

## 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

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

### Analog Input and Output Characteristics

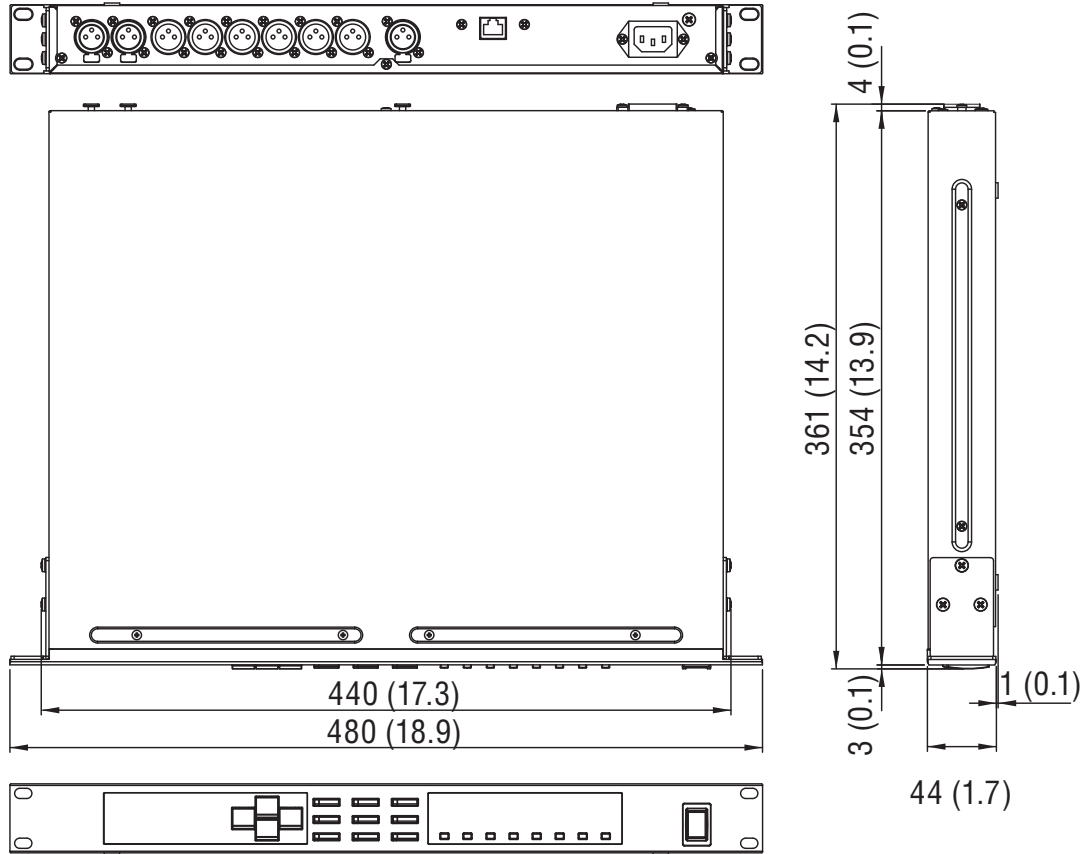
Terminal	Actual Load Impedance	For Use with Nominal	Level		Connector
			Nominal	Max. before Clip	
Input A, B	10k ohms	600ohm Lines	+4dBu	+24dBu	XLR-3-31 type (Balanced)
Output 1 - 6	75ohms	600ohms Lines	+4dBu	+24dBu	XLR-3-32 type (Balanced)

### 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

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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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