Wireless Digital Live Sound Mixers

DL16S


Get mixing right out of the box with built-in Wi-Fi networking and full multiplatform support on the industry-leading Master Fader™ control app.

Fully loaded with DSP on each of the 16 Onyx™ recallable mic preamps and 13 busses plus 4 FX processors, the DL16S delivers the mixing power you need to sound great every night.

Create stunning multitrack recordings via 16x16 USB I/O and even play them back into each channel for an effortless virtual sound check.

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

Take command of your live mix with the Mackie DL16S.

APPLICATIONS:
Band rehearsal and performance PA systems, regional touring acts, small to mid-sized sound companies, theater production, conference room PA, singer-songwriters, mobile recording studios, houses of worship, music education and many, many more.

FEATURES:

■ 16-CHANNEL WIRELESS DIGITAL MIXER
  • 16 Onyx™ recallable mic preamps
  • 8 fully-assignable XLR outputs plus headphone output
  • Industry-leading Master Fader control app
  • 16x16 USB recording
  • Ditch the snake – Place it anywhere on stage or in a rack

■ WIRELESS MIXING
  • Complete control via iOS, Android, Mac, or PC
  • No set FOH position – mix from anywhere
  • Supports up to 20 separate devices at once
  • Multiple engineers can work from a single mixer

■ POWERFUL PROCESSING AND SIGNAL ROUTING
  • 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

■ MULTI-TRACK RECORDING & PLAYBACK
  • 16x16 USB 2.0 audio interface for Mac or PC
  • Record the show for later mixdown
  • Play back intermission music, backing tracks and more directly into a dedicated stereo return channel
  • Perform a virtual sound check
  • Amazing low-cost, high channel count studio recording solution
  • Utilize Mac or PC audio plug-ins in a live environment

DL Series mixers are compatible with iOS 10 or later, Android OS 6 or later, macOS 10.2 or later, and Windows 10 or later
DL32S


Get mixing right out of the box with built-in Wi-Fi networking and full multiplatform support on the industry-leading Master Fader™ control app.

Fully loaded with DSP on each of the 32 Onyx+™ mic preamps and 15 busses plus 4 FX processors, the DL32S delivers the mixing power you need to sound great every night.

Create stunning multitrack recordings via 32x32 USB I/O and even play them back into each channel for an effortless virtual sound check.

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

Take command of your live mix with the Mackie DL32S.

APPLICATIONS:
Band rehearsal and performance PA systems, regional touring acts, small to mid-sized sound companies, theater production, conference room PA, singer-songwriters, mobile recording studios, houses of worship, music education and many, many more.

FEATURES:
■ 32-CHANNEL WIRELESS DIGITAL MIXER
  • 32 Onyx+™ recallable mic preamps
  • 10 fully-assignable XLR outputs plus headphone output
  • Industry-leading Master Fader control app
  • 32x32 USB recording
  • Ditch the snake – Place it anywhere on stage or in a rack

■ WIRELESS MIXING
  • Complete control via iOS, Android, Mac, or PC
  • No set FOH position – mix from anywhere
  • Supports up to 20 separate devices at once
  • Multiple engineers can work from a single mixer

■ POWERFUL PROCESSING AND SIGNAL ROUTING
  • 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

■ MULTI-TRACK RECORDING & PLAYBACK
  • 32x32 USB 2.0 audio interface for Mac or PC
  • Record the show for later mixdown
  • Play back intermission music, backing tracks and more directly into a dedicated stereo return channel
  • Perform a virtual sound check
  • Amazing low-cost, high channel count studio recording solution
  • Utilize Mac or PC audio plug-ins in a live environment

DL Series mixers are compatible with iOS 10 or later, Android OS 6 or later, macOS 10.2 or later, and Windows 10 or later
DL16S • DL32S SPECIFICATIONS

General Digital

<table>
<thead>
<tr>
<th>Sample Rate</th>
<th>48 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/D/A Bit Depth</td>
<td>24-bit</td>
</tr>
<tr>
<td>System Latency</td>
<td></td>
</tr>
<tr>
<td>Analog Input &gt; Main Bus &gt; Analog Output</td>
<td>1.5 ms</td>
</tr>
<tr>
<td>0 dBFS Reference</td>
<td>+22 dBu</td>
</tr>
</tbody>
</table>

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  |
| 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 kH |

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) [DL16S]

1-16: XLR Balanced, 17-32: Combo XLR / TRS Bal-Unbal (plus Hi-Z via unbalanced instrument cable on inputs 31-32) [DL32S]

XLR Mic Pre: Onyx+

Input Impedance

DL16S: XLR, channels 1-16: 3 kΩ, balanced 1/4” Line, channels 9-14: 30 kΩ, balanced 1/4” Hi-Z, channels 15-16: 1 MΩ, unbalanced

DL32S: XLR, channels 1-32: 3 kΩ, balanced 1/4” TRS Line, channels 15-30: 30 kΩ, balanced 1/4” TS Hi-Z, channels 31-32: 1 MΩ, 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 kΩ, each channel
## DL16S • DL32S SPECIFICATIONS CONTINUED...

