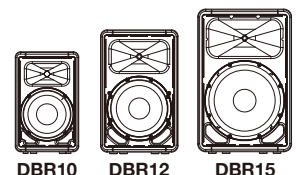
DBR loudspeakers come equipped with M8 rigging threads, allowing for rigged applications with optional speaker brackets or standardized eye-bolts.

\*Speaker brackets and eye-bolts are not included.



	Power Rating <sup>*1</sup>	Maximum SPL <sup>*2</sup>	Frequency Range	LF	HF	Coverage Angle
DBR10	700W	129dB SPL	55Hz-20kHz	10" cone	1" diaphragm, 1" throat	H90°x V60°
DBR12	1000W	131dB SPL	52Hz-20kHz	12" cone	1.4" diaphragm, 1" throat	H90°x V60°
DBR15	1000W	132dB SPL	50Hz-20kHz	15" cone	1.4" diaphragm, 1" throat	H90°x V60°

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

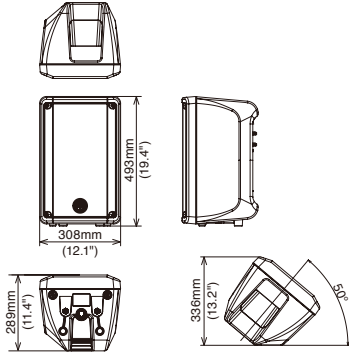


# DBR Series

## 10" 2-way Powered Loudspeaker

# DBR10

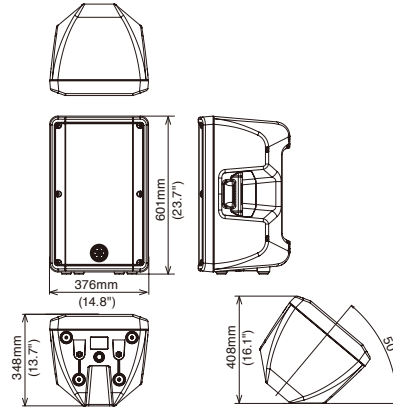
The DBR10 is the most compact model in the lineup and in its class. Capable of delivering a maximum SPL of 129dB from its compact enclosure, the DBR10 can be used as a utility speaker in a variety of environments.



## 12" 2-way Powered Loudspeaker

# DBR12

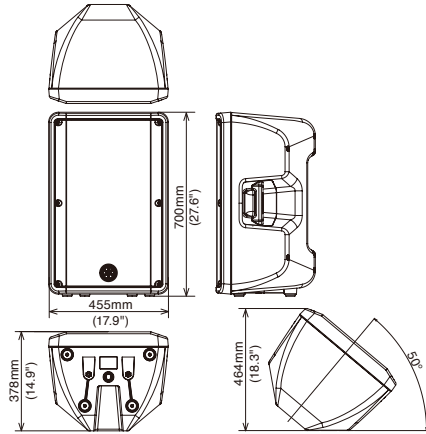
The DBR12 represents a perfect balance of size and performance, with 1000W of power and outstanding resolution at any output level. Ideal for front-of-house, floor monitoring applications or even the stage side fills, the DBR12 is an ideal choice for a wide range of applications.



## 15" 2-way Powered Loudspeaker

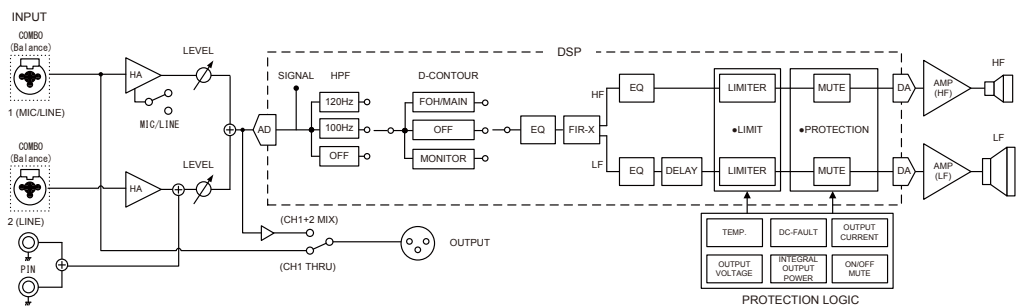
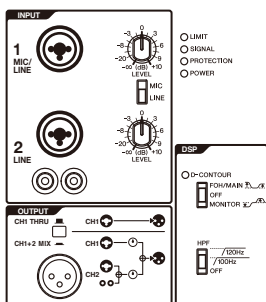
# DBR15

The DBR15 achieves best-in-class SPL of up to 132dB and delivers the lowest frequency in its lineup. The DBR15 delivers outstanding performance for the main front-of-house sound for the live performance or DJ events that require highly prominent low and more power.



