MACKE.

TH-12A

POWERED LOUDSPEAKER

TH-12A

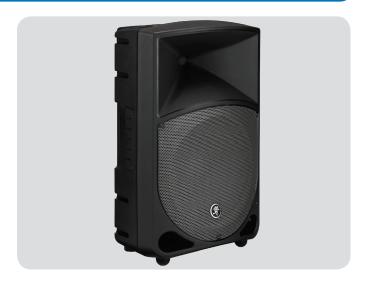
The Mackie TH-12A is a full-range, portable, powered loudspeaker system providing high-output, ultra-wide dispersion and low-distortion performance in a compact, lightweight design. Two Fast Recovery™ amplifiers independently power a 12-inch neodymium woofer and a precision 1-inch compression driver. 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-12A. 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-12A 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
 - 12" 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 (25.5 lb / 11.6 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-12A SPECIFICATIONS

Acoustic Performance

Frequency Response (–10 dB)	57 Hz - 20 kHz
Frequency Response (-3 dB)	70 Hz - 18.5 kHz
Horizontal Coverage Angle	90°
Vertical Coverage Angle	60°
Max SPL long-term	112 dB @ 1 m
Max SPL peak	115 dB @ 1 m

Input / Output

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

Transducers

Low Frequency	12 in / 305 mm with steel frame,
	paper cone woofer
High Frequency	Horn-loaded 1 in / 25 mm exit,
	compression driver

Power Amplifiers

olifier
150 watts, 8 Ω load
300 watts peak
>94 dB, 20 Hz to 20 kHz, unweighted,
referenced to 138 watts into 8 Ω
BTL Class D
plifier
50 watts, 4 Ω load
100 watts peak
>97 dB, 20 Hz to 20 kHz, unweighted,
referenced to 50 watts into 4 Ω
Class AB

Electronic Crossover

Crossover Type	24 dB / octave
Crossover Frequency	3 kHz

Equalization

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
	320W
EU	200 - 240 VAC, 50 - 60 Hz
	320W
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	Power ON
Rear	Power ON, OL (overload)
Operating Temp	erature 0° - 40°C
	32° - 104°F

Physical Properties (packaged product)

in / 635 mm	jht
in / 386 mm	th
in / 335 mm	th
lb / 13.7 kg	pping Weight
_	ping Weight

Physical Properties (product)

Height	23.5 in / 596 mm
Width	14.5 in / 367 mm
Depth	12.4 in / 314 mm
Net Weight	25.5 lb / 11.6 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-12A.

Options

SPM200 Loudspeaker Pole Mount P/N 203

Ordering Information

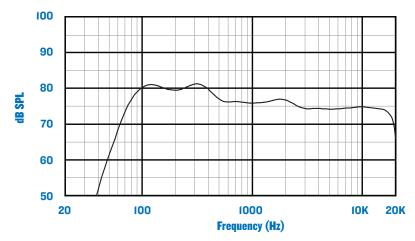
TH-12A 12" 2-Way Compact SR Loudspeaker, US		
	P/N 2035672-00	
TH-12A 12" 2-Way Compact SR Loudspeaker, EU		
	P/N 2035672-01	

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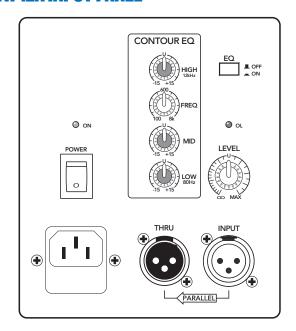
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TH-12A FREQUENCY RESPONSE



TH-12A INPUT PANEL



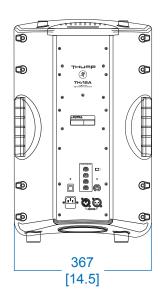
TH-12A DIMENSIONS

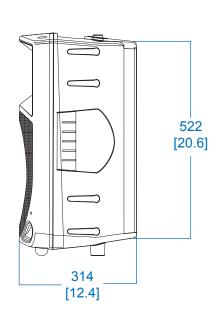


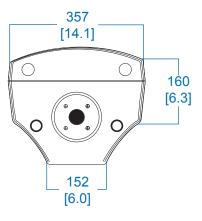
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN MILLIMETERS. DUAL [INCHES] DIMENSIONS FOR REF ONLY. TOLERANCES
LINEAR ± 3.3 mm / ± 0.13 in; ANGLES ± 1° (X.XX) = REF DIMS NO TOLERANCE IMPLIED TSC=THEORETICAL SHARP CORNER DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL

NOTES:

- 1. WEIGHT APPROX. 11.6 kg [25.5 lb] 2. SHIPPING WEIGHT APPROX. 13.7 kg [30.2 lb]







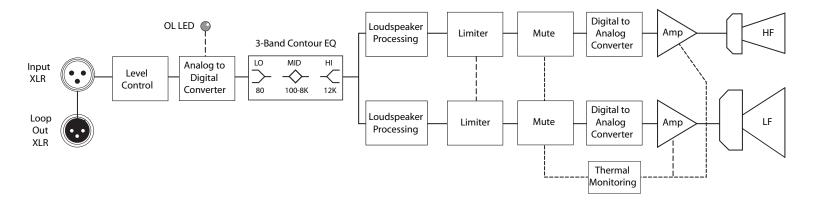


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TH-12A BLOCK DIAGRAM



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Part No. SW0892 Rev. A 01/II

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

Specification Sheet	TH-12A_SS.PDF
Owner's Manual	TH-12A_OM.PDF

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