JBL SYNTHESIS

SCL-6

SPECIFICATION SHEET

2 ½-way Quadruple 5 ¼-inch (130mm) In-Wall Loudspeaker

The JBL Synthesis SCL-6 delivers reference-level performance for immersive audio systems in small to medium-sized rooms. Engineered with JBL's patented 2410H-2 1-inch (25mm) compression driver coupled to a High Definition Imaging (HDI™) horn and four 5.25-inch (130mm) Advanced Aluminum Matrix woofers, the SCL-6 provides exceptional clarity, dynamics, and consistent coverage for front-stage or surround channel applications.

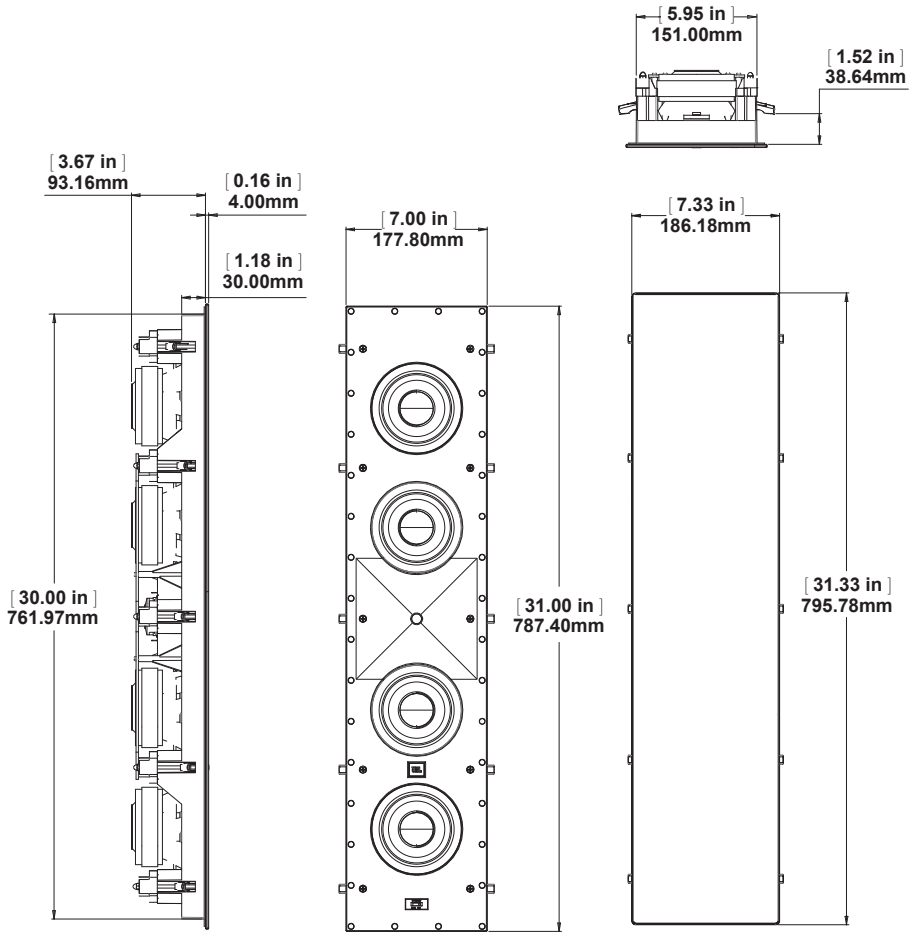
Designed using the same acoustic principles found throughout the JBL Synthesis Custom Loudspeaker family, the SCL-6 ensures seamless timbre matching with SCL loudspeakers. Premium crossover components, a boundary compensation switch, and gold-plated speaker terminals help optimize performance in a wide range of installations.

Installation is fast and secure thanks to JBL's Cat Claw mounting system, which allows the speaker to lock into place before final tightening. The included zero-bezel magnetic grille can be painted to blend effortlessly into any décor. Whether deployed as an LCR or surround, the SCL-6 delivers the dynamic accuracy and cinematic impact expected from a complete JBL Synthesis immersive audio system.

