# MACKIE.

## DL806
### Digital Live Sound Mixer with iPad® Control



## 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 8-channel DL806 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 20 iOS devices. Truly the ideal digital utility mixer for bands, rehearsal spaces, broadcast and small installations, you get all the benefits of a next-gen console and more at an incredible price with the Mackie DL806.

## FEATURES:

■ 8-Channel Digital Mixer
- Eight Onyx™ mic preamps
- Six balanced outputs
- High-end Cirrus Logic® converters
- Ultra low-noise, high-headroom design
- Rugged, compact desktop design with iPad® dock
- Rackmountable with optional kit

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■ Flexible Wireless or Docked Control
- Mix wirelessly from anywhere in the venue from your iPad
  - o Unmatched wireless control over mix
  - o Supports up to 20 iOS devices at once
  - o Personal monitor mixing via iPhone® or iPod touch®

- Dock your iPad for added features and security
  - o Creates an integrated, self-contained desktop mixer
  - o Total control over assignable 2-channel recordings for immediate playback and easy exporting
  - o Playback music from any iPad app and incorporate into the mix
  - o Always keep your iPad charged
  - o PadLock™ feature locks down iPad for security
  - o Industry standard Kensington lock secures mixer
  - o iPad Air 2, iPad Air and iPad (4th generation) docking compatibility
  - o Optional iPad mini docking tray available

■ Master Fader Control App
- Proven, intuitive workflow that's customizable for your application
  - o Create view groups and see only the channels you need
  - o Unique access limiting hides controls you aren't using

- Export presets, shows and complete system backups via Dropbox, email and more using iOS system sharing
- Quick setup with tons of factory and user-definable presets
- Complete offline operation saves setup time at gig
- The most frequently updated mixing app on the market

■ Professional, Comprehensive DSP
- Packed with more DSP processing than any other compact mixer
- 10 input channels with 4-band PEQ + HPF, gate and compression
  - o 8 stereo-linkable input channels
  - o 2 stereo-linkable iPad return channels*

- 10 output busses with 4-band PEQ + HPF/LPF, 31-band GEQ, comp/limiter, alignment delay and RTA
  - o 4 stereo-linkable aux sends
  - o 4 stereo-linkable subgroups*
  - o Main L/R busses

- 4 VCAs and 4 mute groups
- 2 stereo FX processors with dedicated sends and returns
- Choice of powerful, touch-sensitive modern and vintage plug-ins

*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.
Master Fader available for free in the App Store. iOS 8.0 or later required for operation.
See *Supported Devices* on page 3 for complete compatibility information.

## DL806 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 1-8

| | |
|---|---|
| Connectors | |
|     1-4: | XLR Balanced |
|     5-8: | Combo XLR / TRS Balanced |
| XLR Mic Pre: | Onyx |
| Input Impedance | |
|     1-4: | 3 kΩ |
|     5-8: | 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. |

### Analog Main Out L/R

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

### Analog Aux Sends 1-4

| | |
|---|---|
| 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: | 20 iOS Devices |

# DL806 SPECIFICATIONS CONTINUED...

## Supported Devices

| | |
|---|---|
| iOS Version Requirement: | For optimal performance, we suggest using the latest iOS version [iOS 8.0 minimum] |

**iPad Version Requirement[1]**

| | |
|---|---|
| Wired [Lightning Connector]: | iPad (4th generation)[2] iPad mini[3], iPad mini 2[3], iPad mini 3[3] iPad mini 4[3], iPad Air[4] and iPad Air 2[4] |
| Wired [30-pin Connector]: | iPad 2[2], iPad (3rd generation)[2] |
| Wireless: | All iPad models (except the original iPad), Future iPad devices[5] |

**iPhone / iPod touch Version Requirement**

| | |
|---|---|
| Wireless: | iPhone 4, iPhone 4S, iPhone 5, iPhone 5s, iPhone 5c, iPhone 6, iPhone 6s, iPhone 6 Plus, iPhone 6s Plus, iPod touch (5th generation), Future iPhone and iPod touch devices[5] |
| Control Application: | Mackie Master Fader App[6] |

## DSP

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

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

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[1] *The DL806 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*

## 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 [extended ambient temperature]: | 0 - 40 ˚C 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: | 11.8 lb / 5.4 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: | 6.9 lb / 3.1 kg |
| Rack: | Nine Rack Spaces [Needs an additional space or two above to allow for connections] |

