

Digital Mixing Console



LS9-32 Rear Panel



4 L69-32 4 L69-32 4 L69-32 5 100-240V 5 100-940V 5 100-940V 5 100-940V <u>کر</u> ۲۰۰ ۲۰۰۰ ۲۰۰

SLOT

LS9-16



LS9-16 Rear Panel

Lightweight, compact, all-in-one digital mixers with advanced features and outstanding sound quality.

- 32 or 16 mono mic/line input channels plus 4 stereo input channels, expandable up to 64 or 32 channels in two layers.
- 16 mix buses, 8 matrix buses, plus stereo and mono buses with LCR mode.
- Top-performance analog mic/line preamplifiers.
- Compact and light enough for one person to move and set up easily.
- Yamaha Selected Channel interface allows smooth, intuitive access to detailed channel functions via a color LCD display and logically arranged encoders.
- Extensive gating, compression, and equalization facilities.
- Built-in USB memory recorder/player for recording or BGM playback.
- Virtual Rack packed with effects and EQ for just about any processing requirements.
- Scene memory for instant store and recall of all console parameters, including head amp gain.
- Advanced access management includes user keys (standard USB memory devices) that can be issued with different access levels for different users.
- LS9 Editor Software for enhanced operability and programmability.

OPTIONS



LA1L Gooseneck Lamp

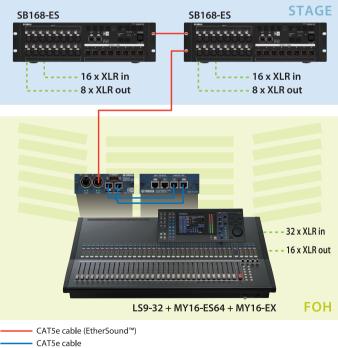


SYSTEM EXAMPLE

Small / Medium Scale Live Sound System with LS9-32

This example depicts a live sound system built around an LS9-32 console. This system offers 32 inputs/16 outputs on stage, with additional 32 inputs/16 outputs available at the FOH position.

The two stage boxes and the LS9-32 are daisy-chained using CAT5e cables. SB168-ES dedicated Quick Setup feature within the AVS-ESMonitor software allows quick and easy configuration of your setup. You can use the SB168-ES head amp remote function from the LS9-32 to control microphone gain.



---- Analog

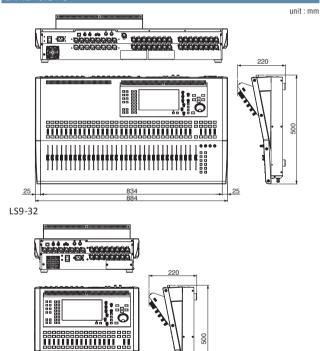
LS9

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 2.5 ms CH 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 600 Ω			
Frequency response CH INPUT to OMNI OUT	+0.5, -1.5dB 20Hz to 20kHz @+4dBu into 600Ω			
Dynamic range	110dB typ, DA Converter (OMNI OUT)			
(maximum level to noise level)	108dB typ, AD+DA (to OMNI OUT)			
Hum & noise level*2	-128dBu Equivalent Input Noise			
	(20Hz to 20kHz, Rs=150Ω, Input Gain=Max)			
-	-84dBu residual output noise			
Crosstalk (@1kHz)	-100dB*3, -80dB, Adjacent Input Channels			
Input Gain=Min.	-100dB*3, -80dB, Input to Output			
Phantom Power	+48V			
Power requirements	AC110V-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" x19.6")			
Weight	LS9-32: 19.4kg (42lbs)			
-	LS9-16: 12.0kg (26lbs)			

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz. *2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation. *3 Crosstalk is measured with a 30 dB/octave filter @22kHz.

DIMENSIONS



ANALOG INPUT SPECIFICATIONS

		Actual	For use with	Input level			
Input terminal	GAIN	source impedance	nominal	Sensitivity	Nominal	Max. before clip	Connector
INPUT 1-n *1	-62dB	11-0	50-600Ω Mics & 600Ω Lines	-82dBu	-62dBu	-42dBu	XLR3-31 type*
	+10dB	3kΩ		-10dBu	+10dBu	+30dBu	

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

ANALOG OUTPUT SPECIFICATIONS

	Actual source impedance	For use with nominal	GAIN SW	Output terminals		
Output terminal				Nominal	Max. before clip	Connector
	750	600Q Lines	+24dB	+4dBu	+24dBu	VI D2 20 turest
OMNI OUT 1-n *1	75Ω	600Ω Lines	+18dB	-2dBu	+18dBu	XLR3-32 type*
DUONEC	15Ω	8Ω Phones	_	75mW	150mW	ST Phone Jack**
PHONES		40Ω Phones	_	65mW	150mW	

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

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

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

CONTROL I/O SPECIFICATIONS

Terminal		Format	Level	Connector
NETWORK (Ethern	IETWORK (Ethernet)		100Base-T	RJ-45
MIDI	IN		_	DIN Connector 5P
MIDI		MIDI	_	DIN Connector 5P
	IN	_	$TTL/75\Omega$ terminated	BNC Connector
WORD CLOCK	OUT	_	TTL/75Ω	BNC Connector
USB HOST		USB1.1	_	A type USB Connector (female)
LAMP (LS9-32 only)		_	0-12V	XLR4-31 Type

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430 480

