

Five Simple Steps

Hello friends and welcome to the future of mixing. This document is just what it says it is: a Quick Start Guide for the DL806 and DL1608. No introduction, no filler, no fluff. Just the very basics to get you started quickly.

In the following pages, you will be taught how to make connections and set levels. You will learn your way around the Master Fader app. And in the end, you will be known around the neighborhood as the cool kid. Yes, you.

Upon completion, if you're still hungry for more, the DL806 / DL1608 Reference Guide contains major in-depth coverage of everything listed within these pages.

Let's get started in five simple steps...

1. Get the Apple iPad (and Wi-Fi Router).
2. Download the Master Fader App.
3. Connect the iPad to the DL806 or DL1608.
4. Make the Audio Connections.
5. Fire Up the DL806 or DL1608 and Launch the Master Fader App.

1. Get the iPad (and Wi-Fi Router):

Ah, the easiest step of the bunch... or is it? Simply grab your iPad and Wi-Fi router. But first...

...where did I leave that darn thing? Is it in the bedroom? The bathroom? Did I leave it at work? Wait, the dogs are using it...that's right!



Ruh, good doggie!

Once Charlie, Sammy, Rocky, Rhodie and Juno have finished checking out the closest place to get their favorite doggie treats, it's time for you to get going.

One of the exciting features of this mixer-iPad marriage is the ability to mix wirelessly. Although not required for wired operation, be sure that your Wi-Fi router is nearby, as we will be discussing wireless connectivity shortly.

The exact hardware needed for wired and wireless functionality depends on the DL Series mixer and iPad in use. Make sure you have the right iPad, mixer dock and tray insert for your combination.

Please see the Compatibility Matrix on the DL Series website for the latest information:

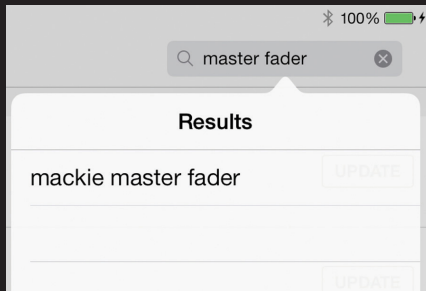
<http://www.mackie.com/products/dlseries/specs/>

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2. Download the Master Fader App:

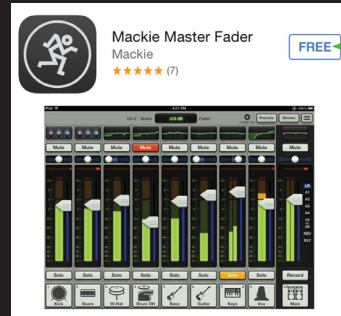
The Master Fader app controls the mixer and may be downloaded via iTunes on Mac or PC or right from the iPad. You've downloaded apps on an iPad before and it's the same method to download this one, as well. Here's how...

With a good internet connection via Wi-Fi, 3G, or LTE, turn on the iPad and tap the App Store icon. Type "master fader" in the search box located near the top-right of the screen.

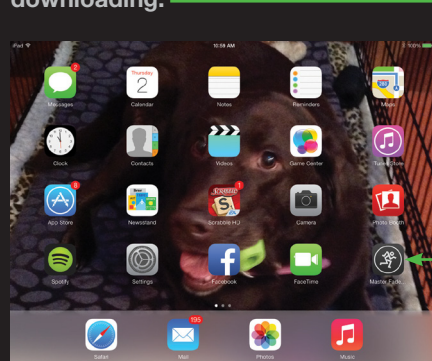


Tap the blue FREE button. This then turns into a green INSTALL button.

Do not be afraid...install!



As if by magic, the Master Fader icon appears on the iPad Home screen after it has finished downloading.



Even if your iPad has the Master Fader app already installed, it's a good idea to go to the App Store now to check for updates. You will want the latest and greatest version for the absolute best in functionality and versatility.

3. Connect the iPad to the DL806 or DL1608:

The iPad easily slides onto the mixer right to left, face up, Home button on the left; keep sliding until it mates with the iPad's dock connector.

The docked iPad should be as naked as possible! Remove all covers, skins, cases, stickers, magnets, etc. Naked isn't always a good thing, but in this case it's a necessity!

Also included with the mixer is a PadLock™. This is used to lock the iPad into place on the mixer. Place the PadLock on the right hand side of the mixer and hand-tighten each of the two security screws using the supplied wrench.

