

SP260

Offering sophisticated EQ, crossover, dynamics processing and system protection, the Mackie SP260 2x6 Speaker Processor provides complete system optimization for both passive and powered systems.

Five different operating modes cover a wide range of systems. Each input and output is loaded with a huge range of processing including flexible EQ, crossover, delay and limiting solutions. It delivers everything you need to professionally optimize loudspeaker systems of nearly any size.

The SP260 utilizes high-end 24-bit AKM® AD/DA converters with 120 dB dynamic range for class-leading sound quality. With 24 user-definable presets and flexible I/O for simple routing and configuration, the SP260 is an ultra-flexible processor, ideal for a wide range of portable and permanent applications.



FEATURES:

- Professional 2-input, 6-output system processor for passive and powered PAs
- Sophisticated, intuitive EQ, crossover, delay and dynamics processing optimizes and protects your system
- High-end 24-bit AKM® AD/DA converters with 120 dB dynamic range
- Two balanced XLR inputs with level control, mute, 600ms delay and 5-band parametric / shelving EQ
- Six balanced XLR outputs with level control, mute, polarity invert, dedicated high and low pass filters, 7-band parametric / shelving EQ, 600ms delay, and limiting
- Powerful limiter on every output for ultimate protection
- Convenient front-panel controls for parameter editing and input/output muting
- USB port for simple programming via PC
- Linkable inputs and outputs for easy stereo configuration
- 7-segment LED metering for input / output level or limiter activity
- 5 operating modes: 2 x stereo + sub, 3 x stereo, 2 x 2-way + sub, 2 x 3-way and 1 x 6-way
- 24 presets for storing your Mackie or other system parameters
- Switchmode power supply: 100V – 240V
- Compact, single rack unit design
- Approximate shipping weight: 8.8 lb / 4.0 kg

SP260 PROCESSING PARAMETERS

Operating Modes and Presets

2xStereo+Sub:	Two full-range loudspeaker pairs and a pair of [mono by default] subwoofers
2x2Way+Sub:	Two bi-ampable full-range loudspeakers and a pair of [mono by default] subwoofers
2x3Way:	Two tri-ampable full-range loudspeakers
3xStereo:	Three full-range loudspeaker pairs
1x6Way:	Mono 6-way setup

Inputs

Gain:	±15 dB ±0.1 dB increments
Delay:	
Time (ms):	0.0000 - 600.9984 ms ±1.000 ms and ±0.0208 ms increments
Distance (m):	0.000 - 204.339 m ±~0.340 m and ±~0.007 m increments
Distance (feet):	0.000 - 670.233 feet ±~1.115 feet and ±~0.023 feet increments
EQ Bypass:	On or Off
5-band EQ:	
Frequency:	20 Hz - 20 kHz ~1/24 octave increments
Bandwidth:	0.05 - 3.0 ±0.05 increments
Gain:	±15 dB ±0.05 dB increments
High or low-shelving:	6 or 12 dB/octave

Outputs

Name:	User-editable
Source:	InA, InB, InA+InB
Polarity:	180° invert
Gain:	-12.0 dB to +6.0 dB ±0.1 dB increments
EQ Bypass:	On or Off

Outputs Continued...

7-band EQ:	
Frequency:	20 Hz - 20 kHz ~1/24 octave increments
Bandwidth:	0.05 - 3.0 ±0.05 increments
Gain:	±15 dB ±0.05 dB increments
High or low-shelving:	6 or 12 dB/octave
Delay:	
Time (ms):	0.0000 - 600.9984 ms ±1.000 ms and ±0.0208 ms increments
Distance (m):	0.000 - 204.339 m ±~0.340 m and ±~0.007 m increments
Distance (feet):	0.000 - 670.233 feet ±~1.115 feet and ±~0.023 feet increments
High- and Low-Pass Filters:	
Frequency:	20 Hz - 20 kHz
Filter / Slope:	No Cut-Off Butterworth 6 dB/octave Butterworth 12 dB/octave Linkwitz-Riley 12 dB/octave Bessel 12 dB/octave Butterworth 18 dB/octave Butterworth 24 dB/octave Linkwitz-Riley 24 dB/octave Bessel 24 dB/octave
Limiter:	
Attack:	5 - 200 ms [5 ms - 20 ms] ±1 ms increments [20 ms - 30 ms] ±5 ms increments [30 ms - 100 ms] ±10 ms increments [100 ms - 200 ms] ±20 ms increments
Release:	0.1 - 3.0 s ±0.1 s increments
Threshold:	-10 to +20 dBu ±0.2 dBu increments

SP260 SPECIFICATIONS

Analog Inputs

Connectors	Two Balanced XLRs
Max Input (Line Level):	+20 dBu
CMRR	>58 dB
Input Meter Range	Clip +15 dBu +9 dBu +3 dBu 0 dBu -10 dBu -20 dBu

