



# Ultimo Titanium Specifications

| General data   |     | ULTIMO TITANIUM 8                 |                                   | ULTIMO TITANIUM 10                  |                                   | ULTIMO TITANIUM 12                |                                   |
|--|-----|-----------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|  |     | 2 ohm                             | 4 ohm                             | 2 ohm                               | 4 ohm                             | 2 ohm                             | 4 ohm                             |
| Overall Dimensions   | DxH | Ø 222mm (8.74") X 120 mm (4.72")  |                                   | Ø 263mm (10.35") X 140.3 mm (5.52") |                                   | Ø 305mm (12") X 146.9 mm (5.78")  |                                   |
| Power Handling RMS   | P   | 800 W                             |                                   | 1000 W                              |                                   | 1000 W                            |                                   |
| Transient power 10ms   |     | 3000 W                            |                                   | 3000 W                              |                                   | 3000 W                            |                                   |
| Sensitivity 2.83Vrms/1M  |     | 84 dB                             | 83.7dB                            | 86.1 dB                             | 85 dB                             | 87 dB                             | 86.3 dB                           |
| Sensitivity 1W/1M  |     | 83.5 dB                           |                                   | 84.5 dB                             |                                   | 85 dB                             |                                   |
| Frequency Response   |     | 20-900 Hz                         |                                   | 10-900 Hz                           |                                   | 10-900 Hz                         |                                   |
| Cone Material  |     | Carbon-fiber laminated paper      |                                   | Carbon-fiber laminated paper        |                                   | Carbon-fiber laminated paper      |                                   |
| Net Weight   |     | 6.1 Kg. (13.44 lb)                |                                   | 6.5 Kg. (14.3 lb)                   |                                   | 6.7 Kg. (15 lb)                   |                                   |
| Driver displacement  |     | 2.0 Lit (0.07 cu.ft)              |                                   | 2.34 Lit (0.08 cu.ft)               |                                   | 2.6 Lit (0.09 cu.ft)              |                                   |
| <b>Voice Coil and Magnet Parameters -with 5 inch copper sleeve</b> |     |                                   |                                   |                                     |                                   |                                   |                                   |
| Voice Coil Diameter  |     | 130 mm (5.1")                     |                                   | 130 mm (5.1")                       |                                   | 130 mm (5.1")                     |                                   |
| Voice Coil Height  |     | 37mm (1.45")                      |                                   | 37mm (1.45")                        |                                   | 37mm (1.45")                      |                                   |
| Voice Coil Former  |     | Titanium                          |                                   | Titanium                            |                                   | Titanium                          |                                   |
| Voice coil wire  |     | Hexatech Aluminum                 |                                   | Hexatech Aluminum                   |                                   | Hexatech Aluminum                 |                                   |
| Number of layers   |     | 2                                 |                                   | 2                                   |                                   | 2                                 |                                   |
| Max. Linear excursion  | X   | ± 12.5 mm (0.5")(Each way)        |                                   | ± 12.5 mm (0.5")(Each way)          |                                   | ± 12.5 mm (0.5")(Each way)        |                                   |
| Magnet system type   |     | Double magnet vented              |                                   | Double magnet vented                |                                   | Double magnet vented              |                                   |
| HE-Magnetic gap height   | HE  | 12mm (0.5")                       |                                   | 12mm (0.5")                         |                                   | 12mm (0.5")                       |                                   |
| B flux density   | B   | 0.64 T                            |                                   | 0.64 T                              |                                   | 0.64 T                            |                                   |
| BL product   | BXL | 13.0 T·M                          |                                   | 13.0 T·M                            |                                   | 13.0 T·M                          |                                   |
| <b>Electrical Data</b>   |     |                                   |                                   |                                     |                                   |                                   |                                   |
| Nominal Impedance  | Z   | 2.0 ohm                           | 4.0 ohm                           | 2.0 ohm                             | 4.0 ohm                           | 2.0 ohm                           | 4.0 ohm                           |
| DC Resistance  | RE  | 1.7 ohm                           | 3.7 ohm                           | 1.7 ohm                             | 3.7 ohm                           | 1.7 ohm                           | 3.7 ohm                           |
| Voice Coil Inductance @ 1KHz                                       | LBM | 0.14mH                            | 0.44mH                            | 0.14mH                              | 0.44mH                            | 0.14mH                            | 0.44mH                            |
| <b>T-S Parameters</b>  |     |                                   |                                   |                                     |                                   |                                   |                                   |
| Suspension Compliance  | CMS | 0.19 $\frac{\text{mm}}{\text{N}}$ | 0.17 $\frac{\text{mm}}{\text{N}}$ | 0.36 $\frac{\text{mm}}{\text{N}}$   | 0.46 $\frac{\text{mm}}{\text{N}}$ | 0.37 $\frac{\text{mm}}{\text{N}}$ | 0.33 $\frac{\text{mm}}{\text{N}}$ |
| Mechanical Q Factor  | QMS | 3.88                              | 4.31                              | 4.34                                | 4.37                              | 5.09                              | 6.53                              |
| Electrical Q Factor  | QES | 0.73                              | 0.61                              | 0.58                                | 0.41                              | 0.61                              | 0.50                              |
| Total Q Factor   | QTS | 0.62                              | 0.53                              | 0.51                                | 0.37                              | 0.54                              | 0.46                              |
| Mechanical Resistance  | RMS | 5.49 $\frac{\text{Ns}}{\text{M}}$ | 5.26 $\frac{\text{Ns}}{\text{M}}$ | 4.26 $\frac{\text{Ns}}{\text{M}}$   | 3.37 $\frac{\text{Ns}}{\text{M}}$ | 3.42 $\frac{\text{Ns}}{\text{M}}$ | 2.94 $\frac{\text{Ns}}{\text{M}}$ |
| Moving Mass  | MMS | 107g                              |                                   | 127g                                |                                   | 134g                              |                                   |
| Resonant Frequency   | FS  | 39Hz                              |                                   | 24Hz                                |                                   | 24 Hz                             |                                   |
| Eq. Cas Air Load (liters)  | VAS | 17 Lit (0.6 cu.ft)                | 16 Lit (0.56cu.ft)                | 66 Lit (2.33cu.ft)                  | 85 Lit (3.02cu.ft)                | 117Lit(4.12cu.ft)                 | 103Lit(3.63cu.ft)                 |
| Effective Piston Area  | SD  | 0.0254 m <sup>2</sup>             |                                   | 0.0363 m <sup>2</sup>               |                                   | 0.0471 m <sup>2</sup>             |                                   |