



INTRODUCTION:

Proven at millions of gigs worldwide, the Mackie DL Series combines the power of a full-featured digital live sound mixer with the unmatched ease-of-use of an iPad.

The 16-channel DL1608 features premium hardware like boutique-quality Onyx preamps and Cirrus Logic® converters delivering unparalleled sound quality.

Mackie's class-leading Master Fader control software provides seamless wired-to-wireless control over an amazing amount of professional-grade processing for all inputs and outputs.

Plus, you can control it all wirelessly from up to 10 iOS devices. Truly the ideal digital mixer for bands, rental houses and production/installation, you get all the benefits of a next-gen console and more at an incredible price with the Mackie DL1608.

FEATURES:

- 16-Channel Digital Live Sound Mixer
 - 16 Onyx™ mic preamps
 - Eight balanced outputs
 - High-end Cirrus Logic® converters
 - Ultra low-noise, high-headroom design
 - Seamless wired-to-wireless digital mixing

- Wireless mixing
 - Complete control from your iPad*
 - No set FOH position – mix from anywhere
 - Personal monitor mixing via iPad®, iPhone® or iPod touch®
 - Supports up to 10 iOS devices at once
 - Multiple engineers can work from a single mixer
 - Ditch the snake – place the mixer anywhere

- Fully-Loaded DSP
 - 18 input channels with 4-band PEQ + HPF, gate and compression
 - o 16 stereo-linkable input channels
 - o Two stereo-linkable iPad return channels**
 - 12 output busses with 4-band PEQ + HPF/LPF, 31-band GEQ, comp/limiter and alignment delay
 - o Six stereo-linkable aux sends
 - o Four stereo-linkable subgroups**
 - o Main L/R busses
 - Four VCAs and four mute groups
 - Two stereo FX processors with dedicated sends and returns
 - Modern and Vintage options per processor
 - Choice of powerful, touch-sensitive modern and vintage plug-ins

- Master Fader Control App
 - Intuitive and easy to master
 - Fast navigation with view groups and overview
 - Quick setup with tons of factory and user-definable presets
 - Record a 2-channel mix directly to the iPad
 - Integrate music from any app into the mix
 - Access limiting prevents unwanted adjustments
 - Complete offline operation
 - Easy and frequent updates via App Store

- Ready for the Road or Install
 - Rugged, portable desktop design
 - PadLock™ feature locks down iPad for permanent installs
 - Rackmountable with optional kit
 - Industry standard Kensington lock secures mixer
 - Locking power connector
 - Lightning and 30-pin versions available

*Excludes preamp gain control/recording and playback requires docked operation.

**iPad return channels and subgroups feature PEQ and compression.

Wi-Fi router required for wireless operation. Wi-Fi router and iPad, iPhone or iPod touch not included.

See *Supported Devices* on page 3 for complete compatibility information.



Like us



Follow us



Watch our dang videos



DL1608

Digital Live Sound Mixer with iPad® Control

DL1608 SPECIFICATIONS

General Digital

Sample Rate:	48 kHz
A/D/A Bit Depth:	24-bit
System Latency:	1.5 ms

Frequency Response

All inputs to all outputs:	±0, -1 dB, 20 Hz to 20 kHz
----------------------------	----------------------------

Distortion (THD)

Mic input to main output, 1 kHz, -1 dBFS:	<0.005%
---	---------

Noise / Dynamic Range / Signal-to-Noise Ratio

Equivalent Input Noise (EIN)	
150 Ω termination:	-128 dBu
Mic input to main output (A-weighted)	
Channel and main faders at unity:	-79 dBu
Faders down:	-90 dBu
Crosstalk	
Adjacent inputs:	<-120 dB @ 1 kHz
Outputs:	<-105 dB @ 1 kHz
Phones level pot feedthrough @ minimum travel:	<-75 dB
Signal-to-Noise Ratio (ref +4 dBu, one channel and main fader at unity, A-weighted):	
	92 dB
Dynamic Range (One channel and main fader at unity, A-weighted):	
	109 dB
CMRR:	>70 dB @ 1 kHz (60 dB gain)