Features

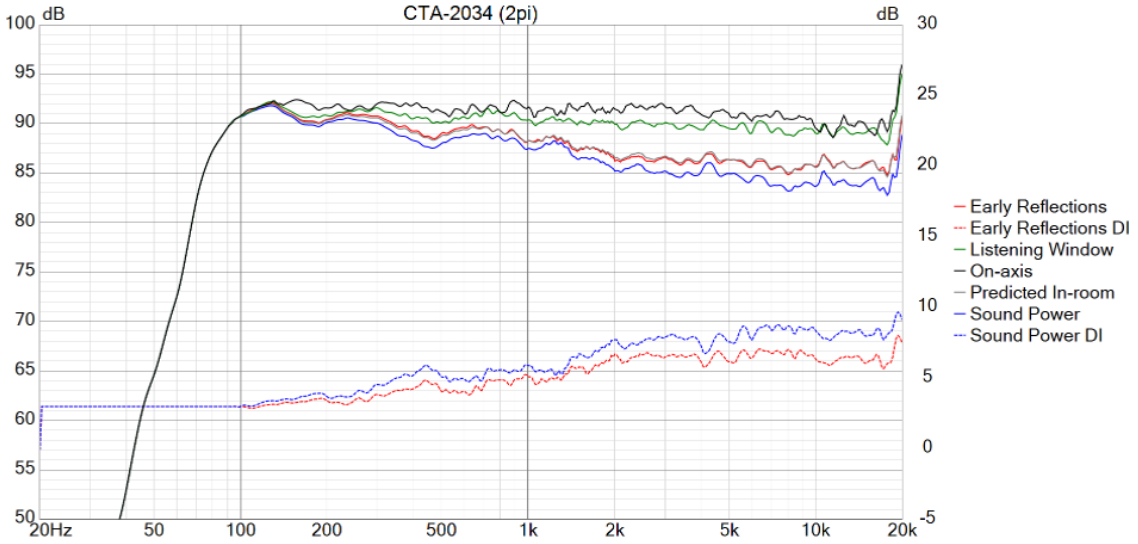
- Patented JBL 2410H-2 1-inch (38mm) HF compression driver
- Patented High-Definition Imaging (HDI™) horn precision molded baffle assembly
- Quadruple 6½-inch (130mm) Advanced Aluminum Matrix cone, cast-frame woofers
- Can be mounted vertically or horizontally
- Patented Cat Claw installation mechanism
- Gold plated, spring-loaded binding posts
- Zero-bezel, magnetically attached paintable grille
- Compatible with WB54 pre-construction bracket

