

DHR Series

POWERED SPEAKER SYSTEM

$\begin{array}{ccc} DHR 15 & DHR 15M \\ DHR 12 & DHR 12M \\ DHR 10 & \end{array}$

Reference Manual

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Available documentation

The following documents are available for this product.

• Owner's manual (included in the product package)

Describes safety precautions, installation, and implementation of this product. To learn how to use the product properly and safely, please read this manual before use.

• Reference manual (this document)

Explains all features of this product.

You can download each document from the Yamaha website. Please refer to them as necessary. https://download.yamaha.com/

The precautions and other matters of concern are classified in this manual as follows.



This content indicates "risk of serious injury or death."



This content indicates "risk of injury."

NOTICE

Matters that must be observed to avoid product breakdown, damage or malfunction.

NOTE

Points of note when using this product, limitations in functionality, and supplementary information that's useful to know.

NOTICE

To avoid the possibility of malfunction/damage to the product or damage to other property, follow the notices below.

Handling and maintenance

- Do not use the product in the vicinity of a TV, radio, or other electric products. Otherwise, the product, TV, or radio may generate noise.
- Do not expose the product to excessive dust or vibration, or extreme cold or heat, in order to prevent the possibility of panel disfiguration, unstable operation, or damage to the internal components.
- Do not install in locations where temperature changes are severe. Otherwise, condensation may form on the inside or the surface of the product, causing it to break or deform the wood. Do not leave condensation on the wood; wipe immediately with a soft cloth.
- If there is reason to believe that condensation might have occurred, leave the product for several hours without turning on the power until the condensation has completely dried out, in order to prevent possible damage.
- Do not touch the speaker driver unit, since it might cause malfunction.
- Air blowing out of the bass reflex ports (hole or holes at the front) is normal, and often occurs when the speaker is handling program material with heavy bass content.
- Do not place the speaker face down.
- Clean the product with a dry and soft cloth. Do not wipe product surfaces with benzene, paint thinners, cleaning fluids, or a chemical-impregnated wiping cloth, which could cause discoloration or change surface characteristics.
- Always turn the power off when the device is not in use.

Information

About functions

• XLR-type connectors are wired as follows (IEC60268 standard): pin 1: ground, pin 2: hot (+), and pin 3: cold (-).

About this manual

- The illustrations as shown in this manual are for instructional purposes only.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

Main Features

Sophisticated DSP processing

Our proprietary sound-processing technology, FIR-X Tuning, utilizes a linear-phase FIR (Finite Impulse Response) filter and delivers an excellent, high resolution sound with a smooth frequency response that is unaffected by phase interference near the crossover point.

• Easy sound optimization

D-CONTOUR (Dynamic CONTOUR) constantly monitors the output of multiple frequency bands, and applies the optimum EQ adjustments to each according to the listener's preferences. There are two modes: an FOH/MAIN mode for use as a main speaker, and a MONITOR mode for use as a floor monitor, letting you select the preset tuning optimized for each application.

• Various input/output connectors and convenient, simple mixing function

The comprehensive set of connectors—including XLR for a mixer, phone for a musical instrument, and RCA pin for an audio player—provides maximum flexibility in use with a wide variety of applications. Also, the DHR features simple mixing functionality, enabling you to select either a direct output of channel 1 (CH1) (parallel connection) or a mixed output of CH1 and CH2, for convenient system setup.

• Lineup for a variety of applications

The models have been optimized for various applications. The DHR15 delivers a powerful sound and is ideal for use as a main speaker. The sound character of the DHR15M and DHR12M has been optimized for monitoring, which makes them ideal as compact floor monitors. In addition, you can change the sound directivity by rotating the horn on the DHR12 or DHR10, which enables you to install them vertically or horizontally in a fixed installation by using compatible brackets.

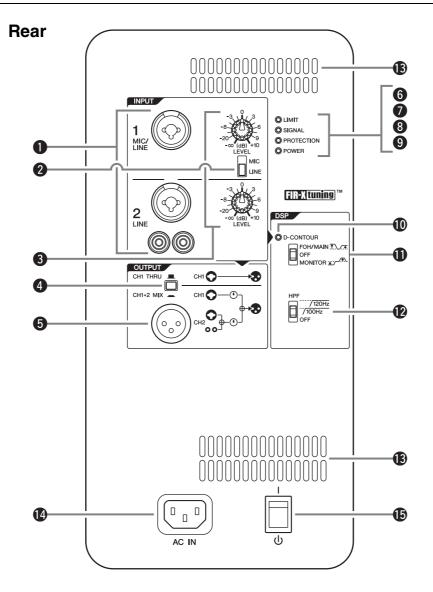
• High-grade and durable wood cabinet for superior sound

The naturally textured wood cabinet of the DHR speakers feature a durable coating with high scratch resistance that protects the cabinet surface from impact during transport, installation, and removal.