Analog Outputs

Connectors	Six Balanced XLRs
Max Output Level	+21 dBu
Output Meter Range	Level Mode: Limit Mode: Limit Limit Clip 0 dBr +15 dBu -3 dBr +9 dBu -6 dBr +3 dBu -9 dBr 0 dBu -12 dBr -15 dBu -15 dBr

AD/DA

Converter Type	24-bit AKM®
Dynamic Range	120 dB
Sample Rate	48 kHz
Bit Depth	24-Bit

Frequency Response

20 Hz to 20 kHz	±0.2 dB
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Noise Characteristics

Dynamic Range	111 dB A-weighted 108 dB unweighted
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Distortion

20 Hz to 20 kHz	<0.004%
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Crosstalk

22 Hz to 22 kHz [unweighted]	
Interchannel Crosstalk +20 dBu @ 1 kHz	-107 dB
Crosstalk Input to Output +20 dBu @ 1 kHz	-107 dB

USB

USB port for programming via Windows-based computers (downloadable app and driver from www.mackie.com)	
Format	USB 1.1

AC Power Requirements

Power Consumption	40 watts
Universal AC Power Supply	100 - 240 VAC, 50 - 60 Hz
Power Connector	3 Pin IEC
Operating Temperature [extended ambient temperature]	0 - 40 °C 32 - 104 °F

Physical Properties (packaged product)

Height	3.6 in / 91 mm
Width	21.0 in / 533 mm
Depth	12.1 in / 307 mm
Weight	8.8 lb / 4.0 kg

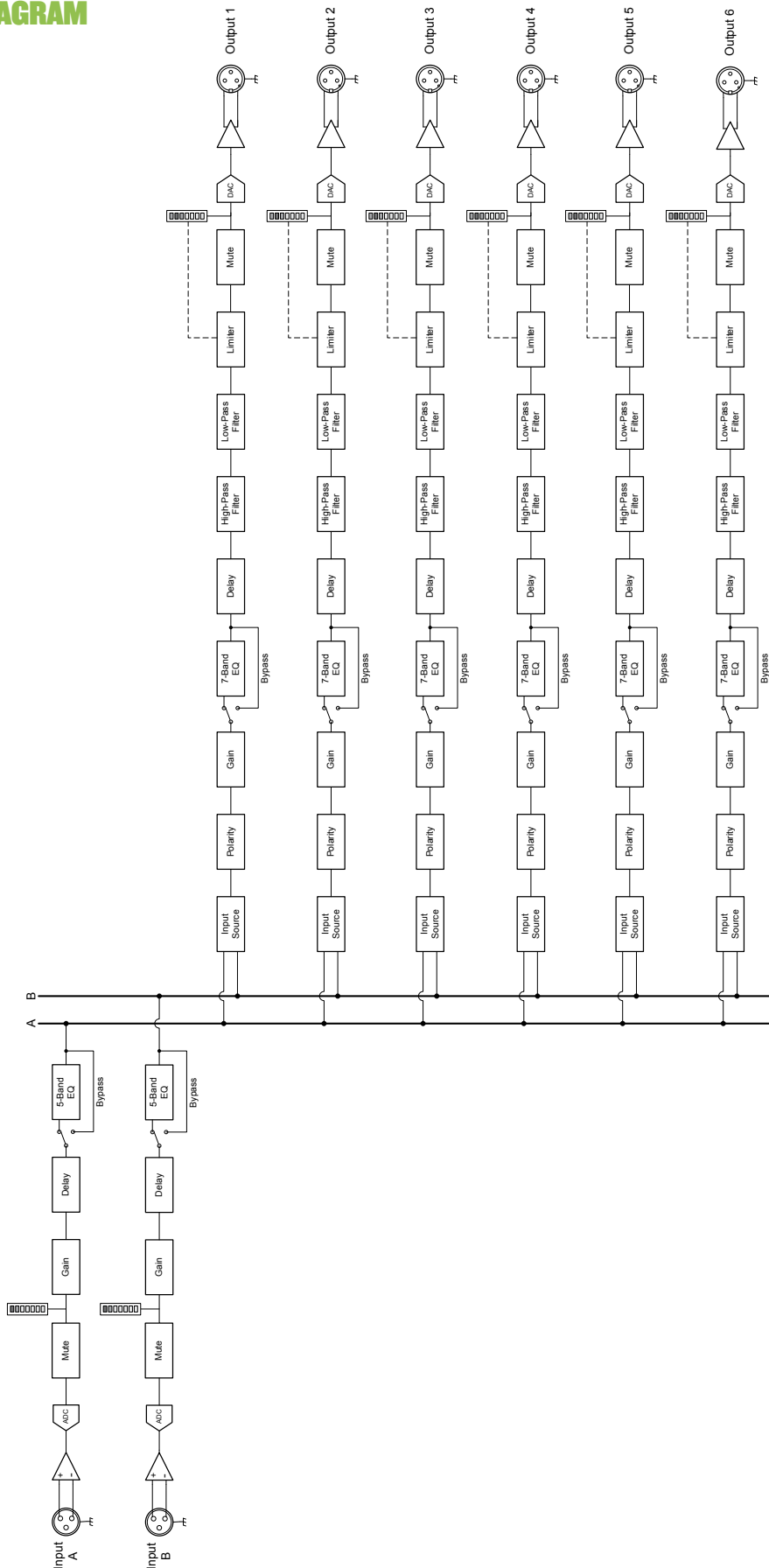
Physical Properties (product)