Analog Inputs 1-16

Connectors	
1-12:	XLR Balanced
13-16:	Combo XLR / TRS Balanced
XLR Mic Pre:	Onyx
Input Impedance	
1-12:	3 kΩ
13-16:	3 kΩ mic [XLR] 30 kΩ line [1/4"]
Max Input Level	
XLR:	+21 dBu
1/4":	+30 dBu
Gain	
XLR:	0 to 60 dB
1/4":	-20 to 40 dB
48V Phantom Power (XLR):	48 VDC, 10 mA max per mic, with up to eight simultaneously. 5 mA max per mic, with up to 16 simultaneously.

Analog Main Out L/R

Connectors:	XLR Balanced
Output Impedance:	600 Ω
Max Output Level:	+21 dBu

Analog Aux Sends 1-6

Connectors:	1/4" TRS Impedance Balanced (Supports balanced / unbalanced operation)
Output Impedance:	240 Ω Balanced 120 Ω Unbalanced
Max Output Level:	+21 dBu

Analog Headphone Out

Connector:	1/4" TRS Stereo
Max Output Level:	+18 dBu into 600 Ω +19.5 dBu max into 100 Ω

Networking

Connector:	100 MB Ethernet
Control:	Complete
Simultaneous Control:	10 iOS Devices



DL1608

Digital Live Sound Mixer
with iPad® Control

DL1608 SPECIFICATIONS CONTINUED...

Supported Devices

iOS Version Requirement: For optimal performance, we suggest using the latest iOS version [iOS 7.1 minimum]

iPad Version Requirement¹

Wired [Lightning Connector]: iPad (4th generation)², iPad mini³, iPad Air⁴ and iPad Air 2⁴

Wired [30-pin Connector]: iPad 2², iPad (3rd generation)²

Wireless: iPad 2, iPad (3rd generation), iPad (4th generation), iPad mini, iPad mini 2, iPad mini 3, iPad mini retina, iPad Air, iPad Air 2, Future iPad devices⁵

iPhone / iPod touch Version Requirement

Wireless: iPhone 4, iPhone 4S, iPhone 5, iPhone 5s, iPhone 5c, iPhone 6, iPhone 6 Plus, iPod touch (5th generation), Future iPhone and iPod touch devices⁵

Control Application: [Latest Mackie Master Fader App⁶](#)
[Latest Mackie My Fader App⁷](#)
For optimal performance and latest feature set, we suggest using the latest Master Fader / My Fader app
[Mackie Master Fader Classic App⁸](#)
[Mackie My Fader Classic App⁹](#)

DSP

18 input channels with 4-band PEQ + HPF, gate and compression
16 stereo-linkable input channels
2 stereo-linkable iPad channels (PEQ and compression only)

12 output busses with 4-band PEQ + HPF/LPF, 31-band GEQ, comp/limiter and alignment delay
6 stereo-linkable aux sends
4 stereo-linkable subgroups (PEQ and compression only)
Main L/R busses

4 VCAs and 4 mute groups

2 stereo FX processors (1 reverb, 1 delay) with dedicated sends and returns

Modern and Vintage options per processor

¹ The DL1608 also works with the original iPad (wired and wirelessly), BUT only with Master Fader V2.1.1 (or less).

² The iPad 2, iPad (3rd generation) and iPad (4th generation) require an iPad 2-3-4 tray for wired connections.

³ The iPad mini requires an iPad mini tray for wired connections. iPad mini trays sold separately.

⁴ The iPad Air and iPad Air 2 require an iPad Air tray for wired connections. iPad Air trays sold separately.

⁵ This assumes, of course, that future iOS devices do not communicate via infrared, radiation, television, sparklers, hoagies, frickin' laser beams, or some other crazy, fandangled new contraption. Even then, we'll still give it the 'ol college try. After all, we do have sharks at the ready.

