

SB168-ES

Stage Box

SB168-ES

Ether
ES
Sound

3U



Rear Panel

Versatile 16-in/8-out EtherSound stage box for various Yamaha digital mixers.

- An affordable 3U-size stage box that utilizes reliable, low-latency EtherSound technology for digital audio signal transmission.
- 16 channels of sonically superb remote analog input — each with its own mic/line head amp — plus 8 channels of analog output.
- Audio can be transferred over distances up to 100 meters via standard CAT5e Ethernet cables (maximum distance may depend on cable performance).
- The SB168-ES can be used as a general-purpose analog-EtherSound I/O box.
- Handles uncompressed 24-bit audio at 44.1 kHz and 48 kHz sampling rates.
- Internal head amplifier gain and +48V phantom power switching can be remotely controlled from a compatible digital mixing console or from the AuviTran™ AVS-ESMonitor software.
- Up to four SB168-ES units can be linked to provide a total of 64 inputs and 32 outputs (maximum number may depend on the mixing console used).
- An ideal choice for use with popular digital consoles such as the Yamaha PM5D, LS9, or M7CL.
- Compared to conventional analog console + analog multi-core systems the SB168-ES provides exceptionally high noise resistance and makes it possible to keep microphone cables short for optimum signal quality.
- Easy set-up reduces the time, effort, and cost of installation.

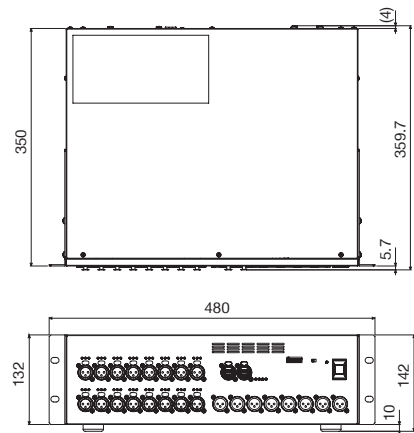
GENERAL SPECIFICATIONS

Sampling Frequency	Internal: 48kHz External: 48kHz (+50ppm)
Total harmonic distortion ^{*1}	Less than 0.1%, 20Hz to 20kHz @+4dBu into 600 Ω, Gain = -62dB Less than 0.05%, 20Hz to 20kHz @+4dBu into 600 Ω, Gain = +10dB
Frequency response	20Hz - 20kHz, +0.5, -1.5dB, @+4dBu into 600 Ω
Dynamic range	108dB typ. Gain = +10dB
Hum & noise level ^{*2} (20Hz to 20kHz), Rs=150Ω	-80dBfs, Gain = -62dB -110dBfs, Gain = +10dB
Crosstalk (@1kHz)	-100dB ^{*3} , -80dB input to output
Mic inputs	16 (Remote HA)
Input channel functions	HPF, +48V DC
Output ports	8
Digital I/O	EtherSound IN/OUT
Maximum number of simultaneous use	4 units
Phantom voltage	+48V
Power requirements	Japan: AC100V, 50/60Hz, 65W North America: AC120V, 60Hz, 65W Other Areas: AC230V, 50Hz, 65W
Dimensions (W x H x D)	480 x 132 x 359.7mm (18.9" x 5.19" x 14.16"), 3U
Weight	8kg (17 lbs.)

*1. Total Harmonic Distortion are measured with a 6dB/octave filter @80kHz
 *2. Hum&Noise are measured with 6dB/octave filter @12.7kHz;equivalent to a 20kHz filter with infinite dB/octave attenuation.
 *3. Crosstalk is measured with a 30 dB/octave filter @22 kHz

DIMENSIONS

unit : mm



ANALOG INPUT SPECIFICATIONS

Input Terminals	GAIN	Actual Load Impedance	For Use with Nominal	Input Level		Connector
				Nominal	Max. before clip	
INPUT 1-16	-62dB	3kΩ	50-600Ω Mic & 600 Ω Line	-62dBu (0.616mV)	-42dBu (6.16mV)	XLR-3-31 type*
	+10dB			+10dBu (2.45V)	+30dBu (24.5V)	

ANALOG OUTPUT SPECIFICATIONS

Output Terminals	Actual Load Impedance	For Use with Nominal	Max. Output Level (Selectable)	Output Level		Connector
				Nominal	Max. before clip	
OUTPUT 1-8	75Ω	600Ω Line	+24dB (default)	+4dBu (1.23V)	+24dBu (12.3V)	XLR-3-32 type*
			+18dB	-2dBu (616mV)	+18dBu (6.16V)	

DIGITAL I/O SPECIFICATIONS

Terminal	Format	Data Length	Level	Connector
IN	EtherSound	24bit	100BASE-TX	EtherCON
OUT				

DIGITAL I/O SPECIFICATIONS

Terminal	Format	Level	Connector
NETWORK	IEE802.3	10BASE-T / 100BASE-TX	RJ-45