



DL806

Digital Live Sound Mixer with iPad® Control

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
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Distortion (THD)

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



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DL806 SPECIFICATIONS CONTINUED...

Supported Devices

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

iPad Version Requirement¹

Wired [Lightning Connector]: iPad (4th generation)²
iPad mini³, iPad mini 2³, iPad mini 3³
iPad mini 4³, iPad Air⁴ and iPad Air 2⁴

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

Wireless: All iPad models (except the original iPad),
Future iPad devices⁵

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 devices⁵

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

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	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:	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