⁶ <https://itunes.apple.com/us/app/mackie-master-fader/id511500747?mt=8>

⁷ <https://itunes.apple.com/us/app/mackie-my-fader-3/id963966072?mt=8>

⁸ <https://itunes.apple.com/us/app/mackie-master-fader-classic/id949977364?mt=8>

⁹ <https://itunes.apple.com/us/app/mackie-my-fader/id599029732?mt=8>

Power

Power Consumption:	48 watts max
External Supply	
Power Requirements:	100 VAC – 240 VAC, 50 – 60 Hz Universal Supply
Output Voltage:	12 VDC
Current:	4A
DC Connector:	5.5 mm x 2.5 mm barrel with locking ring
Line Cord:	User-replaceable IEC
Operating Temperature	0 - 40 °C
[extended ambient temperature]:	32 - 104 °F

Physical Properties (packaged product)

Height:	6.1 in / 155 mm
Depth:	18.9 in / 480 mm
Width:	18.1 in / 460 mm
Weight:	12.8 lb / 5.8 kg

Physical Properties (product)

Height (Front):	1.6 in / 40 mm
Height (Rear):	3.7 in / 95 mm
Depth:	15.4 in / 391 mm
Width:	11.5 in / 291 mm
Weight:	7.9 lb / 3.6 kg
Rack:	Nine Rack Spaces [Needs an additional space or two above to allow for connections]

Options

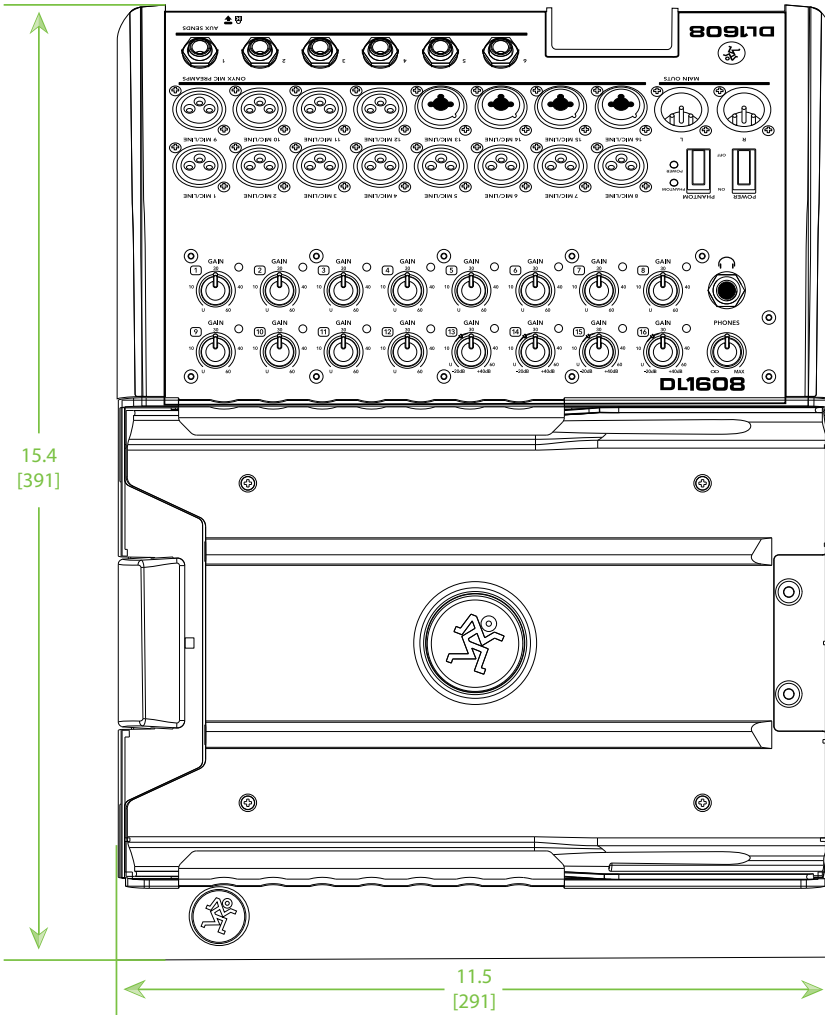
DL1608 Rackmount Kit:	P/N 2036840
DL1608 Mixer Bag:	P/N 2036809-16
DL1608 Mixer Cover:	P/N 2036809-17

