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
Passive Two-way Vertical Array

Frequency Response (-6dB)
80Hz - 18.000Hz

Nominal Coverage (-6dB)
90° x 40° user rotatable

Program Power
500W

Nominal Impedance
4Ω

Sensitivity (1W, 1m)
95dB (Full-Space)

Maximum SPL (calculated)
121dB / 127dB (Full-Space)

Low Frequency Driver
2 x 6.5" (170mm) / 1.5" (38mm) voice coil, custom speakers

High Frequency Driver
1 x 1" (25mm) exit / 1.75" (44mm) voice coil, custom compression driver

Input Connectors
2 x Neutrik NL4

Recommended Amplifier
MA1700 / MA900

Dimensions (WxHxD)
219 x 625 x 259 mm

Net Weight
14.4kg

Shipping Weight
15.6kg