Included Accessories

- AC power cord ×1
- Owner's manual ×1

Controls and Connectors



Input connectors (CH1 and CH2)

These are balanced combo connectors that support both XLR and phone plugs (both CH1 and CH2), and RCA pin plugs (CH2 only). For the combo connectors, connect a mixer, microphone, or digital musical instrument such as a keyboard. For RCA-pin connectors, connect a device such as an MP3 player or a CD player. For devices with high level signals such as a mixer, connect to CH2, or connect to CH1 then set the [MIC/LINE] switch (2) to [LINE].



NOTE

For CH2, inputs to the combo connector and to the RCA pin connectors will be mono mixed at a fixed balance. If you want to change the balance, adjust the volume of the connected sound source.

②[MIC/LINE] switch

Set this switch to [MIC] or [LINE] for the CH1 connector, depending on the level of the input signal. For low-level signals (such as microphones), set the switch to [MIC]. For high-level signals (such as mixer), set the switch to [LINE].

[LEVEL] knobs

Adjust the level of each input connector (1).

Output switch

Selects the output signal sent to the output connector (5).

[CH1 THRU]: Delivers the direct output signal of CH1 only. Signal from CH2 will not be output.

[CH1+2 MIX]: Outputs the mixed signals of CH1 and CH2.

Output connector

This is a balanced XLR 3-pin chassis output connector. This can be used to connect another DHR speaker. Outputs the signal selected by ④ output switch.

6 [LIMIT] indicator

Indicates (lit in red) that the limiter is on when the output voltage of the amplifier has exceeded the maximum level, or when excessive integral power consumption is detected. If this indicator stays lit, lower the input level.

NOTE

Integral power consumption refers to the sum of power provided to the speaker driver per unit time.

[SIGNAL] indicator

Indicates (lit in green) when an audio signal exceeding the threshold has been detected.

[PROTECTION] indicator

Indicates (lit in red) when the protection circuit is active. The protection circuit will be activated and the speaker outputs will be muted in the situations listed below.

- If amplifier overheating is detected
- If overcurrent is detected
- When turning the power on; the protection circuit will be activated for a few seconds to prevent noise. The indicator turns off when the power supply has started normally.

If the protection circuit has engaged, waiting until the amplifier cools down or powering off and on again will return to normal operation. If the unit does not return to normal operation, please contact your Yamaha dealer.

[POWER] indicator

Indicates (lit in green) when the [1/U] (power) ((b) switch is turned on.

[D-CONTOUR] indicator

Indicates (lit in yellow) when the [D-CONTOUR] switch (1) is set to [FOH/MAIN] or [MONITOR].

(D-CONTOUR] switch

Selects one of the D-CONTOUR (Dynamic CONTOUR) presets.

- [FOH/MAIN]: Boosts the high and low frequency components so that the frequency response is suitable for a main speaker.
- [MONITOR]: Reduces the low frequency range, which could otherwise tend to be boomy if the speaker is set directly on the floor. This enables you to hear mid and high frequency ranges clearly when using as a floor monitor.
- [OFF]: Turns off D-CONTOUR. This is a generic frequency response setting.

(HPF) switch

Selects the cutoff frequency of the high pass filter. If you set this switch to [120Hz] or [100Hz], the low frequency components below each threshold will be cut. If you use the unit alone, set this switch to [OFF]. If you plan to use the unit along with a subwoofer, we recommend that you set this switch to [120Hz] or [100Hz].

Vent

The unit contains a cooling fan.



CAUTION Do not block the vents. This product has ventilation holes at the rear to prevent the internal tem-

tion holes at the rear to prevent the internal temperature from becoming too high. Inadequate ventilation can result in overheating, possibly causing damage to the product(s), or even fire.

[AC IN] socket

Connect the supplied power cord in the order below. Before connecting the power cord, make sure that the DHR power is turned off.

