NEXT
proaudio

Matrix
Column Array series

VARIABLE BEAM SHAPING VBS

Matrix
Column Array series

Main Applications

- Permanent installations
- Bars and Restaurants
- Speech reinforcement
- Transportation halls
- Houses of worship
- Critical environments
- Auditoriums
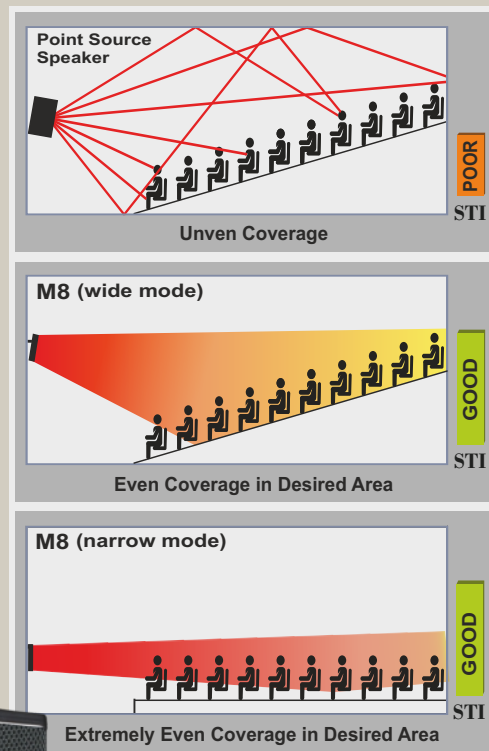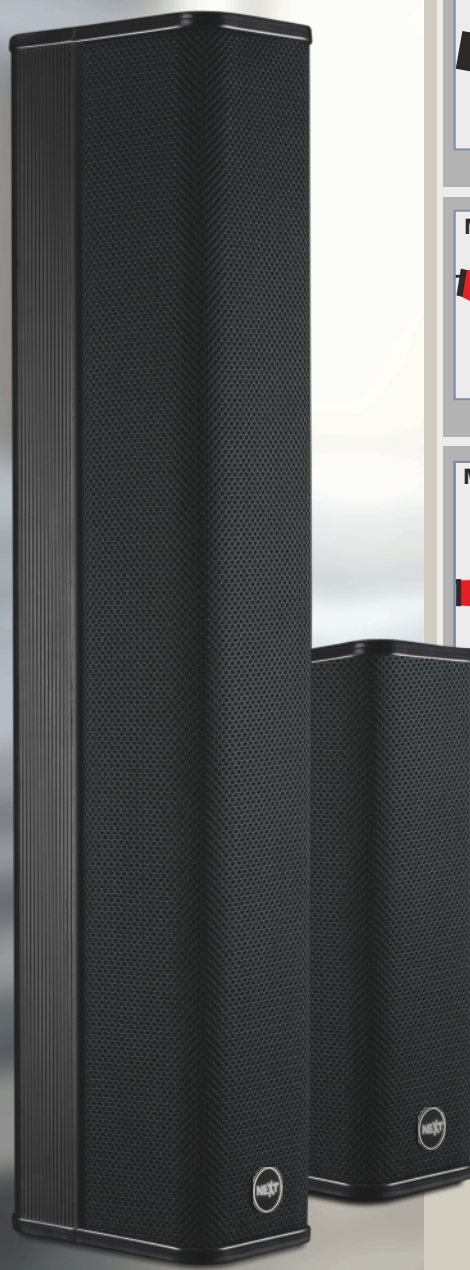- Main reinforcement in small spaces
- Nightclubs

Quality. Control. Elegance.

The MATRIX passive column arrays are composed of closely-spaced state of the art, 3" neodymium transducers housed in a stylish and yet sturdy aluminum/wood chassis for excellent Architectural Integration.

These speaker arrays have 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 by NEXT-proaudio engineers to provide much more consistent low frequency pattern control than other similar size systems.
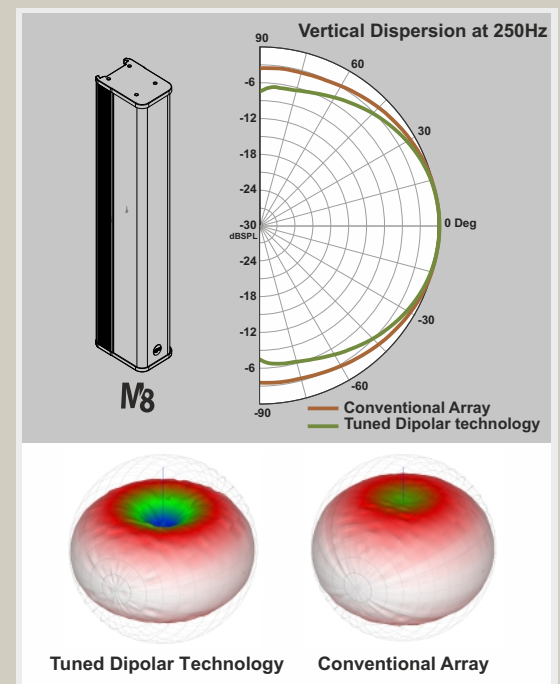
A user selectable Music / Vocal mode switch is incorporated to allow quick and easy system optimization. Music mode provides a flat, balanced frequency response, while Vocal mode adds a mid-range presence for enhanced speech intelligibility.