Display	2x24 character LCD with backlight
Height	1.8 in / 46 mm (1U rack mount design)
Width [front]	19.0 in / 483 mm
Width [rear]	17.3 in / 439 mm
Depth	9.0 in / 229 mm
Weight	5.8 lb / 2.6 kg

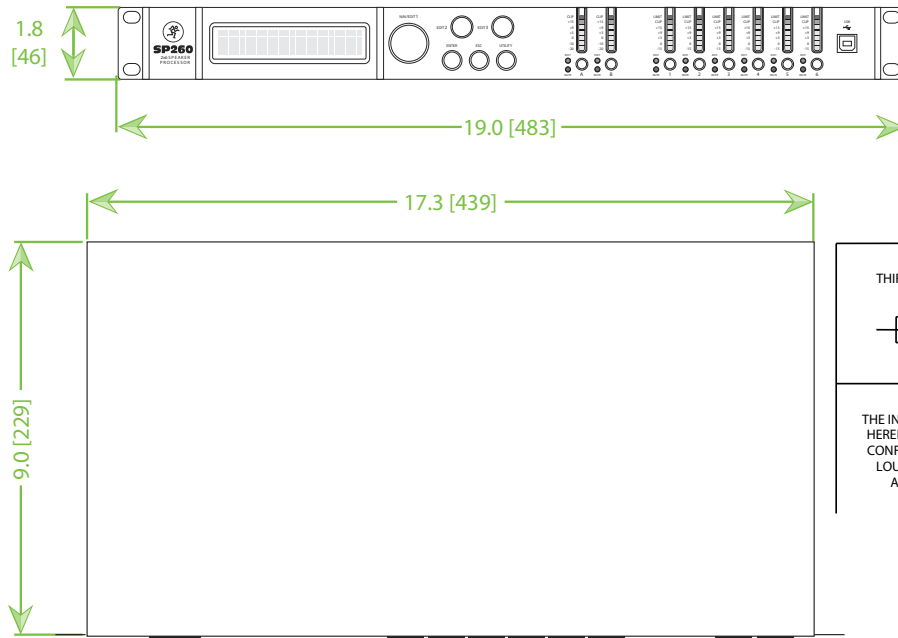
Ordering Information

SP260 2X6 Loudspeaker System Processor	P/N 2039291-00
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SP260 BLOCK DIAGRAM



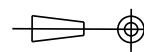
SP260 DIMENSIONS



SP260 NOTES:

1. WEIGHT APPROX. 5.8 lb [2.6 kg].
2. SHIPPING WEIGHT APPROX. 8.8 lb [4.0 kg].

THIRD ANGLE PROJECTION



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UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES
DUAL [MM] DIMENSIONS
FOR REF ONLY

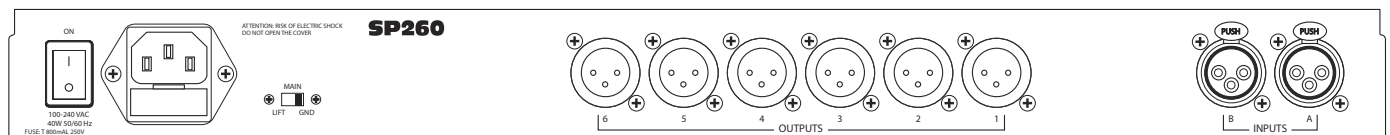
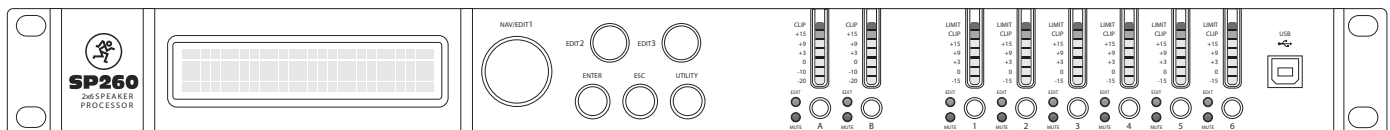
TOLERANCE IN INCHES
LINEAR ± 0.13 in / ± 3.3 mm
ANGLES $\pm 1^\circ$

(X.XX) = REF DIMS
NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER

DIMENSIONS ACROSS CENTERLINES
TO BE SYMMETRICAL

SP260 FRONT AND REAR PANELS



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Electronic files for this product are available at:

www.mackie.com

Specification Sheet

SP260_SS.PDF

Owner's Manual

SP260_OM.PDF



www.mackie.com

16220 Wood-Red Road NE

Woodinville, WA 98072 USA

800-898-3211, Fax 425-487-4337, sales@mackie.com

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