Need a little more information on any of the above? Detailed descriptions (with pictures even!) exists in the Reference Guide.

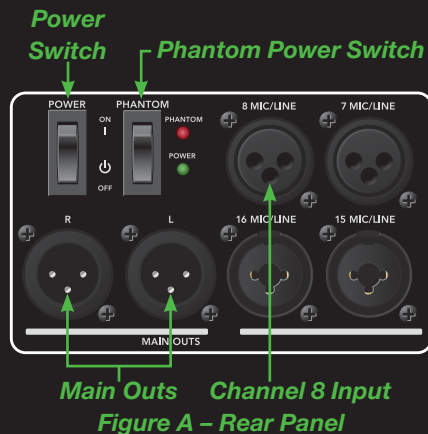
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4. Make the Audio Connections:

Now it's time to make some audio connections. First, make sure the Power switch and Phantom Power switch are both OFF [down], [Figure A]. Also, be sure all Gain knobs and the Phones knob are fully counter-clockwise to start, [Figure B].

You will need (at the very least) the following items to get the most out of this Quick Start Guide:

- 1) microphone, 2) speakers,
- 3) headphones, 4) cables.

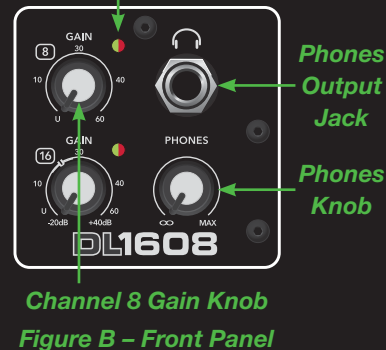


1) Plug the microphone into the channel 8 input [Figure A]; that's right, we're getting all crazy now, skipping channels 1 – 7...who knows what we'll do next?!

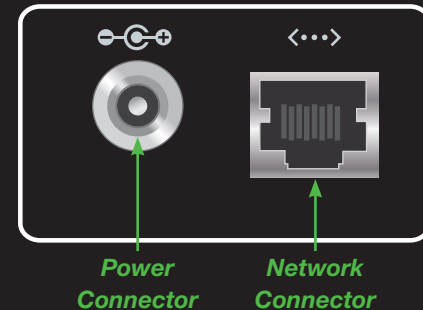
2) Connect the Main Outs [Figure A] of the mixer to the line-level inputs of powered speakers or to the line-level inputs of an amplifier (with speakers already attached).

3) Plug your favorite pair of headphones into the 1/4" Phones output jack [Figure B].

Channel 8 Signal / Clip LED



A 12V DC power supply [aka The Power Block] and a line cord are included with the mixer. A locking barrel connector resides at the end of the cord attached to The Power Block. Attach it to the mixer's Power Connector [Figure C] and rotate the outer ring clockwise to lock. Now plug the female end of the line cord into The Power Block and the male end into a live grounded AC outlet. The mixer may accept any AC voltage ranging from 100 VAC to 240 VAC.



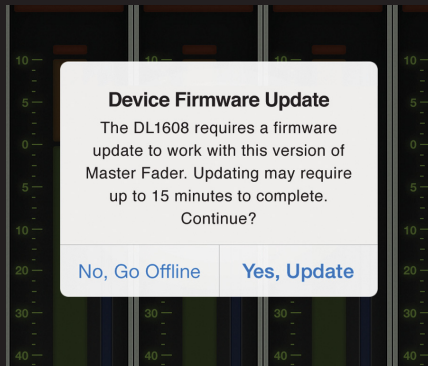
For now, disregard the Network Connector, Aux Sends and anything else not mentioned in these first few pages. We will dive into all of these features later. Our first goal is to ensure that the mixer and app are communicating with each other, followed by driving signal through the mixer.

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5. Fire Up the DL806 or DL1608 and Launch the Master Fader App: Step five is the reward for following the four previous steps. It's time to turn on the mixer, but whispering "sweet nothings" to it won't help. Instead, you will need to press the top edge of the Power switch to fire it up [Figure A]. The Power LED will illuminate green when engaged.

Now launch the Master Fader app to get it started. Go ahead and tap that app!

At this point, you will likely be prompted to update the firmware. Do so by following the on-screen instructions before continuing.



