

LS9

Digital Mixing Consoles



LS9-16

LS9-16
12U

LS9-16 Rear Panel



LS9-32

LS9-32

LS9-32
Rear Panel



GENERAL SPECIFICATIONS

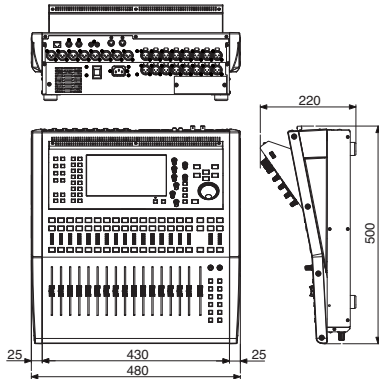
Internal processing	32bit (Accumulator=58bit)
Number of scene memories	300
Sampling frequency rate	Internal: 44.1kHz,48kHz External: 44.1kHz (-10%) to 48kHz (+6%)
Signal Delay	Less than 2.5ms INPUT to OMNI OUT (@fs=48kHz)
Total harmonic distortion *1 CH INPUT to OMNI OUT Input Gain=Min.	Less than 0.05% 20Hz to 20kHz @+4dBu into 600Ω
Frequency response CH INPUT to OMNI OUT	20Hz - 20kHz, 0, +0.5,-1.5dB @+4dBu into 600Ω
Dynamic range (maximum level to noise level)	110dB, DA Converter (OMNI OUT) 108dB, AD+DA (OMNI OUT)
Hum & noise level *2	-128dB, Equivalent input noise (20-20kHz, Rs=150Ω, Input Gain=Max) -84dB, Residual noise
Crosstalk (@1kHz) Input GAIN=min	-80dB, Adjacent input channels -80dB, Input to output
Power requirements	110V-240V, 50/60Hz
Power consumption	LS9-32: 170W, LS9-16: 95W
Dimensions (W x H x D)	LS9-32: 884 x 220 x 500mm (34.8" x 8.6" x 19.6") LS9-16: 480 x 220 x 500mm (18.9" x 8.6" x 19.6")
Weight	LS9-32: 19.4kg (42lbs) LS9-16: 12.0kg (26lbs)

*1. Total harmonic distortion is measured with a 6dB/oct filter @80Hz

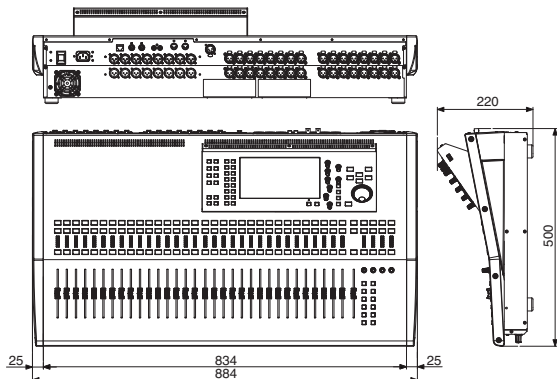
*2. Hum & noise are measured with 6dB/oct filter @12.7kHz; equivalent to a 20kHz filter with infinite dB/oct attenuation.

DIMENSIONS

unit : mm



LS9-16



LS9-32

ANALOG INPUT SPECIFICATIONS

Input terminal	GAIN	Actual load impedance	For use with nominal	Input level			Connector
				Sensitivity	Nominal	Max. before clip	
INPUT 1-n *	-62dB	3kΩ	50-600Ω Mics & 600Ω Lines	-82dBu	-62dBu	-42dBu	XLR3-31 type *
	+10dB			-10dBu	+10dBu	+30dBu	

* LS9-32: n=32, LS9-16: n=16

ANALOG OUTPUT SPECIFICATIONS

Output terminals	Actual source impedance	For use with nominal	GAIN SW	Output terminals		Connectors
				Nominal	Max. before clip	
OMNI OUT 1-n *1	75Ω	600Ω Lines	+24dB *2	+4dBu	+24dBu	XLR-3-32 type
			+18dB	-2dBu	+18dBu	
PHONES	15Ω	8Ω Phones	—	75mW	150mW	ST Phone jack
		40Ω Phones	—	65mW	150mW	

*1. LS9-32: n=16, LS9-16: n=8

*2. Default

0dB=0.775Vrms; 0dBV=1.00Vrms

DIGITAL INPUT SPECIFICATIONS

Terminal	Format	Data length	Level	Connector	
2TR IN DIGITAL	COAXIAL	IEC60958	24bit	0.5Vpp/ 75Ω	RCA pin jack

DIGITAL OUTPUT SPECIFICATIONS

Terminal	Format	Data length	Level	Connector	
2TR OUT DIGITAL	COAXIAL	IEC60958 (Consumer Use)	24bit	0.5Vpp/ 75Ω	RCA pin jack

CONTROL I/O SPECIFICATIONS

Terminal	Format	Level	Connector	
MIDI	IN	MIDI	—	DIN Connector 5P
	OUT	MIDI	—	DIN Connector 5P
WORD CLOCK	IN	—	TTL/75Ω terminated	BNC Connector
	OUT	—	TTL/75Ω	BNC Connector
NETWORK (Ethernet)	100Base-T	100Base-T	RJ-45	
USB	USB 1.1 Host	USB *1	USB A Connector (Female)	
LAMP (LS9-32 only)	—	0V-12V	XLR-4-31 type *2	

*1. Bus-powered hubs are not supported.

*2. 4pin=+12V, 3pin=GND, Supported lamp: max. 5W

