

HD1501

The Mackie HD1501 15-inch powered subwoofer provides intense low-frequency extension and punch to any Mackie full-range system.

The ultra-portable HD1501 High-Definition Powered Subwoofer delivers 1200W of peak system power via Class-D Fast Recovery™ amplification. Class-D amp design delivers up to 95% efficiency and, along with the lightweight switch-mode power supply, drastically reduces this subwoofer's weight.

EAW custom-designed HD Series transducers maximize efficiency and performance when matched with the system's internal amp. The 15-inch woofer uses a ferrite magnet with a 3-inch voice coil.

Premium circuitry includes a symmetrical Linkwitz-Riley crossover, precision tuning filters and user-friendly features such as high pass outputs for stereo operation with a single sub.

The lightweight and portable 15mm birch plywood enclosures feature a ported, direct-radiating design. The professional look of the HD1501 may be further enhanced by defeating the front panel LED. The integrated pole-cup accommodates a standard mounting pole. Pair the HD1501 with any Mackie full-range loudspeaker for an extremely powerful and fully high-definition PA solution.

APPLICATIONS

Small to mid-size club/band PA systems, houses of worship, DJs, rehearsal spaces, gymnasiums, banquet halls, A/V rentals and many, many more.



FEATURES:

- 15" High-Definition Powered Subwoofer System
- 600W RMS / 1200W peak of efficient Class-D Fast Recovery™ amplification
- 15" woofer with 3" voice coil custom designed by EAW
- High-definition audio processing includes:
 - Symmetrical Linkwitz-Riley crossover (100 Hz, 24 dB/octave)
 - Precision tuning filters for accurate bass reproduction
 - Phase alignment to perfectly complement Mackie full-range loudspeakers
- Ported, direct-radiating design for maximum punch and low-frequency extension
- Dual XLR inputs, full-range and high-pass outputs for mono or stereo setups
- Integrated limiting and protection circuitry
- Compact and lightweight (80.0 lb / 36.4 kg)
- Rugged all wood cabinet (15mm birch plywood)
- Pole mount receptacle for mounting full-range loudspeaker

HD1501 SPECIFICATIONS

Acoustic Performance

Frequency Response (-10 dB)	36 Hz - 145 Hz
Frequency Response (-3 dB)	43 Hz - 92 Hz
Max SPL peak (calculated) ¹	131 dB
Max SPL peak (measured) ²	126 dB

¹ Calculated from peak driver sensitivity and amplifier power, half space.

² Measured with swept sine at 1 W within operating range, scaled for max power, half space.

Transducer

Diameter	15.0 in / 381 mm
Voice Coil Diameter	3.0 in / 76 mm
Diaphragm Material	Paper
Magnet Material	Ferrite

Power Amplifier

Rated Power	600 watts rms 1200 watts peak
Rated THD	< 0.03%
Cooling	Active, twin thermally controlled vari-speed fans
Design	Class D

Input / Output

Input Type	Female XLR Balanced differential (stereo left / right)
Input Impedance	20 k Ω balanced
Full Range Output	Male XLR Balanced (parallel with input)
High Pass Output	Male XLR Balanced
Output Impedance	300 Ω
Level Control	-6 dB to +6 dB

Electronic Crossover

Crossover Type	24 dB / oct. Symmetrical Linkwitz-Riley
Crossover Frequency	100 Hz

Protection Features

Over-excursion Protection	45 Hz 24 dB / oct. Butterworth High Pass Filter
Thermal Protection	Amplifier mute, auto reset, twin thermally controlled vari-speed fans
Driver Protection	Peak / RMS Limiter
Display LEDs	Power Light ON, Polarity Invert, Thermal, Sig / Limit, Front Power ON
Operating Temperature	0° - 40° C 32° - 104° F

AC Power Requirements

US	100 - 120 VAC, 50 - 60 Hz 300 watts
EU, CN	220 - 240 VAC, 50 - 60 Hz 300 watts
AC Connector	3-pin IEC 250 VAC 15 A male

Construction Features

Basic Design	Rectangular
Material	15 mm exterior grade premium birch plywood
Finish	High durability black paint
Handles	One on each side
Grille	Powder-coated galvanized steel

Physical Properties (packaged product)

Height	21.7 in / 551 mm
Width	23.2 in / 589 mm
Depth	29.9 in / 759 mm
Shipping Weight	88.0 lb / 39.9 kg

Physical Properties (product)

Height	20.0 in / 508 mm
Width	18.25 in / 464 mm
Depth	25.0 in / 635 mm
Weight	80.0 lb / 36.4 kg

Mounting Methods

Floor mount only
WARNING: The cabinet has no rigging points and is not suitable for rigging. **NEVER** attempt to suspend the HD1501 by its handles.

