

Overview

The Ri8-D Input rack employs Dante network audio protocol for exceptional flexibility and freedom in setup and placement, while delivering natural, musical sound that brings out the full sonic potential of mixing consoles and other system components.



Rear Panel

Features

- 1U size, 8 inputs.
- Dante network protocol contributes to greater system scalability and flexibility
- Support for CL/QL series consoles as well as other Dante based systems
- Automatic digital-stage compensation for analog gain changes (CL/QL series only)
- Four models (Rio3224-D, Rio1608-D, Ri8-D and Ro8-D) flexibly accommodate any system requirements.

Specifications

General Specifications

Sampling Frequency	External	44.1kHz +4.1667%, +0.1%, -0.1%, -4.0%	±200ppm
		48kHz +4.1667%, +0.1%, -0.1%, -4.0%	±200ppm
		88.2kHz +4.1667%, +0.1%, -0.1%, -4.0%	±200ppm
		96kHz +4.1667%, +0.1%, -0.1%, -4.0%	±200ppm
Signal Delay	Less than 3ms INPUT to OUTPUT*1, connect with CL5 using Dante, Dante Receive Latency set to 0.25ms (one way), Fs= 48kHz		
Frequency Response	+0.5, -1.5dB 20Hz-20kHz, refer to +4dBu output @1kHz, INPUT to OUTPUT*1, Fs= 44.1kHz, 48kHz +0.5, -1.5dB 20Hz-40kHz, refer to +4dBu output @1kHz, INPUT to OUTPUT*1, Fs= 88.2kHz, 96kHz		
Total Harmonic Distortion*2	Less than 0.05% 20Hz-20kHz@+4dBu into 600Ω, Fs= 44.1kHz, 48kHz Less than 0.05% 20Hz-40kHz@+4dBu into 600Ω, Fs= 88.2kHz, 96kHz INPUT to OUTPUT*1, Input Gain= Min.		
Hum&Noise*3	-128dBu typ., Equivalent Input Noise, Input Gain= Max. -88dBu Residual output noise, ST master off.		
Dynamic Range	112dB typ., DA Converter, 108dB typ., INPUT to OUTPUT*1, Input Gain= Min.		
Crosstalk@1kHz	-100dB*4, adjacent INPUT/OUTPUT channels, Input Gain= Min.		
Dimensions (W x H x D)	480mm x 44mm x 362mm (18.9" x 1.7" x 14.3")		
Net Weight	4.5kg (9.9lbs)		
Power Requirements (wattage)	35W		
Power Requirements (voltage and hertz)	US/Canada: 120V 60Hz Japan: 100V 50/60Hz China: 110-240V 50/60Hz Korea: 220V 60Hz Other: 110-240V 50/60Hz		
Temperature Range	Operating temperature range: 0 - 40°C Storage temperature range: -20 - 60°C		
Included Accessories	Owner's Manual, Power Cord		

*1 INPUT to OUTPUT means Ri8-D INPUT to Ro8-D OUTPUT

*2 Total Harmonic Distortion is measured with 18dB/octave filter @80kHz

*3 Hum & Noise are measured with A-Weight filter.

*4 Crosstalk is measured with a 30dB/octave filter @22kHz

Analog Input Characteristics

Input Terminals	GAIN	Actual Load Impedance	For Use With Nominal	Input Level		Connector
				Nominal	Max. before clip	
INPUT 1-8	+66dB	7.5kΩ	50-600Ω Mics & 600Ω Lines	-62dBu (0.616mV)	-42dBu (6.16mV)	XLR-3-31 type (Balanced)*1
	-6dB			+10dBu (2.45V)	+30dBu (24.5V)	

*1 XLR-3-31 type connectors are balanced.(1=GND, 2=HOT, 3=COLD)

* In these specifications, 0dBu = 0.775 Vrms.

* All input AD converters are 24bit linear, 128times oversampling.