- 1. Insert the plug of the power cord into this socket.
- 2. Plug the other end of the cord into the AC outlet.

NOTE

When removing the power cord, perform this procedure in reverse order.



WARNING

Use only the supplied power cord.

CAUTION



Turn off the power before you connect or disconnect the power cord.

●[| / ∪] (power) switch

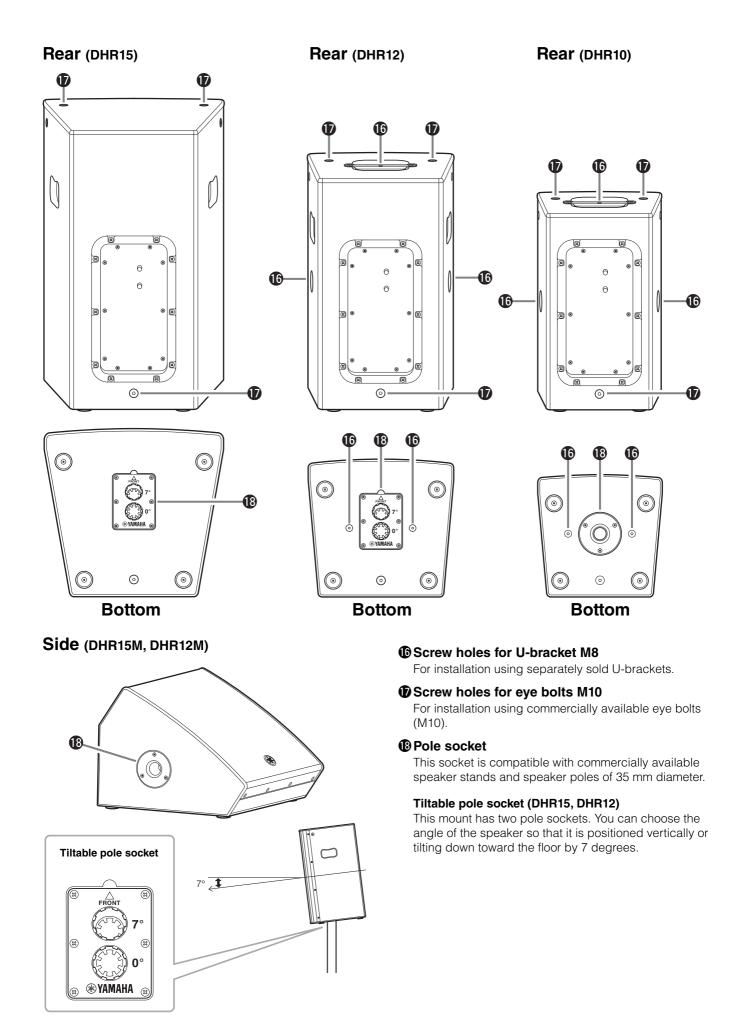
Turns the power supply on [I] or sets it to standby [\bigcirc]. First, turn on the power of the connected sound source (external device), then the unit. When turning off the power, reverse the order by turning off the power of the unit first and then the connected sound source (external device).

NOTICE

Even when the switch is in the standby position, a small amount of electricity is still flowing to the unit.

NOTE

- Rapidly turning the unit on and off in succession can cause it to malfunction. After turning the unit off, wait for about 5 seconds before turning it on again.
- If you are using multiple units, turn on the power to each unit one by one. If you turn on the power to multiple units simultaneously, a temporary drop in the power voltage may occur, possibly resulting in abnormal operation of the units.



Setup Examples

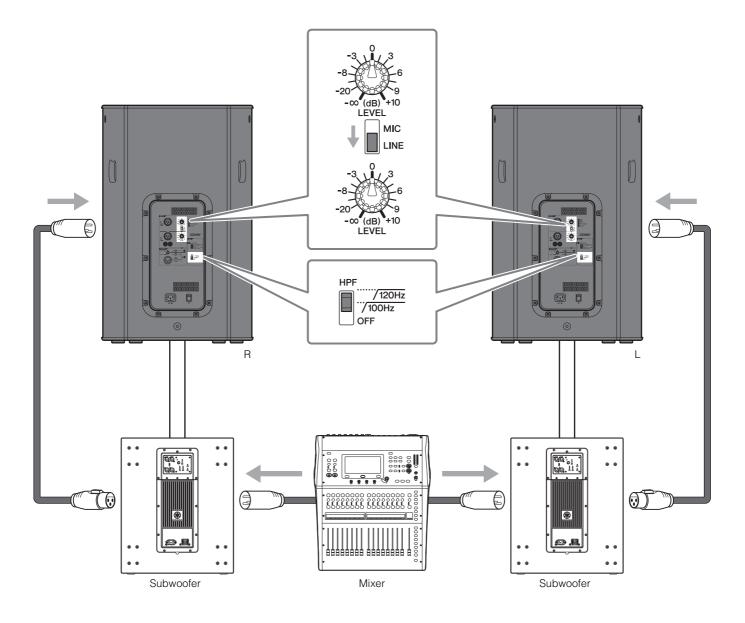
System with two DHRs and subwoofers—using the DHR15

