



MARKAUDIO



## Alpair 11 MS

### **New technology Full Range audio driver.**

The advanced design Alpair 11MS (mono suspension) is a radical departure from previous models. The 11MS is completely new, utilising many new design components and manufacturing processes. The two main features are the patent-pending Negative Camber Cone and Mono suspension system. Other key features include a custom designed, gas-flowed glass-fibre chassis and dedicated ultra light voice coil.

**Negative Camber Cone (patent-pending).** The 11MS cone is an ultra shallow design affording a wide dispersion pattern. The outer section of the cone profile is angled backwards creating a +180 degrees emittance pattern to help optimise stereo imaging. Vocals from quality sources sound more natural and detailed as the central cap and cone profile are geometrically close-aligned.

**Mono Suspension (patent-pending).** Much technical research has been done to balance the driver's powertrain (cone, cap, coil and suspension) between its axis of travel and the corresponding centre of gravity. The new negative-camber cone facilitates the repositioning of the coil to avoid the need for a traditional rear suspension (spider). This new mono suspension design frees the coil from having a restrictive spider bonded to it, improving the transfer of energy from the driver's motor to its cone. The new suspension employs an all new custom mix of four synthetic materials, resulting in improved linearity under low frequency loads.

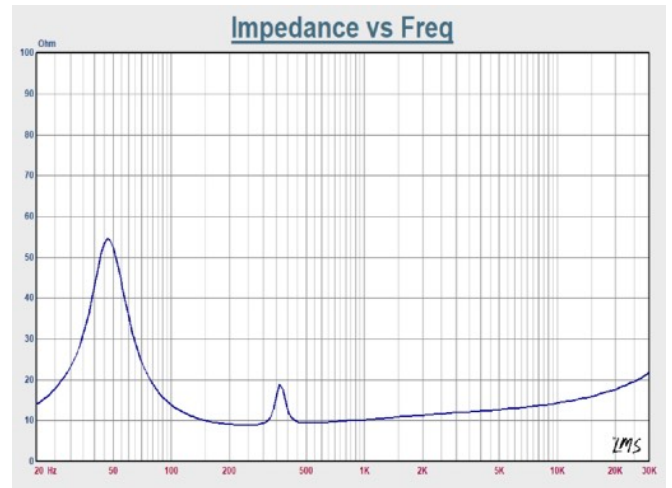
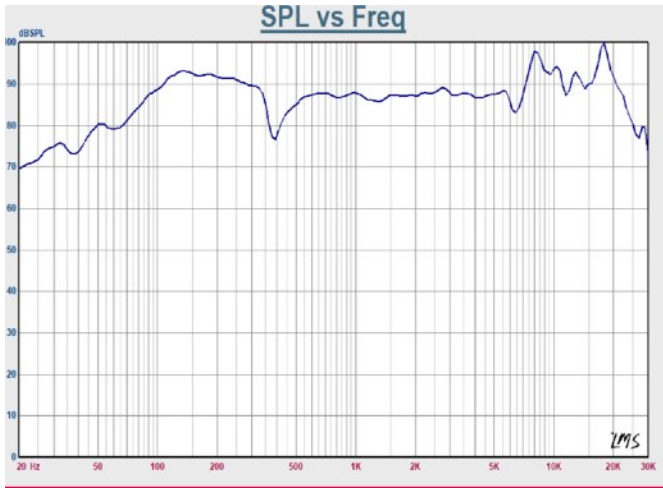
**The 11MS all new chassis is optimised to enhance airflow.** The various slopes and rounded angles help improve sound wave emittance. Custom extended terminals are provided for push-on connectors or light-soldering for cables up to 1.5mm diameter.

**Other features.** The run-in time for the 11MS is significantly reduced compared to previous models. Ten hours of light music at moderate volumes is sufficient for the suspension to reach its optimal operating pattern. An Arrestor (as deployed in previous Alpair models) provides an audible warning of accidental excess excursion. The low-mass coil has a vented former and the motor employs custom made copper plating to reduce distortion. The MS11 is a bass capable audio driver with comparable performance to light-medium load traditional mid-bass units.

The 11MS is an audio driver designed for the dedicated music lover and High-Fidelity enthusiast. Attention to design detail along with an close tolerance manufacturing standard to +/- 0.05mm on most component alignments make this new generation of Markaudio transducers stand out from the crowd.



# Alpair 11 MS



Revc=	7.200 Ohm
Fo=	43.748 Hz
Sd=	111.220 cm <sup>2</sup>
Vas=	17.709 Ltr
Cms=	1.008m M/N
Mmd=	11.331m Kg
Mms=	12.005 g
BL=	7.812 TM
Qms=	2.215
Qes=	0.407
Qts=	0.344
Levc=	63.087u H
No=	0.403 %
SPLo=	88.068 dB
X Max=	8mm 1 Way
PWR=	35 Watts Nom

