

DLM8 and DLM12

The Mackie DLM8 and DLM12 each deliver 2000 watts into the most compact, professional portable loudspeaker design ever. Featuring TruSource™ technology, the DLM loudspeakers are equipped with Mackie's TruSource driver that incorporates the high-output 8" [DLM8] and 12" [DLM12] woofer and 1.75" compression driver into an incredibly compact common-magnet design. Powerful TruSource DSP delivers seamless clarity, consistent dispersion and unmatched fidelity.

These versatile loudspeakers feature the Mackie DL2 integrated digital mixer, providing a dual-channel mixing solution for a wide array of possible connections with incredible channel features like 3-band EQ and 16 great-sounding effects. Plus, system processing like a multi-band feedback destroyer, six speaker modes and Smart Protect technology provide the tools needed for truly professional applications.

With configuration options that include pole / wall mounting and flying, the sleek DLM loudspeakers are a powerful solution for high-end installs. The ultra-compact form factor includes a rugged PC-ABS cabinet, powder-coated grille and integrated kickstand for personal monitor use.

The new shape of sound – Mackie DLM8 and DLM12.

FEATURES:

■ 2000W power via ultra-efficient Class-D amplification

■ TruSource™ technology

- Mackie designed, vertically-aligned, common-magnet TruSource driver
 - 8" LF woofer / 1.75" HF driver [DLM8]
 - 12" LF woofer / 1.75" HF driver [DLM12]
 - Incredibly compact, lightweight design
- Powerful TruSource DSP delivers seamless clarity, consistent dispersion and unmatched fidelity



■ DL2 Integrated Digital Mixer

- Powerful, one-touch digital mixer with bright OLED screen
- Two highly-versatile input channels with FX
 - Independent channel level, 3-band EQ and effects control
 - 16 great-sounding effects include reverb, chorus and delay
 - XLR / TRS combo and dual RCA connectors
 - Handles mic, line, stereo and instrument signals
- Unmatched system control for professional applications
 - Multi-band feedback destroyer
 - Six speaker modes deliver the perfect voicing for your application
 - Alignment delay up to 300ms for delay stack, balcony, etc.
 - Three memory locations for instant venue setting recall
 - Smart Protect DSP dynamically protects amp / driver

■ Innovative ultra-compact design

- 1/3 smaller than a traditional 2-way design
- Fit an entire DLM system in nearly any car
- Stack them up for storage
- Pole-mountable on tripod or atop DLM12S using SPM300 speaker pole
- Flyable via standard M10 rigging hardware
- Wall-mount them using SWM300 articulated arm for stealthy, powerful install system
- Roadworthy PC-ABS cabinet with pro black finish and ergonomic top carry handle
- Rugged, powder-coated 20 gauge steel grille
- Integrated kickstand delivers the perfect angle for personal monitor use
- Ridiculously lightweight
 - 22 lb / 10 kg [DLM8]
 - 31 lb / 14.1 kg [DLM12]



DLM8 & DLM12

2000W
Powered Loudspeakers

DLM8/I2 LOUDSPEAKER SPECIFICATIONS

Acoustic Performance

Frequency Response (-10 dB)	65 Hz – 20 kHz [DLM8] 38 Hz – 20 kHz [DLM12]
Max peak SPL (@ 1m calculated) ¹	125 dB [DLM8] 128 dB [DLM12]
Crossover Point	1.6 kHz
Dispersion	90° conical

Equalization

Low Shelving	±15 dB @ 80 Hz
Mid-Peaking	±15 dB @ 2.5 kHz
High Shelving	±15 dB @ 12 kHz
Increments	±3 dB

High-Frequency Section

Voice Coil Diameter	1.75 in / 44 mm
Horn Entry Diameter	1.0 in / 25 mm
Diaphragm Material	Polyimide Film
Magnet Material	Ferrite

Low-Frequency Section

Woofer Diameter	8.0 in / 203 mm [DLM8] 12.0 in / 305 mm [DLM12]
Voice Coil Diameter	2.0 in / 51 mm [DLM8] 2.5 in / 64 mm [DLM12]
Diaphragm Material	Paper
Magnet Material	Ferrite

