

# Ultra Evolution Bookshelf Specs

## Frequency Response / Acoustic Data:

- Frequency Response: 40Hz to 40kHz (+/-3 dB)
- Nominal Impedance: 6 ohms
- Sensitivity: 87dB (2.83V @ 1 meter full-space, 300Hz – 3kHz)
- Recommended amplifier power: 20 – 150 watts

## Speaker Specs:

- Bookshelf Loudspeaker
- Piano gloss black, piano gloss white, real black oak veneer finish options
- Dual gold-plated 5-way binding posts
- 2" wide-flared rear-firing ports
- Cloth grille with magnetic retention system
- Elastomer stick-on bumper feet
- Cabinet Dimensions: 14.88" (H) x 8.66" (W) x 11.25" (D) / 378mm (H) x 220mm (W) x 285.7mm (D)
- Overall Dimensions: 15.04" (H) x 8.66" (W) x 11.64" (D) / 382mm (H) x 220mm (W) x 295.6mm (D) (includes grille, feet, and binding posts)
- Shipped Dimensions (Pair): 23.9" (H) x 19.1" (W) x 16.4" (D) / 607mm (H) x 485mm (W) x 417mm (D)
- Weight Packaged Pair: 40.7 pounds / 18.9 kgs
- Weight Unboxed Each: 18.8 pounds / 8.6 kgs

## Driver Specs:

### 1" Diamond Coated Tweeter

- FEA-optimized Organic Cell Lattice Diffuser for airy, unveiled highs and pristine clarity.
- Cutting-edge vapor-deposition grows a hyper-rigid diamond carbon coating on an aircraft-grade aluminum dome, pushing high-frequency extension further beyond human hearing, and delivering best-in-class fidelity, linearity, and transient response.
- Silver tinsel for optimal signal transfer and power handling.

### 6.5" Woofer

- Long stroke motor and suspension for high output.
- Composite glass-fiber cone with excellent stiffness/mass ratio for high sensitivity and piston-like behavior beyond pass-band.
- Precision-cast aluminum alloy baskets ensure precise alignment of critical components and maximize thermal dissipation.
- Vented aluminum voice coil former to maximize thermal control while minimizing air compression artifacts at high drive levels.

## Crossover & Cabinet Specs:

### Crossover:

- 2-way crossover with premium-grade capacitors, inductors, resistors, and heavy-trace printed circuit board
- Tweeter-to-Woofer crossover: 1.8 kHz

**Cabinet:**

- *Time-aligned* cabinet geometry introduces microsecond-level time delays between the drivers, ensuring that the effective-acoustic-center of each driver is equidistant from the listener. The result is improved linearity and directionality throughout the crossover frequencies, and a more accurate soundstage.
- Chamfered front baffle and flush-mounted drivers reduce edge diffraction and improve on-axis and off-axis high-frequency response.
- Extra-thick 1" (25mm) driver baffle ensures a rigid, resonance-free mounting for all drivers
- FEA-optimized 3/4" (18mm) cabinet construction, bracing, and acoustic insulation eliminate acoustic and structural resonances, ensuring an inert enclosure and an uncolored response, even at the highest drive levels.