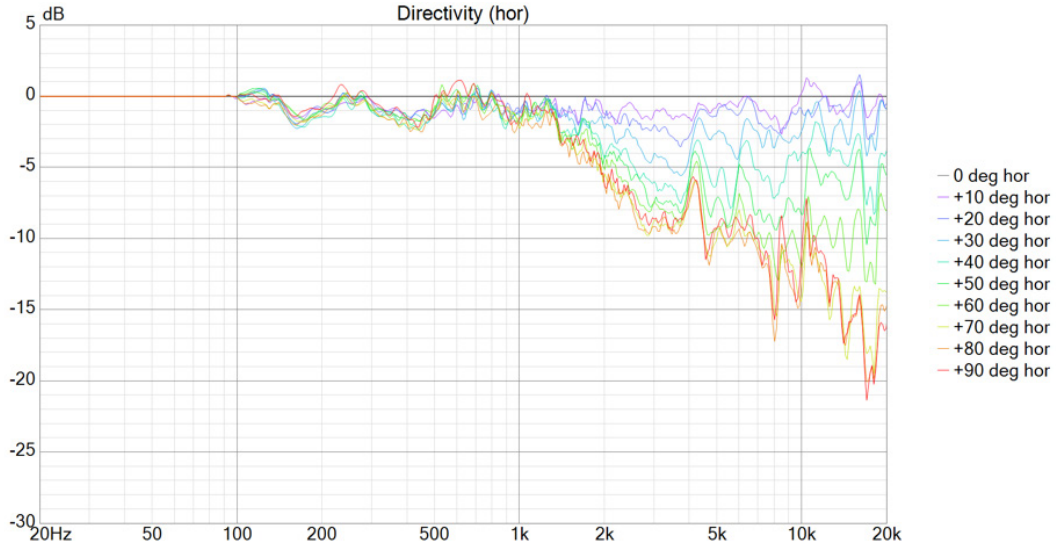
General Specifications	
Type:	2 ½ -way in-wall loudspeaker
Low Frequency Driver:	Quadruple 5¼-inch (130mm) Advanced Aluminum Matrix cone, cast-frame woofers
High Frequency Driver:	2410H-2, 1-inch (25mm) high frequency compression driver
Inputs:	Gold-plated spring-loaded binding posts
Audio Specifications	
Power Handling:	200 Watts RMS (CEA-426B specification, at rated load impedance)
Sound Level Capability, Mid Term:	AES75 M-noise method, 102dB RMS @ 1m, 117dB peak @ 1m, 2pi anechoic, 80Hz-20kHz bandwidth limited stimulus
Frequency Response:	50Hz – 30kHz (-6dB)
Coverage Angle (-6dB):	80° Horizontal, 80° Vertical, averaged over 2kHz-10kHz
Sensitivity (2.83V@1m):	90dB
Impedance:	4Ω nominal, minimum 3.74Ω at 1.137kHz
Crossover Frequencies:	1.8kHz
Physical Specifications	
Finished Dimensions with Grille (H x W x D):	31.32” (796mm) x 7.29” (185mm) x 3.82” (97.1mm)
Cutout Dimensions (H x W):	30.18” (766mm) x 6.18” (157mm)
Mounting Depth:	3.63” (92mm)
Product Weight:	22.2lbs (10.07kg)
Shipping Weight:	25.6lbs (11.61kg)
Enclosure type:	Open Back
Finish:	Matte Black with white paintable grille

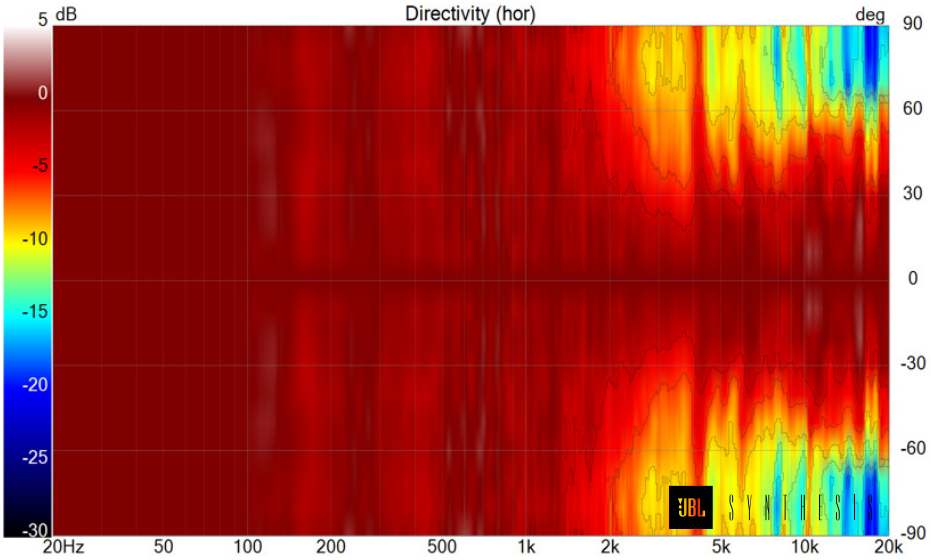


CTA-2034 (Spinorama) and Directivity Measurements

Measured in anechoic conditions. Measurements shown represent system performance using manufacturer-recommended anechoic equalization (AEQ). Equalization is implemented via JBL Synthesis SMA-series amplifiers as part of a complete system solution. Raw loudspeaker measurements available upon request.







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