

# Ultra Evolution Speaker Features & Specifications

## Ultra Evolution Tower Specs:

Acoustic

- In-room Frequency Response: 30Hz to 40kHz (+/-3 dB)
- Nominal Impedance: 6 ohms
- Sensitivity: 87dB (2.83V @ 1 meter full-space, 300Hz – 3kHz)
- Recommended amplifier power: 20 – 300 watts

Speaker

- Floor-standing Tower Loudspeaker
- Piano gloss black, piano gloss white, real black oak veneer finish options
- Dual gold-plated 5-way binding posts
- Dual 2.5" wide-flared rear-firing ports
- Cloth grille with magnetic retention system
- Elastomer screw-in feet – adjustable for level
- Spiked metal screw-in feet included – adjustable for level
- Cabinet Dimensions: 43.9" (H) x 8.58" (W) x 16.69" (D) / 1115mm (H) x 218mm (W) x 424mm (D)
- Overall Dimensions: 44.49" (H) x 8.58" (W) x 16.69" (D) / 1130mm (H) x 218mm (W) x 424mm (D) (includes grille, feet, and binding posts)
- Shipped Dimensions: 47.8" (H) x 12.2" (W) x 20.5" (D) / 1215mm (H) x 309mm (W) x 520mm (D)
- Weight Packaged: 70.3 pounds / 31.9 kgs
- Weight Unboxed: 59.5 pounds / 27.0 kgs

Drivers

### 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

### 4.5" Glass Fiber Composite Midrange Drivers

- Composite glass-fiber cone with excellent stiffness/mass ratio for high sensitivity and pistonic behavior beyond pass-band
- Precision-cast aluminum-alloy baskets ensure precise alignment of critical components and maximize thermal dissipation
- Vented Kapton voice coil former is exceptionally lightweight for excellent dynamics and transient response

### Quad 5.25" Woofers in Force Balanced Array

- Long stroke motor and suspension for high output
- Composite glass-fiber cone with excellent stiffness/mass ratio for high sensitivity and pistonic 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

- 3-way crossover with premium-grade capacitors, inductors, resistors and heavy-trace printed circuit board
- Tweeter-to-Midrange crossover: 1.8 kHz
- Midrange-to-woofer crossover: 170 Hz

### Cabinet

- Acoustically-centered architecture orients the midrange and woofer arrays in rotational-symmetry around the tweeter, ensuring that low, mid, and high-frequencies emanate from the same effective point in space, creating a coherent, integrated, faithful acoustic image.
- 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.
- Quad 5.25" woofers in Force Balanced Array energize any room with deep, accurate, evenly distributed bass, whilst contributing a net-zero vibration force to the cabinet and other components.
- Dual 4.5" midrange drivers share a dedicated acoustic-suspension enclosure, symmetrical around the tweeter.
- 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 baffles ensure a rigid, resonance-free mounting for all drivers.
- FEA-optimized ¾" (18mm) cabinet construction, extensive bracing, and acoustic insulation eliminate acoustic and structural resonances, ensuring an inert enclosure and an uncolored response, even at the highest drive levels.

Crossover & Cabinet