

MAILA® SUB

2 × 15" POWERED BANDPASS PA SUBWOOFER

LDsystems LD®

FEATURES

- 2 × 15" high power bandpass subwoofer
- Integrated 2-channel DSP amplifier with SysCore® DSP and 2.5 kW total output power
- Bandpass design with symmetrical driver construction
- Frequency range: 33 Hz – depending on the selected preset
- Cardioid presets for reduced rear sound radiation
- 2 × docking plate for vertical and horizontal setup with MAILA® SPA (M20) or MAILA® COL
- Four bass reflex ports for optimum cooling in horizontal and vertical setup
- LogoLink®: Wireless antennas integrated in the LD logo for wireless app connection
- DSP configuration directly on the device or via the free MAILA® app (iOS/Android)
- Optional: MAILA® SUB CB castor board and protective cover for easy & safe transport

DESCRIPTION

MAILA® SUB forms the basis of every MAILA® system. The 2.5 kW 2 × 15" high-performance subwoofer features a bandpass design and, with its newly developed SysCore® DSP, delivers a massive and powerful bass foundation in any application.

The acoustic concept of the MAILA® SUB is based on a planar wave bandpass design with quarter-wave horn and symmetrical driver construction. By placing the two 15" speakers opposite each other, the MAILA® SUB enables exceptional impulse compensation, resulting in a powerful and precise low-frequency punch.

The four large-area bass reflex openings, in conjunction with the enclosure design, ensure optimised airflow and reduced flow losses, resulting not only in a lower noise level, but above all in higher efficiency at low frequencies.

The enclosure of the subwoofer is made of 18 mm thick birch plywood. The MAILA® SUB defies the rigours of everyday road use with a hard-wearing polyurea paint finish. A total of six carrying handles ensure optimum grip during assembly and dismantling. For comfortable transport on longer trips, the optional MAILA® SUB CB castor board is the optimal choice.

With LogoLink®, LD Systems has added another innovation to MAILA®. Via the free MAILA® app (iOS/Android), 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® SUB.

SPECIFICATIONS

Product number	LDMAILASUB
General	
Product type	MAILA Subwoofer
Type	Powered
Low/mid Woofer dimensions	2 × 15"
Woofer dimensions (mm)	2 × 381 mm



Product number	LDMAILASUB
Woofer magnet	Neodymium
Woofer brand	Custom-made
Woofer voice coil (inch)	4"
Woofer voice coil (mm)	100 mm
Amplifier	Class D
System Power (RMS)	2500 W
Frequency response (-6 dB)	33 Hz – Preset
Max. SPL Peak (Pink noise)	137 dB (halfspace @1m, Crest factor 4)
Max. SPL Average (Sine burst)	132 dB (50 Hz – 120 Hz, halfspace @1m, 10% THD)
Protection circuits	Limiter, over-current, thermal overload
Input impedance	20000 Ohm(s)
Controls	On / off switch, 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
Wireless Connectivity	LogoLink® for App Control
Power supply	SMPS
Power consumption (max.)	1300 W
Operating voltage	100 V – 240 V AC / 50 – 60 Hz
Operating temperature	0 – 40 °C

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Product number	LDMAILASUB
Relative Humidity	< 80 %, not condensing
Cabinet material	18 mm Birch Plywood
Cabinet surface	Polyurea
Cabinet construction	Quarter Wave Horn Bandpass
Handles	6
Width	540 mm
Height	934 mm

Product number	LDMAILASUB
Depth	803 mm
Weight	89.8 kg
DSP characteristics	
Bit depth AD/DA converter	24 Bit
Sampling frequency	48 kHz

ARCHITECT & ENGINEER´S SPECIFICATIONS

The subwoofer module shall be engineered to integrate with other compatible components, including satellite speakers, column modules, and amplifier modules. The module shall operate down to 33 Hz with an average SPL of 126 dB.

The subwoofer shall feature a dual 15-inch high-performance driver configuration housed within a rugged enclosure constructed from 18 mm thick birch plywood. The enclosure shall be finished with a hard-wearing polyurea paint. The subwoofer shall include a total of six ergonomically placed carrying handles.

The acoustic design of the subwoofer shall be based on a planar wave bandpass concept, incorporating a quarter-wave horn and a symmetrical driver layout. The subwoofer shall include four large-area bass reflex ports.

The MAILA[®] SUB shall be powered by an integrated 2.5 kW Class D amplifier with built-in DSP.

The subwoofer module shall be equipped with wireless control and monitoring via a free app. The app shall allow for quick and precise system setup, real-time adjustments, and software updates. Once connected, the app shall automatically recognize all existing compatible components for configuration of the entire system, including the calculation of optimal satellite angles for flown configurations.

The subwoofer shall be 935 × 540 × 803 mm (HWD) and should have a weight of not more than 90 kg.

Power input shall be 100 – 240 V AC with a maximum consumption of 1300 W. Connection shall be via a PowerCON TRUE1 with a looping output connector also available.

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[®] SUB, or an approved equivalent. The MAILA[®] SUB 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: 20

