

# Ultra Evolution Pinnacle Specs

## Frequency Response / Acoustic Data:

- Frequency Response: 24Hz to 40kHz (+/-3 dB)
- Nominal Impedance: 6 ohms
- Sensitivity: 88dB (2.83V @ 1 meter full-space, 300Hz – 3kHz)
- Recommended amplifier power: 20 – 300 watts

## Speaker Specs:

- Floor-standing Tower Loudspeaker
- Piano gloss black, piano gloss white, real black oak veneer finish options
- Dual gold-plated 5-way binding posts
- Dual 3" 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: 49.61" (H) x 11.81" (W) x 18.14" (D) / 1260mm (H) x 300mm (W) x 460.7mm (D)
- Overall Dimensions: 50.2" (H) x 11.81" (W) x 18.14" (D) / 1275mm (H) x 300mm (W) x 460.7mm (D) (includes grille, feet, and binding posts)
- Shipped Dimensions: 54.6" (H) x 16.3" (W) x 22.6" (D) / 1387mm (H) x 415mm (W) x 575mm (D)
- Weight Packaged: 110.8 pounds / 50.3 kgs
- Weight Unboxed: 96.7 pounds / 43.9 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-like 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.

### 5.25" 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.

### Dual Opposing 8" Woofers

- 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 Specs:**

- 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: 140 Hz

#### **Cabinet Specs:**

- *Acoustically-centered* architecture orients the mid-range 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 8" woofers in *Force-Balanced Opposed Array* energize any room with deep, accurate, evenly distributed bass, whilst contributing a net-zero vibration force to the cabinet and other components.
- Dual 5.25" 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 3/4" (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.