Ordering Information

30-Pin Connector DL1608 Digital Live Sound Mixer with iPad Control	
US:	P/N 2037372-00
EU:	P/N 2037372-01
CN:	P/N 2037372-05
BZ (~120V):	P/N 2037372-06

Lightning Connector DL1608 Digital Live Sound Mixer with iPad Control	
US:	P/N 2042505-00
EU:	P/N 2044387-01
UK:	P/N 2044387-03
CN:	P/N 2044387-05
BZ (~120V):	P/N 2044387-06

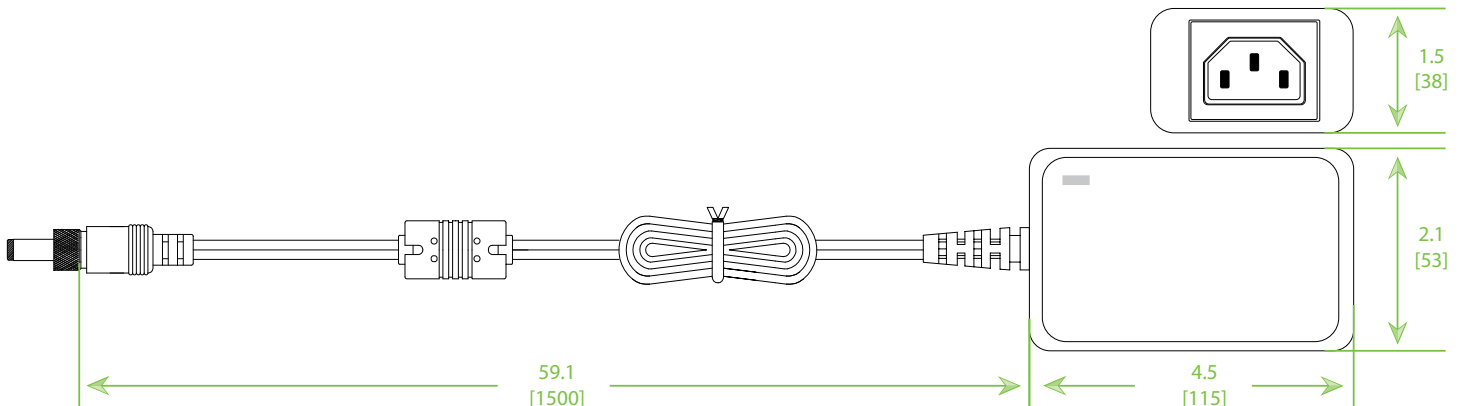
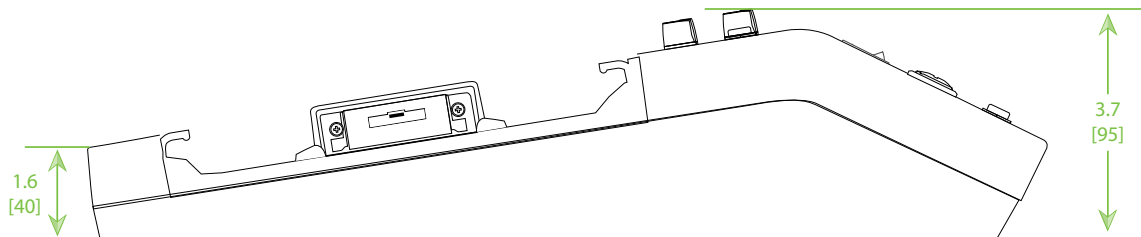
DL1608 DIMENSIONS



