

HDZ-110

Alpine Status – High-Performance Subwoofer

Alpine Status



General



Superior Sound Performance

Alpine introduces the all-new Alpine Status sound system: using the same engineering and design concepts drawn from the third generation, Ultra High-Resolution AlpineF#1Status system, Alpine created "Alpine Status" to achieve high-resolution sound at a more approachable and accessible price.



Carbon Fibre Cones

All speakers in this set use backed carbon composite cones to achieve a fully unified timbre identity – resulting in excellent harmonics. Carbon is very light and stiff, resulting in high dynamics and low distortion. Backed carbon composite technology is also used in race-car monocoques for its light weight and high crash resistance.



Double-Gathered Edge

The double-gathered edge allows maximum cone excursion with excellent cone control and stability. This reduces sound distortion caused by cone wobble at higher volume levels.



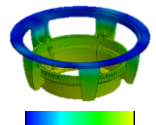
User-friendly connection terminals

The HDZ-110 subwoofer contains a dual voice coil (DVC) with easy configuration jumpers that allow for flexible applications.



Die cast aluminium basket and large magnets

The Status Series speakers feature high-quality die-cast aluminium baskets that have high rigidity without deforming. The frame structure and screw holes are chosen for maximum noise and distortion prevention caused by internal vibrations. The goal was to bring the internal resonance point out of the playback range (achieved at 922 Hz) to achieve an optimal sound experience.



Specifications

General

- Alpine proprietary double gathered edge technology for maximum linear diaphragm movement
- Carbon fibre composite cone construction
- Large aluminium voice coil
- Ferrite magnet
- Phase plug
- High-quality metal grille
- All speakers and the subwoofer share the same design concept for a unified look and feel

Technical Data

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|-----------------------------|--------------------------|
| ■ 29 cm (11-inch) subwoofer | |
| ■ Connection type | Dual Voice Coil |
| ■ Impedance | 2x 2 Ohm |
| ■ Power handling (RMS) | 400 Watt |
| ■ Power max. handling | 1200 Watt |
| ■ Power range | 250 – 400 Watt |
| ■ Frequency response | 25 Hz – 300 Hz |
| ■ Sensitivity (SPL) | 84 dB (2,83 V x 2 @ 1 m) |
| ■ Mounting depth | 195,6 mm |
| ■ Cut-out diameter | 250,9 mm |
| ■ Outside diameter | 289,9 mm |

TSP / Thiele Small Parameters

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|------------------------------|------------------------|
| ■ Cone Area (Sd) | 706,86 cm ² |
| ■ DC Resistance (Re) | 2,72 Ω + 2,72 Ω |
| ■ Free Air Resonance (Fs) | 30,5 Hz |
| ■ Equivalent Stiffness (Vas) | 50,5 Litre |
| ■ Mechanical Q (Qms) | 5,813 |
| ■ Electrical Q (Qes) | 0,925 |
| ■ Total Q (Qts) | 0,798 |

Enclosure Volume Recommendation

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|--|---------------------------|----------|
| ■ Sealed Enclosure | gross int. volume approx. | 28 Litre |
| ■ Vented Enclosure | gross int. volume approx. | 52 Litre |
| | Vent size Ø | 10 cm |
| | Vent Length | 50 cm |
| ■ Volume of the driver itself is approx. | | 6 Litre |

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Dimensions

