

# S Y N T H E S I S<sup>®</sup>



## Synthesis One

Listen to the music. Feel the sense of space, the immediacy, the range of a concert-hall performance. Sit back, relax. Absorb the power of high-resolution moving images and perfectly clear dialogue. Let the full-fidelity score and sound effects reach you from all directions.

Experience Synthesis. State-of-the-art performance for music and cinema. The perfect integration of more than 50 years of JBL preeminence in entertainment design.

Synthesis: Achieved by designing two complements of drivers, each dedicated to its unique application. Within the loudspeakers, an electronically activated relay allows switching between the THX<sup>®</sup>-licensed cinema system and the music system. All Synthesis drivers are electronically equalized for optimum tonal balance and performance, and are powered by an array of amplifiers capable of generating nearly 2 kilowatts of power.

Complex system architecture has been rendered elegant by world-renowned interior designers. Operations have been simplified to the selection of a single button on the system's decoder/controller. The result is Synthesis One—a complete, turnkey system capable of transforming 21,000 cubic feet into an intimate concert performance for two as well as delivering the heart-stopping excitement of the world's biggest theater.

The magic of modern media:  
Synthesis One home media system.

**SP Surround Decoder/Controller\***  
Microprocessor-controlled analog circuitry. Exclusive "adaptive high speed steering logic." Features include THX®, Dolby® Pro-Logic playback modes for cinema soundtracks, two "movie" modes, five music modes, an enhanced mono mode and effects mute. Switching among all effects modes, between sources, and between the music and cinema systems is accomplished from the controller's remote control. There are six inputs allowing the SP to act as the system's preamplifier: two super video, two video, and two audio.  
Dimensions: 3.75" h x 17" w x 14.5" d

**S300 and S150 Power Amplifiers**  
Synthesis amplifiers contain upgraded circuitry components to allow for the greatest bandwidth possible. This design limits high frequency phase shift and preserves the lifelike quality of digital recordings. All amplifier inputs are balanced. Each amplifier is cooled by a "smart" fan controller. A sophisticated circuit allows the fan to run only when there is sufficient sound to completely mask the fan noise. If excessive heat builds up for any reason, the "smart" controller turns up the fan until the heat is reduced.

**S300 and S150 Power Amplifiers**  
A total of five S300s (below, left) and one S150 (below) provide Synthesis One with nearly 2 kilowatts of peak power.  
Amplifier Power, S300: 150 watts/channel into 4 ohms  
Amplifier Power, S150: 75 watts/channel into 4 ohms  
Dimensions: 3.5" h x 19" w x 17" d  
Rack mounts provided.

**SPS Sequencer**  
As the system powers on, the power amplifiers are engaged in sequence to prevent power surges to wall circuits. The system's line conditioner protects against irregularities in household current. (Not shown.)  
Dimensions: 2.25" h x 12" w x 5" d

**SI-SPP Signal Processing Package**  
5 active three-way, fourth-order crossovers and 7 multi-channel equalizers guarantee pinpoint calibration. "Constant Q" graphic equalizer circuitry allows true one-third and two-third octave bandwidth control at various slider positions while the dedicated subwoofer EQs are uniquely configured featuring one-sixth octave centers for the highest resolution available today. Each system's highly specialized EQ package is engaged by the mode switcher.  
Rack mount provided.  
Dimensions: 17.5" h x 19" w x 9" d



**S1C-S Center Channel Loudspeaker\***  
Magnetically shielded to prevent interference with the cinema image, dual 8-inch, Aquaplas-coated cones, cast frames and Symmetrical Field Geometry. A 2-inch titanium dome compression driver with 1-inch throat bi-radial horn utilizes a neodymium magnet.  
Frequency Response: 60 Hz-16 kHz  
Power Handling: 250 watts  
Sensitivity: 98 dB  
Dimensions: 27" h x 14" w x 9" d

**S1A Ambient Loudspeaker\***  
A diffuse, directionless sound field, ideal for home theater applications, is created by using a di-polar configuration. Each side of the di-pole contains one 8-inch driver and one vertically mounted compression driver/horn. Each element has been selected to guarantee maximum power handling and performance. Using identical components in the center channel, ambient and main front loudspeakers provides consistent timbral character.  
Frequency Response: 80 Hz-12k Hz  
Power Handling: 150 watts  
Sensitivity: 95 dB  
Dimensions: 24-5/8" h x 13-5/8" w x 11-1/4" d

**S1S Subwoofer\***  
18-inch, Aquaplas-coated fiber cone, 4-inch edge wound copper voice coil, Symmetrical Field Geometry and cast aluminium frame keep this driver virtually distortion free at high volumes. (Below, bottom.)  
Frequency Response: 20 Hz-1 kHz  
Power Handling: 600 watts  
Sensitivity: 95 dB  
Dimensions: 34.5" h x 21" w x 22" d

**S1M Left and Right Front Loudspeakers\***  
The music system engages two 8-inch mid-bass drivers, two 5-inch midranges, and a 1-inch titanium dome tweeter for extraordinary clarity and detail. When the electronic relay within the loudspeaker engages the cinema system, the 5-inch drivers and 1-inch titanium dome are disengaged and the compression driver/bi-radial horn is activated. (Below, left, top.)  
**S1M-Cinema\***  
Frequency Response: 60 Hz-16 kHz  
Power Handling: 250 watts  
Sensitivity: 100 dB  
**S1M-Music**  
Frequency Response: 60 Hz-22 kHz  
Power Handling: 275 watts  
Sensitivity: 95 dB  
Dimensions: 27" h x 21" w x 9" d



*Ambic is shielded*



*DESIGN for TOTAL build in wall use. NO GRILLS AVAIL.*

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