



POWERED LOUDSPEAKERS

DHR SERIES

DHR15 DHR12M DHR10

LOUDSPEAKERS

CHR SERIES

CHR15 CHR12M CHR10



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LOUDSPEAKERS

CHR SERIES

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PERFORMANCE. OPTIMIZED.

The DHR and CHR Series are ideal solutions for anyone ready to step up their sound reinforcement game to a new level of professional quality, accuracy, and performance. Premium plywood cabinets finished in a tough polyurea coating provide durability not found on other loudspeakers in this class. Each model has been optimized to meet the demands of a variety of sound reinforcement applications, with 10" models for fixed installation and utilities, 12" models designed for use as floor monitors, and 15" versions for FOH applications—all featuring custom transducers carefully selected. With DHR Series featuring custom transducers driven by DSP-equipped class-D power amplifiers to deliver stunning sound quality and clarity. Combined with practical features adapted for their specific applications, these two series give you the flexibility to choose the ideal speaker for a wide variety of sonic environments.



DHR Series

High-Efficiency 1000W Class-D Amplifiers

The DHR's lightweight, high performance Class-D amplifier is capable of producing up to 1000W* of power, achieving an SPL of 131dB, delivered with remarkable clarity and dynamic characteristics.

* DHR10 has an output level of 700W.

DHR Series CHR Series

Custom Designed Transducers

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.

* DHR/CHR12M features a 1.75" coaxial compression coaxial driver.

DHR Series CHR Series

A Rugged, Highly Portable Cabinet

Both the DHR and CHR series feature plywood enclosures like those of our acclaimed DZR/CZR loudspeakers to deliver outstanding durability and acoustic performance.



12" coaxial driver



DHR Series

CHR Series

Cabinet designs optimized for a range of audio environments

The DHR and CHR Series feature a comprehensive lineup of loudspeakers with cabinets optimized to meet the demands of specific applications. The 10" models are equipped with rotating horns and a dedicated U-bracket for use in fixed installations and utility, while the 12" models are the first Yamaha speakers to feature a coaxial compression driver for improved clarity and smoother frequency response for floor monitoring. The largest in the lineup are the 15" models, which feature dual-angle pole sockets and rigging points for use in fixed installations or as temporary main speakers for sound reinforcement.



DHR/CHR10



DHR/CHR12M

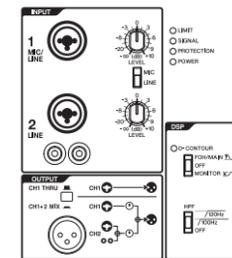


DHR/CHR15

DHR Series

Easy-to-use Onboard 2-Channel Mixer

DHR Series speakers have two input channels. CH1 has a combo jack which accepts either XLR and TRS Phone allowing Mic or Line level input signals. CH2 offers two input options; a combo jack that accepts XLR or TRS Phone, and a pair of RCA pin Jacks 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.



CHR Series

Intelligent processing to maximize system performance

When used in combination with Yamaha PX Series amplifiers or other compatible signal processors, CHR Series loudspeakers can take full advantage of dedicated speaker processor tuning settings.



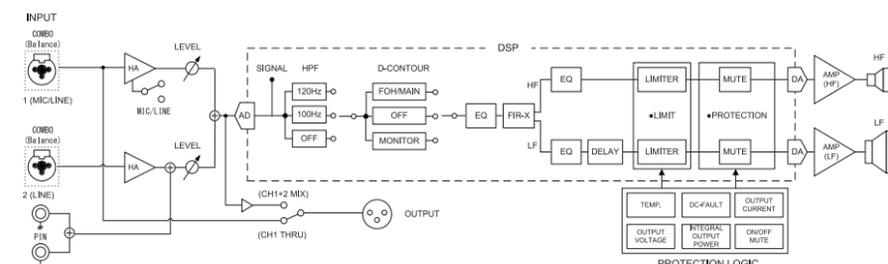
Additionally, the CHR Series can also be used to construct a system in combination with Yamaha subwoofers (visit Yamaha pro-audio website for more information).

	Power Rating ¹	Maximum SPL ²	Frequency Range (-10dB)	LF	HF	Coverage Angle
DHR15	1000W	131dB SPL	44Hz-20 kHz	15" Cone	1.4" diaphragm, 1" throat	H90° x V60°
DHR12M	1000W	129dB SPL	55Hz-20kHz	12" Cone (coaxial with HF)	1.75" diaphragm, 1" throat	H90° x V60°
DHR10	700W	127dB SPL	52Hz-20kHz	10" Cone	1.4" diaphragm, 1" throat	H90° x V60° (Rotatable)
CHR15	1000W	125dB SPL	49Hz-20 kHz	15" Cone	1.4" diaphragm, 1" throat	H90° x V60°
CHR12M	1000W	123dB SPL	61Hz-20kHz	12" Cone (coaxial with HF)	1.75" diaphragm, 1" throat	H90° x V60°
CHR10	700W	122dB SPL	55Hz-20kHz	10" Cone	1.4" diaphragm, 1" throat	H90° x V60° (Rotatable)

¹ EIA426-A, Passive PGM ² Calculated Maximum SPL (peak)