After updating, the *Mixer View* [Figure D] will be shown and at this point you will want to verify connectivity. This is easy to do, as there are only two possibilities: connected or offline.

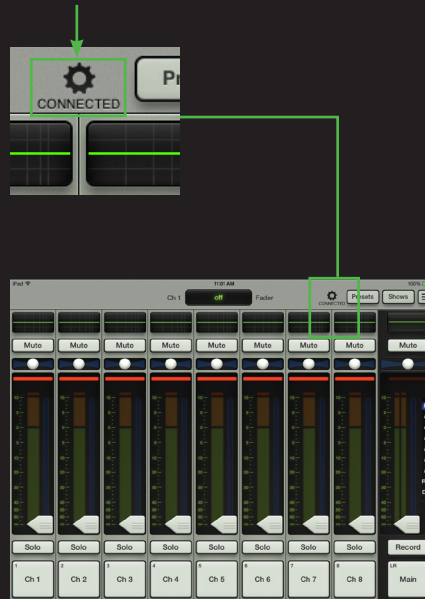


Figure D – Mixer View: Connected

Figure E below shows an iPad that is currently offline. In other words, not connected to the mixer.



Figure E – Mixer View: Offline

So if your app looks like Figure D, you are cool as a cucumber, ready to rock...or jazz...or country...or whatever else it is that you do at times like these.

In the unusual instance that "OFFLINE" is displayed, please follow the directions again, step-by-step, and also check out the Troubleshooting section in the Reference Guide.

If "OFFLINE" still remains, please contact our splendid Technical Support heroes. See page 31 for contact information.

Setting the Levels

Setting the Level on Channel 8

Dudes and dudettes, the mixer hardware and Master Fader app are now one and we are ready to start working! Let's get signal running through the mixer from channel 8.

Is a condenser mic (or any other mic that requires phantom power) connected to the channel 8 input? If so, engage the Phantom Power switch [Figure A] by pressing up on it. If not, leave it be. This switch lies conveniently next to the Power switch. The Phantom Power LED will illuminate red when the switch is engaged.

Next, start talking, singing, crooning, chanting, humming, warbling, yodeling, whistling and / or growling into the mic at a real-world level. While doing this, turn the channel 8 Gain knob [Figure F] clockwise until the meters on the channel 8 fader bounce between the green and yellow [Figure G].

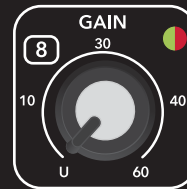


Figure F:
Channel 8 Gain Knob

Note: Audio geeks may refer to this area as -15 dBFS. Go ahead and impress your friends with this knowledge. This one's a freebie, but the next one will cost you.



Figure G - Mixer View:
Channel 8 and Master Fader

Setting the Levels

Do you notice the Signal / Clip LED located near the upper-right area of the channel 8 Gain knob? This LED illuminates green (to indicate signal) and red (to indicate clipping). Clipping is undesirable; turn the Gain knob counter-clockwise if this LED constantly flashes red.

Are you ready to kick things up a notch? Touch the channel 8 fader and drag it up to around the 0 dB mark. Slowly do the same to the master fader, while continuing to rock out on the mic.

You should now see signal on the input and output meters [Figure H], as well as hear the signal through the speakers. How's that for kicking it up a notch?!

Now let's get signal through the headphones.

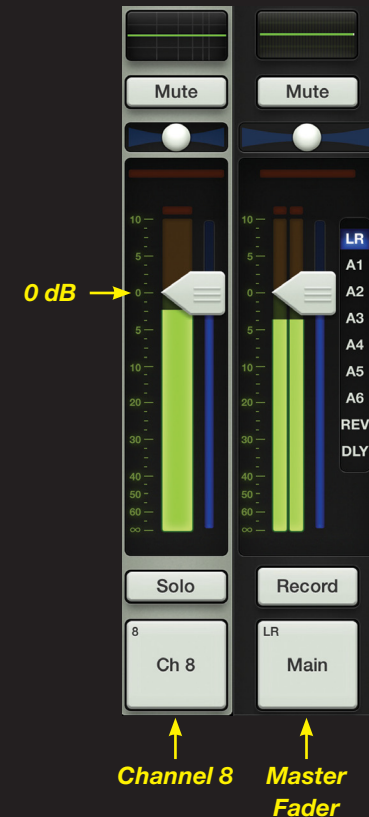


WARNING: The headphones amp is loud and could cause permanent hearing damage. Even intermediate levels may be painfully loud with some headphones. **BE CAREFUL!** Always turn the Phones knob all the way down before connecting headphones or doing anything new that may affect the headphone volume. Then turn it up slowly while listening carefully.

