



DL16SE • DL32SE

DIGITAL RACK MIXERS

SPEC SHEET



WELCOME

Introduction

The Mackie DLI6SE and DL32SE digital mixers deliver 16 [DLI6SE] / 32 [DL32SE] channels of proven DL series mixing in a stage-friendly, rack-mountable design.

Connect to your wireless router and command your mix with the Master Fader SE app.

Loaded with extensive DSP processing, the DLI6SE and DL32SE give you the mixing power to sound great every night.

Create stunning multitrack recordings via the 16x16 [DLI6SE] / 32x32 [DL32SE] USB audio interface and play them back for an effortless virtual sound check.

The Master Fader SE app allows intuitive control on up to 20 devices simultaneously, including the ability to digitally recall each and every setting for incredibly fast setup.

If you have any questions or comments about this Spec Sheet (or other Mackie documentation), please don't hesitate to contact us:

- 1-800-898-3211 (Monday through Friday, normal business hours, Pacific Time)
- www.mackie.com/support-contact

Features

MAIN FEATURES

- Convenient stagebox/rack design with built-in handle
- 16 input channels with Onyx+ preamps (8 XLR, 8 XLR/TRS combo with 2 Hi-Z) [DLI6SE]
- 32 input channels with Onyx+ preamps (16 XLR, 16 XLR/TRS combo with 2 Hi-Z) [DL32SE]
- 8 fully assignable XLR outputs plus headphone output [DLI6SE]
- 10 fully assignable XLR outputs plus headphone output [DL32SE]
- Connect to your wireless router and control with Master Fader SE app
- Per-channel EQ, filters, gate, compression and RTA/Spectrograph
- 4 stereo FX busses with studio-quality reverbs, delays, chorus and more
- Multitrack 16x16 USB audio interface for recording and playback [DLI6SE]
- Multitrack 32x32 USB audio interface for recording and playback [DL32SE]
- Waveform OEM professional software and plugins included

WIRELESS MIXING

- Take complete control via iOS, Android, macOS or Windows devices
- No set FOH position — mix from anywhere
- Control from up to 20 separate devices at once
- Access Limiting allows performers to control their own monitor mixes without giving access to critical mixer functionality
- Universal Ethernet connection supports your wireless router of choice

POWERFUL PROCESSING & ROUTING

- 16 preamps with 4-band PEQ + HPF, gate, compression and RTA/Spectrograph [DL16SE]
- 32 preamps with 4-band PEQ + HPF, gate, compression and RTA/Spectrograph [DL32SE]
- 16 stereo-linkable input channels plus stereo return channel [DL16SE]
- 32 stereo-linkable input channels plus stereo return channel [DL32SE]
- 8 output busses with 4-band PEQ + HPF/LPF, 31-band GEQ, comp/limiter, alignment delay and RTA/Spectrograph [DL16SE]
- 10 output busses with 4-band PEQ + HPF/LPF, 31-band GEQ, comp/limiter, alignment delay and RTA/Spectrograph [DL32SE]
- 6 stereo-linkable aux sends [DL16SE]
- 8 stereo-linkable aux sends [DL32SE]
- 6 stereo-linkable subgroups
- Main L/R bus
- 6 VCAs and 6 mute groups
- 4 stereo FX processors featuring studio-quality reverbs, delays, choruses, flangers and many more with dedicated sends and returns
- Full I/O routing with A/B sources per channel
- Assignable oscillator including pink/white noise and sine waves
- Modern and Vintage options for comp/gate and EQ

MULTITRACK RECORDING & PLAYBACK

- 16x16 USB 2.0 audio interface for Mac or PC [DL16SE]
- 32x32 USB 2.0 audio interface for Mac or PC [DL32SE]
- Record the show for later mixdown
- Perform a virtual sound check
- Play intermission music, backing tracks and more directly into a dedicated stereo return channel
- Flexible, low-cost studio recording solution
- Utilize Mac or PC audio plug-ins in a live environment