## Options

| | |
|---|---|
| DL806 Rackmount Kit: | P/N 2036840 |
| DL806 Mixer Bag: | P/N 2036809-16 |
| DL806 Mixer Cover: | P/N 2036809-17 |

## Ordering Information

**30-Pin Connector DL806 Digital Live Sound Mixer with iPad Control**

| | |
|---|---|
| US: | P/N 2037371-00 |
| EU: | P/N 2037371-01 |
| CN: | P/N 2037371-05 |
| BZ (~120V): | P/N 2037371-06 |

**Lightning Connector DL806 Digital Live Sound Mixer with iPad Control**

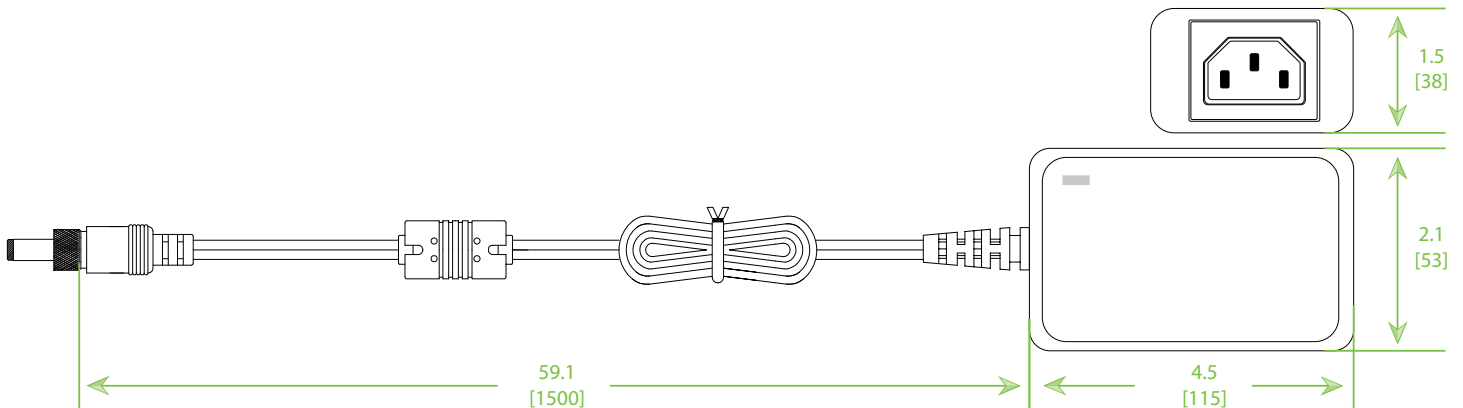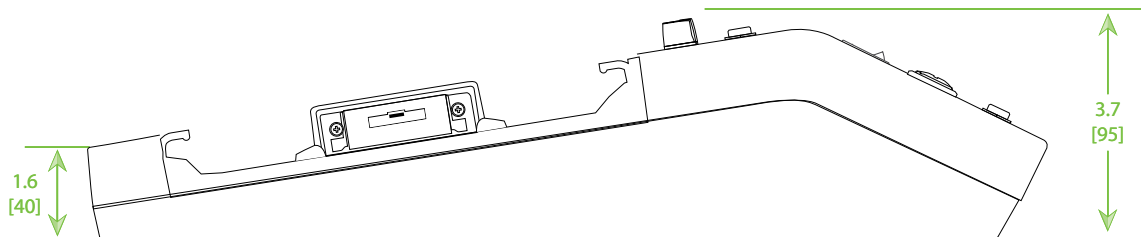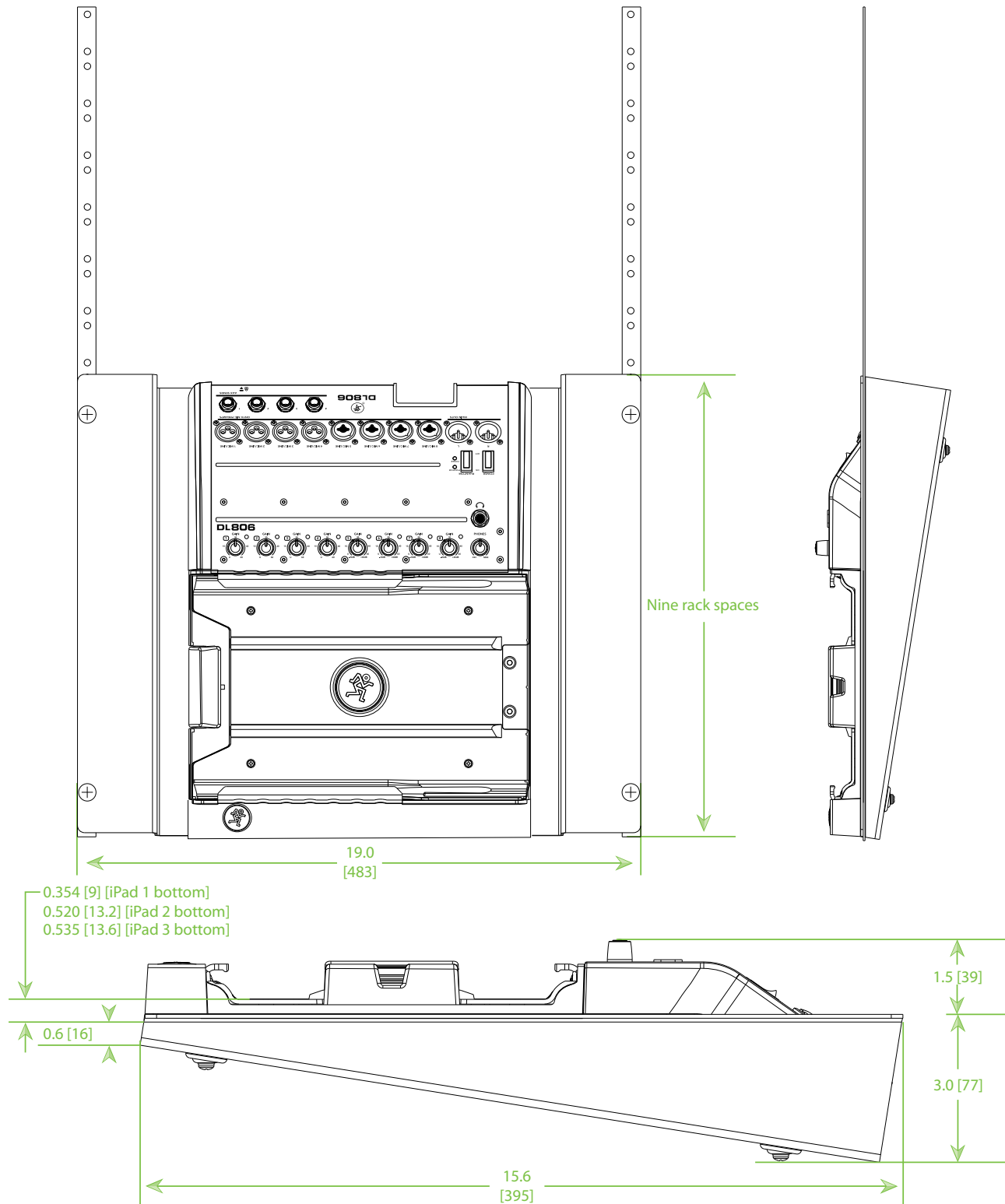| | |
|---|---|
| US: | P/N 2042504-00 |
| EU: | P/N 2042504-01 |
| UK: | P/N 2042504-03 |
| CN: | P/N 2042504-05 |
| BZ (~120V): | P/N 2042504-06 |