Put the headphones on and slowly turn the Phones knob [Figure B] clockwise until you hear the talking/singing/crooning/chanting/humming/warbling/yodeling/whistling/growling coming through the cans.

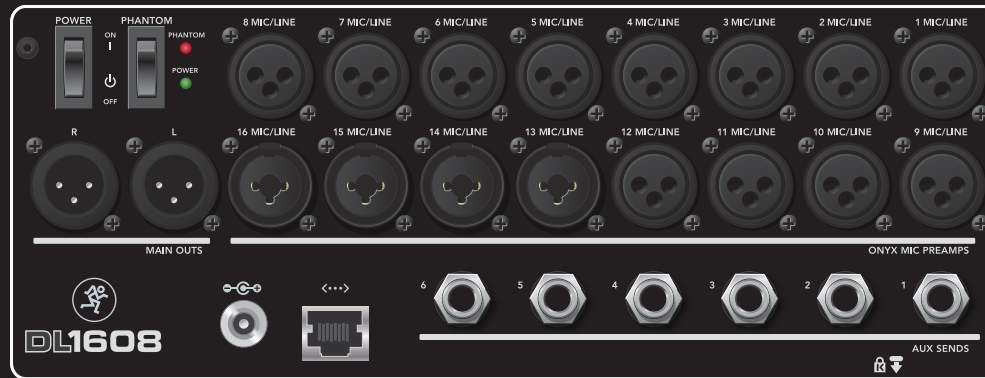
Congratulations! You just downloaded the Master Fader App, connected the iPad to the mixer, made audio connections and set the level on your first channel!

Now let's take a look at the hardware and software in greater detail.



**Figure H – Mixer View:
Channel 8 and Master Fader**

Mixer Hardware : Connections



Mixer Hardware: Inputs

You already hooked up a mic to the channel 8 input and got signal out of the speakers and headphones. This means that there are an additional 15 inputs at your disposal!¹

All channels may accept a mic or line-level signal on an XLR connector, while channels 13-16² may also accept a 1/4" line-level signal.

The steps for setting the levels on the remaining channels is exactly the same as it was for channel 8 (as described in the previous two pages, 6-7).

¹ Seven additional inputs on the DL806.
² Channels 5-8 on the DL806.

Mixer Hardware: Aux Sends

Also on the rear panel of the mixer are six Aux Sends³. Here you may run up to six separate monitor mixes by connecting these balanced 1/4" jacks to the line-level inputs of powered speakers or to line-level inputs of an amplifier (with speakers already attached).

Headphone amplifiers and/or external effects devices may also be connected to the Aux Sends.

We will discuss setting aux levels later in the Quick Start Guide.

³ Four Aux Sends on the DL806.

Mixer Hardware: Network

The real power of the mixer becomes clear when it is controlled wirelessly. All that's necessary is to connect it to a Wi-Fi access point. It is possible to utilize an existing network, but with a dedicated Wi-Fi router, you have complete control of the router, resulting in the best possible performance.

Nearly any Wi-Fi router found at a reputable store will work. There are four things to look for:

- (1) Ethernet connection. Make sure the Wi-Fi router connects via Ethernet, NOT USB!
- (2) DHCP. The router needs to be able to assign an IP address to the mixer.

Mixer Hardware : Wireless Setup

In most cases, the router will handle this task. However, there are some routers that can't complete this simple assignment and should not be used. Routers with a single Ethernet port often will not work well with the DL806 and DL1608 for this reason.

(3) 802.11n. We prefer and strongly suggest going with an 802.11n as your Wi-Fi mode. However, 802.11g also works.

(4) Name. We are not in the business of suggesting what Wi-Fi router to go with, but choosing one with an instantly recognizable, quality, trustworthy brand name doesn't hurt. OK let's go!

Step 1: Turn the mixer off.

