What does a DL Series mixer do? What does the iPad/tablet do?

It's simple. The mixer itself does all the heavy lifting. Onyx+ mic pres amplify the signal. High-end AD converters convert this to digital. The powerful DSP chip processes and mixes this through the low latency mix engine. What's missing? Control. And that's where the iPad/tablet comes in. It is the control surface, controlling the DSP and mixer parameters but no audio processing occurs in the device at all. All the magic happens in the mixer itself which is powerful and able to produce undeniably professional sound quality.

What devices are the DL16S and DL32S compatible with?

The new DL16S, DL32S, and Master Fader 5 are available and work on iOS, Android, macOS, and Windows devices. The DL16S and DL32S mixers are compatible with iOS 10 or later, Android OS 6 or later, macOS 10.2 or later, and Windows 10 or later.*

Are the DL16S and DL32S Dante compatible?

Unfortunately, the DL16S and DL32S do not have Dante capabilities. If you need Dante, we recommend the DL32R with the optional Dante card.
Can I use the DL16S and DL32S with the DC16?
Dante is needed to connect the DL32R with the DC16, the DL16S and DL32S are not Dante capable, therefore you will not be able to connect the DC16 with these mixers.

How does the wireless setup work?
Both the DL16S and DL32S come with built-in wireless and can act as its own Wi-Fi network in “Wi-Fi” mode. You can also connect these mixers to an existing Wi-Fi network in “Client” mode. Lastly, you can hardwire a router using the Wifi-control port on the front of the unit. If you decide to use a third party router, wireless setup is easy. Simply connect a Wi-Fi router to the Ethernet port on the front of the DL Series mixer. Connect the control device to this network using the Wi-Fi settings on that device. Almost any off-the-shelf router will work. We list some other officially approved and tested access points on the DL Series website.

If there is built-in wireless, what is the Ethernet port used for?
The Ethernet connector is used for a hardwired connection to an existing network.

Can I physically plug my device into the mixer for control? Do I have to use Wi-Fi?
There is no option to hardwire your mobile device to the DL16S or DL32S. However, with the Master Fader 5.1 update, you will be able to hardwire a PC or Mac directly to the mixer via the Wi-Fi control port.

What is the difference between a VCA and a subgroup?
A VCA allows you turn up or down a whole group of faders while maintaining their relative levels throughout. There is no signal processing happening in a VCA just overall volume control. A subgroup is a bus where audio can be routed too. This audio can then be processed (EQ, compression) and acts in a similar manner where the subgroup fader will bring all the volumes of channels in that group up or down.
FAQ

DL16S/DL32S

How do I get sound through the mixer?
By default, every input is assigned to the Main LR mix. By default, the Main LR mix is assigned to the XLR outputs 9–10. So the absolute easiest way to get signals through the mixer is to turn up a channel’s mic pre gain, turn up a channel’s fader and finally, turn up the Main LR mix fader. Now you have signal passing out of the XLR outputs 9–10.

Why is there a Gain AND a Trim?
The gain control on a specific channel adjusts the pre-amp gain for a microphone plugged into that channel’s input. This is the same exact control as the gain knob you are used to seeing at the top of analog mixers except it is under digital control. The trim is a digital gain stage that occurs after the signal is converted to digital. It is commonly used for the USB playback that has no analog gain control allowing you to adjust signals that are coming off your USB from your computers’ recording software (Pro Tools, Logic, Cubase, etc.) that are too loud or too quiet.

Are the DL16S and DL32S rack-mountable?
Yes. Both the DL16S and DL32S come with rack ears in the box to be installed in standard 19-inch racks.

What does the talk-back button do? Do I need to hold it down to speak? Does it use my device’s microphone?
Talk-back is a method of communication between the sound engineer and personnel on stage or in a recording area. When enabled it sends the talkback source to the assigned destinations. By default, the talk-back input of the DL16S is channel 16 and channel 32 on the DL32S, but this can be routed from any input. The destinations can be selected from any number of the output channels. The button does not need to be held down; it toggles on and off when pressed. The talk-back function does not use your device’s microphone.

Will the Shows and Snapshots from my DL806, DL1608, and DL32R work on my DL16S/DL32S?
No. Shows created on the DL1608 or DL806 cannot be used on the DL32R and shows created on any of those three mixers cannot be used on the DL16S or DL32S. However, presets created on Master Fader 4 are transferable to Master Fader 5.
How does the I/O patching work on the DL16S and DL32S?

The Input/Output Patch view of Master Fader is where physical inputs are assigned to channels and signals are routed to physical outputs and USB sends. There are 5 separate tabs: Input A, Input B, Output, USB, and Talkback.

**Input A:** Each channel on the DL16S and DL32S has 2 inputs, Input A and Input B. These inputs can then be switched between on a per channel basis. Select the source for the Input A for each channel in this section. The default is mic pre 1 feeding Ch 1’s input A although the user can choose the USB source as well... Input A is also where the User selects the talkback source.