Power Amplifiers

System Power Amplification	
Rated Power	1000 watts rms 2000 watts peak

Low Frequency Power Amplifier

Rated Power	500 watts rms 1000 watts peak
Rated THD	< 1 %
Cooling	Multi-speed fan
Design	Class D

High Frequency Power Amplifier

Rated Power	500 watts rms 1000 watts peak
Rated THD	< 1 %
Cooling	Multi-speed fan
Design	Class D

DL2 Digital Mixer System Processing

EQ	Six speaker modes
Alignment Delay	0-300 ms
FX	16 presets
Multi-band feedback destroyer	On / Off / Clear / Hold
Memory	Three locations for instant venue setting recall and factory reset

Input / Output

Channel 1	
Mic	3.3 k Ω balanced
Line	20 k Ω balanced 10 k Ω unbalanced
1/4" TRS	16 k Ω balanced 8 k Ω unbalanced

Channel 2	
XLR Line	20 k Ω balanced 10 k Ω unbalanced
1/4" TRS [Hi-Z instrument]	1 M Ω unbalanced
RCA	25 k Ω unbalanced

Thru	Male XLR balanced
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¹ Calculated from driver sensitivity and amplifier power.



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DLM8/I2 LOUDSPEAKER SPECIFICATIONS CONT...

Power

US detachable line cord	100 – 120 VAC, 50 – 60 Hz, 250W
EU detachable line cord	220 – 240 VAC, 50 – 60 Hz, 250W
AC Connector	3-pin IEC 250 VAC
Operating Temperature	0 - 40 °C
[extended ambient temperature]	32 - 104 °F

Safety Features

Input Protection	Peak and RMS limiting, power supply and amplifier thermal protection
Display LEDs	Defeatable front power ON, Front load power limiter
Status Info	Power supply voltage, Core temperature

Construction Features

Cabinet	PC-ABS [High-strength]
Finish	High durability black paint
Handles	One on top
Grille	Powder-coated 20 gauge steel
Fly Points	Three M10 x 17 mm
Monitor Angle	50° (using integrated kickstand)

Mounting Methods

Floor mount, pole mount, wall mount or fly via three integrated M10 mounting points (using M10 x 17 mm forged shoulder eyebolts).

Physical Properties (packaged product)

DLM8	
Height	16.0 in / 406 mm
Depth	16.0 in / 406 mm
Width	16.5 in / 419 mm
Weight	26 lb / 11.8 kg

DLM12

Height	19.3 in / 490 mm
Depth	20.0 in / 508 mm
Width	20.5 in / 521 mm
Weight	37 lb / 16.8 kg

Physical Properties (product)

DLM8	
Height	12.3 in / 313 mm
Depth	11.9 in / 302 mm
Width	12.1 in / 307 mm
Weight	22 lb / 10 kg

DLM12

Height	15.9 in / 403 mm
Depth	14.3 in / 363 mm
Width	15.3 in / 389 mm
Weight	31 lb / 14.1 kg

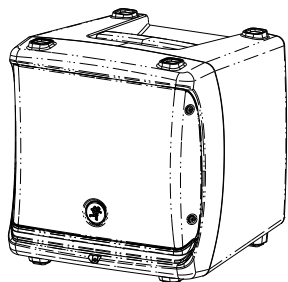
Options

PA-A3 Forged Shoulder Eyebolt Kit (3 x M10 x 17 mm)	P/N 2036960
SPM300 Loudspeaker Pole Mount	P/N 2036970
SWM300 Swivel Wall Mount	P/N 2034990
DLM8 Loudspeaker Bag	P/N 2036809-19
DLM12 Loudspeaker Bag	P/N 2036809-20