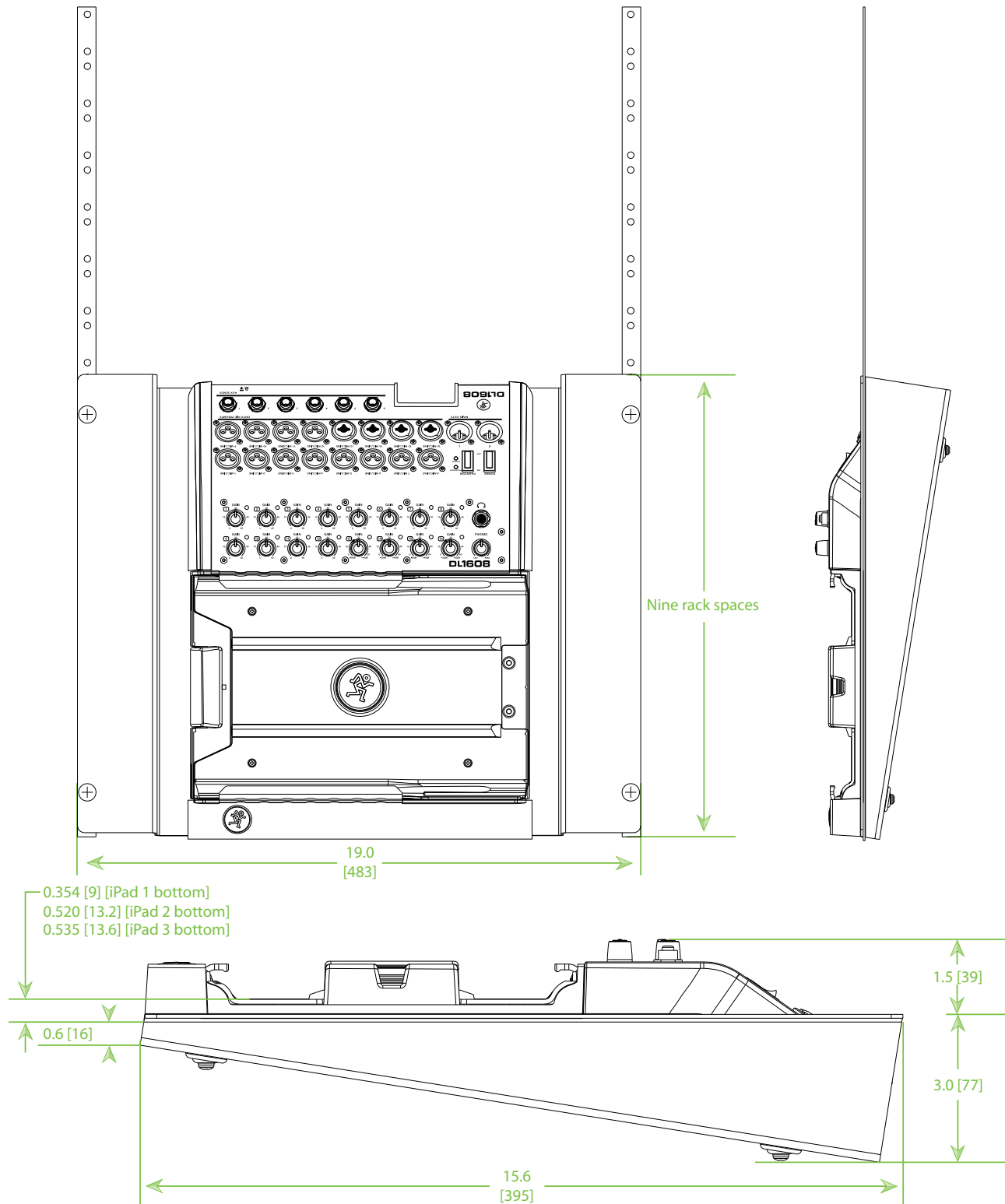
NOTES:

- 1. WEIGHT APPROX. 7.9 lb [3.6 kg].
- 2. SHIPPING WEIGHT APPROX. 12.8 lb [5.8 kg].