MASTER FADER SE CONTROL APP

- Intuitive and easy to master
- Fast navigation with view groups and overview
- Quick setup with tons of factory and user-definable presets
- Access Limiting allows flexible customization of the user interface and prevents unwanted adjustments from other users
- Quickly access channel processing, signal routing and a massive suite of great sounding effects with presets to get you started
- Export presets, shows and complete system backups via Dropbox, email and more
- Set up the show before you arrive at the venue with offline show creation
- Available on iOS, Android, macOS and Windows

RECORD & PRODUCE LIKE A PRO

- Waveform™ OEM professional software and plugin packages included
- The DAW Essentials™ Bundle for Waveform OEM includes 16 powerful plugins like Equalizer, Compressor, Reverber8 and Limiter

TECHNICAL INFORMATION

Specifications

General Digital

Sample Rate: 48 kHz

A/D/A Bit Depth: 24-bit

System Latency

Analog Input > Main Bus > Analog Output: 1.5 ms

0 dBFS Reference: +22 dBu

Frequency Response

XLR inputs and outputs: ± 0 , -1 dB, 20 Hz to 20 kHz

1/4" inputs: ± 0 , -3 dB, 20 Hz to 20 kHz

Distortion

THD+N, XLR mic input to XLR output, unity gain (1 kHz, +21 dBu signal; 30 kHz bandwidth): <0.005%

Noise / Dynamic Range / Signal-to-Noise Ratio

EIN (150 Ω termination): -127 dBu, A-Weighted

Crosstalk

Analog XLR adjacent inputs: <-105 dB @ 1 kHz (unity gain)

<-65 dB @ 1 kHz (max gain)

Analog XLR adjacent outputs: <-95 dB @ 1 kHz

Signal-to-Noise Ratio (ref +4 dBu, 1 kHz. Mic Input > Main Bus > XLR Output, unity gain): >92 dB, un-weighted

Output Noise, XLR output (DSP muted): <-90 dBu RMS

Dynamic Range

Mic Input > Main Bus > XLR Output, unity gain: >110 dB, A-Weighted

XLR Mic Input to USB Output: >113 dB, A-Weighted

XLR Output from DSP (Oscillator): >113 dB, A-Weighted

CMRR - XLR Mic Input (ref +20 dBu, +45 dB Gain): >75 dB @ 1 kHz

SPECIFICATIONS CONTINUED

Analog Inputs

Connectors:.....1-8: XLR Balanced, 9-16: Combo XLR / TRS Bal-Unbal
(plus Hi-Z via unbalanced instrument cable on inputs 15-16) [DLI6SE]
1-16: XLR Balanced, 17-32: Combo XLR / TRS Bal-Unbal
(plus Hi-Z via unbalanced instrument cable on inputs 31-32) [DL32SE]

XLR Mic Pre:.....Onyx+

Input Impedance:

DLI6SE: XLR, channels 1-16: 3 k Ω , balanced
1/4" Line, channels 9-14: 30 k Ω , balanced
1/4" Hi-Z, channels 15-16: 1 M Ω , unbalanced
DL32SE: XLR, channels 1-32: 3 k Ω , balanced
1/4" TRS Line, channels 15-30: 30 k Ω , balanced
1/4" TS Hi-Z, channels 31-32: 1 M Ω , unbalanced

Max Input Level: XLR: +22 dBu
1/4": +30 dBu

48V Phantom Power (XLR): 48 VDC nominal voltage, unloaded
14 mA maximum current supplied to any single input
5mA minimum current supplied to all inputs simultaneously
Digital on/off control for each individual input

Analog Outputs

Connectors:..... XLR Balanced
Output Impedance:..... 300 Ω
Max Output Level:+22 dBu

Analog Headphone Out

Connector:.....1/4" TRS Stereo
Max Output Level:+20 dBu into 600 Ω , each channel
+22 dBu max into 100 k Ω , each channel

Connection:.....USB 2.0 High Speed (as a device)

Connector:.....USB-B

Supported MS Windows [Driver installation required]: Windows 10 or Windows 11

Supported Mac OS [Audio Class 2.0 Compliant, no driver required]:macOS 10.15 or higher required

Audio: 16 in / 16 out, 48 kHz, 16/24-bit [DLI6SE]

..... 32 in / 32 out, 48 kHz, 16/24-bit [DL32SE]