Ordering Information

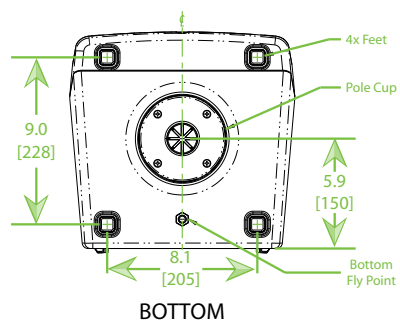
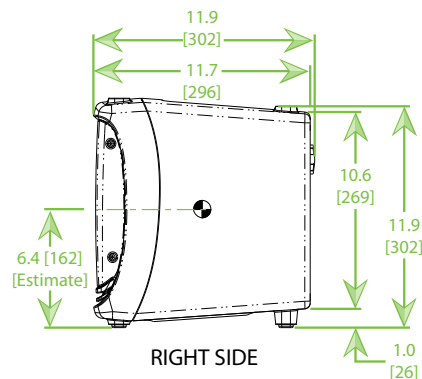
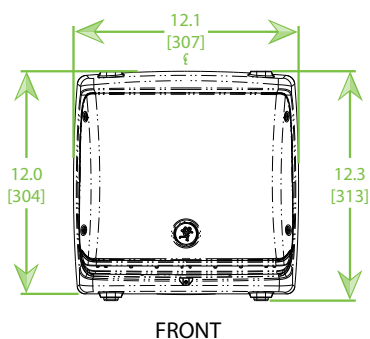
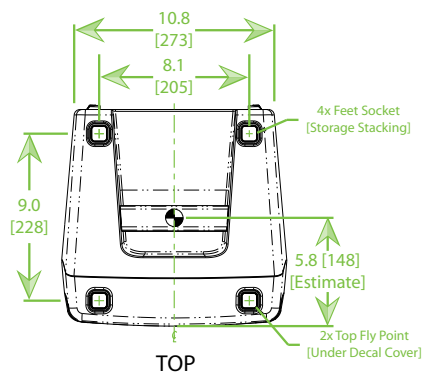
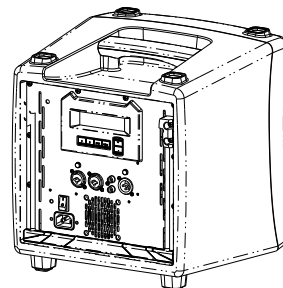
DLM8 2000W 8" Powered Loudspeaker, US	P/N 2037869-00
DLM8 2000W 8" Powered Loudspeaker, EU	P/N 2037869-01
DLM12 2000W 12" Powered Loudspeaker, US	P/N 2037875-00
DLM12 2000W 12" Powered Loudspeaker, EU	P/N 2037875-01

DLM8 LOUDSPEAKER DIMENSIONS

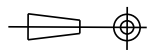


NOTES:

1. SYMBOL  INDICATES CENTER OF BALANCE.
2. WEIGHT APPROX. 22 lb [10 kg].
3. SHIPPING WEIGHT APPROX. 26 lb [11.8 kg].



THIRD ANGLE PROJECTION



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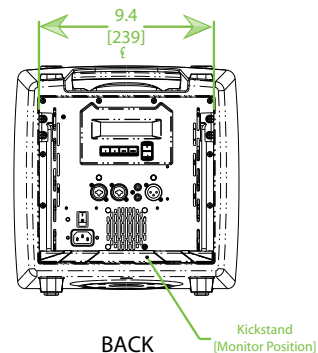
UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES
DUAL [MM] DIMENSIONS
FOR REF ONLY

TOLERANCE IN INCHES
LINEAR ± 0.13 in / ± 3.3 mm
ANGLES $\pm 1^\circ$

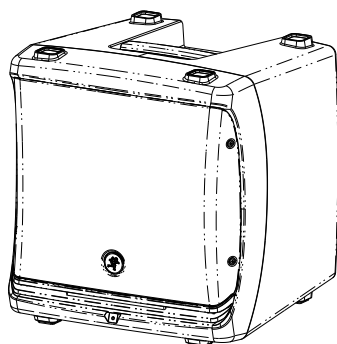
(X.XX) = REF DIMS
NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER

DIMENSIONS ACROSS CENTERLINES
TO BE SYMMETRICAL

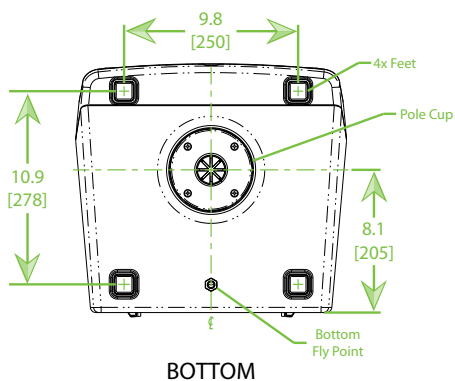
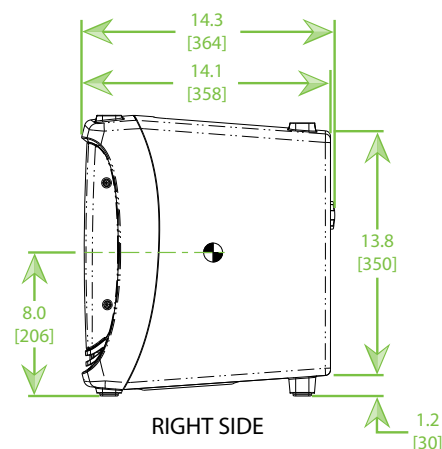
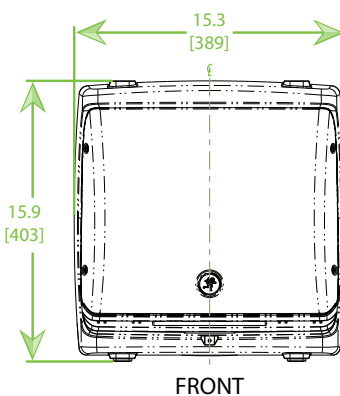
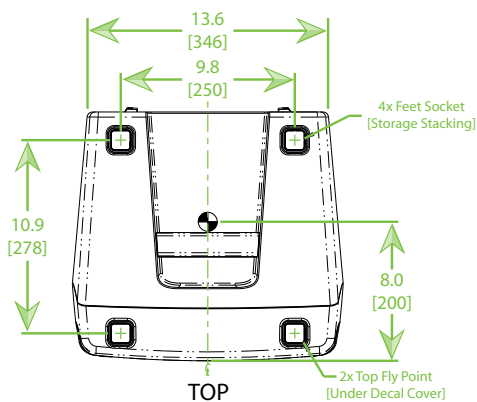
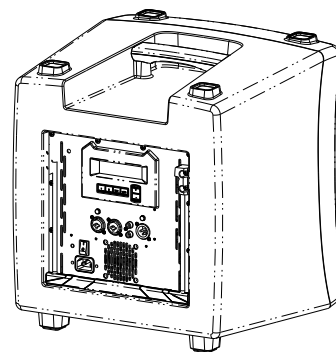


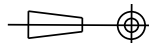
DLM12 LOUDSPEAKER DIMENSIONS

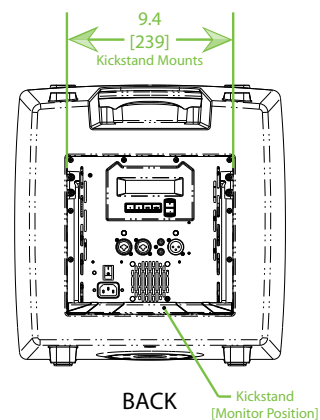


NOTES:

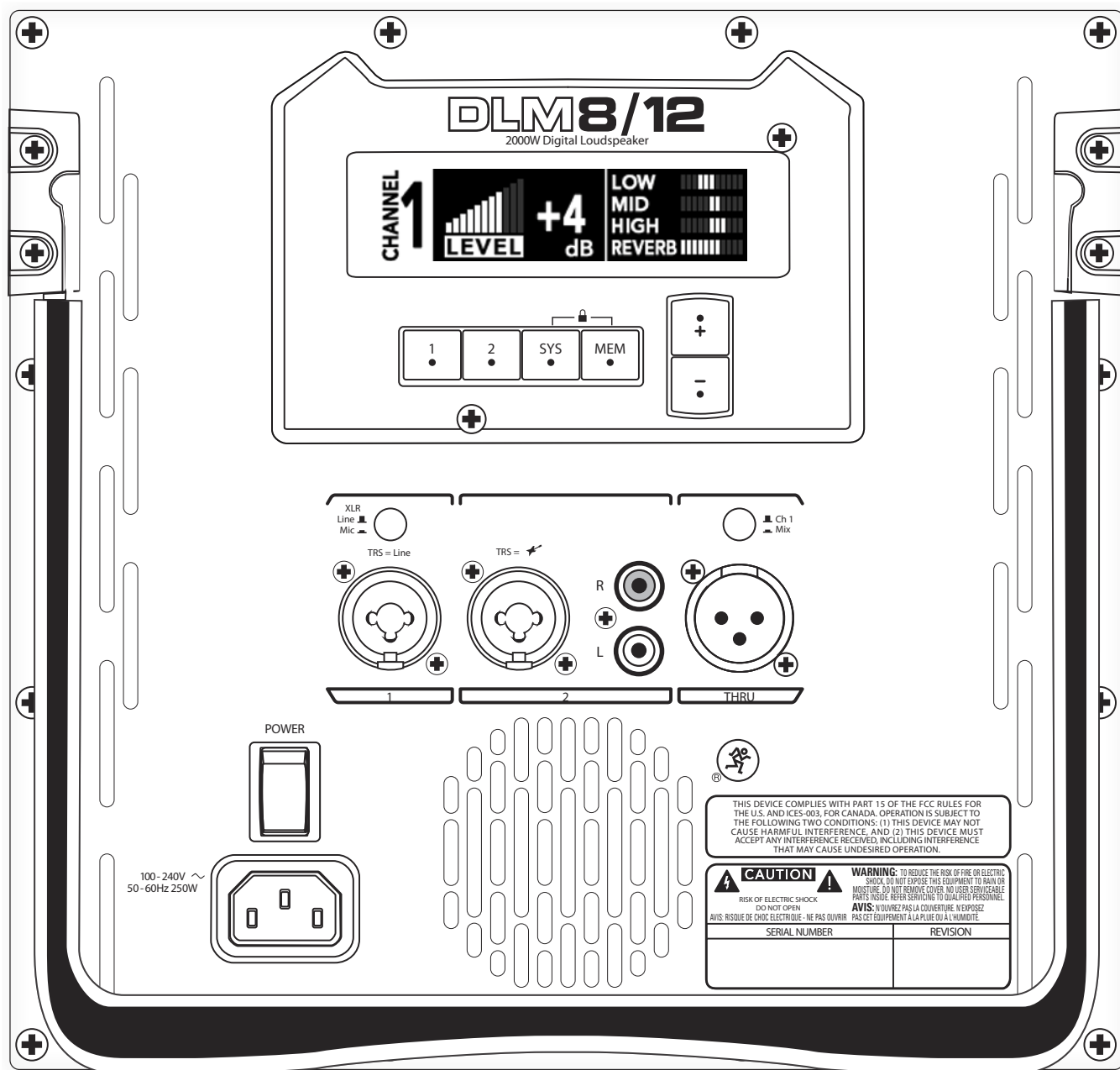
1. SYMBOL  INDICATES CENTER OF BALANCE.
2. WEIGHT APPROX. 31 lb [14.1 kg].
3. SHIPPING WEIGHT APPROX. 37 lb [16.8 kg].



