MACKE.

TH-15A

POWERED LOUDSPEAKER

TH-15A

The Mackie TH-15A is a full-range, portable, powered loudspeaker system providing high-output, ultra-wide dispersion and low-distortion performance in a compact, lightweight design. Two Fast Recovery™ amplifiers independently power a 15-inch neodymium woofer and a precision 1-inch compression driver. Mackie's sophisticated Active electronics provide phase correction, crossover, time correction, equalization and protection circuitry.

Mackie-designed Active electronics provide a host of processing designed to enhance the performance of the TH-15A. Equalization, crossover, and time alignment are working at all times to improve sonic performance. Protective circuitry includes over-excursion protection, thermal protection shutdown, auto reset, and driver protection, including independent HF and LF compressors.

The TH-15A features a number of dedicated controls including an EQ on/off switch, a 3-band EQ/contour section, and a single microphone and line input level control.

The center of gravity, handle locations, handle design, and ease of use have been ergonomically designed. There is also an integrated pole mount cup and a weather-resistant steel grille. The trapezoidal cabinet has been designed to provide an ideal floor monitoring position.

The cabinet is constructed of high-pressure injected polypropylene. The enclosure features reinforcement ribbing and structural strengthening resulting in a strong, super-rigid design providing ideal acoustical characteristics.



FEATURES:

- 2-way bi-amplified, optimized powered loudspeaker system
- 400W peak of ultra-efficient Fast Recovery[™] amplification
 - LF 300W peak power (Class-D)
 - HF 100W peak power (Class-A/B)
- High-output transducers
 - 15" high-precision woofer
 - 1" compression driver
- Mackie Active electronics provide total system optimization
 - Precision 2-way crossover
 - · Transducer time-alignment
- User-adjustable 3-band contour EQ with sweepable mid-frequency
- Mic/Line input for direct connection of a microphone or mixer output
- Tough, impact-resistant polypropylene enclosure
- Pole-mountable and floor wedge-able
- Extremely lightweight and portable (36 lb / 16.3 kg)

APPLICATIONS

Small club/band PA systems, houses of worship, DJs, vocal/band monitor wedges, gymnasiums, banquet halls, conference rooms and many, many more.

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TH-15A SPECIFICATIONS

		Down	E	
ACO	ustic	reri	forma	ınce

Frequency Response (–10 dB)	40 Hz - 20 kHz
Frequency Response (–3 dB)	50 Hz - 18.5 kHz
Horizontal Coverage Angle	90°
Vertical Coverage Angle	60°
Max SPL long-term	118 dB @ 1 m
Max SPL peak	121 dB @ 1 m

Input / Output

Female XLR Balanced/Unbalanced
20 k Ω balanced bridging; 10 k Ω unbalanced
Male XLR Balanced/Unbalanced (parallel with input)
Rotating knob 0 dB at center
+4 dBu for full output (Level Control @ Center) -36 dBu for full output (Level Control @ Max)

Transducers

Low Frequency	15 in / 381 mm with steel frame,
	paper cone woofer
High Frequency	Horn-loaded 1 in / 25 mm exit
	compression driver

Power Amplifiers

Low Frequency Power Am	plifier
Rated Power	150 watts, 8 Ω load
	300 watts peak
Signal-to-Noise Ratio	-94 dB, 20 Hz to 20 kHz, unweighted,
	referenced to 138 watts into 8Ω
Design	BTL Class D
High Frequency Power Am	plifier
Rated Power	50 watts, 4 Ω load
	100 watts peak
Signal-to-Noise Ratio	-97 dB, 20 Hz to 20 kHz, unweighted,

Electronic Crossover

Crossover Type	24 dB / octave
Crossover Frequency	3 kHz

referenced to 50 watts into $4\Omega\,$

Class AB

Equalization

Design

Low	±15 dB @ 80 Hz
Mid	±15 dB sweep 100 Hz-8 kHz
High	±15 dB @ 12 kHz
Direct/EQ Switch	Bypasses EQ section