Connection:..... 100 Mb Ethernet

Control:Complete

Simultaneous Control:..... 20 Devices

Antenna:..... External, SMA Connector, 50 Ω

Access Point, Number of Clients: Max. 20 (Wired or Wireless)

IEEE 802.11 b/g Standard: 2.4 GHz

WLAN Channels:..... 1 - 11 (with auto-channel select option)

Access Point Security:..... WPA2

System Requirements: • Android: v7.0 or higher required
(requires Google Play Store access to install)
• iOS: v13.0 or higher required

Control Application: Master Fader App

SPECIFICATIONS CONTINUED

DSP

DLI6SE

16 input channels with 4-band PEQ + HPF, gate, compression and RTA/Spectrograph

16 stereo-linkable input channels

13 output busses with 4-band PEQ + HPF/LPF, 31-band GEQ, comp/limiter, alignment delay and RTA/Spectrograph

6 stereo-linkable aux sends

6 stereo-linkable subgroups

Main L/R bus

6 VCAs and 6 mute groups

4 stereo FX processors featuring great built-in FX like reverbs, delays, choruses, flangers,
and many more with dedicated sends and returns

Full I/O routing with A/B sources per channel

Assignable oscillator including pink/white noise and sine waves

Modern and Vintage options for comp/gate and EQ

DL32SE

32 input channels with 4-band PEQ + HPF, gate, compression and RTA/Spectrograph

32 stereo-linkable input channels

15 output busses with 4-band PEQ + HPF/LPF, 31-band GEQ, comp/limiter, alignment delay and RTA/Spectrograph

8 stereo-linkable aux sends

6 stereo-linkable subgroups

Main L/R bus

6 VCAs and 6 mute groups

4 stereo FX processors featuring great built-in FX like reverbs, delays, choruses, flangers,
and many more with dedicated sends and returns

Full I/O routing with A/B sources per channel

Assignable oscillator including pink/white noise and sine waves

Modern and Vintage options for comp/gate and EQ

SPECIFICATIONS CONTINUED

Power

Power Requirements: 100 VAC – 240 VAC, 50 – 60 Hz, Universal Supply
Line Cord: User-replaceable IEC
Power Consumption: 40 W [DLI6SE]
60 W [DL32SE]
Operating Temperature [extended ambient temperature]: 32 – 104 °F / 0 – 40 °C

Options

DLI6S Digital Mixer Bag: 2036809-46
DL32S Digital Mixer Bag: 2036809-47

Physical Properties (Product)

DLI6SE

Height: 5.6 in / 142 mm
Width: 14.1 in / 358 mm
Depth: 5.2 in / 132 mm
Weight: 6.2 lb / 2.8 kg
Rack: 3U Rack Spaces

DL32SE

Height: 7.3 in / 185 mm
Width: 16.3 in / 414 mm
Depth: 5.2 in / 132 mm
Weight: 8.8 lb / 4.0 kg
Rack: 4U Rack Spaces

SPECIFICATIONS CONTINUED

Physical Properties (Packaged Product)

DLI6SE

Height: 9.8 in / 249 mm
Width: 17.0 in / 432 mm
Depth: 9.5 in / 241 mm
Weight: 10.2 lb / 4.6 kg
Rack: 3U Rack Spaces

DL32SE

Height: 9.8 in / 249 mm
Width: 20.5 in / 521 mm
Depth: 11.3 in / 287 mm
Weight: 13.8 lb / 6.3 kg
Rack: 4U Rack Spaces

Ordering Information

DLI6SE –16-CHANNEL DIGITAL RACK MIXER

US	.....	2056890-00 (US)
EU	.....	2056890-01 (EU)
JP	.....	2056890-02 (JP)
UK	.....	2056890-03 (UK)
AU	.....	2056890-04 (AU)
CN	.....	2056890-05 (CN)
BZ ~120V	.....	2056890-06 (BZ ~120V)
AR	.....	2056890-07 (AR)
KR	.....	2056890-08 (KR)

DL32SE –32-CHANNEL DIGITAL RACK MIXER

US	.....	2056891-00 (US)
EU	.....	2056891-01 (EU)
JP	.....	2056891-02 (JP)
UK	.....	2056891-03 (UK)
AU	.....	2056891-04 (AU)
CN	.....	2056891-05 (CN)
BZ ~120V	.....	2056891-06 (BZ ~120V)
AR		2056891-07 (AR)
KR		2056891-08 (KR)