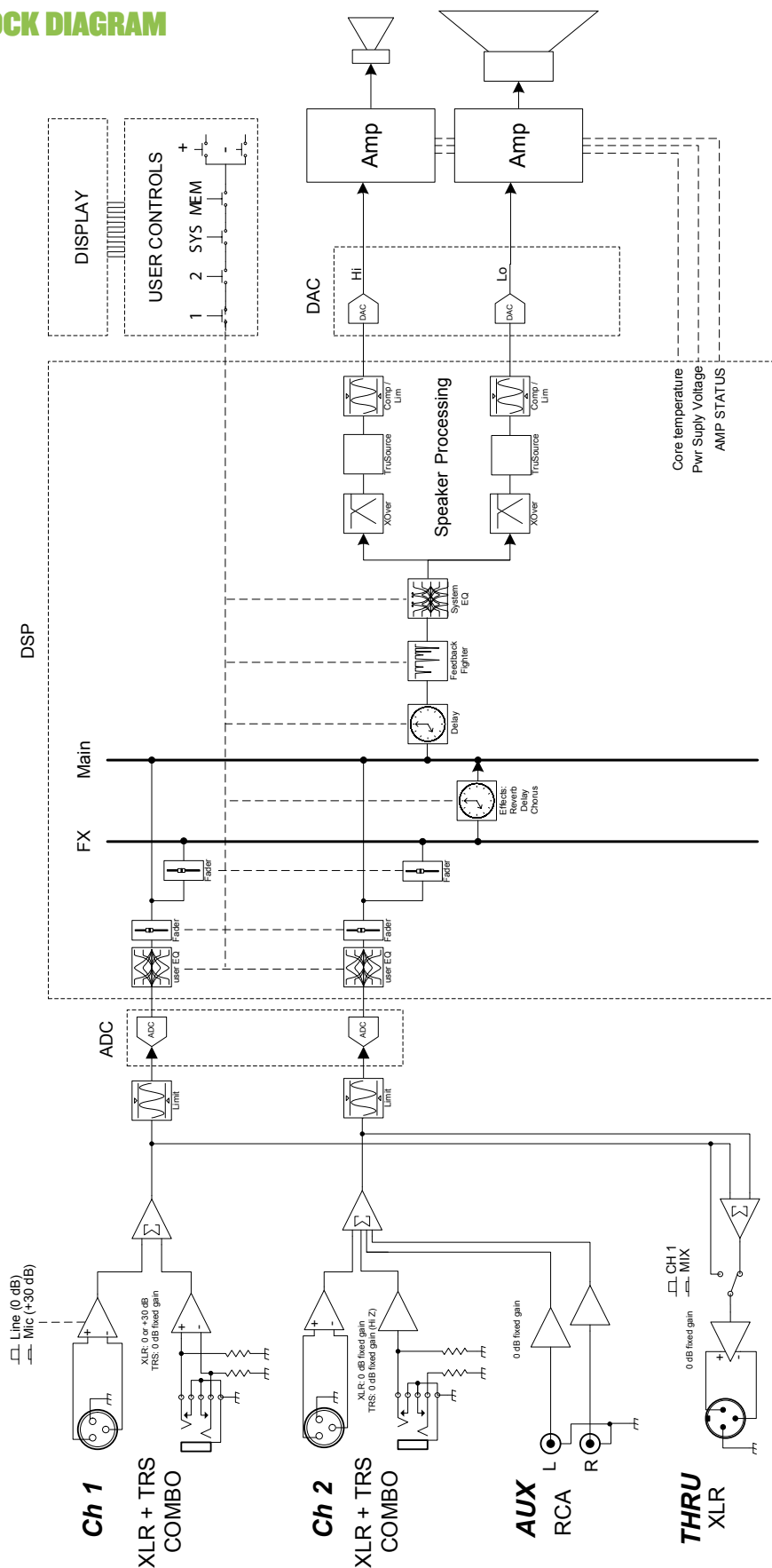
THIRD ANGLE PROJECTION 	UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES DUAL [MM] DIMENSIONS FOR REF ONLY TOLERANCE IN INCHES LINEAR ± 0.13 in / ± 3.3 mm ANGLES $\pm 1^\circ$ (X.XX) = REF DIMS NO TOLERANCE IMPLIED TSC = THEORETICAL SHARP CORNER DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL
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DLM8/I2 LOUDSPEAKER REAR PANEL

