



M8

PASSIVE COLUMN ARRAY



The Matrix M8 speaker has been developed in order to offer the highest intelligibility at high SPL and wider frequency response while providing constant beam-width over a user selectable vertical coverage. This accurate beam control extends up to 10kHz, well beyond the benchmark of 4kHz of traditional single-driver loudspeakers. To better control the lower frequencies, the Tuned Dipolar Technology was developed to provide more consistent low frequency pattern control than other similar size systems. This can be useful in reducing the stimulation of resonant room modes at low frequencies. A user selectable Music / Vocal mode switch is incorporated to allow quick and easy system optimization. Music mode provides a flat, balanced frequency response, while Vocal mode adds a mid-range presence for enhanced speech intelligibility. The M8 column array is able to focus the acoustical energy where it is needed, the listening area, leading to significant improvements to speech intelligibility and musical clarity even in critical acoustic environments. For even greater versatility, the vertical dispersion pattern can be switched for Wide or Narrow coverage. Small conventional column loudspeakers arrays provide no significant vertical directivity control at lower frequencies due to their physical size.

Product Type

Tuned Dipolar, Variable Beam Straight Line Array

Frequency Response (-10dB)

135Hz - 20kHz

Nominal Coverage (-6dB)

90° (+/-20° 1.5-5kHz) H x 25°(+/-10° 1.2-16kHz) / (+10°/-5° 1.5-16kHz) V

Program Power

480W

Full-Range Driver

8 x 3" (70mm)/0.75" (20mm) VC, custom neodymium speaker

Nominal Impedance

8Ω

Sensitivity (1W, 1m)

97dB (Music) / 100dB (Vocal)

Maximum SPL Pgm/Peak (calculated)

123.1dB (Music) / 126.1dB (Vocal)

Input Connectors

4 Pins Screw Connector (IN/OUT)

Recommended Subwoofer

HFA115s, HFA115sHP, HFA118sHP

Recommended Amplifier

MA1700

Special Features

Vocal or Music / Narrow or Wide (User Selectable)

Construction

Aluminum / Wood / Steel / 3D Fabric

Dimensions (WxHxD)

108 x 685 x 153mm

Net Weight

6.2kg