This system is the most suitable for a main speaker system. If desired, you can add other DHR12M to create a floor monitor system.

Main application: small-sized live venue, house of worship, event site

NOTE

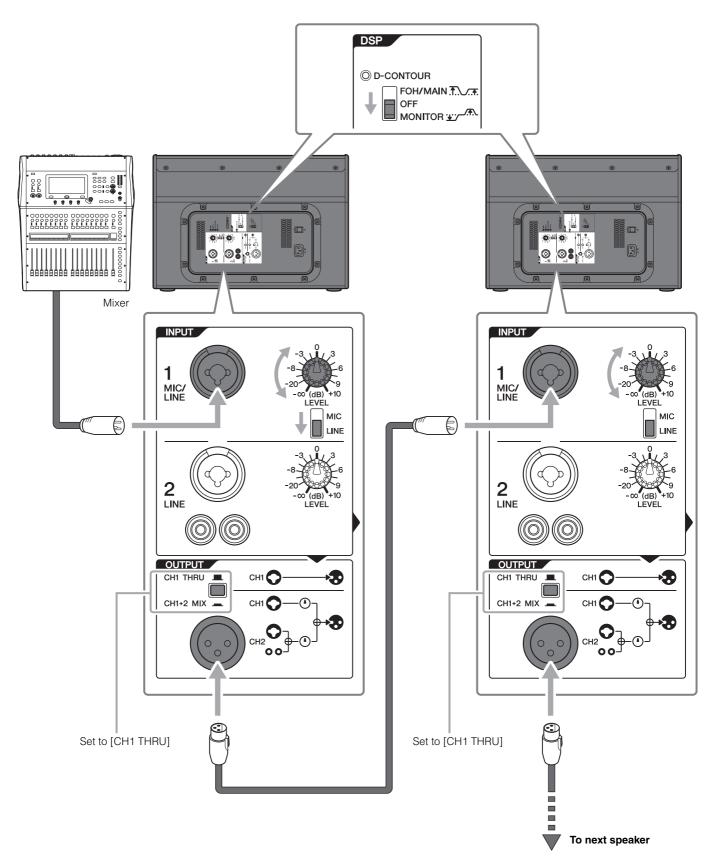
We recommend to use Yamaha DXS18 as a subwoofer. In this case, we recommend that the DHR15's HPF cutoff frequency and the DXS18's LPF cutoff frequency are set to the same settings; however, you can adjust it as desired.



Floor monitor system—using the DHR15M, DHR12M

This system is suitable for a performer's monitoring system. For use as a vocal monitor, set the [D-CONTOUR] switch to [MONI-TOR].

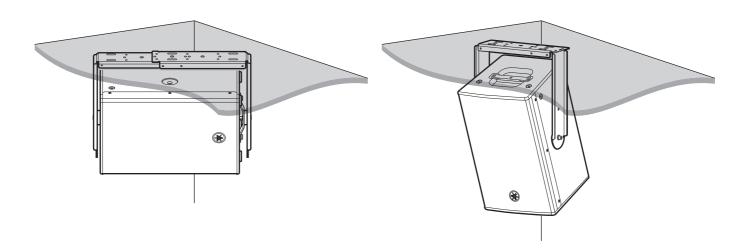
If necessary, you can additionally connect up to four speakers in parallel. In this case we recommend that the signal is input to CH1 and the output switch is set to [CH1 THRU].



Fixed installations—using the DHR12, DHR10

NOTE

The illustrations are based on the DHR10.



