

## 8" - Full Range Driver

## Pro PA Range

### Applications: Compact Full Range PA Systems

- 150 Watt (AES)
- Full Range Coaxial Driver
- Double Suspensions
- Symmetrical Field Magnet
- Integral Crossover and Dome Tweeter
- Net Weight: 4.65 Kgs



The CX220.1 is a coaxial unit with integral crossover and a ferrofluid cooled dome tweeter. The bass-midrange system features a symmetrical field magnet, dual rear suspensions and a critically doped surround for low colouration and linearity. The tweeter has a 28mm voice coil and Neodymium magnet for efficiency and power handling. A foam disc behind the tweeter flange minimises diffraction problems and gives a wide, smooth off axis response. The entire tweeter assembly is field replaceable. Thiele-Small parameters are optimised for use in compact enclosures. High power handling, excellent dispersion and low distortion make the CX220.1 suitable for studio and fixed installation applications where quality and dynamic range are essential.

#### Specifications

Nominal Diameter	200 mm
Power Rating	150 Watt (AES)
Sensitivity (1w / 1m)	90 dB
Frequency Range	40 - 20000Hz
Nominal Impedance	4, 8 or 16 ohms
BL Factor	11.9 N/A
Voice Coil Diameter	38 mm
Voice Coil Material	Copper
Maximum Excursion	25 mm (peak to peak)
Magnetic Assembly Weight	3.6 Kgs
Effective Moving Mass	0.028 Kgs
Compliance	0.00069 M/N
Volume Displacement	1 Litres
Connection	5mm Solder Terminals
Chassis	Diecast Aluminium

#### Thiele-Small Parameters

Fs	36 Hz
Re	6.4 Ohms
Qa	1.61
Qe	0.29
Qt	0.24
Vas	44 Litres
Xmax	±5.5 mm
Sd	214 cm <sup>2</sup>
Vd	118 cm <sup>3</sup>
Le	1 mH

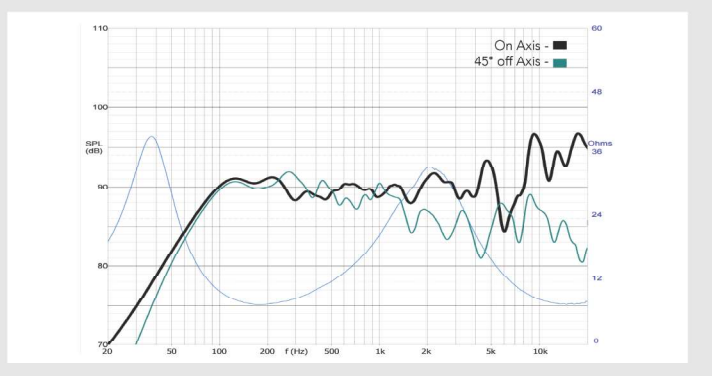
#### Mounting Information

Overall Diameter	235 mm
Fixing Bolt Diameter	218 mm
Fixing Holes	4 x M5
Front Mount Cut-out Diameter	192 mm
Suggested Rebate Depth	9.5 mm
Depth Below Front Flange	150.5 mm
Total Depth	160 mm
Weight	4.65 Kgs

#### Suggested Enclosures

Volume in Litres	4	10	20
Vent diameter in Cm	Sealed-	5	5
Vent length in Cm	Box	13	8
System Q	0.85	7	7
-3dB Freq in Hz	110	67	50

#### Response Curve



#### Dimensions