### USB

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

**Connector:** USB-B

**Supported MS Windows [Driver installation required]:** Windows 10

**Supported Mac OS [Audio Class 2.0 Compliant, no driver required]:** macOS 10.13, 10.14

**Audio:**
- DL16S: 16 in / 16 out, 48 kHz, 16/24-bit
- DL32S: 32 in / 32 out, 48 kHz, 16/24-bit

### Networking

**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

**Supported Operating Modes:**
- Access Point
- External Router
- Wi-Fi Client

### DSP

**DL16S:**

- 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

**DL32S:**

- 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

### Devices and OSs

#### Android and iOS

**System Requirements:**
- Android: v6.0 or higher required (requires Google Play Store access to install)
- iOS: v11.0 or higher required

**Control Application:**
- Master Fader App for Android
- Master Fader App for iOS
### Power

<table>
<thead>
<tr>
<th>Requirement</th>
<th>DL16S</th>
<th>DL32S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>100 VAC – 240 VAC, 50 – 60 Hz, Universal Supply</td>
<td></td>
</tr>
<tr>
<td>Line Cord</td>
<td>User-replaceable IEC</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>40 W [DL16S]</td>
<td>60 W [DL32S]</td>
</tr>
</tbody>
</table>

**Operating Temperature**

*extended ambient temperature*: 32 – 104 °F / 0 – 40 °C

### Physical Properties (product)

#### DL16S:
- Height: 5.6 in / 142 mm
- Width: 14.1 in / 358 mm
- Depth: 5.8 in / 147 mm
- Weight: 6.2 lb / 2.8 kg
- Rack: 3U Rack Spaces

#### DL32S:
- Height: 7.3 in / 185 mm
- Width: 17.6 in / 447 mm
- Depth: 5.8 in / 147 mm
- Weight: 8.8 lb / 4.0 kg
- Rack: 4U Rack Spaces

### Options

<table>
<thead>
<tr>
<th>Option</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL16S Bag</td>
<td>2036809-46</td>
</tr>
<tr>
<td>DL32S Bag</td>
<td>2036809-47</td>
</tr>
</tbody>
</table>

### Ordering Information

- DL16S 16-Channel Wireless Digital Live Mixer, US P/N 2048990-00
- DL16S 16-Channel Wireless Digital Live Mixer, EU P/N 2048990-01
- DL16S 16-Channel Wireless Digital Live Mixer, UK P/N 2048990-03
- DL16S 16-Chnl Wireless Digital Live Mixer, AU P/N 2048990-04
- DL16S 16-Chnl Wireless Digital Live Mixer, CN P/N 2048990-05
- DL16S 16-Chnl Wireless Digital Live Mixer, BZ ~120V P/N 2048990-06
- DL16S 16-Channel Wireless Digital Live Mixer, AR P/N 2048990-07
- DL16S 16-Channel Wireless Digital Live Mixer, KR P/N 2048990-08
- DL32S 32-Channel Wireless Digital Live Mixer, EU P/N 2049000-01
- DL32S 32-Channel Wireless Digital Live Mixer, UK P/N 2049000-03
- DL32S 32-Chnl Wireless Digital Live Mixer, AU P/N 2049000-04
- DL32S 32-Chnl Wireless Digital Live Mixer, CN P/N 2049000-05
- DL32S 32-Chnl Wireless Digital Live Mixer, BZ ~120V P/N 2049000-06
- DL32S 32-Channel Wireless Digital Live Mixer, AR P/N 2049000-07
- DL32S 32-Channel Wireless Digital Live Mixer, KR P/N 2049000-08

### Physical Properties (packaged product)

#### DL16S:
- 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

#### DL32S:
- 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
DL16S DIMENSIONS

Weight
6.2 lb / 2.8 kg
DL32S DIMENSIONS

Weight
8.8 lb / 4.0 kg
DL32S FRONT PANEL

DL16S • DL32S REAR PANEL
DL16S • DL32S SIDE PANEL

“Mackie” and the “Running Man” figure are registered trademarks of LOUD Audio, LLC. Apple, iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. “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. All other brands mentioned are trademarks or registered trademarks of their respective holders, and are hereby acknowledged. DL16S and DL32S Patent Pending.

LOUD Audio, LLC. 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.

©2019 LOUD Audio, LLC. All rights reserved.

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

<table>
<thead>
<tr>
<th>Specification Sheet</th>
<th>DL16S_DL32S_SS.PDF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner’s Manual</td>
<td>DL16S_DL32S_OM.PDF</td>
</tr>
</tbody>
</table>

Like us
Follow us
Watch our dang videos