

MAILA® COL

4 × 6,5" POWERED COLUMN SPEAKER
+ POWER AMPLIFIER FOR UP TO EIGHT SATELLITES

LDsystems **LD**

FEATURES

- Powered column module with integrated loudspeakers and DSP power amplifier
- 4 × 6,5" woofers for extended low-mid headroom
- 4-channel DSP amplifier with SysCore® DSP and 2.5 kW total output power
- Frequency range: 105 – 500 Hz
- Flexible use in ground stack and flown setups
- SmartLink+® enables cable-free connection of column module and satellites (powering up to eight MAILA® SAT)
- LogoLink®: Wireless antennas integrated in the LD logo for wireless app connection
- DSP configuration directly on the device or via the free MAILA® app (iPadOS)

DESCRIPTION

The MAILA® COL full-range column module makes MAILA® truly versatile. With its 4 × 6,5" woofers, the elegant column element not only provides an extended low-mid range, but also includes a 4-channel DSP amplifier with 2.5 kW total power, which drives both the column itself and the MAILA® SAT satellites.

In this way, MAILA® sets with column module can not only be used as a ground stack variant, but also as a flown array consisting of MAILA® COL and up to eight MAILA® SAT – especially useful for festivals and fixed installations. In addition, as with a classic line array, users can select different subwoofer arrangements and adapt them to the sound reinforcement requirements on site.

On the ground, the use of MAILA® COL provides a further advantage: the interconnected column module allows ground stack sound setups that are significantly higher (up to 3.4 metres) than conventional systems and, with its greater throw, also enables uniform sound coverage in the far field.

With LogoLink®, LD Systems has added another innovation to MAILA®. Via the free MAILA® app (iPadOS), every MAILA® system can be quickly, easily and precisely adjusted and wirelessly supplied with software updates. Once connected, the app automatically recognises the existing MAILA® components and enables the system to be set up quickly and easily – including calculation of the SAT angles – in the run-up to an event. The highlight: the wireless antennas are invisibly integrated into the LD logo of the MAILA® COL.

SPECIFICATIONS

Product number	LDMAILACOL
General	
Product type	MAILA Column
Type	Powered
Low/mid Woofer dimensions	4 × 6,5"
Woofer dimensions (mm)	165.1 mm
Woofer magnet	Neodymium
Woofer brand	Custom-made
Woofer voice coil (inch)	2"
Woofer voice coil (mm)	50 mm



Product number	LDMAILACOL
Amplifier	Class D
System Power (RMS)	2500 W
Frequency response (-6 dB)	105 Hz – 500 Hz
Max. SPL Peak (Pink noise)	130 dB (fullspace @1m, Crest factor 4)
Max. SPL Peak (Sine burst)	125,4 dB (fullspace @1m, 10% THD)
Max. SPL Average (Sine burst)	122 dB (100 Hz – 2 kHz, fullspace @1m, 10% THD)
Protection circuits	Limiter, over-current, thermal overload
Input impedance	20000 Ohm(s)
Controls	Rotary/push encoder
Indicators	Indication LED, LC display, Limit, Power, Protect, Signal
Line inputs	1
Line input connectors	XLR
Line outputs	1
Line output connectors	XLR
Speaker output connections	SmartLink+®
Wireless Connectivity	LogoLink® for App Control
Power supply	SMPS
Power consumption (max.)	800 W
Operating voltage	100 V AC – 240 V AC / 50 – 60 Hz
Operating Temperature	0 – 40 °C

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Product number	LDMAILACOL
Relative Humidity	< 80 %, not condensing
Cabinet material	Aluminium
Cabinet surface	Powder-coated
Cabinet construction	Bass Reflex
Mounting	3 × M10, 4 × Pin, EasyMount+®
Handles	2

Product number	LDMAILACOL
Width	205 mm
Height	1028 mm
Depth	354 mm
Weight	36.195 kg
DSP characteristics	
Bit depth AD/DA converter	24 Bit
Sampling frequency	48 kHz

ARCHITECT & ENGINEER'S SPECIFICATIONS

The loudspeaker column module shall be designed to integrate seamlessly with other compatible components. It shall have a 105 Hz to 500 Hz frequency response and an average SPL of 122 dB.

The module shall feature a robust column-style enclosure, housing four high-performance 6.5-inch woofers. The column module shall be powered by an integrated 4-channel Class D DSP amplifier with a total power output of 2.5 kW, capable of driving both the column itself and up to 8 connected, compatible, satellite modules.

The column module shall support multiple configurations, including use in a ground stack setup or as a flown array.

The column's design shall enable ground stack configurations with a total height of up to 3.4 meters.

The column shall feature integrated DSP with wireless control capability with an app. The app shall allow for quick, precise setup and real-time adjustments to the sound system, including automatic detection of all connected, compatible components and the calculation of optimal satellite angles for flown configurations.

The column speaker shall employ a cable-free connection between compatible components. The link shall deliver the low-mid as well as the tweeter audio-signals separately via robust aluminium rails and shall support automatic or manual DSP processing by detecting the installed satellite/column configuration.

The loudspeaker shall be 1028 × 205 × 354 mm (HWD) and should have a weight of no more than 36.2 kg.

Power input is 100–240 V AC with a maximum consumption of 800 W. Connection is via a PowerCON TRUE1.

Audio input shall be via a lockable female 3-pin XLR, with output on a male 3-pin XLR.

The unit shall be the LD Systems MAILA® COL, or an approved equivalent. The MAILA® COL unit can be combined with other MAILA® modules to build a complete, customizable modular intelligent line array system.

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TECHNICAL DRAWING

Scale 1 : 10