DHR12 and DHR10 can be neatly installed on a ceiling or a wall, either horizontally or vertically, using the separately sold Yamaha UB-DXRDHR12 and UB-DXRDHR10 U-bracket respectively. For instructions on installing the U-bracket, refer to the manual for the UB-DXRDHR12 and UB-DXRDHR10.

NOTE

You can use the U-bracket in combination with optional brackets sold separately. For more information, visit the following Yamaha Pro Audio website.

https://www.yamahaproaudio.com/

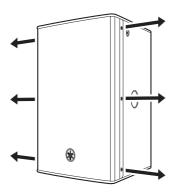
In addition, the DHR12 and DHR10 feature a rotatable horn (90 degrees). When they are shipped from the factory, the speaker directivity is set wide horizontally and narrow vertically, assuming that the speaker is installed vertically. If you are planning to install the speaker in a horizontal orientation, we recommend that you change the directivity by changing the horn orientation.

Rotatable Horn (DHR12, DHR10)

NOTE

The illustrations are based on the DHR10.

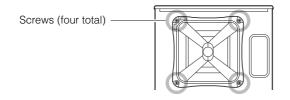
1. Using a No. 2 Phillips head screwdriver, remove all fixing screws on the grille, and then remove the grille from the speaker.



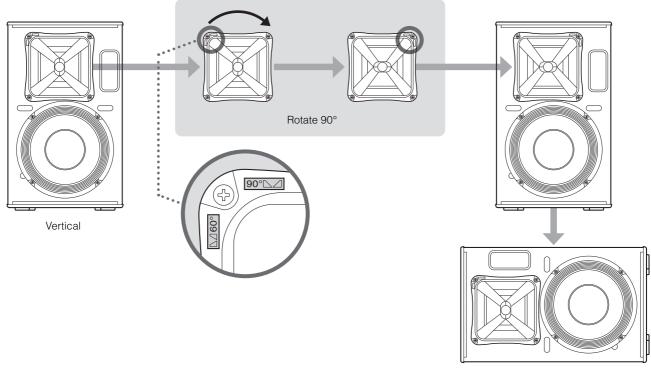
2. Using a No. 2 Phillips head screwdriver, remove all screws installed on the horn and then pull the horn out from the speaker.

NOTE

While removing the screws with the Phillips head screwdriver, do not apply too much pressure onto the screws. Otherwise, the nuts inside the cabinet may fall off.



3. Rotate the horn 90 degrees, and re-install the horn to the speaker, reversing the steps above.



Horizontal

Installation Examples



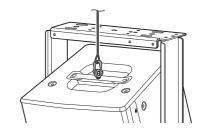
CAUTION

 Before doing any installation or construction work, consult with your Yamaha dealer.

- The installation should be checked thoroughly at regular intervals. Some fittings may deteriorate over extended periods of time due to wear and/or corrosion.
- Make sure that the wires, wall, ceiling, and mounting hardware are strong enough to support the weight of the speaker.
- Be sure to take precautionary measures using safety wire to prevent the speaker from falling.
- When attaching the safety wire to the wall, install it higher than the wire's attachment point on the speaker, with as little slack as possible. If the wire is too long, and the speaker happens to fall, the wire may snap as a result of too much strain.
- Be sure to use eye bolts that comply with standards and safety regulations in your area.

NOTE

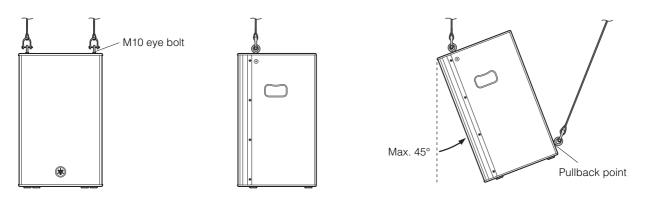
Safety wire can be attached to the screw holes for eye bolts and to the screw holes for the U-bracket (DHR12, DHR10) located at the center of the handle. The illustration below is an example of using the U- bracket.



Yamaha cannot be held responsible for damage or injury caused by insufficient strength of the support structure or improper installation.

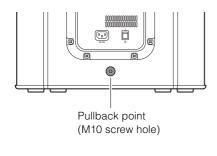
Suspended Installation Using Eye Bolts (DHR15, DHR12, DHR10)

Attach commercially available long eye bolts (30–50 mm in length) to the screw holes located at the top (two locations) and on the lower rear (one location). The screw diameter is M10. Keep in mind that you will need to use two points on the top to suspend the unit.