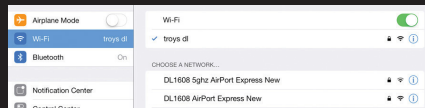
Step 2: Plug in the Wi-Fi router. Most of the default router settings will work with your mixer, but you might need to configure the wireless router first. Please refer to the router's manual for detailed information.

Step 3: Connect an Ethernet cable between the mixer and router. Make sure you are using a LAN port on the router, not a WAN port!

Step 4: Turn on the Wi-Fi router first and wait for it to completely boot up. Good? Now turn on the mixer.

Quick Start Guide

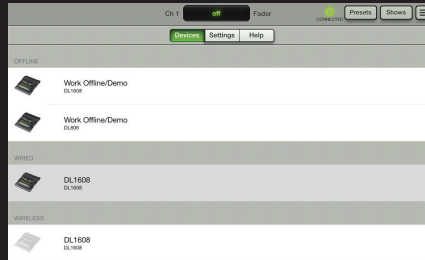
Step 5: In the iPad's Wi-Fi settings page, select the name of the wireless network you created. This might be the default name of the router. You might also have to enter the router's default password at this time. Make sure the correct network is selected.



Step 6: Slide the iPad into the dock of the mixer, if it isn't already.

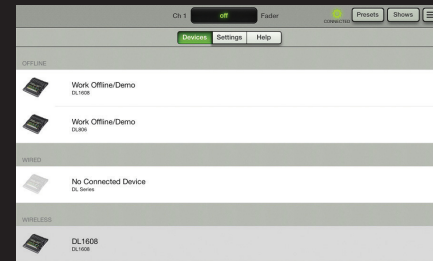
Step 7: Launch the Master Fader app.

Step 8: Click the Gear icon to display the Tools menu. From here, select Devices.



Step 9: There will be three unique sections listed: Work Offline/ Demo, Wired and Wireless. At this point the Wired DL806 or DL1608 should be selected. Now leave the Tools menu and reconfirm that the DL806 or DL1608 may be controlled from Master Fader over the wired connection.

Step 10: Go back to the Tools > Devices menu. Now undock the iPad from the mixer and select the Wireless DL806 or DL1608 from the devices list.



At this point you should be able to control the mixer wirelessly. Also, "CONNECTED" should now be displayed below the Tools icon.



If "DISCONNECTED" is shown, or the DL806 or DL1608 is not shown in the wireless devices list, please follow the directions again, step by step, and also check out the Reference Guide for more detailed instructions. If all else fails, contact our splendid technical support heroes. See page 31 for contact information.

That wasn't so bad now, was it? Hardware complete, commence with software. Turn the page to learn more about the Master Fader app...

Overview

Introduction

The Master Fader app has powerful features, but it is easy to learn...and the more you use it, the more intuitive it becomes.

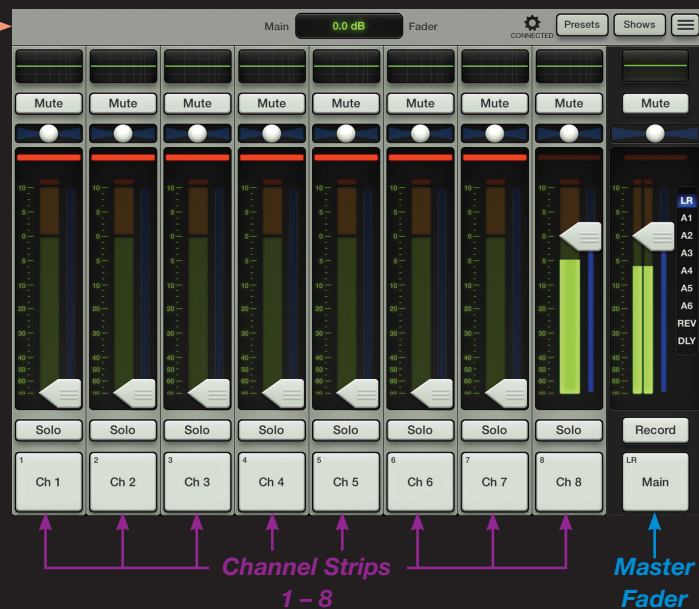
As you work your way through each of these sections, we urge you to **NOT** just read this Quick Start Guide and look at the images, but instead, take each piece of newfound knowledge and put it to use...**PLAY** with it! Move faders, engage buttons, change images and personalize names, etc. This is software and cannot be broken.

