

OmniDrive Pro Mark II - technical specifications

System:

- topology: Coaxial Convex driver array on a closed volume of 2,2L
- system tuning: $F_b = 100\text{Hz}$, $Q_{tc} = 0,72$
- frequency response: 90-16,000Hz -3dB/+1dB @reference angle
- frequency range: -10dB @60Hz and @24kHz @reference angle
- reference angle: 70 degrees off the rotation axis
- directivity ($\pm 3\text{dB}$): 360 x 90 degrees (90-12,000Hz) in the plane of the reference angle
- sensitivity of a single OmniDrive: 80dB/2,83V @1m
- sensitivity of two Omnidrives combined in the Omniwave array: 85dB/2,83V @1m
- power handling: 1 dB power compression @85W AES
- electrical data:
 - Nominal impedance $[Z_n] = 7\Omega$
 - DC resistance $[R_e] = 6,2\Omega$
 - Maximum impedance $[Z_o]$: 14Ω @100Hz
 - Minimum impedance $[Z_{min}]$: 5Ω @10K

Woofers:

- nominal size: 5,25"
- voice coil former: black anodised titanium
- voice coil: 39mm, 8Ω , 2-layer CCA wire, 18 mm winding height
- X_{lin} : 14mm (p-p)
- X_{max} : 22mm (p-p)
- cone: curved black anodised aluminium
- magnet system: neodymium with copper ring, Force Factor, $BL=6,8$
- top plate height: 7mm
- spider: Nomex with centering ring
- surround: low loss SBR, 50 shore
- frame: die cast, gray Nextel coating

Tweeter:

- nominal size: 0,75"
- VC former: aluminium, diameter 19mm
- magnet system: neodymium
- diaphragm: impregnated textile, airtight
- damping: ferrofluid
- cooling: ferrofluid, thermoplastic frame, aluminium heat sink
- PTC fuse tripping @90W RMS continuous, <15s restoring time
- protection grille: black zinc passivated magnetic steel
- Quick Lock mounting: 6,3mm 3-pole locking plug with 7/16-20 UNF-2B handle

Crossover:

- LIR (Linear Impulse Response) crossover, 2nd order @ 2,45 kHz

Weather resistance:

- IP class: IP-64
- driver protection bracket: matte black powder coated steel

Rigging facilities:

- back: stainless steel eye bolt, ID=15mm
- side: 3/8" female thread connector

Dimensions:

- length including eye bolt and protection bracket: 33cm
- diameter: 146mm
- weight: 3,9kg

Durability:

- all parts 99% recycable