JBL SYNTHESIS®

SDP-75 3D Surround Processor

VC

MUTE

STANDBY

12.9 dB

LEVEL & DELAY: OFF ✕ –

Ext
48 k
Neural:X

HDMI 2

PCM

HDMI 1   HDMI 2   HDMI 3   HDMI 4

INP

SDP-75 Surround Processor

DOLBY ATMOS®

AURO 3D AUDIO®   dts X™

JBL SYNTHESIS®
by HARMAN

ULTIMATE PERFORMANCE, DEFINED

The JBL Synthesis® SDP-75

Powered by unrivalled processing capabilities and exclusive technologies, the SDP-75 opens the way to a whole new generation of luxury home cinema, —achieving ultimate performance and sustainability within the fast moving home theater entertainment industry, now driven by 3D Audio and 4K Ultra High Definition video.

The SDP-75 is available in both 16 and 32 output channel versions. It also supports the latest HD Audio and Video formats while offering 3D audio decoding options and delivering up to 32 discrete channels of immersive audio content at an unprecedented level of quality, for a whole new listening experience, leaving the competition far behind.

From the revolutionary hardware platform to the software environment, everything has been specified with no compromise to provide a unique user experience unmatched by any other product available.

REVOLUTIONARY HARDWARE PLATFORM

At the heart of this new generation of processor is a new approach to Digital Signal Processing, based on a revolutionary hardware architecture that is highly scalable and easy to upgrade.

Instead of using a traditional DSP chip-based platform in a complex and rigid architecture, the SDP-75 platform is based on a multi-purpose quad-core Linux computing processor without any sample rate converters resulting in unrivaled processing capabilities.

Used every day in demanding professional environments, this architecture meets the highest requirements in terms of reliability. Despite its extreme sophistication, the SDP-75 is easy to operate thanks to a unique user-friendly and self-explanatory web-based user interface.

PARTNERSHIP FOR SUCCESS

A partnership between JBL Synthesis and Trinnov in the development of the SDP-75 processor has laid the stage for the success of the SDP-75.

With over 60+ years of audio experience JBL has become the choice of almost all top music and movie professionals in the industry. This experience has allowed JBL to release some of the most influential products being used today.

Trinnov Audio brings years of experience building top of the line processors for numerous consumer and commercial applications. Their team of passionate audio engineers and professionals helps bring to life innovative solutions that are always improving the quality of sound.
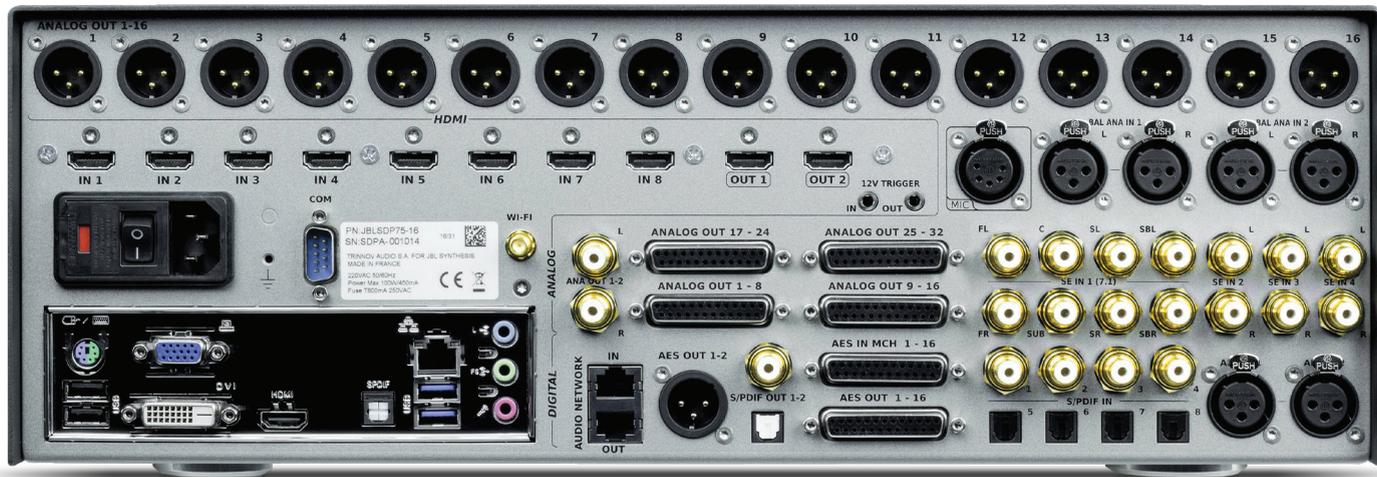
MAIN FEATURES