We'll start with the features of the *Mixer View* as this is where you will spend much of the time. The key mixing controls of every input and output of the mixer exist here.

You will also spend quite a bit of time in the *Channel View*. The *Channel View* is where plug-in processing is adjusted on individual channel inputs and outputs, including EQ, dynamics and FX. More on this later.

Navigation Bar →

Mixer View



We'll start in the *Mixer View* discussing Channel Strips and the Master Fader. Then we'll have even more fun in *Channel View* territory and finish off this tutorial with the Navigation Bar that lies horizontally across the top.

Nine channels (including the Master Fader) and the Navigation Bar will always be displayed on the *Mixer View*. In fact, the Master Fader and Navigation Bar will remain regardless of the selected view, channel, effect, etc.

Overview



But just how did we get from the image displayed on the previous page to the image displayed on this page? And what about channels 9, 10 and 11? This is where your iPad skills come into play!

To view a different set of channels, simply touch anywhere on the black background [we call this “The Swipe Zone”] of a channel and drag or flick the *Mixer View* left or right. The view scrolls, giving you immediate access to whatever channels you desire.

Dragging and flicking are both seamless transitions. Flicking just happens to occur at a faster rate. You will be doing this gesture quite a bit. Some items may be dragged or flicked up and down, too.

In this case, – “But just how did we get from the image displayed on the previous page to the image displayed on this page?” – drag or flick the view left to view the image displayed on this page or drag or flick the view right to view the image displayed on the previous page.

Got it? Let’s look at how the Channel Strips work...

Take a look at the *Mixer View* image on the previous page and the *Mixer View* image on this page. What differences do you notice?

They look similar (and are similar to a degree)... However, the image on the previous page displays Channel Strips 1-8, while the image on this page displays Channel Strips 12-16⁴, Reverb, Delay and the iPad channel.

⁴ The DL806 will display Channel Strips 4-8, Reverb, Delay and the iPad channel.

Channel Strips

Channel Strips: Introduction

While dragging the *Mixer View* left and right, you may have noticed that each channel strip looks almost exactly the same. Well, it's because they are! We will go over the features of one channel strip top to bottom. The same idea works for the remaining channel faders.

Since we already dialed in signal on channel 8, let's utilize each function on that channel as they are discussed; this gives you an audible, as well as a visual, representation of each function.

Channel Strips: EQ

The EQ curve displays the current EQ processing applied to each channel. Tapping a channel's EQ curve will change the outlook from the *Mixer View* to that channel's *Channel View*. EQs that are engaged will illuminate.

You will learn how to adjust the EQ soon, but if you're feeling saucy, go try it out now! When you are ready to return to the *Mixer View*, just tap the Mixer button located in the top-left corner of the app.

Channel Strips: Mute

Mute buttons do just what they sound like they do. They mute – turn off – the signal on the channel(s). Mute buttons illuminate red when engaged. Go ahead and mute and un-mute channel 8 to hear and see the difference.

Channel Strips: Pan

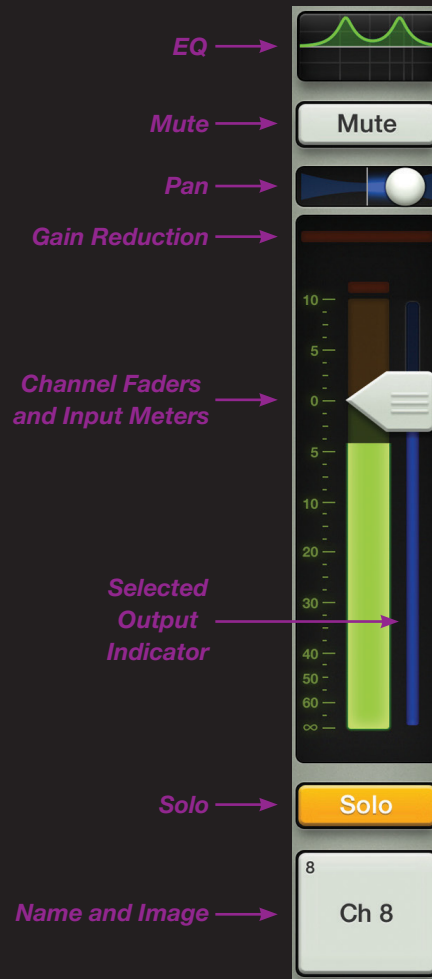
Just below the Mute buttons are the horizontal Pan sliders. These controls allow you to adjust how much of the channel signal is sent to the left versus the right outputs. Touch and drag the channel 8 Pan slider left and right to make adjustments. Tapping a channel's Pan ball twice will center it.

