

Overview

The SP2060 offers top-quality speaker processing for a wide range of applications, with AES/EBU digital inputs and outputs, 2 analog inputs, and 6 analog outputs.



Rear Panel

Features

- All of the functionality required for most speaker processing applications in a compact 1U unit.
- An impressive array of built-in functions: gain, delay, PEQ, comp, crossover, and limiter.
- All-Pass Filter precisely controls phase without affecting gain.
- Two analog inputs, six analog outputs, and two AES/EBU digital inputs.
- Original audio processing LSI provides full 24-bit, 96-kHz processing capability for outstanding sound quality with a dynamic range in excess of 110 dB.
- Detailed programming can be accomplished using the DME Designer application software running on a personal computer.
- Ethernet port and comprehensive panel interface.
- Optimized for Yamaha Installation Series Speakers.

Specifications

General Specifications

I/O	Line Inputs	2
	AD Converter	24-bit; 64-time over sampling
	Line Outputs	6
	DA Converter	24bit; 64-time (@96kHz) / 128-time (@48kHz) over sampling
	Digital I/O	1x AES/EBU (2-in/2-out)
Memory Bank		99 (PRESET: 12, USER: 87)
Internal Processing		32bit
Sampling Frequency Rate	Internal	96kHz
	External	Normal rate: 44.1kHz, 48kHz (±0.1%) Double rate: 88.2kHz, 96kHz (±0.1%)
Signal Delay		Less than 761 micro sec
Total Harmonic Distortion		Less than 0.05% (20Hz-40kHz)
Frequency Response		0, +0.5, -1.0dB 20Hz-40kHz
Dynamic Range		DA: 110dB; AD+DA: 106dB
Hum & Noise Level	Residual Output Noise	-86dBu (Digital input), -82dBu (Analog input)
	Crosstalk	-80 dB
Power Requirements		Depend on area of purchase; AC100V, 120V or 220-240V; 50/60Hz
Power Consumption		30W
Dimensions (W x H x D)		480mm x 44mm x 361mm (18.9" x 1.7" x 14.2")
Net Weight		9.3kg (20.5lbs)
Accessories		Owner's manual, AC power cord, 4x Rubber foot

Analog Input and Output Characteristics

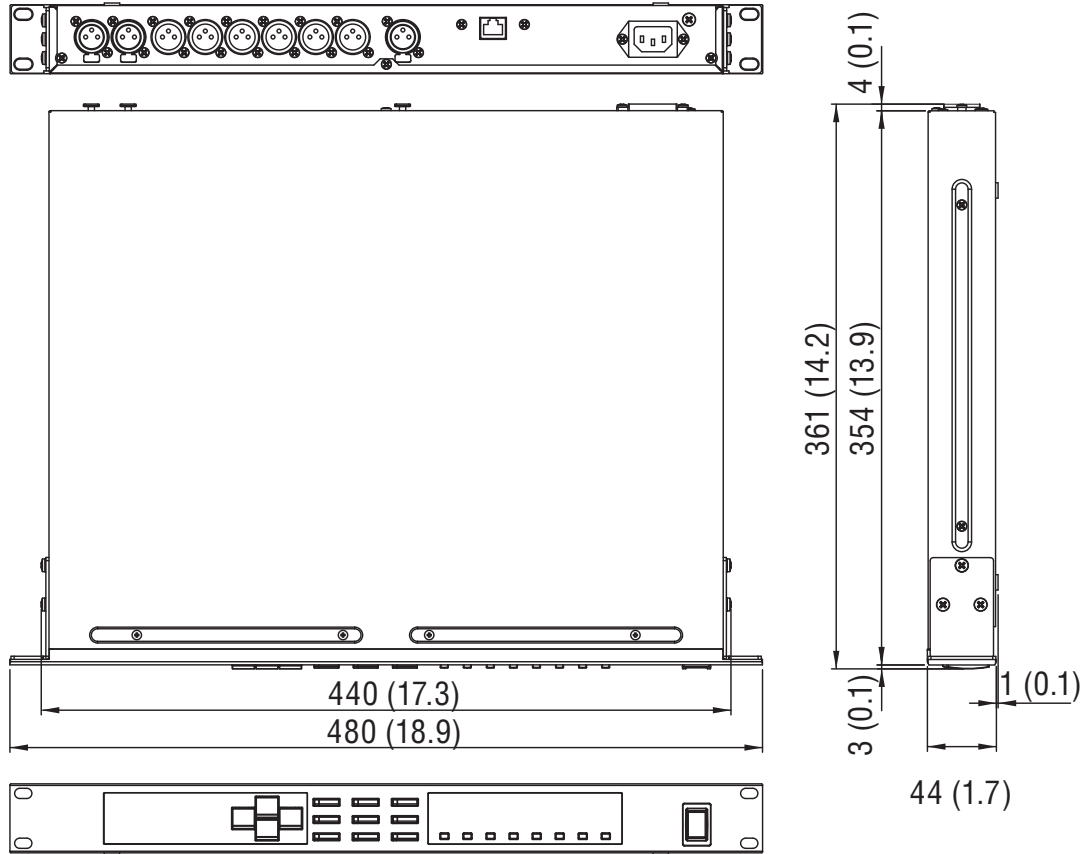
Terminal	Actual Load Impedance	For Use with Nominal	Level		Connector
			Nominal	Max. before Clip	
Input A, B	10k ohms	600ohm Lines	+4dBu	+24dBu	XLR-3-31 type (Balanced)
Output 1 - 6	75ohms	600ohms Lines	+4dBu	+24dBu	XLR-3-32 type (Balanced)

Digital Input Characteristics

Terminal	Format	Data length	Level	Connector
Digital Input AES/EBU	AES/EBU	24-bit	RS422	XLR-3-31 type (Balanced)

Dimensions

Unit: mm (inch)



Software

- DME Designer

Architectural and Engineering Specifications

The Yamaha SP2060 Speaker Processor shall provide two analog inputs on XLR3-31 connectors and six analog outputs on XLR3-32 connectors. All analog inputs and outputs shall have 24-bit, internal 96-kHz, external 44.1-kHz/48-kHz (normal rate) and 88.2/96-kHz (double rate) AD/DA converters and all internal processing shall be digital. The SP2060 shall provide a digital input via AES/EBU audio on an XLR3-31 connector. It shall have an Ethernet port to allow remote control. Software shall be provided for system configuration within each hardware unit. Available system configurations shall include 3x2way, 3x2way Link, 2x(2way+Sub), 2x(2way+Sub) Link, 2x2way+2xAux, 2x2way+2xAux Link, 2x3way, 2x3way Link, 4way+2xAux, 5way+Aux, 6way and Multi Zone. Ethernet communication shall be utilized for software control and configuration. Software shall be operated on a computer with a network card installed, running Windows XP or above [Windows Vista/7/8/8.1/10 are supported]. Dimensions shall be 480 (W) x 44 (H) x 361mm (D). Weight shall be 4.2 kg. The product shall conform to the latest EU RoHS hazardous substances and WEEE directives.

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