# **Constant Coverage Horn**



### **Key Features**

1.4 inch throat entry

Aluminium 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



## **General Description**

The XR1464 is a 1.4 inch throat entry constant directivity horn. The horn has been developed to reach optimum performances when it will coupled with 1.4 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.

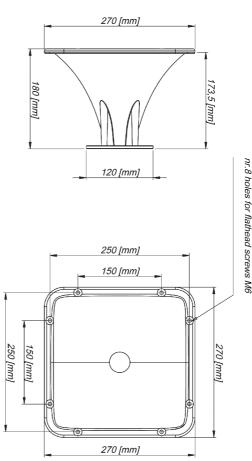
XR series horns are made in low pressure injected aluminium material in order to obtain the best performance under many point of view:

- 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 XR1464 maintains nominal  $60^{\circ}$  Horizontal x  $40^{\circ}$  Vertical pattern control. It provides consistent on-axis and off-axis frequency response from 1,2kHz to 16kHz in both horizontal and vertical planes. Horn directivity is constant down to 1,2kHz.

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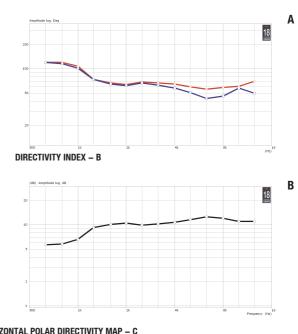
HORIZONTAL BEAMWIDTH - RED PLOT - VERTICAL BEAMWIDTH - BLUE PLOT - A

### GENERAL SPECIFICATIONS

THROAT DIAMETER	35,5 mm (1,4 in)
HORIZONTAL COVERAGE (-6DB)	60° (10 ÷ -2) average range (1,25kHz - 12,5kHz)
VERTICAL COVERAGE (-6 DB)	40° (25 ÷ 0) average range (1,25kHz - 12,5kHz)
DIRECTIVITY INDEX	11 dB (2 ÷ -1) average range (1,25kHz - 12,5kHz)
USABLE FREQUENCY RANGE	Above 800 Hz
RECOMM. CROSS.FREQUENCY	800 Hz or more
SENSITIVITY (ON AXIS) (1)	110 dB
FREQUENCY RANGE	800 Hz ÷ 18KHz
MATERIAL	Low gravity injected aluminum

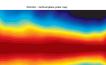
# MOUNTING INFORMATIONS

Mouth Height	270 mm (10,6 in)
Mouth Width	270 mm (10,6in)
Depth	180 mm (7,1 in)
Mouth Mounting Dimensions	8 ø 6 holes
Net weight	1,9 Kg (4 lb)



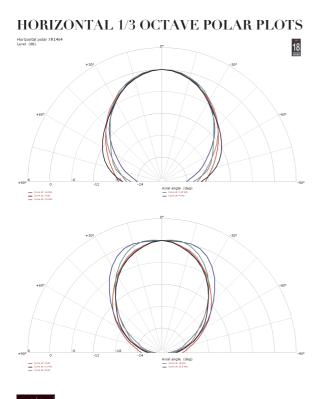
HORIZONTAL POLAR DIRECTIVITY MAP – C VERTICAL POLAR DIRECTIVITY MAP – D

C

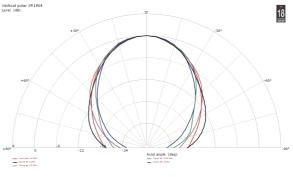


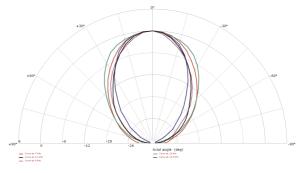
#### NOTES

(1) Sensitivity is measured at 1W input on ND1480 rated impedance at 1m on axis from the mouth of the horn, averaged between 1kHz and 4 kHz.











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