About

Part Number, Rev and Date: SW1479, Rev B, March 2025

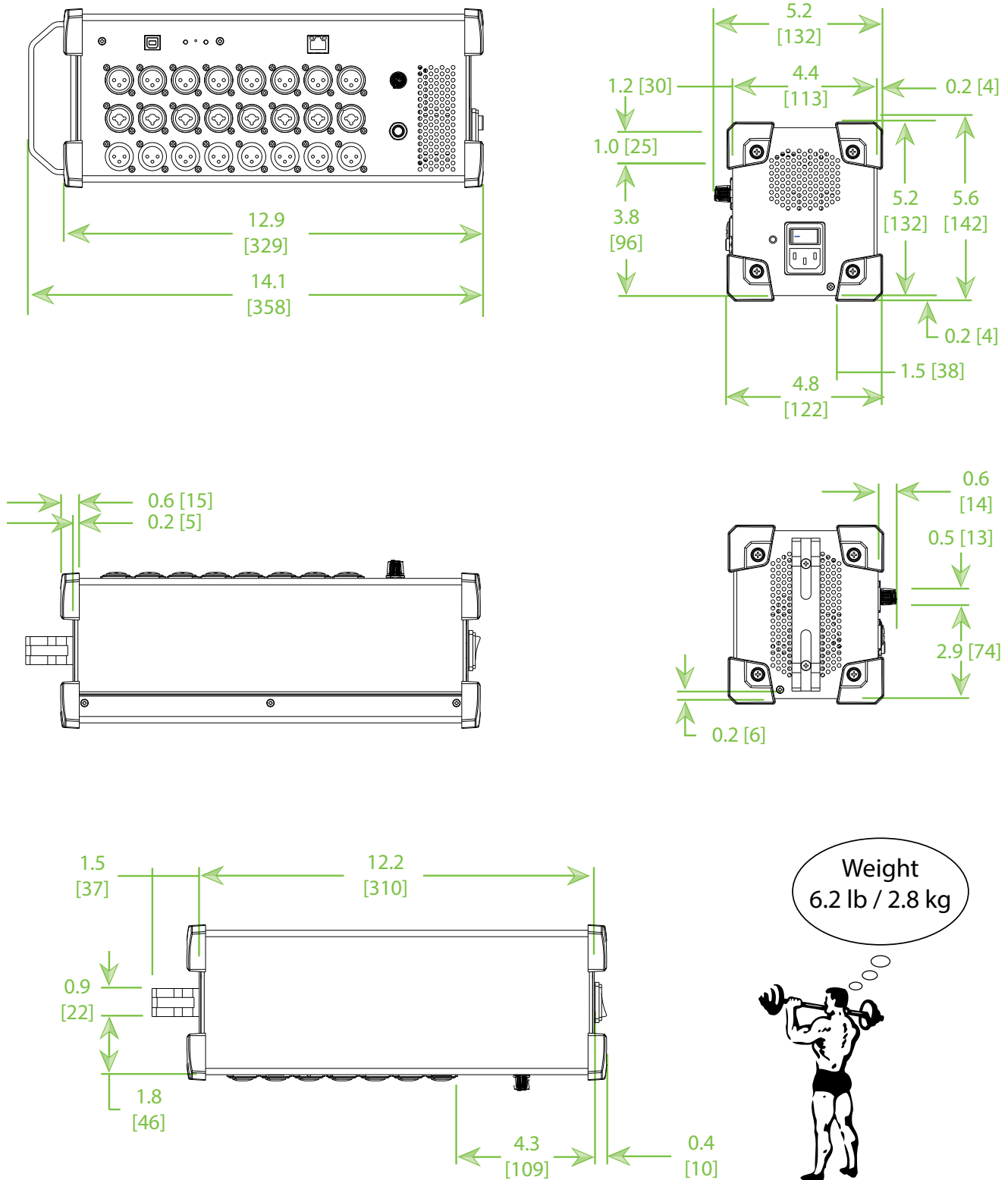
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"Made for iPad" means that an electronic accessory has been designed to connect specifically to iPad and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance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