Protection Features

Over-excursion Protection	Second-order sub-sonic filter
Thermal Protection	Independent amplifier shutdown, auto reset
Driver Protection	Independent HF and LF compressors

AC Power Requirements

US	100 - 120 VAC, 50 - 60 Hz 320 watts
EU, CN	200 - 240 VAC, 50 - 60 Hz 320 watts
AC Connector	3-pin IEC 250 VAC, 20 A male

Construction Features

Basic Design	Trapezoidal
Material	Polypropylene
Finish	Textured
Handles	One on each side, one on top
Grille	Perforated metal with weather-resistant coating
Display LEDs Front Rear	Power ON Power ON, OL (overload)
Operating Temp	oerature 0° - 40°C 32° - 104°F

Physical Properties (packaged product)

Height	29.0 in / 737 mm
Width	17.5 in / 445 mm
Depth	17.0 in / 432 mm
Shipping Weight	39.0 lb / 17.7 kg

Physical Properties (product)

Height	27.6 in / 702 mm
Width	16.8 in / 427 mm
Depth	15.5 in / 394 mm
Weight	36.0 lb / 16.3 kg

Mounting Methods

Pole-mountable via the built-in socket on the bottom of the cabinet. Be sure the pole is capable of supporting the weight of the TH-15A.

Ontions

SPM200 Loudspeaker Pole Mount P/N 2035170-01

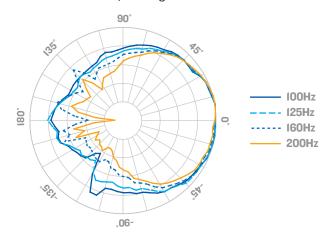
Ordering Information

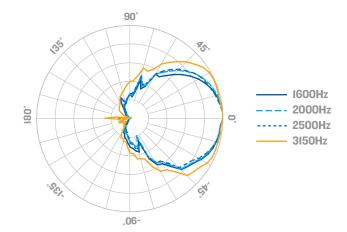
TH-15A 15" 2-way Compact SR Loudspeaker, US	3
	P/N 2034164-00
TH-15A 15" 2-way Compact SR Loudspeaker, EL	J
	P/N 2034164-01
TH-15A 15" 2-way Compact SR Loudspeaker, CN	J
	P/N 2034164-05

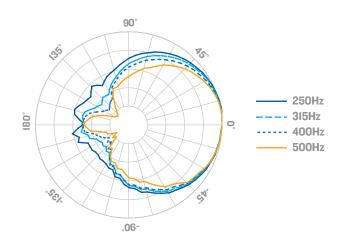
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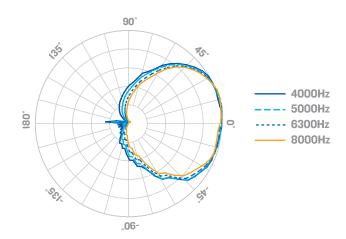
TH-15A HORIZONTAL POLARS

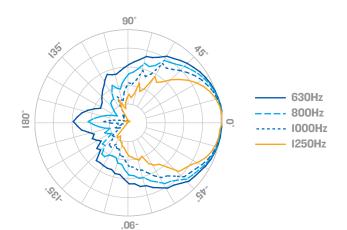
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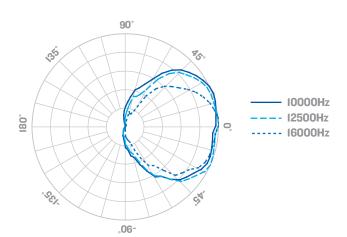








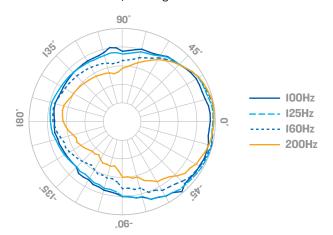


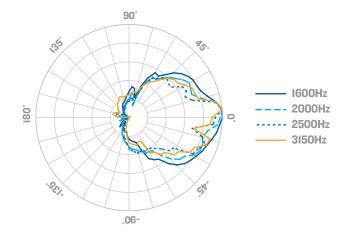


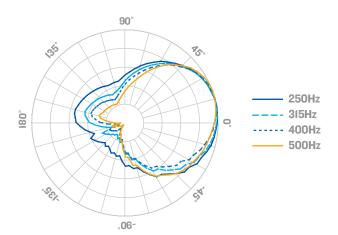
MACKIE®.