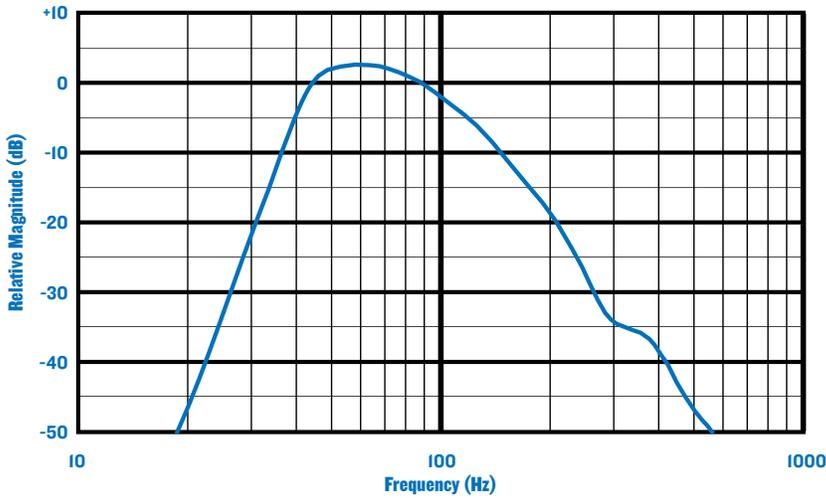
Options

SPM200 Loudspeaker Pole Mount	P/N 2035170-01
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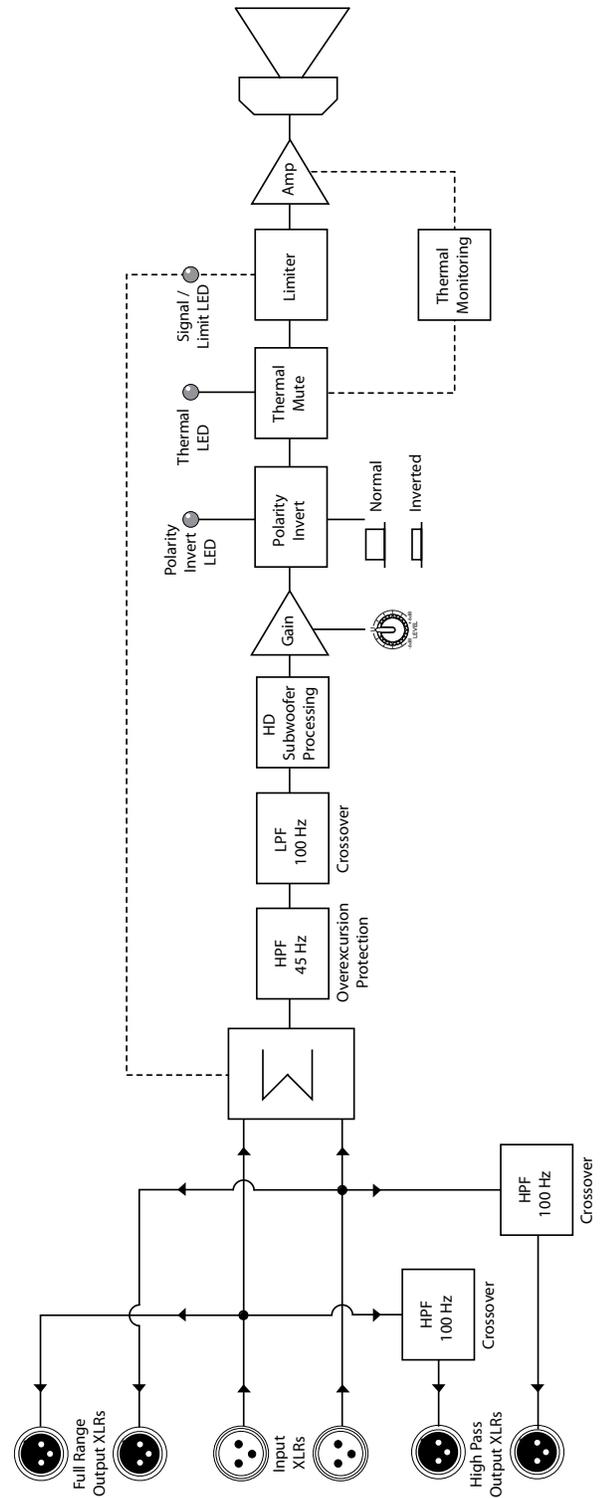
Ordering Information

HD1501 15" High Definition Powered Subwoofer, US	P/N 0033234-00
HD1501 15" High Definition Powered Subwoofer, EU	P/N 0033234-01
HD1501 15" High Definition Powered Subwoofer, CN	P/N 0033234-05