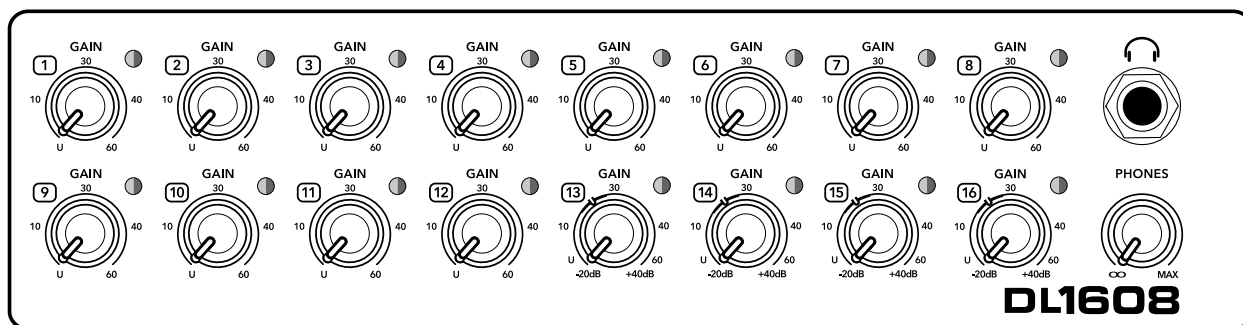
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES DUAL [MM] DIMENSIONS FOR REF ONLY



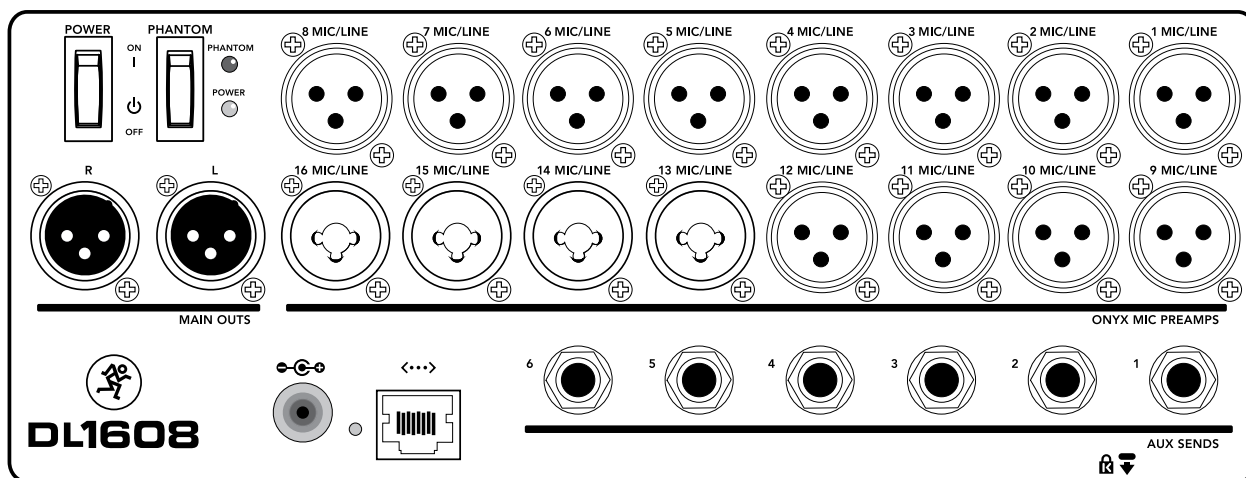
DL1608 DIMENSIONS CONTINUED...



DL1608 FRONT PANEL



DL1608 REAR PANEL



©2015 LOUD Technologies Inc. All rights reserved. Apple and iPad are trademarks of Apple, Inc., registered in the U.S. and other countries. All other marks are Registered Trademarks, or Trademarks, of LOUD Technologies in the United States and other countries. DL1608 Patent Pending.

“Made for iPad” means that an electronic accessory has been designed to connect specifically to iPad and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPad may affect wireless performance.

LOUD Technologies Inc. is always striving to improve our products by incorporating new and improved materials, components, and manufacturing methods. Therefore, we reserve the right to change these specifications at any time without notice.

Electronic files for this product are available at:

www.mackie.com

Specification Sheet	DL1608_SS.PDF
Reference Guide	DLSeries_RG.PDF
Quick Start Guide	DLSeries_QS.PDF



www.mackie.com
16220 Wood-Red Road NE
Woodinville, WA 98072 USA
800-898-3211, Fax 425-487-4337, sales@mackie.com

Part No. SW0953 Rev. C 04/15