

# DSR Series



## DSR215



## DSR115

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### *Advanced DSP and Power Technology Deliver Stunning Sound*

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- DSR215: 1300-watt bi-amped full-range speaker system featuring custom-designed transducers: dual 15" cone drivers and one 2" titanium-diaphragm compression driver.
- DSR115: 1300-watt bi-amped full-range speaker system featuring custom-designed transducers: one 15" cone driver and one 2" titanium-diaphragm compression driver.
- HF compression driver couples to a 90° x 60° long-throw broad-dispersion constant-directivity waveguide horn.
- Advanced digital sound processing provides Yamaha's proprietary FIR-X tuning™ technology for the smoothest possible crossover transitions, plus D-CONTOUR (Dynamic-CONTOUR) multi-band dynamic processing that achieves consistently outstanding balance and clarity at any output levels.
- Digital processing is handled by high performance DSP chips and discrete 24-bit ADCs and DACs (48-bit internal processing) for superior signal-to-noise ratio and dynamic range.
- Class-D amplification powered by an exceptionally clean PFC switching power supply delivers class-leading power and reproduction accuracy with high efficiency.
- High degree of DSP-controlled protection functions over the power supply, power amplifiers and transducers ensures fail-safe operation.
- Locking IEC power cables prevent accidental disconnection.
- Heavy-duty 16-gauge powder-coated steel grilles for extended durability.
- Rugged LINE-X® exterior coating.
- DSR115 includes a 35mm pole socket for stand or pole mounting and integrated M10 rigging points for suspended applications with standard eyebolts.

## DSR215

### SYSTEM

Type	Dual 15" 2-way, Bi-amp Powered Speaker, Bass-reflex Type	
Transducer	LF	2 x 15" cone (2.5" voice coil, Ferrite Magnet)
	HF	2" Titanium diaphragm compression driver (2" voice coil, Neodymium Magnet)
Frequency range (-10dB)	45Hz ~ 20kHz	
Frequency response (-3dB)	55Hz ~ 18kHz	
Coverage angle	H90° x V60°	
Crossover type	FIR-X tuning (linear phase FIR filter)	
Crossover frequency	1.7kHz	
Max. SPL (peak)	IEC noise @ 1m	138dB SPL

### AMPLIFIER

Amplifier type	Class-D	
Power rating	1300W (LF:850W, HF:450W)	
Cooling	Natural Convection	
Controls	LEVEL control, LINE/MIC switch, HPF switch, D-CONTOUR switch, FRONT LED DISABLE switch, POWER switch	
HPF frequency	120Hz (-6dB) 24dB/oct	
Boost type	D-CONTOUR (Dynamic CONTOUR)	
Protection	Load	POWER switch on/off, DC-fault, Integral Power Protection, Clip limiting
	Amplifier	Thermal, Output through current
	Power supply	Thermal, Over voltage
Connectors	Input	XLR-3-31 x 1 (Balanced), TRS Phone Jack x1 (Balanced)
	Output	XLR-3-32 x 1 (Balanced), Parallel connection with INPUT
Power Consumption	1/8Power	140W

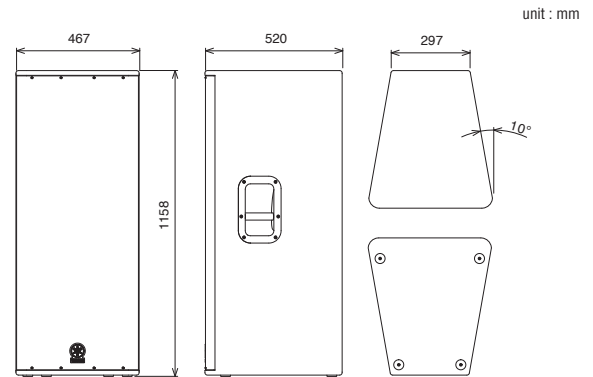
### ENCLOSURE

Dimension (W x H x D)	467x1158x520mm (18 3/8"x45 5/8"x20 4/8")	
Weight	49.8kg (110lbs)	
Externals finish, color	LINE-X <sup>®</sup> , Black	
Grille	16 gauge matte black powder coated perforated steel grille	
Metal Handle	2pcs (Side Board)	
Pole socket	Diameter	-
Flying hardware	-	

### INPUT SPECIFICATIONS

Input	LEVEL position: maximum	0dBu (MIC/LINE switch:LINE), -25dBu (MIC/LINE switch:MIC)
Sensitivity	LEVEL position: center (12 0'clock)	+7dBu
Maximum Input Level		+24dBu (MIC/LINE switch:LINE), -11dBu (MIC/LINE switch:MIC)
Input Impedance		12k $\Omega$ (MIC/LINE switch:LINE), 8k $\Omega$ (MIC/LINE switch:MIC)

### DIMENSIONS



## DSR115

### SYSTEM

Type	15" 2-way, Bi-amp Powered Speaker, Bass-reflex Type	
Transducer	LF	15" cone (3" voice coil, Neodymium Magnet)
	HF	2" Titanium diaphragm compression driver (2" voice coil, Neodymium Magnet)
Frequency range (-10dB)	45Hz ~ 20kHz	
Frequency response (-3dB)	55Hz ~ 18kHz	
Coverage angle	H90° x V60°	
Crossover type	FIR-X tuning (linear phase FIR filter)	
Crossover frequency	1.7kHz	
Max. SPL (peak)	IEC noise @ 1m	136dB SPL

### AMPLIFIER

Amplifier type	Class-D	
Power rating	1300W (LF:850W, HF:450W)	
Cooling	Natural Convection	
Controls	LEVEL control, LINE/MIC switch, HPF switch, D-CONTOUR switch, FRONT LED DISABLE switch, POWER switch	
HPF frequency	120Hz (-6dB) 24dB/oct	
Boost type	D-CONTOUR (Dynamic CONTOUR)	
Protection	Load	POWER switch on/off, DC-fault, Integral Power Protection, Clip limiting
	Amplifier	Thermal, Output through current
	Power supply	Thermal, Over voltage
Connectors	Input	XLR-3-31 x 1 (Balanced), TRS Phone Jack x1 (Balanced)
	Output	XLR-3-32 x 1 (Balanced), Parallel connection with INPUT
Power Consumption	1/8Power	100W

### ENCLOSURE

Dimension (W x H x D)	442x755x423mm (17 4/8"x29 6/8"x16 4/8")	
Weight	28.0kg (62lbs)	
Externals finish, color	LINE-X <sup>®</sup> , Black	
Grille	16 gauge matte black powder coated perforated steel grille	
Metal Handle	2pcs (Side Board)	
Pole socket	Diameter	35mm (Bottom Board)
Flying hardware	3 x M10 (TOP L/R 1pc each, Bottom rear 1pc)	

### INPUT SPECIFICATIONS

Input	LEVEL position: maximum	0dBu (MIC/LINE switch:LINE), -25dBu (MIC/LINE switch:MIC)
Sensitivity	LEVEL position: center (12 0'clock)	+7dBu
Maximum Input Level		+24dBu (MIC/LINE switch:LINE), -11dBu (MIC/LINE switch:MIC)
Input Impedance		12k $\Omega$ (MIC/LINE switch:LINE), 8k $\Omega$ (MIC/LINE switch:MIC)

### DIMENSIONS

