



B1 POWERED SUBWOOFER



## ABOUT REVEL

Since 1996, the Revel brand has been at the forefront of loudspeaker design, striving to build the world's finest loudspeakers. Backed by the extensive facilities and resources of HARMAN International, Revel products benefit from cutting-edge development tools unavailable to most manufacturers, such as:

- A multichannel listening lab, facilitating double-blind listening tests
- A laser interferometer, enabling detailed driver and cabinet analysis
- Multiple large anechoic chambers, providing precise tests and measurements
- Finite-element analysis, allowing for advanced loudspeaker modeling
- Stereo lithography equipment, aiding in the achievement of tight tolerances

## OVERVIEW

The Revel B1 is a high-performance powered subwoofer, designed to add essential bass response to any music or home theater system. The B1 subwoofer delivers accurate and authoritative bass from a surprisingly compact enclosure. Adjustable controls, parametric room equalization and multiple connection options provide unequaled placement flexibility, and allow you to optimize low-frequency performance for any listening environment. Featuring a 12" (305mm) woofer with 1½" (38mm) peak-to-peak excursion and a 250-watt (RMS) amplifier, the B1 adds serious bass punch with very low distortion, even at the lowest frequencies and at high output levels. A huge 2" (51mm) diameter copper voice coil on a Kapton® bobbin, along with sophisticated cooling, contributes to impressive power handling and freedom from dynamic compression.



## TRANSDUCER

The B1's proprietary woofer diaphragm is constructed of micro ceramic composite (MCC), a new material created by anodizing both sides of an aluminum core. Anodizing both sides of an aluminum core adds strength and stiffness – but very little weight – to a material already well suited for use in transducer diaphragms.

The B1 spider incorporates a superior-strength Nomex®/cotton blend with optimized geometry for increased linearity.

The large ceramic magnet motor system includes a 2" (51mm) diameter copper voice coil wound on a Kapton® bobbin for impressive power handling and freedom from dynamic compression. A vented center pole facilitates heat dissipation, allowing more efficient cooling for high-power handling and low compression.

## AMPLIFIER

250W RMS, 300W dynamic power.

## FULLY PARAMETRIC ROOM EQ

Any subwoofer's performance will be, to at least some degree, affected by the acoustics of the room in which the subwoofer is used, and where in the room it is placed. Certain low-bass frequencies may be adversely affected by standing waves (also known as room modes), where some frequencies are exaggerated (peaks), while others might be diminished (dips). To tame the subwoofer's response in the listening room, the B1 features a parametric room EQ function, with controls for frequency, level and bandwidth to tune out room-induced response anomalies.

## CABINET/PORT

The B1 cabinet is constructed of rigid MDF with extensive internal bracing to reduce cabinet-induced colorations. A downward-firing port allows for placement against a wall or in a cabinet. Rubber-padded feet ensure optimal stability on any floor surface.



## B1 SUBWOOFER SPECIFICATIONS

Low-Frequency Extension (Anechoic)	−3dB at 36Hz, −6dB at 32Hz, −10dB at 29Hz
Maximum Amplifier Output	20Hz–150Hz with no more than 0.1% THD, 250W RMS, 300W dynamic
Low-Pass Crossover Frequencies	50Hz–150Hz, 24dB/octave, continuously variable
Power Requirements	120VAC @ 60Hz, 3.66A 230VAC @ 50-60Hz, 2.0A
Dimensions (H x W x D)	17¾" (450mm) x 15¾" (400mm) x 14" (356mm) including feet and grille
Weight	51 lb (23.2 kg)
Available Finishes	Black



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