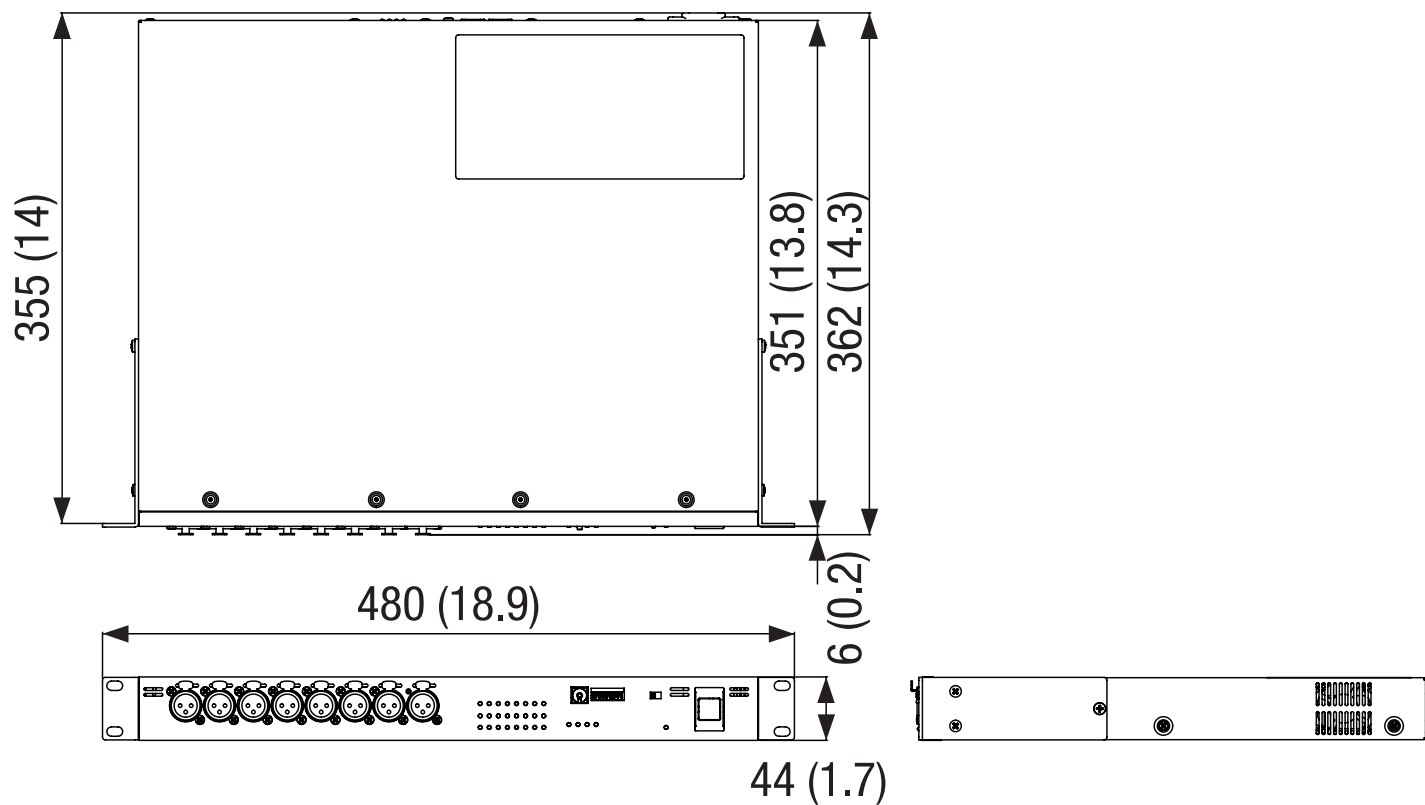
* +48V DC (phantom power) is supplied to INPUT XLR type connectors via each individual software controlled switch.

Digital I/O Characteristics

Terminals	Format	Data length	Level	Audio	Connector
Primary/Secondary	Dante	24bit or 32bit	1000Base-T	8ch	RJ45

Dimensions

Unit: mm (inch)



Software

- R Remote

Architectural and Engineering Specifications

The Yamaha Ri8-D shall be a 1U-size input rack with 8 analog inputs. It shall have built-in Dante digital audio networking capability and allow flexible, easy system setup. Remote head amp control of up to 8 I/O rack units from Yamaha CL or QL series digital mixing consoles shall be possible per system (Ro8-D not included). A Gain Compensation function that allows the I/O rack head amplifiers to be shared by an FOH console and monitor console on the same network shall be included. An "R Remote" software application shall be provided to allow remote control of R series I/O rack head amplifiers from a computer. Dimensions shall be 480 (W) x 44 (H) x 362 (D) mm. Weight shall be 4.5 kg.

*All information subject to change without notice.

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