



THE HIGH FREQUENCY DEVICES SERIES CD-140S

COMPRESSION DRIVER

1" / 25.4 mm
SOUND CHANNEL / THROAT SIZE

40 w (A.E.S.)
POWER HANDLING

105 dB
SENSITIVITY (1w / 1m)

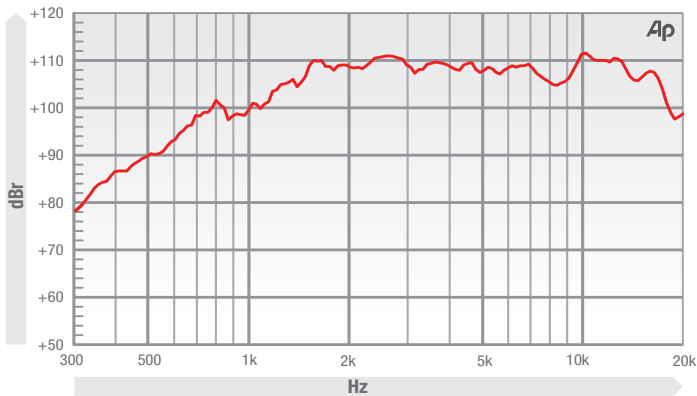
2 kHz - 18 kHz
FREQUENCY RESPONSE

1.75" / 44 mm
Aluminium Voice Coil

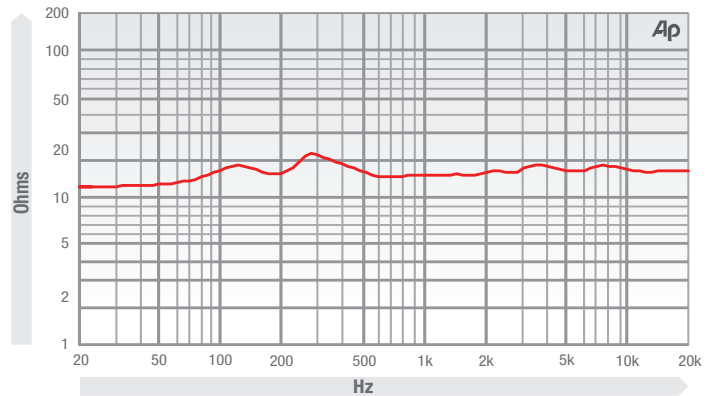
The CD140S is an excellent choice for professionals who are looking to achieve high sound pressure level performance and clarity of sound from compact dimensions. The compression driver exit diameter is an industry standard 1 inch (25.4mm). The CD140S combines high BL and a lightweight diaphragm assembly to produce a very high output device that also features extended bandwidth and well defined frequency response. The CD140S is optimised for high performance system designs. The driver has a rated low frequency response limit of 2 kHz and features extended response to 18 kHz. The throat diameter and fixings are industry standard and will match to commercially available high frequency horns. The ferrite based permanent magnetic system produces a very high efficiency to weight and size ratio. This makes the CD140S ideal for high level professional touring applications as well as high level fixed installation.

- 1" exit ferrite magnet compression driver with screw fitting.
- 1.75" / 43mm copper clad aluminium voice coil.
- Titanium diaphragm with double sinusoidal roll surround (titanium).
- 40 Wrms (AES standard)
- Copper inductance ring for extended response.
- Ferrofluid cooled
- Self aligning diaphragm for easy field replacement.

FREQUENCY RESPONSE DATA*



IMPEDANCE



ELECTRO ACOUSTIC SPECIFICATIONS

Sound Channel / Throat Size	1" / 25.4 mm
Nominal Impedance	8 / 16 Ω
Power Handling	40 w (A.E.S.)
Sensitivity (1 w - 1 m)	105 dB
Usable Frequency Range -6dB	2 kHz - 18 kHz
Recommended Crossover Frequency Filtered at 18dB / Octave	3.5 kHz
Effective Diaphragm Diameter	1.75" / 44 mm
Voice Coil Diameter	1.75" / 44 mm
Voice Coil DC Resistance	6.2 / 10.5 Ω
Max Diaphragm Displacement	0.016" / 0.4 mm
Flux Density	1.35 Tesla
Magnet Weight	16 oz

MOUNTING / SHIPPING INFORMATION

Overall Diameter	4" / 102 mm
Depth	1.97" / 51 mm
Weight	3.4 lb / 1.54 kg
Shipping Weight	3.6 lb / 1.64 kg
Packing Carton Dimensions	120 x 120 x 160 mm
Bolt Fixing Hole Dimensions & Qty	Screw Fit

MATERIALS OF CONSTRUCTION

Coil Former	Polyamide
Voice Coil Material	Aluminium
Diaphragm Material	Titanium
Surround / Edge Termination	Double Sinusoidal Roll Titanium
Magnet Material	Ferrite
Connectors	6.3 mm Spade
Polarity	Positive voltage at red/ positive terminal causes positive pressure at throat exit

* Please enquire about alternative impedances.
* Frequency response measurement taken on axis with 1w signal at distance of 1m using custom horn with 80° x 60° coverage.