

JBL Synthesis SDP-55

Immersive Surround Sound Processor



SYNTHESIS®



JBL Synthesis – Your turnkey solution to the ultimate private cinema experience and beyond

JBL has a legacy of excellence in sound reproduction that goes back 75 years. The leading choice for music and movie industry professionals and connoisseurs alike, JBL loudspeakers and technology are featured in more than 50 percent of all movie theaters, and are used in concert venues worldwide.

The JBL Synthesis SDP-55 is designed to ensure exceptional performance without compromise. With best-in-class audio and video signal integrity, 16 channels of native processing, Dolby ATMOS®, DTS:X®, Auro 3D®, IMAX® Enhanced, Dirac Live®, Logic16™, Network Streaming, and Dante®, the JBL Synthesis® SDP-55 delivers a powerful, sensory-rich experience with unrivaled flexibility.

Control your favorite content over Ethernet or Wi-Fi with Chromecast® built in, Apple® AirPlay 2™, Roon® the Harman Luxury MusicLife app, play directly from a USB flash drive, or stream with Bluetooth.

An internal configuration page, integrated Dante, IP, IR, and RS232 control and a robust Zone 2 make the SDP-55 an outstanding choice for a broad range of applications.

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Features

Immersive High Resolution Sound

16 channels of discrete high resolution processing with 4 user configurable channels enable a plethora of set up options for Dolby Atmos, DTS:X and Auro 3D immersive surround sound applications.

Dante Network Audio

Bridge the gap between residential and commercial applications. All 16 channels of processed audio, plus Zone 2 can be routed on a single CAT5e or CAT6 cable over a standard network. Dante is easy to set up and compatible with Dante enabled JBL Synthesis amplifiers.

IMAX Enhanced

IMAX Enhanced certified AV receiver, featuring DTS:X immersive audio decoding that is optimized to properly reproduce the full dynamic range of IMAX theatrical sound mixes available in IMAX Enhanced content.

Network and Bluetooth Streaming

Control your favorite content over Ethernet or Wi-Fi, Chromecast built-in, Apple AirPlay 2, Roon, the Harman Luxury MusicLife app, play directly from a USB flash drive, or stream via Bluetooth with aptX HD.

Balanced XLR Outputs

A transformerless balanced output of 2V RMS (max. 10V RMS) ensures ample gain and common mode noise rejection.

Cinematic Video Experience

Dolby Vision, HDR10+, HDR10, HLG, HDMI, HDMI2.0b with HDCP2.2, 4K "Ultra HD" as well as 3D video capabilities are built in.

Designed for the Integrator

With an available rack mount kit, Dante, eARC and an internal configuration page, Dirac Live, IP, IR RS232 and iOS and Android App control the install, set up, and calibration has never been easier.

Logic 16

Logic 16 will up-mix any input source from mono up to 15.1, including all Dolby formats with natural astonishing 3D sound. In addition, Dolby, DTS Neural:X, and Auro 3D upmixers are on board.

Specifications

Stereo line inputs

- ▶ Maximum input: 4.5Vrms
- ▶ Nominal sensitivity: 1V, 2V, 4V (user adjustable)
- ▶ Input impedance: 47k Ω
- ▶ Signal/noise ratio (A-wtd ref 100W) normal/ stereo direct: 100dB/110dB
- ▶ Frequency response: 20Hz–20kHz \pm 0.1dB

Preamplifier outputs

- ▶ Nominal output level (single-ended/balanced): 1V RMS/2V RMS (max. 5V RMS/10V RMS)
- ▶ Output impedance: 560 Ω
- ▶ THD+N (20Hz–20kHz): -100dB

Headphone output

- ▶ Maximum output level into 32 Ω : 5Vrms
- ▶ Output impedance: 560 Ω :<100 Ω

General

- ▶ Mains voltage: 110–120V or 220–240V, 50–60Hz
- ▶ Power consumption (maximum): 50W (Thermal dissipation approx. 170 BTU/hour)
- ▶ Power consumption (idle, typical): 40W (Thermal dissipation approx. 170 BTU/hour)
- ▶ Power consumption (standby): <0.5W
- ▶ Dimensions: W x D (including speaker terminals) x H (including feet): 17 x 16.7 x 6.7" (433 x 425 x 171mm)
- ▶ Weight (net): 23.4lbs
- ▶ Weight (packed): 30.6lbs