- Up to 32-channels of Digital Audio Processing
- Native support for all major 3D audio formats including Dolby Atmos, DTS:X, and Auro-3D
- Superior multi-subwoofer management and active crossovers calibration
- Configurable for up to 118 digital and analog inputs and up to 80 audio outputs
- 8x HDMI Inputs, 2x HDMI Outputs
- Built-in Wi-Fi & UPnP/DLNA Compliant Digital Media Renderer
- Wide choice of Remote Options

HIGHLIGHTS

AUDIO FORMATS

- HDMI 1.4b compliant digital audio with 4K and 3D video pass-through (HDCP 2.2 : HDMI input 1, HDMI output 2) (HDMI 2.0 upgrade supported)
- HD Audio Codecs: Dolby TrueHD, DTS-HD Master Audio
- 3D Audio Codecs: Auro-3D, Dolby Atmos and DTS:X, including their respectives upmixers
- LPCM Audio: 16-channels AES input compatible with Digital Cinema Servers
- UPnP/DLNA renderer: WAV, AIFF, OGG, FLAC up to 24 bits/192kHz

EXCLUSIVE TECHNOLOGIES

- High performance AD/DA converters, used daily by the most demanding mastering studios
- Next Generation Hardware platform
- Revolutionary architecture, scalable processing platform;
- 64-bit Floating point & 24-bit/192kHz native processing;
- Software-oriented upgrades provided over Internet, no need for DSP upgrade
- Robust design, inspired from Professional Audio product lines

SDEC DIGITAL EQUALIZERS

- SDEC-5500 (sold separately) supports up to 16 input channels with BLU Link digital bus output capability over standard CAT5e Ethernet cables
- SDEC Equalizers feature 500 bands of parametric EQ running at 24-bit/96kHz
- JBL Synthesis ARCOS room calibration provides guaranteed system response with minimal seat-to-seat variations in bass response resulting in sound that exceeds any commercial cinema
- Custom configurations for special needs can be created by JBL Synthesis Engineering to suit any installation you can imagine

REMOTE MANAGEMENT

- VNC Remote Control through the network from any smartphone, tablet or laptop
- Web-based responsive interface
- Automation via Telnet and RS232 protocols
- Crestron, AMX and Savant modules available
- Built-in Gigabit Ethernet and Wi-Fi
- IR remote control included
- 12V Trigger in/out

POWER

- Dedicated linear power supply with toroidal transformer on the Analog audio circuit
- Dedicated PSU/switch-mode power supply on the digital audio circuit

JBL SYNTHESIS SDP-75 SPECIFICATIONS

GENERAL

Description	16 or 32-channel Surround Processor
HD Audio Format Support	Dolby TrueHD, DTS-HD Master Audio
3D Audio Format Support	Dolby Atmos, DTS:X, Auro-3D
Upmixing Support	Dolby, DTS, Auro

VIDEO CONNECTIONS

Inputs	8 x HDMI 1.4A (HDCP 2.2 on Input 1)
Outputs	2 x HDMI 1.4A (HDCP 2.2 on output 1), 1 x PC (VGA, DVI, HDMI)

AUDIO CONNECTIONS

Analog Audio Inputs	2 x XLR stereo, 3 x RCA stereo, 1 x 8-ch RCA multichannel
Digital Audio Inputs	8 x HDMI multichannel, 1 x AES3 DB25 (8 or 16-channels) DCI-compliant, 2 x AES/EBU XLR stereo, 4 x S/PDIF Coaxial 7.1 PCM, 4 x S/PDIF Optical 7.1 PCM
Analog Audio Outputs	16 x XLR multichannel, 4 x DB25 (channels 1-32), 1 x RCA stereo
Digital Audio Outputs	2 x HDMI multichannel, 1 x AES3 DB25 (8 or 16-channels), 1 x AES/EBU XLR stereo, 1 x S/PDIF Coaxial stereo, 1 x S/PDIF Optical stereo, 1 x AML Extension Link RJ45

PC CONNECTIONS

Video Outputs	1 x HDMI, 1 x DVI, 1 x VGA
USB Ports	2 x USB 3.0, 2 x USB 2.0
Ethernet	1 x RJ45 Gigabit, WiFi Onboard
Controllers	PS/2 Keyboard and Mouse
Additional Ports	1 x Parallel (unused), 1 x S/PDIF Digital Audio (unused), 1 x 3.5mm Audio (unused)

COMMUNICATIONS AND CONTROL

Remote Control	IR Remote Control Included, 12V Trigger Input/Output, iOS and Android Apps Available, Web-based UI
Network Control	VNC Remote Control from Laptop/PC, Tablet, or Smartphone, IP Control (AMX, Crestron, and Savant Modules Available)

ELECTRICAL CHARACTERISTICS

Power Supply	110VAC 60Hz or 220VAC 50/60Hz
Power Consumption	0.5W standby (EuP compliant) / 100W/450mA Maximum

PHYSICAL CHARACTERISTICS

Dimensions (H x W x D)	6.1" x 16.9" x 15.9" (155mm x 430mm x 405mm)
Weight	30.8 lb (14.5kg)