## Rear Panels & Block Diagrams

### DBR Series



# 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

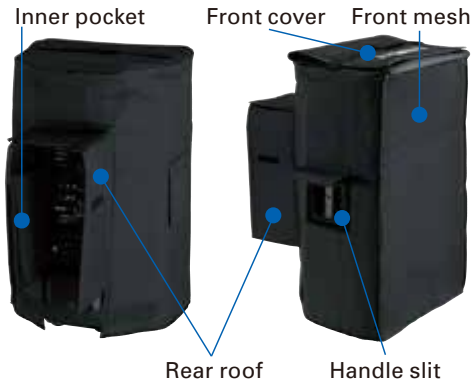


Model	Compatible Speakers
BWS251-300	DBR10/12/15
BWS251-400	DBR10/12/15

# 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



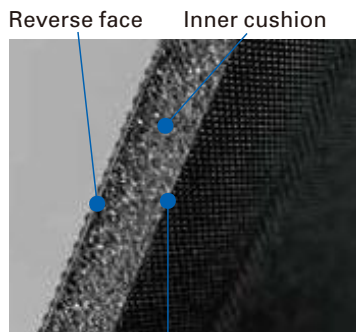
Model	Compatible Speakers
SPCVR-0801	DXR8
SPCVR-1001	DXR10, DBR10, CBR10
SPCVR-1201	DXR12, DBR12, CBR12
SPCVR-1501	DXR15, DBR15, CBR15
SPCVR-12S01	DXS12
SPCVR-15S01	DXS15
SPCVR-18S01	DXS18

\*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

YAMAHA CORPORATION  
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[www.yamahaproaudio.com](http://www.yamahaproaudio.com)

