







## **Key features:**

- NONPARALLEL VOICE AND LOW FREQUENCY REPRODUCTION QUAL-ITY
- PATENTED MAGNETIC CIRCUIT AND AIR VENTING DESIGN
- EXTREMELY LOW HAR-MONIC DISTORTION

### **Design notes:**

The 81XR was designed to be simply the best driver for 2-way and multiway systems on the market, yet this driver will also shine in sub-woofer applications. The combination of our XR patented technology with static shorting coil brings an nonparallel opportunity to the audio designers. The common request for 2-way speakers is ,Äúmore of everything,Äù. Designers wishes for more bass, more mids. Well, there you have it! But not only that.

We bring this with clarity in the mid-frequencies and undistorted bass. Our designers were able to achieve THD below 0.5% from 20Hz up to 2.5kHz. There isn,Äôt another driver like this on the market.

#### Motor Design

The magnetic design incorporates large neodymium magnets placed along the voice coil winding, together with the 2nd and static coil placed on the pole piece. This has allowed us to push the cone excursion to 30mm peak to peak, while lowering the inductance. The shorting coil covers the complete main coil excursion. This is also an improvement compared to some previous designs on the market that utilizes static coil. Unique gap side venting ensures good air circulation, lowers air noise and greatly improves the reliability of this driver.

Orderina codes:

# Specifications:

General specs
Nominal Diameter:8"

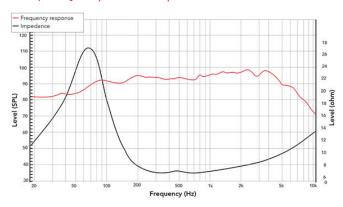
Rated Impedance: 8 ohm		
Power handling		
AES Power:	200 watts	
Program Power:	400 watts	
Peak Power:	800 watts	
Voice Coil		
Diameter:	2.5 in.	
Winding wire:	Copper Sq.	
Former:	Glass Fiber	
Winding height:	18.3 mm	

T/S Parameters	
Resonant frequency:	73 Hz
Re:	5.5 ohm
Qes:	0.37
Qms:	1.466
Qts:	0.3
Vas:	7.2 liters
Sd:	201 cm2
Sensitivity:	93 dB
Mms:	38 grams
BI:	16
Le:	0.19 mH

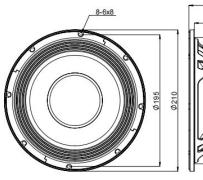
Design details	
Surround Material:	Fabric
Cone material:	Paper
Spider:	Nomex
Plate thickness:	31 mm
Peak to peak linear cone displacement	28.4 mm
Overall diameter:	210 mm
Bolt circle diameter:	195 mm
Baffle cutout dia.:	186.88 mm
Number of mounting holes:	8
Depth (flange to rear):	128.3 mm
Net weight:	4.9kg

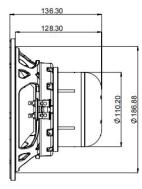
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81XR-X8 ohm-424A	4
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In many cases REDCATT	_
produces 4 ohms, 8 ohms an	d
16 ohms versions. Indicate	
what impedance do you nee	d
in your request.	

#### Frequency response & Impedance



2D drawing





Frequency response measured on IAC baffle