

M-A9

PRODUCT FEATURES

- Self-powered column system Plug & Play setup
- Bluetooth® audio streaming
- Bluetooth® True Wireless Stereo (TWS)
- Multicell waveguide, optimized for near and far field
- Double SMPS, running in optimized phase mode for exceptional stability
- Low noise digital signal processing
- Aluminum column housing
- Polyurea coated plywood subwoofer cabinet

SPECIFICATIONS

ACOUSTICAL	
Frequency range (-3 dB) ¹	45 Hz - 17 kHz
Frequency range (-10 dB) ¹	35 Hz - 20 kHz
Coverage angles (-6 dB) [H x V]	130° x 20°
Maximum Peak SPL ²	141 dB
Continuous max. SPL ²	129 dB
System type	4-way, self-powered
Crossover frequency	LF: 150 Hz, LMF: 130 Hz to 400 Hz, MF: 130 Hz to 2.5 kHz, HF: 2.5 kHz
Transducers	1 x 18" woofer with 4" voice coil 12 x 3.5" low-mid driver with 1" voice coil 6 x 3.5" mid driver with 1" voice coil 4 x 0.5" compression driver with 1" voice coil
Enclosure type	Subwoofer: bass reflex cabinet Columns (LMF/MF): closed (sealed) cabinet Columns (HF): multicell waveguide
AMPLIFICATION	
Type	Class-D with SMPS
Total power ³	2000 W
Output power per channel ⁴	LF: 1000 W, LMF: 500 W, MF: 250 W, HF: 250 W
Protection	Short circuit, Overheating, Overcurrent, Limiter
Indicators	ON (green), SIGNAL (green), LIMIT (red), PROTECT (red), BT PAIRING (blue), BT-TWS (blue)
Connectors	Line input: 1x XLR female, balanced Line output: 1x XLR male, balanced, buffered Power connector: powerCON®
Wiring	Pin layout XLR: Pin 2: Signal+; Pin 3: Signal-; Pin 1: Shield Pin layout Pin layout powerCON®: Pin N: Neutral; Pin L: Conductor; Pin E: Earth, Ground
Operating voltage range	220-240 VAC, 6A; 100-120 VAC, 12A; 50/60 Hz; 1200 W max.
Input sensitivity	0 dBu
DSP	48 kHz/24 bit with extended dynamics Processing latency: 1.1 ms
Connectivity	Bluetooth® Version 5.0 Profile: A2DP v1.3.1 (SBC, aptX, aptXHD), AVRCP v1.6
Processing	Crossover, Limiter, EQ, Level, low noise AD/DA, SMPS controller
User controls	Power: On/Off switch System Level: Main Level; Subwoofer Level BT: Bluetooth® Pairing button TWS: Bluetooth® TWS Pairing button (pairing with second system for stereo Bluetooth®)

¹ Half space, -10 dBu / 7 m, SUB volume center position

² SPL / 1 m, half space, pink noise, 12 dB crest factor, *10dBu input level

³ Total power value is the sum of all individual channel output power

⁴ According to EIA-426B Standard

All product specifications are subject to change without prior notice.



PRODUCT DESCRIPTION

The M-A9 self-powered column speaker system with its elegant and unobtrusive design provides a reliable and impressive performance from low volume applications to the highest output levels at small and medium-sized venues.

The subwoofer features one 18" woofer in a vented polyurea coated plywood cabinet and serves as a stable base for the column. The aluminum column is split into two parts for easy transportation.

The column houses an array of twelve high efficiency 3.5" low-mid range drivers, six dedicated 3.5" mid range drivers and one multicell waveguide with four 0.5" compression drivers. The unique shape of the waveguide cells are optimized to cover near and far field at the same time. The system offers a wide horizontal dispersion, matching perfectly with the 3.5" speakers, to provide a homogeneous sound at all listening distances. The M-A9 column speaker system is powered by four amplifiers with two SMPS mounted on a specially designed aluminum die-cast heat sink for best heat management. The use of two SMPS increases continuous output power and keeps it stable even in very hot environment. The subwoofer level can be controlled separately from the system main volume. Proprietary DSP software controls all system parameters, as well as the low noise AD/DA-converter.

MECHANICAL	
Product dimensions [H x W x D] (incl. connector pins)	Subwoofer: 630 x 530 x 660 mm Top Column: 840 x 120 x 193 mm Lower Column: 811 x 120 x 180 mm Total system height: 2190 mm
Net weight	Subwoofer: 37.4 kg Top Column: 8 kg Lower Column: 9.3 kg Flight Case: 41.6 kg
Packaging dimensions [H x W x D]	Flight Case: 889 x 576 x 973
Total weight	54.7 kg
Transport weight	96.3 kg
Cabinet	Subwoofer: 12/15/21mm Plywood Columns: Aluminum Column covers and connectors: ABS, Nylon stainless steel
Cabinet finishing	Black polyurea coating; powder coating
Grille	Powder coated perforated steel
Hardware	2 embedded handles in cabinet, rubber feet
Rigging	4-point connector system
ACCESSORIES	
M-A9 TD	Transport Dolly
M-A9 FC	Flightcase
M-A9 RC	Rain cover
M-A9 TBC	Padded nylon transport bag for columns
M-A9 TBS	Padded nylon transport bag for subwoofer

PRODUCT DRAWINGS