Point Source Speaker

POOR STI

Unven Coverage

M8 (wide mode)

GOOD STI

Even Coverage in Desired Area

M8 (narrow mode)

GOOD STI

Extremely Even Coverage in Desired Area

Focused on the audience...

NEXT MATRIX column arrays are 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.

Vertical Dispersion at 250Hz

M8

—— Conventional Array
—— Tuned Dipolar technology

Tuned Dipolar Technology   Conventional Array

Tuned Dipolar Technology...

Small conventional column loudspeakers arrays provide no significant vertical directivity control at lower frequencies due to their physical size.

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.
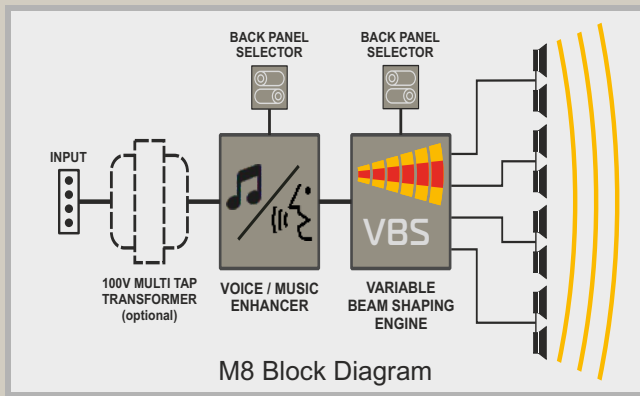
The control is yours...

The heart of the NEXT MATRIX column arrays is the internal processing board.

This proprietary special circuitry takes care of the array optimization and allows the user to easily adjust the system behavior to meet the application requirements.

M8 Block Diagram

Simple and discreet installation...

For an architectural integrated installation, a 16mm cavity in the back of the speaker provides ample space for hidden speaker wiring, even when the speaker is mounted flat against a wall.

Removable Input screw connector offers reliable, easier and more efficient wiring.

Several Mounting Solutions

Pole   Flat against the wall   Tilted

Full accessories...

A variety of accessories is available to provide linking, hanging, and wall or pole mounting.

For high-impedance (100V) operation, an optional multi tap transformer is available.
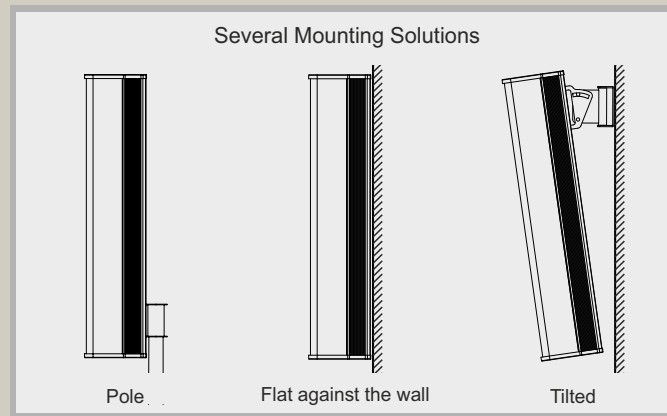
SPECIFICATIONS	M3	M8
Speaker Type:	Tuned Dipolar, Variable Beam Straight Line Array	
Drivers:	3 x 3" Custom Neodymium Speakers	8 x 3" Custom Neodymium Speakers
Freq. Resp. (-10 dB) [1]:	140Hz - 20kHz	135Hz - 20kHz
Eq. Optimization Mode:	Vocal or Music (User Selectable)	
Horizontal Coverage:	90º (+/-20º 1.5-5kHz)	
Vertical Coverage (Wide/Narrow) [2]:	40º(+/-10º 2-16kHz) / 15º(+/-10º 3-16kHz)	25º(+/-10º 1.2-16kHz) / 10º(+10º/-5º 1.5-16kHz)
Sensitivity (Vocal/Music) 1W/1m [2]:	96dB / 93dB (cont.)	100dB / 97dB (cont.)
Calc. Max SPL (Vocal/Music):	118.6dB / 115.6dB (cont.)	126.1dB / 123.1dB (cont.)
Program Power :	180W	480W
Nominal Impedance:	8Ω	8Ω
Recommended Amplifier:	MA900	MA1700
Recommended Subwoofer:	K12s, K12sA, HFA115s	HFA115s, HFA118sHP
Enclosure:	Aluminum / Wood / Steel / 3D Fabric	
Standard Enclosure Color:	Black or White	
Connectors:	4 Pins Screw Connector (IN/OUT)	
Dimensions (W x H x D):	108x296x152mm (4.25x11.65x5.98")	108x677x152mm (4.25x26.65x5.98")
Net Weight:	2.6kg (5.73lbs)	6.2kg (13.7lbs)
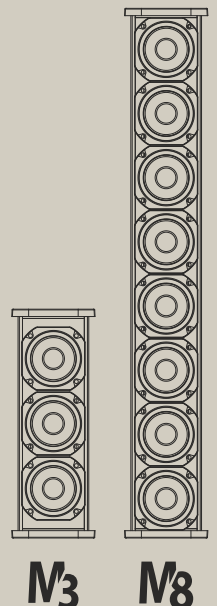
(1) With dedicated preset   (2) Mesured at 8m and scaled to 1m   Preliminary information

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Designed and manufactured in Portugal - European Community