**Input B:** This is where users select the second input of each channel. The default for Input B is the USB playback. So USB 1 is feeding Ch 1’s Input B, USB 2 is feeding Ch 2’s input B and so on.

**Output:** This is where users select the source for the physical outputs on the front of the mixer. By default Aux Sends 1–8 are routed to XLR outputs 1–8 and the Main LR bus is assigned to XLR outputs 9 and 10 on the DL32S. With the DL16S, Aux Sends 1–6 are routed to XLR outputs 1–6 and the Main LR bus is assigned to XLR outputs 7 and 8. However the I/O patching section is incredibly flexible and everything can be routed just about anywhere.

**USB:** This tab is where the signal sources for USB inputs are selected. By default Mic Pre 1 will feed USB 1 and Mic Pre 2 will feed USB 2 etc. This section allows users a large amount of flexibility in what can be routed to the USB inputs.

**Talkback:** Assigns which bus the talkback microphone is feeding.

Why can’t I see my faders?

In the upper left hand of the Master Fader app there is a selector to choose between the three different main views. The Overview shows every single channel, group, and output. The Mixer View shows the selected mix’s channel faders. Channel View shows processing, routing and gain settings of a selected channel. The mixer view is the place where you do the majority of work switching to the channel view to adjust the processing on one channel at a time.
Does Master Fader allow offline editing?
Yes. You can create snapshots, shows and presets offline with the free Mackie Master Fader app. Presets are only stored on the iPad and can be recalled to a channel when desired. Snapshots and Shows (groups of snapshots) are loaded onto the mixer hardware which synchronizes them to all connected iPads. These are then recalled from the hardware from any connected iPad.

Can I make a multi-track recording with the DL16S and DL32S?
Absolutely! The DL16S and DL32S are able to connect to your Mac or Windows computer via the USB port on the front panel. This allows you to record 16x16 with the DL16S and 32x32 with the DL32S at 24-bit/48kHz resolution for both. If these mixers are hooked up via USB cable to a computer for audio streaming, it’s used exactly like an audio interface. Select the DL16S or DL32S as the playback and recording device and use capturing software like Pro Tools or Logic to record the audio.

Do I need drivers to connect to a computer for recording and playback?
For Mac OS, no driver is needed. The DL16S/DL32S uses standard Core Audio protocol for recording and playback. For Windows computers you will need to download and install the driver from our website.

Are there inserts?
There are no inserts, instead there is DSP built in to every channel so no inserts are needed.

Are there aux returns?
There are not dedicated aux return inputs but there are four return channels that can be used for any source desired. Additionally, the four internal FX processors have dedicated return channels.

Can I use Master Fader 4.6.2 with the DL16S and DL32S?
No. These mixers will not be compatible with previous versions of Master Fader and will only work with Master Fader 5 or newer.
If you link channels, do the gain / trim control both channels?
No. They are completely independent on linked channels. This provides the flexibility needed for stereo sources with different levels.

Can you name the Aux sends and outputs of these mixers?
You can label everything in Master Fader, including aux sends, sub groups, channels, VCAs, etc.

Do the DL16S and DL32S have phantom power?
Yes. Phantom power can be turned on and off individually for each of the 16 (DL16S) or 32 (DL32S) mic inputs via the Master Fader app.

Can I link two DL32S mixers together for 64 input operation?
No, the DL32S uses all of its processing for 32 channel operation, instead of limiting its functionality with 32 channels to reserve processing for 64 inputs. This is the same for the DL16S.

How many devices can I use at one time to control the DL16S and DL32S mixers?
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.

Do I have more control of my Access Limits in Master Fader 5?
Access limiting will work like it did with previous Master Fader versions. So, no, you will not have “more” control of the Access Limits and it will require you to set permissions on each physical device.
Can I charge my iPad/tablet with the DL16S/DL32S?
No. There is no charge out on the DL16S or DL32S. The USB out on these mixers is used for connecting to a Mac or Windows computer to record.

Does the built-in Wi-Fi run both 2.4GHz and 5GHz?
The DL16S/DL32S built-in wireless is 2.4GHz and does not run 5GHz. They do, however, support an external router if you wish to use 5GHz.

What AD/DA converters are in the DL16S/DL32S mixers? What sample rate and bit depth are used?
The DL16S and DL32S use 24-bit Cirrus Logic® AD/DA converters with 111dB dynamic range (A-weighted) operating at 48 kHz. These are the same converters used in the DL806, DL1608, and DL32R mixers.

Do the DL16S/DL32S mixers use Universal Power Supplies?
Yes! Both the DL16S and DL32S mixers use an internal universal, 100 VAC – 240 VAC, 50–60 Hz supply. It only requires an IEC to plug from the wall to the mixer. To change from one region to another, you must simply supply the correct IEC cable.

How do I zero out/reset an EQ/Comp/Channel quickly?
Every processor has a “Default” factory preset. Simply recall this just as you would any other preset to reset the processor to its default state. There are “Default” presets for each individual processor type as well as for input channels and output channels allowing you to reset the complete channel. Finally, there is also a “Default” snapshot allowing you zero the entire console quickly and easily.