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Printed in Japan

# DBR15 DBR12 DBR10

## Technical Specifications

### General Specifications

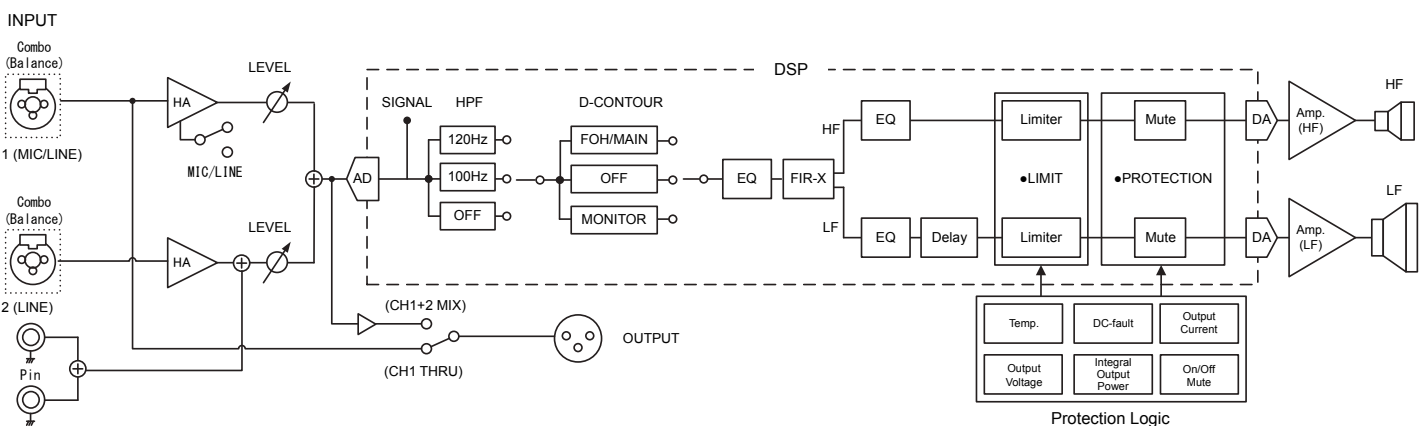
General		DBR15	DBR12	DBR10
System Type		2-way, Bi-amp Powered Speaker, Bass-reflex Type		
Frequency Range (-10dB)		50 Hz-20 kHz	52 Hz-20 kHz	55 Hz-20 kHz
Coverage Angle		H90° x V60° Constant Directivity Horn		
Crossover Type		FIR-X Tuning (Linear Phase FIR Filter)		
Crossover Frequency		2.1 kHz	2.1 kHz	2.1 kHz
Measured Maximum SPL (Peak) IEC noise@1m		132 dB SPL	131 dB SPL	129 dB SPL
Transducer		DBR15	DBR12	DBR10
LF	Diameter	15" Cone	12" Cone	10" Cone
	Voice coil	2.5"	2"	2"
	Magnet	Ferrite		
HF	Diaphragm	1.4"		
	Type	1" Throat Compression Driver		
	Magnet	Ferrite		
Enclosure		DBR15	DBR12	DBR10
Material, Color		Plastic, Black		
Floor Monitor Angle		50° Symmetrical	50° Symmetrical	50°
Dimensions (WxHxD, with rubber feet)		455 x 700 x 378 mm (17.9" x 27.6" x 14.9")	376 x 601 x 348 mm (14.8" x 23.7" x 13.7")	308 x 493 x 289 mm (12.1" x 19.4" x 11.4")
Net Weight		19.3 kg (42.6 lbs)	15.8 kg (34.8 lbs)	10.5 kg (23.2 lbs)
Handles		Side x 2		Top x 1
Pole Socket		35mm		
Rigging Points		Bottom x 2, Rear x 1 (Fit for M8 x 15mm Eyebolts)		Bottom x 2 (Fit for M8 x 15mm Eyebolts)
Optional Seaker Bracket		BBS251, BCS251, BWS251-300, BWS251-400		
Amplifier		DBR15	DBR12	DBR10
Amplifier Type		Class-D		
Power Rating *1	Dynamic	1000 W (LF: 800 W, HF: 200 W)		700 W (LF: 500 W, HF: 200 W)
	Continuous	465 W (LF: 400 W, HF: 65 W)		325 W (LF: 260 W, HF: 65 W)
Cooling		Fan Cooling, 4 Speeds.		
AD/DA		24bit 48kHz Sampling		
HPF/LPF		OFF, 100Hz, 120Hz, 24dB/Oct. HPF		
DSP Preset		D-CONTOUR: FOH/MAIN, MONITOR, OFF		
Protection	Speaker	Clip Limiting, Integral Power Protection, DC-fault		
	Amplifier	Thermal, Output Over Current		
	Power Supply	Thermal, Output Over Voltage, Output Over Current		
Connectors	Input	Input1: Combo x1, Input2: Combo x1, RCA PIN x2 (Unbalanced)		
	Output	Output: XLR3-32 x1 (CH1 Parallel Through or CH1+CH2 Mix)		
Input Impedance		INPUT1 (XLR, Phone): 3 kΩ, INPUT2 (XLR, Phone, RCA Pin): 10 kΩ		
Input Sensitivity (LEVEL: Maximum)		INPUT1: LINE: 0 dBu, MIC: -32 dBu, INPUT2: 0 dBu		
Input Sensitivity (LEVEL: Center)		INPUT1: LINE: +10 dBu, MIC: -22 dBu, INPUT2: +10 dBu		
Maximum Input Level		INPUT1: LINE: +24 dBu, MIC: -8 dBu, INPUT2: +24 dBu		
Controls		LEVEL x2, LINE/MIC, HPF, D-CONTOUR, THRU/MIX, POWER		
Idle Power Consumption		18 W		18 W
1/8 Power Consumption		74 W		60 W
Power Requirements		100 V, 100-120V, 220-240 V, 110/127/220 V (Brazil), 50/60 Hz		

0 dBu is referenced to 0.775Vrms.

\*1 Power Rating (120V, 25°C). This is total value of individual output power.