## DL806 DIMENSIONS
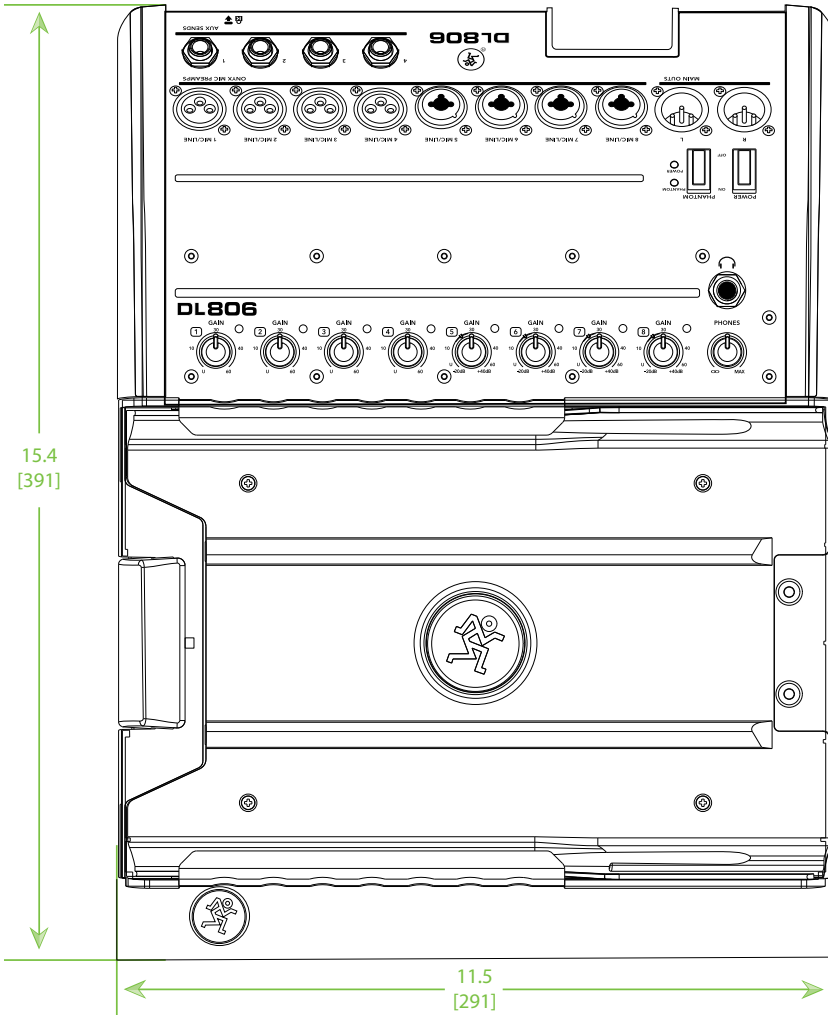


**NOTES:**
1. WEIGHT APPROX. 6.9 lb [3.1 kg].
2. SHIPPING WEIGHT APPROX. 11.8 lb [5.4 kg].

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES  DUAL [MM] DIMENSIONS FOR REF ONLY
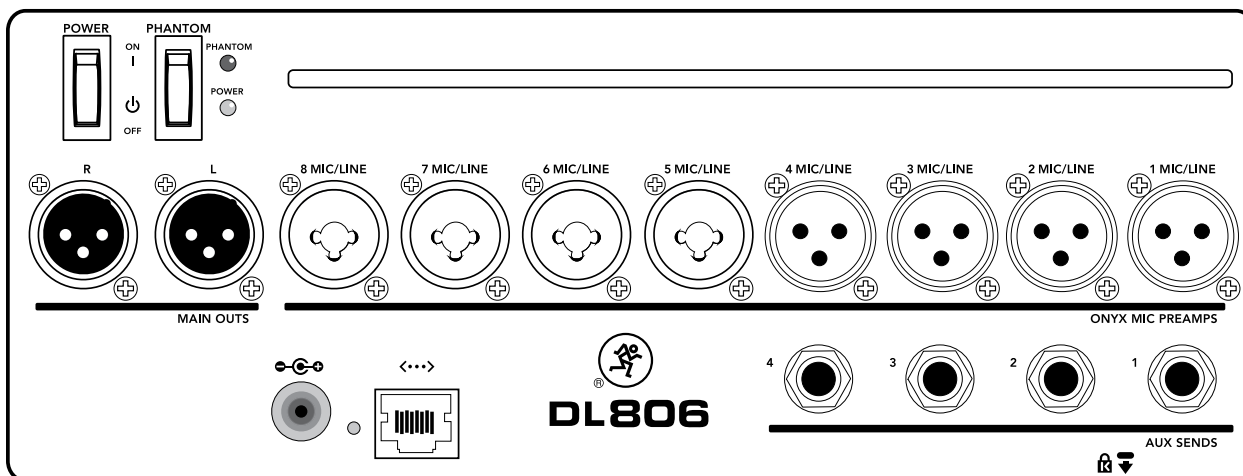
15.4 [391]

11.5 [291]

3.7 [95]

1.6 [40]

1.5 [38]

2.1 [53]

59.1 [1500]

4.5 [115]

## DL806 DIMENSIONS CONTINUED...



Nine rack spaces

19.0
[483]

0.354 [9] [iPad 1 bottom]
0.520 [13.2] [iPad 2 bottom]
0.535 [13.6] [iPad 3 bottom]

1.5 [39]

0.6 [16]

3.0 [77]

15.6
[395]

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# DL806
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## DL806 FRONT PANEL

## DL806 REAR PANEL

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 | DL806_SS.PDF |
| Reference Guide | DLSeries_RG.PDF |
| Quick Start Guide | DLSeries_QS.PDF |

## MACKIE.

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