# **XR2064**

## **Key Features**

2 inch throat entry
Aluminum construction for excellent heat transfer
Uniform on-axis and off-axis frequency response
60° x 40° horizontal and vertical constant coverage
Very low distortion at high sound pressure
Improved compression driver cooling
Rotatable structure

# **Constant Coverage Horn**



0422064000

## **General Description**

The XR2064 is a constant directivity 2 inch horn. The XR2064 has been developed to reach the optimum performance when coupled to 2 inch exit Eighteen Sound high frequency compression drivers.

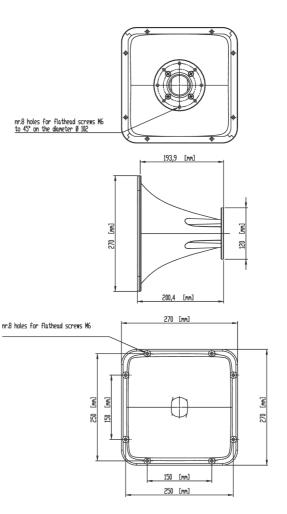
All XR series horns have been designed in order to reach smooth driver frequency response, to maintain constant coverage and directivity and eliminating the midrange narrowing and high frequency beaming problems common of many similar horns on the market.

XR2064 is made in low pressure injected aluminum in order to obtain the best performance in following aspects:

- thermal: aluminum horns are capable to reduce up to 30°C the steady state compression driver working temperature at full power, when compared to equivalent size plastic horn. This gives lower power compression ratio (down to 1dB) and higher driver power handling (30% higher);
- mechanical: aluminum horns do not require any support for the compression driver (likes brackets), and at the same time eliminate the problem of horn resonance with optimum waterfall and impulse system behavior.

The XR2064 horn maintains nominal  $60^{\circ}$  Horizontal x  $40^{\circ}$  Vertical pattern control. It provides consistent on-axis and off-axis frequency response from 1.2 kHz to 16 kHz in both horizontal and vertical planes.

Horn directivity is constant down to 1.2kHz.





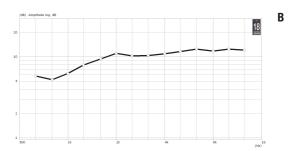
## GENERAL SPECIFICATIONS

THROAT DIAMETER	50 mm (2 in)
HORIZONTAL COVERAGE (-6DB)	$60^{\circ}$ ( $10 \div -6$ ) average range ( $1,6$ kHz -
	12,5kHz)
VERTICAL COVERAGE (-6 DB)	$40^{\circ}$ (30 ÷ 0) average range (1,6kHz -
	12,5kHz)
DIRECTIVITY INDEX	11 dB (1.8 ÷ - 2.6) average range
	(1,6kHz - 12,5kHz)
USABLE FREQUENCY RANGE	Above 500 Hz
RECOMM. CROSS.FREQUENCY	800 Hz or more
SENSITIVITY (ON AXIS) (1)	110 dB
FREQUENCY RANGE	800 Hz - 18kHz
HORN MATERIAL	Low pressure injected aluminum
MOUNTING INFORMATIONS	

Mouth Height	270 mm (10,6 in)
Mouth Width	270 mm (10,6in)
Depth	200 mm (7,9 in)
Mouth Mounting Dimensions	8 ø 6 holes
Net weight	2 Kg (4,4 lb)

### HORIZONTAL BEAMWIDTH, RED PLOT – VERTICAL BEAMWIDTH, BLUE PLOT – A

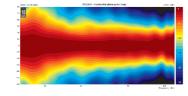


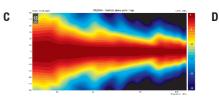


HORIZONTAL POLAR DIRECTIVITY MAP – C Vertical Polar Directivity Map – D

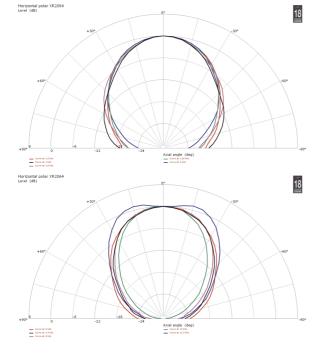
#### NOTES

(1) Sensitivity is measured at 1W input on ND2080 rated impedance at 1m on axis from the mouth of the horn, averaged between 1kHz and 4 kHz.





#### HORIZONTAL 1/3 OCTAVE POLAR PLOTS



#### **VERTICAL 1/3 OCTAVE POLAR PLOTS**