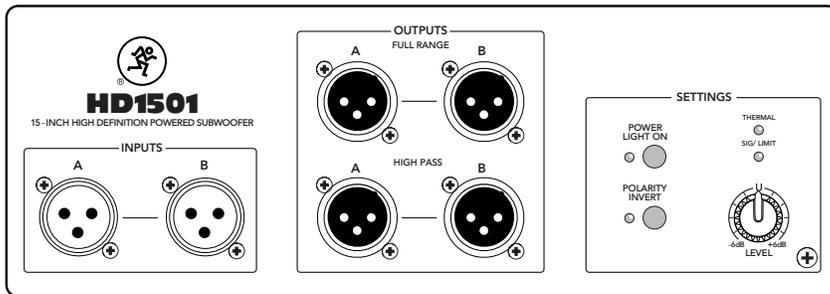
HD1501 FREQUENCY RESPONSE



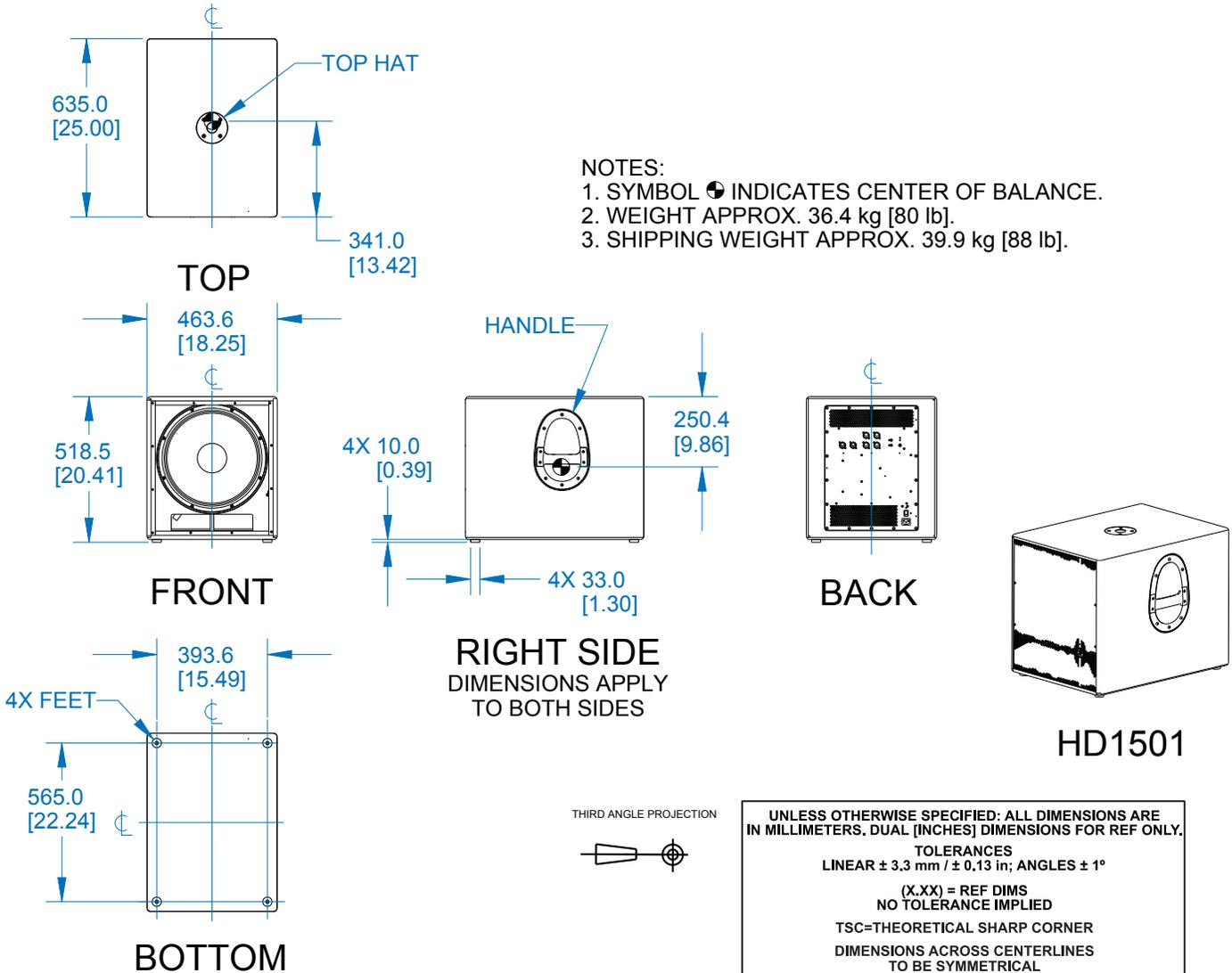
HD1501 BLOCK DIAGRAM



HD1501 INPUT PANEL



HD1501 DIMENSIONS



Electronic files for this product are available at:

www.mackie.com

Specification Sheet

HD1501_SS.PDF

Owner's Manual

HD1501_OM.PDF

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