



Key features:

• **CONE EXCURSION 56MM !!**
PATENTED DESIGN.

• **1 DEMODULATION COPPER RING,**
POWERFUL AND INNOVATIVE MOTOR
STRUCTURE, INNOVATIVE VENTING
SYSTEM

• **DOUBLE SPIDER WITH SPACER,**
WOVEN-IN TINSEL WIRES,
REINFORCED CONE EDGE.

Design notes:

Designed based upon the 18XR, the 181XR was designed for professional audio segment.

The basic characters and design concept remains the same for the 181XR. We have used newly designed 4 roll waterproof fabric surround that fully supports the high cone excursions of this incredible loudspeaker. The target was to push the envelope of possibilities. We are giving you a product that will not limit you to achieve

even your wildest sub-woofer dreams.

Motor Design

The magnetic design incorporates large neodymium magnets placed along the voice coil winding. This has allowed us to push the cone excursion to 44mm peak to peak. Unique gap venting ensures good air circulation and greatly improves the reliability of this driver. We have

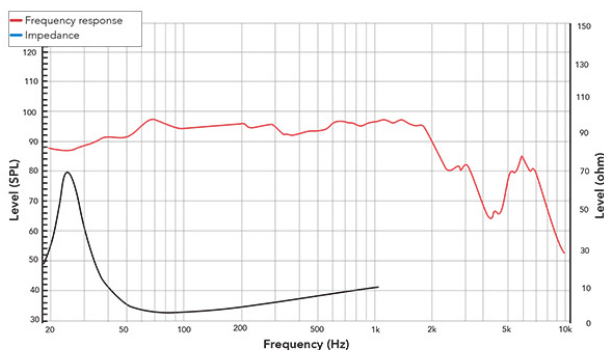
also developed a new technique for manufacturing deep copper caps.

The design further utilizes dual, uncommonly large, spiders, spaced with spacer, hot-pressed tinsel wires onto the top spider, reinforced cone edge, reinforced surround to cone joint, reinforced spider to basket joints, etc.

Specifications:

General specs	T/S Parameters	Design details	Ordering codes:
Nominal Diameter: 18 "	Resonant frequency: 30 Hz	Surround Material: fabric	DR-18-007-4R-B2-C0001
Rated Impedance: 4 ohm	Re: 3.3 ohm	Cone material: Paper GF	Legacy code: 181XRX4-350
Power handling	Qes: 0.24	Spider: Nomex	Recone kits:
AES Power: 1200 watts	Qms: 13.2	Plate thickness: 56 mm	RC181XRX4-350
Program Power: 2400 watts	Qts: 0.23	Overall diameter: 467.6 mm	In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.
Peak Power: 4800 watts	Vas: 195 liters	Bolt circle diameter: 442 mm	
Voice Coil	Sd: 1256.6 cm²	Baffle cutout dia.: 422 mm	
Diameter: 101.6 mm	Sensitivity: 96.54 dB	Mounting holes: 8	
Winding wire: Copper	Mms: 306 grams	Depth: 257.2 mm	
Former: Glass Fiber	Bl: 28.3	Net weight: 14.5 kg	
Winding height: 22 mm	Le: 1.3 mH		

Frequency response & Impedance



2D drawing