Note that the pan function is only available when the selected output is LR. More on the selected output later.

Channel Strips: Gain Reduction

The Gain Reduction Meter displays the input channel gain reduction from the Gate and Compressor. The single meter shows the sum of the total reduction applied by the Gate and Compressor.

You will learn how to adjust the Gates and Compressors soon.



Channel Strips

Channel Faders and Input Meters

The channel fader adjusts the level of each channel going to the selected output, including the LR Main Mix, Auxes, Reverb and Delay. We will discuss the ins and outs of the selected output later. Adjustments are made by touching and dragging channels up and down. You may have noticed that a touched fader increases in size and its border becomes highlighted, giving you clear indication that a fader is being adjusted. This is called “Grow & Glow” and gives you confidence that the fader is under your control.

Next to each channel fader lies an input meter. These display the input signal level to the channel before all channel processing. Changes made to the EQ, mute and fader do not affect these meters. As mentioned earlier, this meter should remain green with the occasional bump into the yellow zone.

Turn down the Gain knob if the input meter remains consistently yellow. If the input is too high [overloading], a clip indicator at the top of the meter will illuminate red. If clipping occurs, reduce the gain.

Finally, the thin illuminated strip underneath the fader cap indicates which output type is currently selected; the color varies and is dependent on the selected output [LR, Auxes or FX]. This topic will be discussed further on page 16 of the Master Fader section.

Channel Strips: Solo

Solo offers the opportunity to audition channel(s) before they are added to the mix. Whenever a channel’s Solo button is engaged, only the soloed channel(s) may be heard in the headphones.

These Solo buttons are PFL which stands for Pre-Fader Listen. Therefore, the level of the channel fader does not affect the level heard in the headphones.

Solo is also post-EQ, so if a soloed channel’s EQ is engaged, the EQ settings will be heard. But, solo is unaffected by the position of the Mute button.

If no channels are soloed, you will hear the LR signal through the headphones.

The Solo button illuminates yellow when engaged.

Channel Strips: Name and Image

Each channel strip name and image is user-editable. Simply tap the button at the bottom of the channel and a popover allows editing a name or selecting an image. Utilize the keyboard to personalize the name or choose a new image from the popover [Figure J]. If the name is too long to fit, the button scrolls, displaying the entire name.

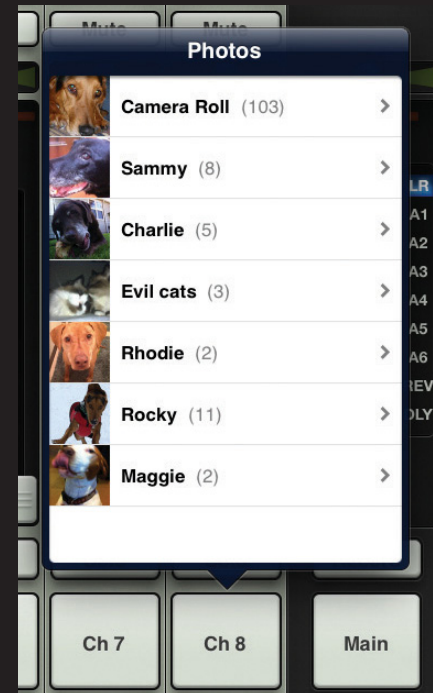


Figure J – Names and Images

Channel Strips

Channel Strips: FX and iPad

Drag the *Mixer View* left until Channel Strips 12-16, Reverb, Delay, iPad and the Master Fader⁵ are in view. The two FX channels [Reverb and Delay] and one iPad channel look similar to the Channel Strips, but function a little differently. Let's find out how...

Channel Strips: Reverb / Delay

There are four ways in which the Reverb and Delay channel strips differ from the other channel strips.

First, the EQ curve is replaced with an image of the FX in use.

Additionally, the Pan slider becomes a Balance slider, acting as a stereo balance. It allows you to adjust how much of the left or right output signals are heard. Touch and drag the slider left or right to make adjustments.