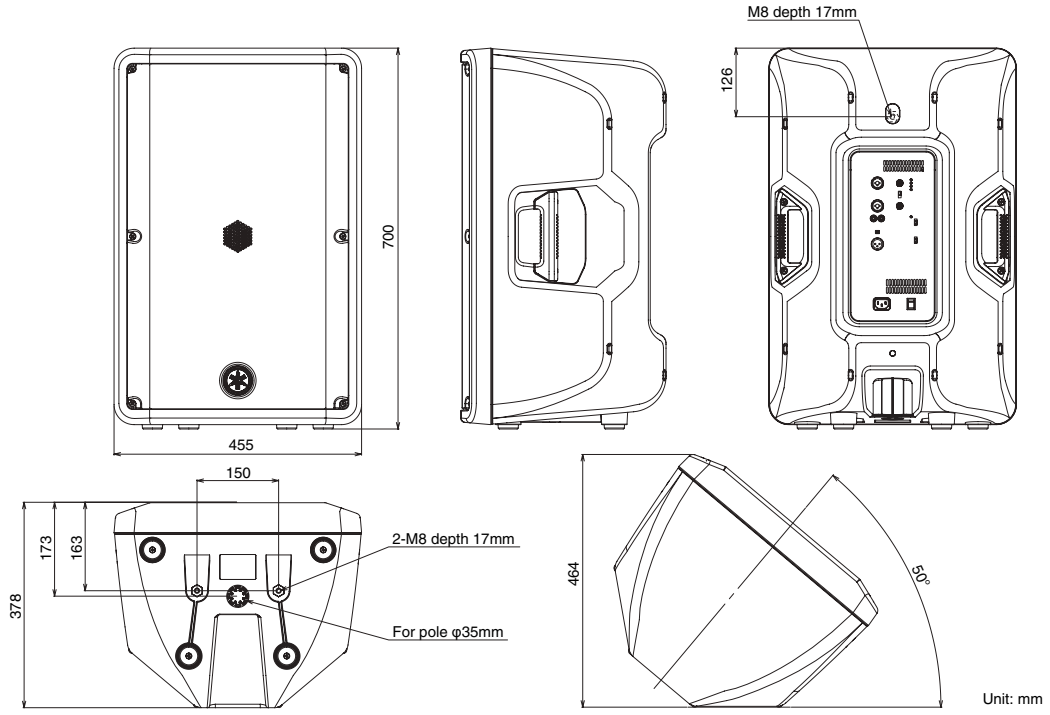
Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.

### Block Diagram

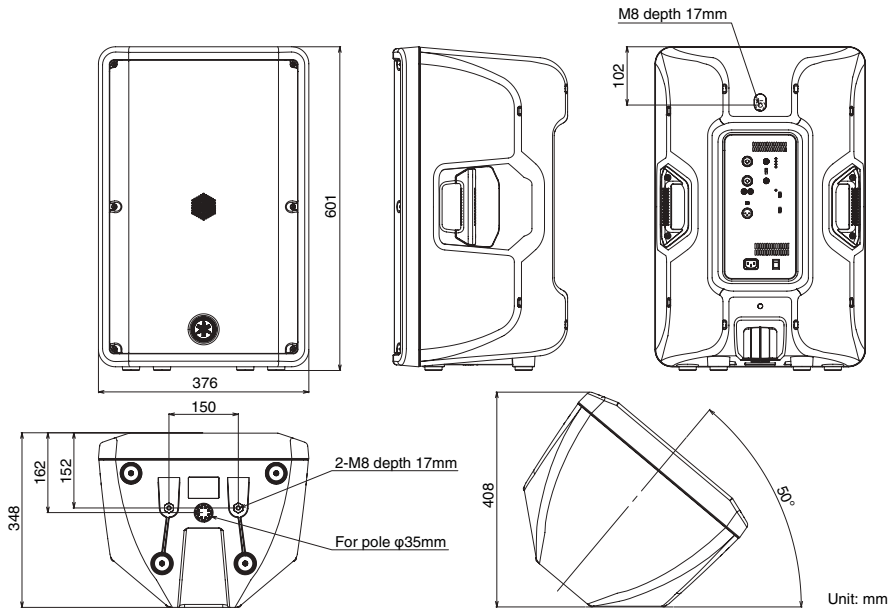


# Dimensions

## DBR15



## DBR12



## DBR10

