JBL SYNTHESIS®

SDP-75 3D Surround Processor

VC

MUTE

STANDBY

12.9 dB

LEVEL & DELAY: OFF ✕ –

Ext
48 k
Neural:X

PCM

HDMI 2

HDMI 1   HDMI 2   HDMI 3   HDMI 4

INP

SDP-75 Surround Processor

DOLBY ATMOS®

AURO 3D AUDIO   dts X®

JBL SYNTHESIS®
by HARMAN

JBL SYNTHESIS®

SDP-75 3D Surround Processor

VOL

MUTE

STANDBY

SETTING NEW STANDARDS

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 with High Dynamic Range (HDR) compatibility.

The SDP-75 is available in 16, 24, and 32 channel versions. It also supports the latest HD Audio and Video formats including D-Cinema while offering 3D audio decoding options and delivering up to 32 discrete, uniquely-rendered channels of immersive audio content at an unprecedented level of quality, for a whole new listening experience, leaving the competition far behind. Our exclusive Anechoic EQ improves loudspeakers at higher frequencies than can be equalized with high-resolution based only on in-room measurements.

The SDP-75 is Roon Ready, capable of up-mixing two-channel or multi-channel music from Roon via the built-in Auro Auro-matic, Dolby Atmos, or DTS:X algorithms.

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 processing digital signals, based on a revolutionary hardware architecture that is highly scalable and easy to upgrade.

Instead of traditionally using multiple DSP chips implemented in a complex and rigid architecture, a partnership between JBL Synthesis and Trinnov allowed us to develop a multi-purpose processing platform, based on a multi-core Intel computer processor to provide unrivalled 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.

The Trinnov Optimizer provides automated multi-point Room EQ, with HARMAN optimization parameters and target responses from HARMAN X research.

MAIN FEATURES

- 16, 24, or 32 Channel Digital Audio Processor
- Universal Spatial-Accurate 3D Audio playback
- Roon Ready
- 118 Digital and Analog Inputs and 80 audio Outputs
- 7x HDMI 2.0a/HDCP 2.2 compliant inputs, individually configurable as HDMI 1.4b as desired for legacy sources
- Full Matrix Input/Output
- Setup Wizard
- User-friendly, self-explanatory user interface
- Built-in WiFi & UPnP/DLNA Compliant Digital Media Renderer
- Wide choice of Remote Options

HIGHLIGHTS

AUDIO FORMATS

- HDMI 2.0 compliant digital audio with 3D video pass-through
- HD Audio Codecs: Dolby TrueHD, DTS-HD Master Audio
- 3D Audio Codecs: Dolby Atmos, Auro3D, DTS:X
- LPCM Audio: 16-channels AES input compatible with Digital Cinema Servers
- Dolby Atmos extraction of Dolby Atmos/7.1 AES/DCI Audio from Digital Cinema Servers
- UPnP/DLNA renderer: WAV, AIFF, OGG, FLAC up to 24 bits/192 kHz

EXCLUSIVE TECHNOLOGIES

Anechoic EQ for popular Revel and JBL Synthesis Loudspeakers

- Provides high-resolution EQ that can only be achieved using anechoic measurements

NEXT GENERATION HARDWARE PLATFORM

- Revolutionary architecture, scalable processing platform;
- 64-bit floating point & 24-bit/192 kHz native processing;
- Software-oriented upgrades provided over Internet, no need for DSP upgrade
- Robust design, inspired from Professional Audio product lines

EQUALIZERS

- Automated Multi-point Room EQ utilizing the Trinnov Optimizer with custom HARMAN operating parameters
  - Simple drop-down loudspeaker selection
- Exclusive HARMAN EQ Targets based upon industry-leading HARMAN X research

AUDIO PROCESSING

- **Manual processing**
  - Several layers of 31 bands Graphic EQ, gain, polarity and delay available for every channel
- **Comprehensive Processing latency control**
  - Total delay given in meters/milliseconds/frames for the listening point;
  - Adjustable global delay for accurate Lip Sync

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, Savant, Control4, AMX, RTI and URC modules available
- Built-in Gigabit Ethernet and WiFi

POWER

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

STATE-OF-THE-ART BASS MANAGEMENT

- Easily set different high-pass and low-pass frequencies and slopes for each pair of speakers
- Optionally bass manage very small surround speakers to the nearest speaker capable of lower frequency extension, which can then itself be crossed-over to the subwoofers

COMING SOON – FREE SOFTWARE UPGRADES IN 2019

- IMAX Enhanced® to see and hear IMAX Enhanced media as the filmmaker intended
- DTS:X Pro® with up to 32 uniquely-rendered DTS:X Pro channels

JBL SYNTHESIS SDP-75 SPECIFICATIONS

VIDEO CONNECTIONS	
Inputs	7x HDMI 2.0a/HDCP 2.2 compliant inputs, individually configurable as HDMI 1.4b as desired for legacy sources
Outputs	1 x HDMI 2.0a with HDCP 2.2, 1 x HDMI 1.4a, 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, 1 x 3D Microphone
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 Balanced DB25 (channels 1-32), 1 x RCA stereo
Digital Audio Outputs	2 x HDMI multichannel, Roon Ready via Ethernet, 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)

JBL SYNTHESIS®

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