JBL SYNTHESIS

SDR-40

SPECIFICATION SHEET



16-Channel Immersive AV Receiver

The SDR-40 sets a new benchmark for home theater performance, combining cutting-edge technology with uncompromising power.

Featuring 16-channel processing and nine channels of Class G amplification, it delivers dynamic range and clarity that redefine what's possible in home audio.

A high-performance DAC architecture ensures every note and detail is reproduced with precision, while advanced matrix channel assignment offers unmatched flexibility for custom configurations. Support for Dolby Atmos, DTS:X, IMAX Enhanced, and AURO-3D brings true cinematic immersion, and Dirac Live Room Correction and Dirac Live Bass Control optimize every element for flawless accuracy, with optional upgrade to Active Room Treatment (ART).

Designed for serious enthusiasts, the SDR-40 transforms any space into a reference-grade listening environment.

With intuitive controls and a sleek front panel display, performance has never been this effortless.

When only the best will do, the SDR-40 delivers.

Features

- Immersive audio formats: Dolby Atmos, DTS:X Pro, Auro-3D
- Class G Amplification with 9x 100W into 8 Ohms
- Matrix Channel Assignment for the flexibility to assign the surround channels you need for the best performance of your system
- Dirac Live Room Correction and Bass Control
- HDMI and HDMI eARC
- High-resolution display for clearly visible album artwork and metadata
- Supports Apple Airplay, Google Cast, Spotify Connect, Qobuz Connect and Tidal Connect
- Setup with JBL Synthesis App for presets, Internet Radio and Podcasts
- Supports up to 24 bit / 192 kHz Hi-res audio
- Roon Ready



Decoding/Encoding		
Maximum Channel Count		16
Reassignable Channels		All channels (Subwoofers into CH4/11-16 only)
Dolby		Dolby Atmos, Dolby TrueHD, Dolby Atmos Height Virtualisation, Dolby Surround
DTS		DTS:X Pro, DTS HD Master, DTS Neural:X, DTS Virtual:X
IMAX Enhanced		Yes
Auro 3D		Yes
MPEG H		Yes
Frequency response:		20Hz—20kHz ± 0.05dB
HDMI		
Inputs/Outputs		7/2 (Zone 1), 1 (Zone 2)
HDMI/HDCP Versions		2.1a/2.3
Resolution support resolution/framerate		Up to 8K/60Hz or 4K 120Hz
Supported Dynamic Range Profiles		HDR, HDR10, HDR10+, HDR10+ Gaming, Dolby Vision, HLG
Supported HDMI features		Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM), CEC, eARC/ARC (Zone 1, Output 1)
On Screen Display		Yes
Streaming		
Works with (apps)		JBL Synthesis Control, Spotify Connect, Tidal Connect, Qobuz Connect, Roon (Ready)
Works with (services)		Apple Airplay, Google Cast
Supported services (Global)		Internet Radio, Podcasts, UPnP
Supported Hi-res media:		FLAC, WAV (LPCM), MQA, AAC, ALAC, AIFF, DSD (up to 128), MP3, OGG, WMA
Supported Hi-res Bit depth:		16, 24
Supported samples rates (kHz):		Up to 192 kHz
Gapless Playback:		Yes
Frequency response:		20Hz—20kHz ± 0.05dB
Digital Inputs		
Number of inputs (Coaxial/Toslink)		2/2
Supported Sample Rates (kHz)	Coaxial (RCA)	192, 176.4, 96, 88.2, 48, 44.1
	Optical (Toslink)	96, 88.2, 48, 44.1
Bit depths (bit)	Coaxial & Optical (Toslink)	24, 16
Frequency response		20Hz—20kHz ± 0.2dB
Signal/noise ratio (A-wtd, ref. 50W, 0dBFS)		100dB
Analog Inputs		
Number of inputs		3x RCA pairs
Signal/noise ratio (A-wtd, ref. 50W, 1V input)		100dB
Frequency response		20Hz—20kHz ± 0.2dB
Preamplifier Outputs		
Number of Outputs XLR/RCA		0/16
Single-ended (RCA) peak output level per channel		2V RMS
THD+N (20 Hz to 20 kHz)		–100dB
Amplification		
Amplifier Channels		9, Class G
Continuous power output (0.5% THD), per channel		
8Ω, 20Hz - 20kHz, 2 channels driven		145W
4Ω, 1kHz, 2 channels driven		220W
8Ω, 20Hz - 20kHz, 9 channels driven		100W
4Ω, 1kHz		150W
Harmonic distortion, 80% power, 8Ω at 1kHz		0.002%
General		
Mains voltage		100-120V/220-240V 50/60Hz
Power consumption (maximum)		900W
Dimensions W x D (including speaker terminals) x H (including feet)		432 x 466.6 x 186mm
Weight (net)		25.3 kg
Weight (packed)		30.1 kg

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