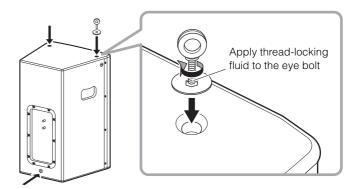
Pullback point

Lower rear



Securing the eye bolts

Remove the flat-head screws that were installed when the unit was shipped from the factory, and then insert the eye bolts through the washers when attaching them.



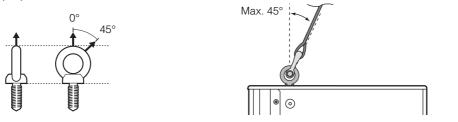
NOTE

The screw holes for eye bolts go through the cabinet wall. When not using eye bolts, tighten the flat-head screws in order to prevent air leaks.

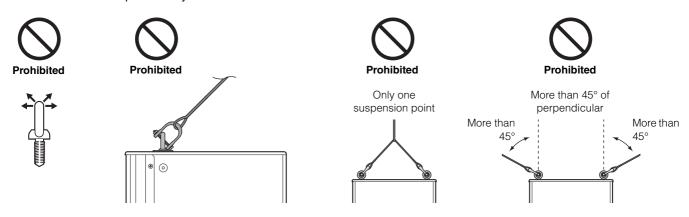
Suspension angle

The strength of an eye bolt differs depending on the suspension angle. Make sure to use eye bolts within a range of 0 to 45 degrees of perpendicular (as shown).

Correct: Within 45° of perpendicular



Incorrect: Do not suspend the eye bolts as shown in the illustrations below.



Troubleshooting

Symptom		Possible causes	Possible solution		
Power does not turn on.		The power cord is not connected properly.	Connect the power cord all the way in so that it is firmly in place.		
Power suddenly went off.		The protection system has been acti- vated, shutting down the power supply.	Turn off the power, wait until the amplifier cools down, and then turn on again.		
No Sound.		The cable is not connected properly.	Connect the cable all the way in so that it is firmly in place.		
Sound is interrupted suddenly.		The protection circuit has been activated, muting the output.	Wait until the amplifier cools down. If the unit won't automatica reset itself, turn off the power, and then on again.		
Sound howls (feedback).		A microphone is directed toward the speaker away from the area where the m picks up sound.			
		Sound is amplified too much.	Lower the volume of the input device and locate the micro- phone closer to the sound source.		
Each speaker sound differs (if multiple speakers are used).		Settings for each speaker differ.	Set the [HPF] switch and [D-CONTOUR] switch of each speaker to the same positions.		
Sound is distorted.	The [LIMIT] indicator is off.	Input volume is excessive.	When the [MIC/LINE] switch is set to [MIC], and even if you lower the volume fully the sound is still distorted, set the switch to the [LINE] position. If the sound is still distorted even if the switch has been set to [LINE], lower the volume of the con- nected input devices.		
	The [LIMIT] indicator is on.	Output volume is excessive.	Turn the [LEVEL] knob to lower the output level to a point so that the [LIMIT] indicator lights only occasionally.		
The microphone volume is too low.		The [MIC/LINE] switch is set to [LINE].	Set the [MIC/LINE] switch to the [MIC] position.		
Low and high frequency are unbalanced.		The output limiter is active.	Lower the input level or the output level until the [LIMIT] indicator lights occasionally.		

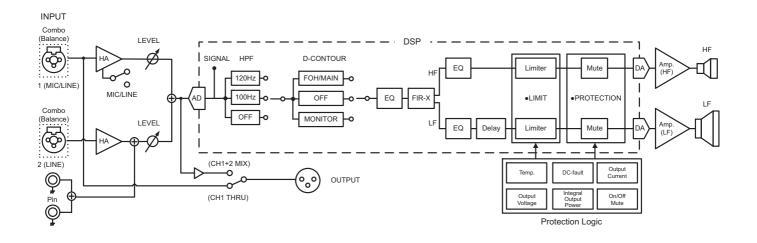
If any specific problem should persist, please contact your Yamaha dealer.