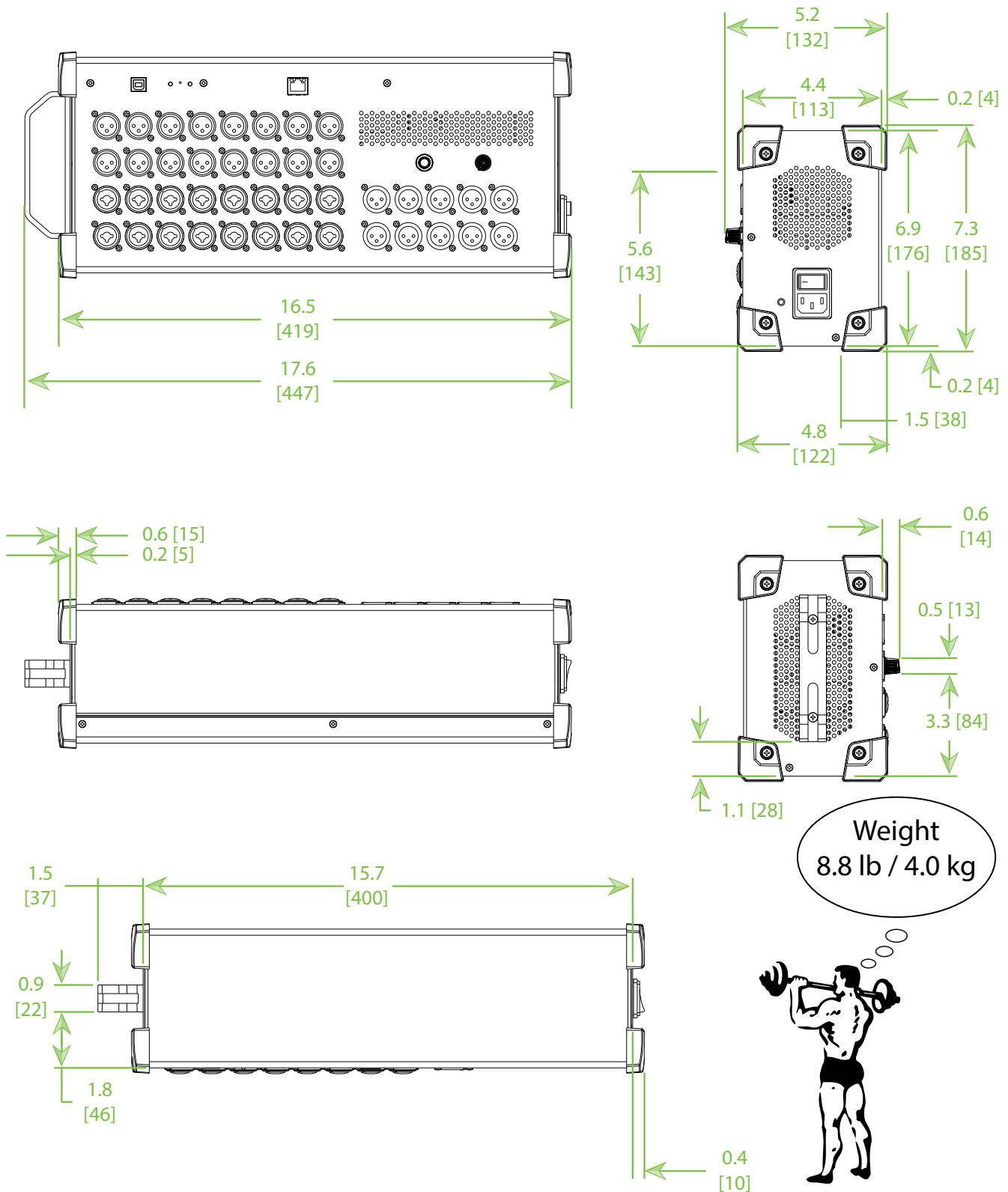
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DL16SE DIMENSIONS