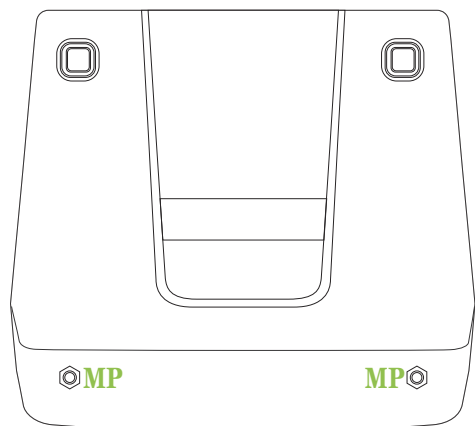


DLM8/12 BLOCK DIAGRAM



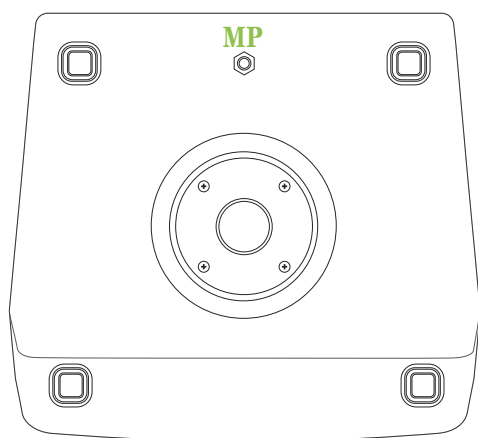
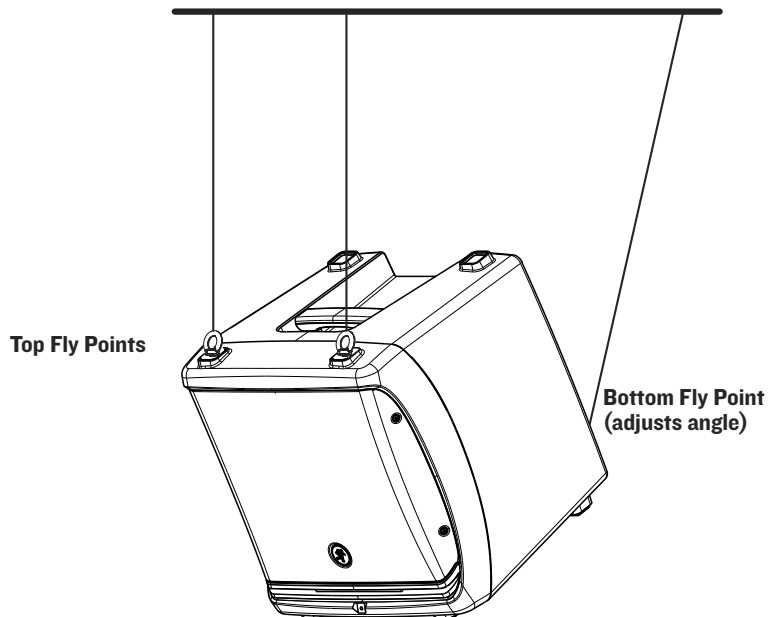
3 DLM8/12 FLY POINTS