Specifications

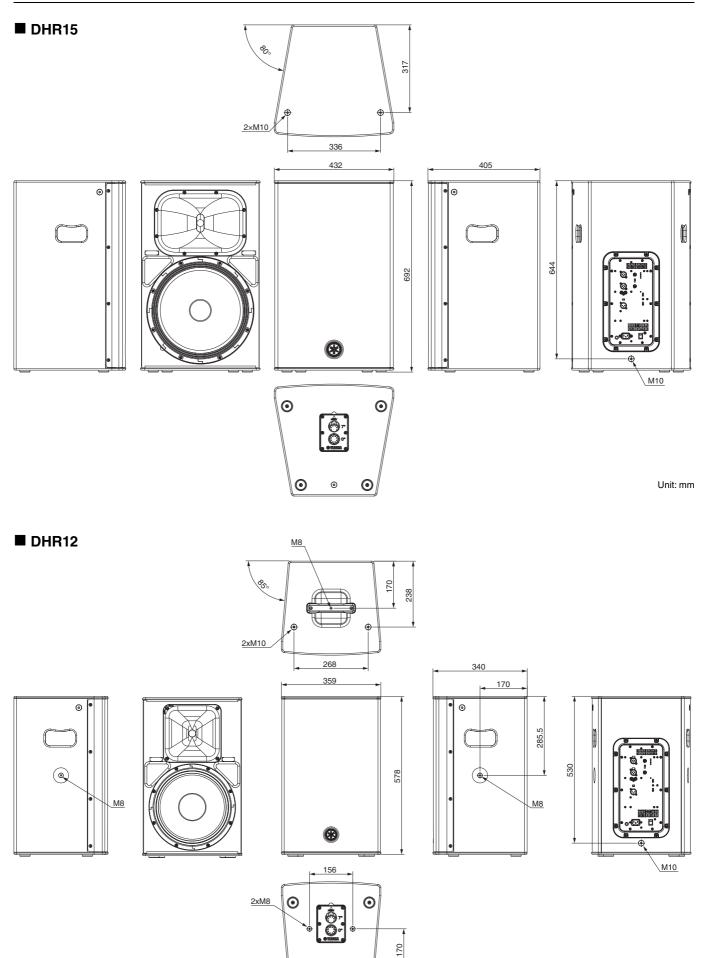
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Pole Socket Rigging Points Options Amplifier Amplifier class Power Rating *1 Continu Cooling AD/DA HPF DSP Preset Protection Speake Amplifie Power S I/O connectors Input Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce		Matte black powde steel grille with clot	h mesh lining, t=2.0	Matte black powder coated perforated steel grille, t=1.5				
Amplifier Amplifier class Power Rating *1 Dynami Continu Cooling AD/DA HPF DSP Preset Protection Speake Amplifier I/O connectors Input Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce		Side × 1	Side × 1	Side × 2	Top \times 1, Side \times 2	Top × 1		
Amplifier Amplifier class Power Rating *1 Dynami Continu Cooling AD/DA HPF DSP Preset Protection Speake Amplifier Oconnectors Input Output Power Not connectors Input Output Power Not constituity (LEVEL: Manual Sensitivity (LEVEL: Center) Manual Sensitivity (LEVEL: Center)		35 mm × 1	35 mm × 1	35 mm × 2 (0 and -7 degree)	35 mm × 2 (0 and -7 degree)	35 mm × 1		
Amplifier Amplifier class Power Rating *1 Dynami Continu Cooling AD/DA HPF DSP Preset Protection Speake Amplifie I/O connectors Input Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce		_	_	Top × 2, Rear × 1 (Fit for M10 × 30–50 mm Eyebolts)	Top × 2, Rear × 1 (Fit for M10 × 30–50 mm Eyebolts), Bottom × 2, Side × 2 (Fit for M8 × 55 mm UB-DXRDHR12)	Top × 2, Rear × 1 (Fit for M10 × 30–50 mm Eyebolts Bottom × 2, Side × (Fit for M8 × 55 mr UB-DXRDHR10)		
Amplifier class Power Rating *1 Dynami Cooling AD/DA HPF DSP Preset Protection I/O connectors I/O connectors Input Impedance Input Sensitivity (LEVEL: Ce		—	—	—	UB-DXRDHR12	UB-DXRDHR10		
Power Rating *1 Dynami Cooling AD/DA HPF DSP Preset Protection Speake Amplifie Power S I/O connectors Input Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce		DHR15M	DHR12M	DHR15	DHR12	DHR10		
Cooling AD/DA HPF DSP Preset Protection Speake Amplifie Power S I/O connectors Input Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce				Class-D		T		
Cooling AD/DA HPF DSP Preset Protection Speake Amplifie Power S I/O connectors Input Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce	mic	1000 W (LF: 800 W, HF: 200 W)			700 W (LF: 500 W HF: 200 W)			
AD/DA HPF DSP Preset Protection I/O connectors I/O connectors I/O connectors Input Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce	nuous	465 W (LF: 400 W, HF: 65 W)				325 W (LF: 260 W HF: 65 W)		
HPF DSP Preset Protection Speake Amplifie Power S I/O connectors Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce				an Cooling, 4 Speed				
DSP Preset Protection Protection I/O connectors I/O connectors Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce				4 bit 48 kHz Samplir	0	-		
Protection Speake Amplifie Power S I/O connectors Input Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce				100 Hz, 120 Hz, 24 d				
I/O connectors I/O connectors Input Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce				JR: FOH/MAIN, MON				
I/O connectors I/O connectors Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce			1	Integral Power Prote				
I/O connectors Input Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce		Thermal, Output Over Current						
Output Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce		Thermal, Output Over Voltage, Output Over Current						
Power Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce		Input1: Combo × 1, Input2: Combo × 1, RCA PIN × 2 (Unbalanced)						
Input Impedance Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce		Output: XLR3-32 × 1 (CH1 Parallel Through or CH1+CH2 Mix)						
Input Sensitivity (LEVEL: Ma Input Sensitivity (LEVEL: Ce			IEC AC inlet × 1 INPUT1: LINE: 10 kΩ, MIC: 3 kΩ, INPUT2: 10 kΩ					
Input Sensitivity (LEVEL: Ce								
		INPUT1: LINE: 0 dBu, MIC: -32 dBu, INPUT2: 0 dBu INPUT1: LINE: +10 dBu, MIC: -22 dBu, INPUT2: +10 dBu						
Viaximum Innut Level	Jenter)							
				4 dBu, MIC: -8 dBu,				
Controls		LEVEL × 2, LINE/MIC, HPF, D-CONTOUR, THRU/MIX, POWER						
Indicators (LED)		LIMIT (Red), SIGNAL (Green), PROTECTION (Red), POWER (Green), D-CONTOUR (Orange)						
Idle Power Consumption		18 W 74 W				18 W		
1/8 Power Consumption						60 W		
Power Requirements		10	00 V, 110–120 V, 220-		220 v (Brazil), 50/60	ΠZ		
Temperature Operation		Min 5°C-Max 40°C						
range Storage AC cord Length				Min -20°C-Max 50°C 2500 ± 50 mm				