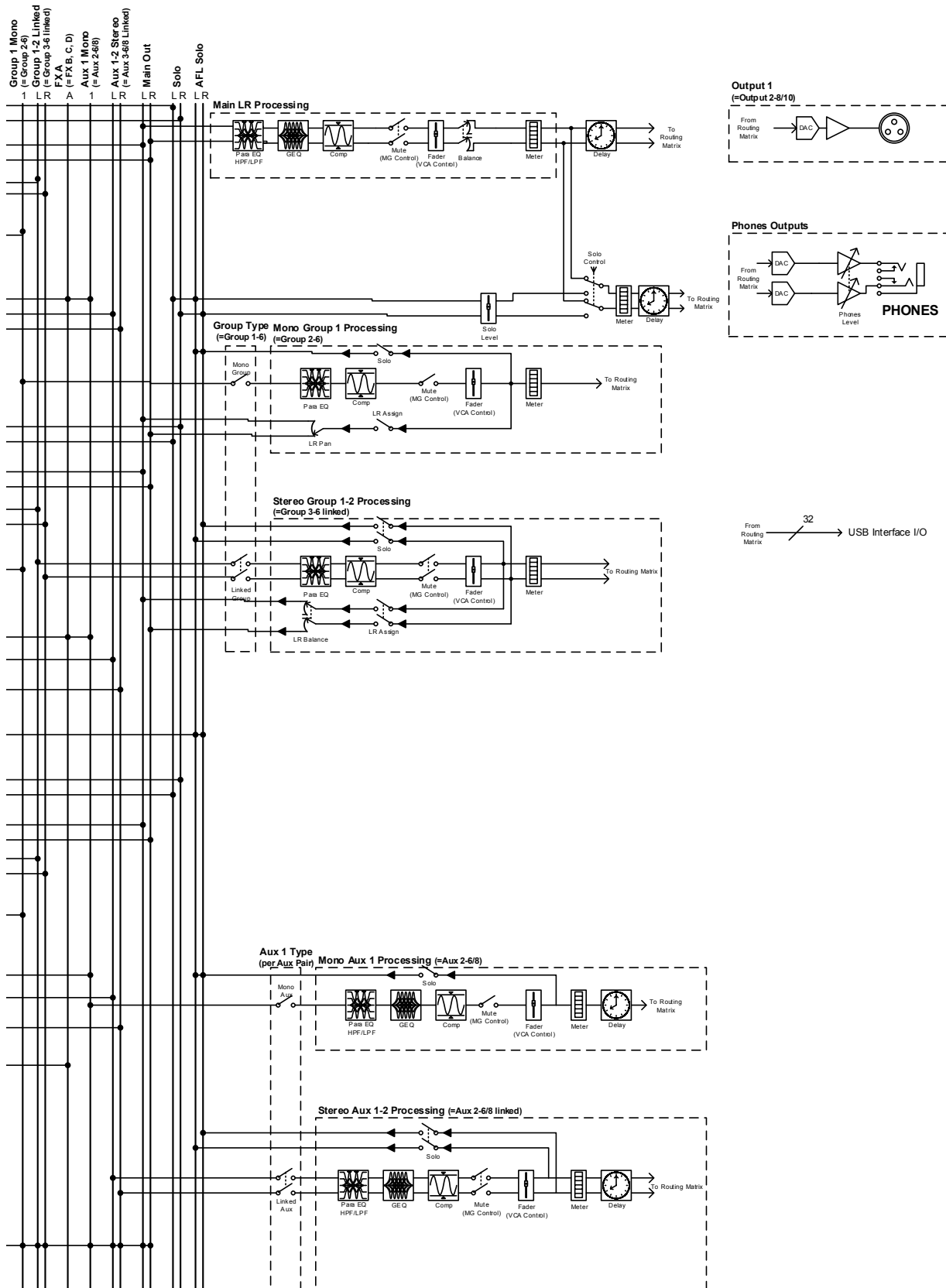


DL32SE DIMENSIONS





DLI6SE AND DL32SE BLOCK DIAGRAM



DL16SE AND DL32SE FRONT PANELS





19820 North Creek Parkway #201, Bothell, WA 98011 • USA
Phone: 425.487.4333 • Toll-free: 800.898.3211
Fax: 425.487.4337 • www.mackie.com