MP = Mounting Point



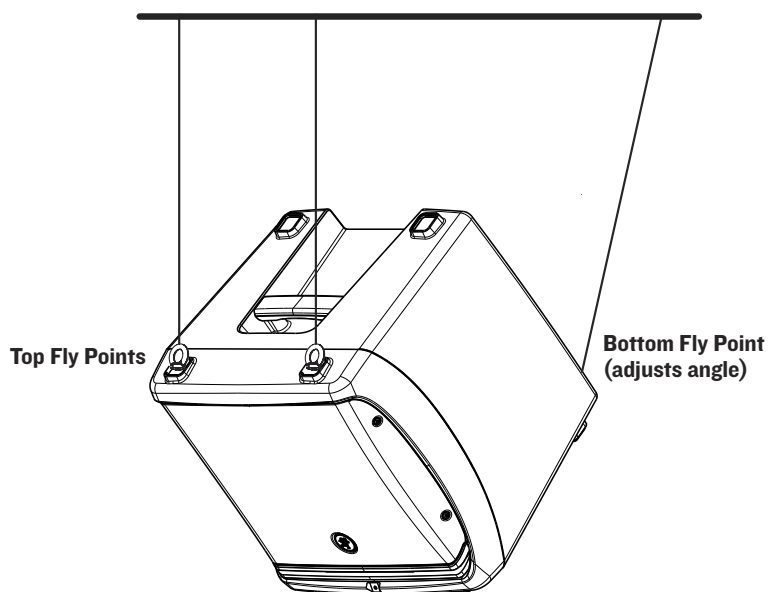
TOP

FLOWN AT A 30° ANGLE



BOTTOM

FLOWN AT A 45° ANGLE





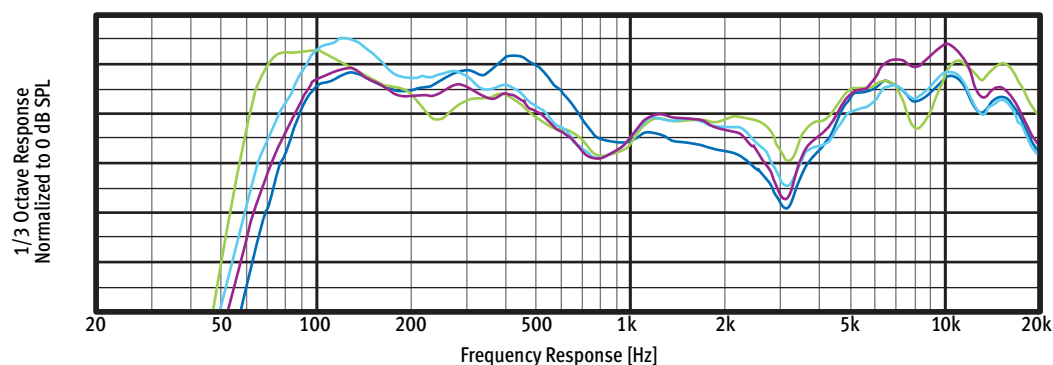
DLM8 & DLM12

2000W
Powered Loudspeakers

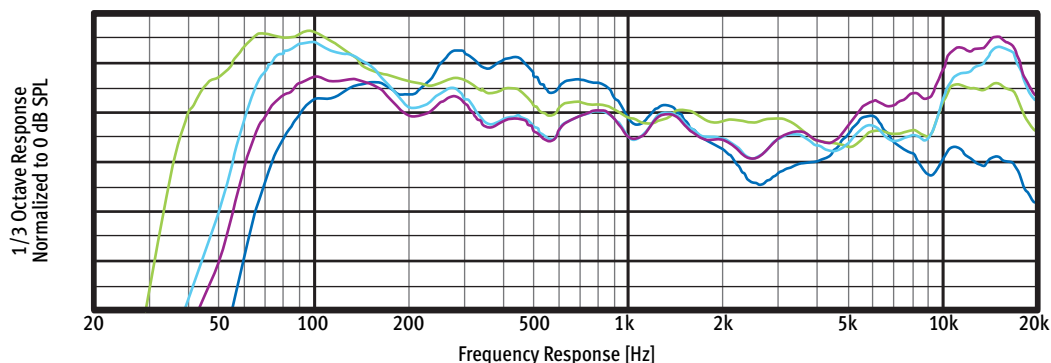
DLM LOUDSPEAKER FREQUENCY RESPONSE LEGEND

- **PA Speaker Mode** – This mode is full range, but focuses on mid-range clarity where vocals often reside.
- **Soloist Speaker Mode** – This mode features a low frequency roll-off to get rid of unwanted thumps and adds boost and sparkle to mid-range and high frequencies. This mode is perfect for plug-and-play singer-songwriters.
- **DJ Speaker Mode** – This mode bumps the lows and highs with a mild tuck to the mids, perfect for music playback.
- **Monitor Speaker Mode** – This mode features a low frequency roll-off and a reduction around 2 kHz to ensure maximum gain before feedback in monitor applications.

DLM8 LOUDSPEAKER FREQUENCY RESPONSE



DLM12 LOUDSPEAKER FREQUENCY RESPONSE



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

Specification Sheet

DLM Loudspeaker_SS.PDF

Owner's Manual

DLM Loudspeaker_OM.PDF



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Part No. SW0958 Rev. A 12/12

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