DHR Series

Block Diagram



Specifications

	DHR15	DHR12M	DHR10	CHR15	CHR12M	CHR10	
General							
System Type	2-way, Bi-amped Powered Speaker, Bass-reflex			2-way Speaker, Bass-reflex			
Frequency Range (-10dB)	44Hz-20kHz	55Hz-20kHz	52Hz-20kHz	49 Hz - 20 kHz	61 Hz - 20 kHz	55 Hz - 20 kHz	
Coverage Angle	H90° x V60°	H90° x V60°	H90° x V60° (Rotatable)	H90° x V60°	H90° x V90°	H90° x V60° (Rotatable)	
Crossover	Type	FIR-X tuning™ (Linear phase FIR filter)			-	-	-
	Frequency	1.8 kHz		1.9kHz	2.0 kHz	1.5 kHz	2.5 kHz
Nominal Impedance	-	-	-	8Ω			
Power Rating (EIA 426-A)	NOISE	-	-	-	250W	175W	
	PGM	-	-	-	500W	350W	
	MAX	-	-	-	1000W	700W	
Sensitivity (1W, 1m)	-	-	-	95dB SPL (*2)	93dB SPL (*2)	93dB SPL (*2)	
Maximum SPL	131dB SPL (*1)	129dB SPL (*1)	128dB SPL (*1)	125 dB SPL (*2)	123 dB SPL (*2)	122 dB SPL (*2)	
Transducer							
LF	Diameter	15" Cone	12" Cone	10" Cone	15" Cone	12" Cone	10" Cone
	Voice Coil	2.5"		2"	2.5"		2"
	Magnet	Ferrite			Ferrite		
HF	Diaphragm	1.4" PET	1.75" PET	1.4" PET	1.4" PET	1.75" PET	1.4" PET
	Type	1" Throat Compression Driver	1" Throat Compression Driver, Coaxial	1" Throat Compression Driver	1" Throat Compression Driver	1" Throat Compression Driver, Coaxial	1" Throat Compression Driver
	Magnet	Ferrite			Ferrite		
Enclosure							
Material, Finish, Color	Plywood, Durable Polyurea coating, Black			Plywood, Durable Polyurea coating, Black			
Floor Monitor Angle	-	57°	-	-	57°	-	
Dimensions (W x H x D, with rubber feet)	432 x 692 x 405 mm 17.0" x 27.2" x 15.9"	500 x 343 x 454 mm 19.7" x 13.5" x 17.9"	305 x 494 x 300 mm 12.0" x 19.5" x 11.8"	432 x 692 x 405 mm 17.0" x 27.2" x 15.9"	500 x 343 x 454 mm 19.7" x 13.5" x 17.9"	305 x 494 x 300 mm 12.0" x 19.5" x 11.8"	
Net Weight	24.0 kg (52.9 lbs)	16.5 kg (36.4 lbs)	15.0 kg (33.1 lbs)	22.0 kg (48.5 lbs)	15.6 kg (34.4 lbs)	13.7 kg (30.2 lbs)	
Handles	Side x2	Side x1	Top x1	Side x2	Side x1	Top x1	
Pole Socket	Φ35 mm x2 (0° or -7°)		Φ35 mm	Φ35 mm x2 (0° or -7°)		Φ35 mm	
Rigging Points for eyebolts	M10 x3 (Top x2, Rear x1, L:30-50mm)	-	M10 x3 (Top x2, Rear x1, L:30-50mm)	M10 x3 (Top x2, Rear x1, L:30-50mm)	-	M10 x3 (Top x2, Rear x1, L:30-50mm)	
Connectors	-	-	-	SpeakON NL4MP x 2 (Parallel)			
Options	Speaker Bracket	-	-	UB-DXRDRH10	-	UB-DXRDRH10	
	Speaker Cover	-	-	-	-	-	
Amplifier & DSP							
Amplifier Type	Class-D			-	-	-	
Power Rating*1	Dynamic*2	1000W (LF: 800W, HF: 200W)		700W (LF: 500W, HF: 200W)	-	-	
	Continuous	465W (LF: 400W, HF: 65W)		325W (LF: 260W, HF: 65W)	-	-	
Cooling	Fan cooling, 4 speeds			-	-	-	
AD/DA	24 bit / 48 kHz Sampling			-	-	-	
HPF/LPF	OFF, 100, 120Hz 24dB/oct HPF			-	-	-	
DSP control, 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	Analog Input	INPUT1: Combo x1, INPUT2: Combo x1 + RCA-pin x2 (Unbalanced)			-	-	
	Analog Output	XLR3-32 x 1 (CH1 Parallel Through or CH1+CH2 Mix)			-	-	
	AC IN	IEC AC inlet x1			-	-	
Analog Input Impedance	INPUT1 (XLR, TRS Phone) : 3kΩ, INPUT2 (XLR, TRS Phone, RCA Pin) : 10kΩ			-	-	-	
Analog Input Sensitivity (LEVEL: Maximum)	INPUT1 : LINE= 0dBu / MIC= -32dBu, INPUT2= 0dBu			-	-	-	
Analog Input Sensitivity (LEVEL: Center)	INPUT1 : LINE= +10dBu / MIC= -22dBu, INPUT2= +10dBu			-	-	-	
Maximum Analog Input Level	INPUT1 : LINE: +24dBu, MIC: -8dBu, INPUT2 : +24dBu			-	-	-	
Controls	LEVEL x2, LINE/MIC, HPF, D-CONTOUR, THRU/MIX, POWER			-	-	-	
Power Consumption	Idle	18W			-	-	
	1/8 Power	74W		60W	-	-	
Power Requirements	100V, 110-120V, 220-240V, 110V/127V/220V(Brazil), 50/60Hz						

*1: Measured peak SPL with pink noise @1m.

*2: Total peak power of individual outputs (AC 120V, 25°C). This value was measured at minimum load impedance, with protection released.

*3: Full space (4π)



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