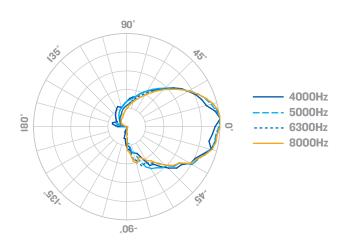
TH-15A VERTICAL POLARS

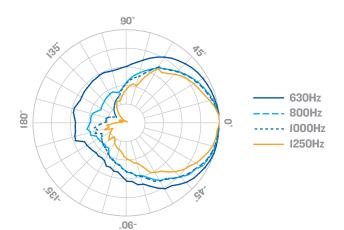
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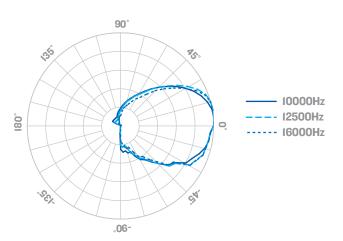








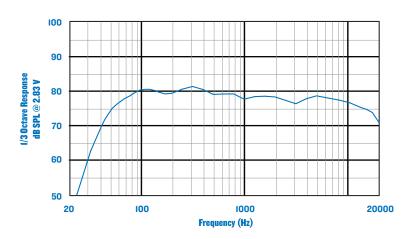




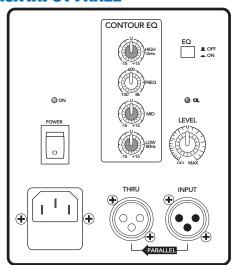
TH-15A

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TH-15A FREQUENCY RESPONSE



TH-15A INPUT PANEL



TH-15A DIMENSIONS

NOTES:

- 1. WEIGHT APPROX. 36.0 lb [16.3 kg].
- 2. SHIPPING WEIGHT APPROX. 39.0 lb [17.7 kg].

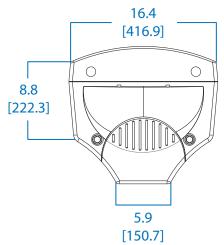
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. DUAL [MM] DIMENSIONS FOR REF ONLY

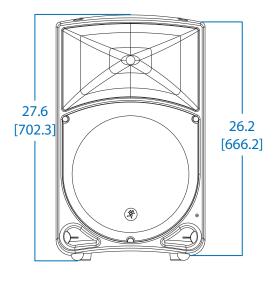
TOLERANCES LINEAR ± 0.13 in./ ± 3.3mm; ANGLES ± 1°

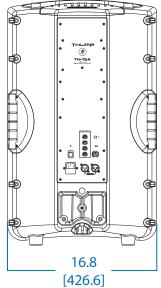
> (X.XX) = REF DIMS NO TOLERANCE IMPLIED

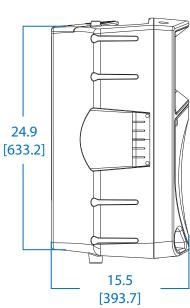
TSC=THEORETICAL SHARP CORNER

DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL

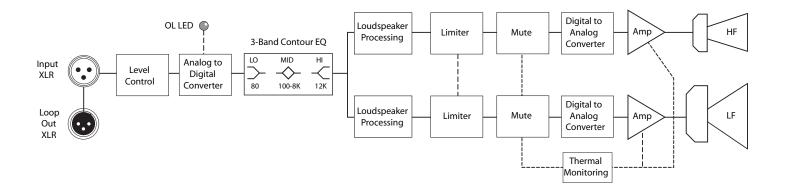








TH-15A BLOCK DIAGRAM



Electronic files for this product are available at: www.mackie.com

Specification Sheet	TH-15A_SS.PDF
Owner's Manual	TH-15A_OM.PDF

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