*1 Dynamic: Total peak power of individual outputs. Measured at minimum load impedance, with protection released. Continuous: Measured at nominal impedance, with protection activated.

Block Diagram



Dimensions



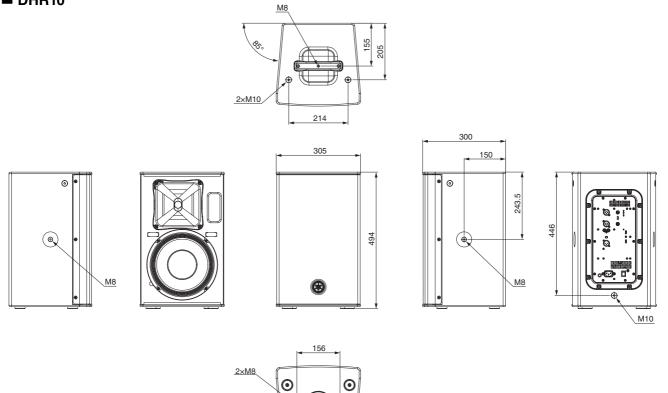
Unit: mm

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DHR10



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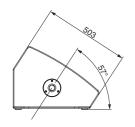
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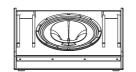
155

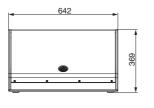
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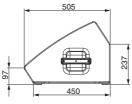
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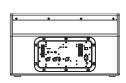








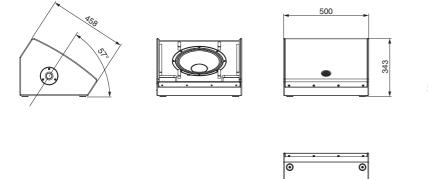


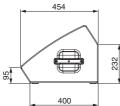


Unit: mm

DHR12M









Unit: mm

* The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file.

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