Also, there are no dynamics on FX channels, so Gain Reduction Meters are not shown.



Finally, since these are stereo returns, the meters are in stereo, not mono.

You will learn how to adjust the FX soon.

Channel Strips: iPad / Playback

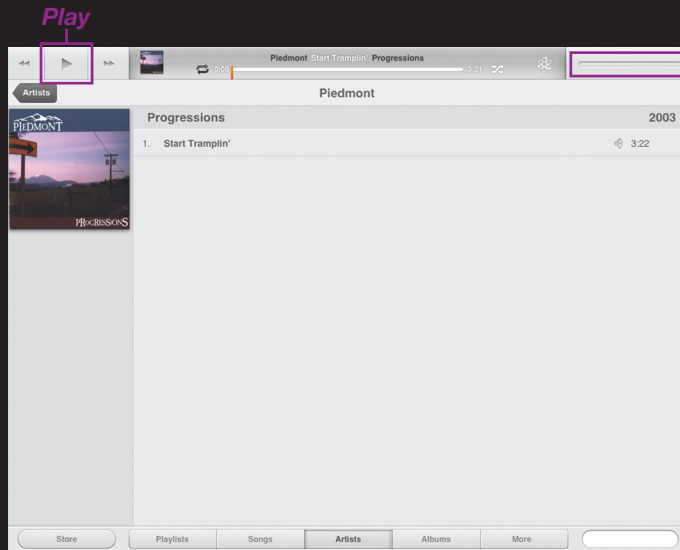
This is the channel where you control the level and EQ from the iPad music library or any other audio app on the iPad that supports background audio playback.

Keep the iPad attached to the mixer here, as playback only works when attached to the mixer, not in Wi-Fi mode.

Now start playback in the audio app of your choice, then switch to the Master Fader app to control that source in the mix.

⁵ Channels 4-8, Reverb, Delay, iPad and the Master Fader on the DL806.

Channel Strips



Space previously known as the Music app volume slider

Figure K – Music app

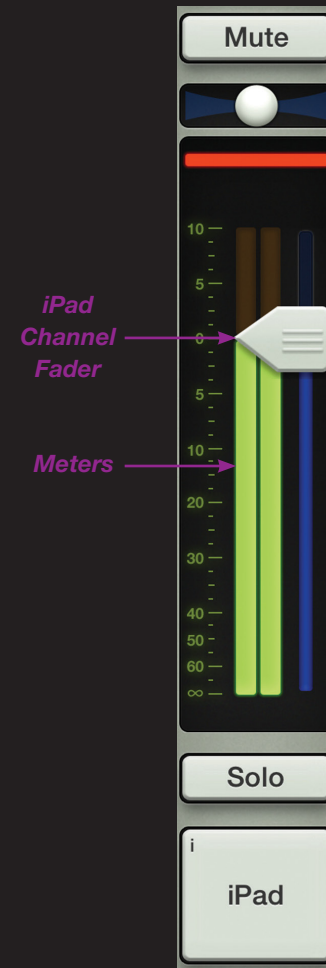
For example, switch to the Music app on the iPad [Figure K]. Notice that the volume slider image is not available. This is because the volume is now changed with the Master Fader app.

Tap the Play button to begin playback. Now switch back to the Master Fader app by pressing the Home button on the iPad and relaunching the Master Fader app. Everything will be just as you left it.

Heed our advice and raise the iPad channel fader slowly [Figure L]. Most mastered music coming off the iPad is loud.

As the fader rises, so should the music in your speakers and headphones.

Like the FX channel strips, the iPad channel also has stereo meters, although this channel may be unlinked to create two separate mono iPad channels. Check out the Reference Guide for instructions!



iPad Channel Fader

Meters

Figure L – iPad Channel

Master Fader

Master Fader: Introduction

The master fader is arguably the most important tool of the mixer. So much so, in fact, that the master fader is always displayed no matter what view is shown.

Take a look at the master fader displayed to the right and the one on the next page. They look similar, but there are a few differences.

The Output Selector has the most important role, so we'll start there. After that, we will head back to the top of the master fader and work our way down.

Master Fader: Output Selector

The *Mixer View* shows a fader for each channel. Initially, this fader controls the level to the LR output. But how do you control the level going to the Aux Sends? Or how about the Aux Master level? Simple. Use the Output Selector to switch between outputs.

There are nine possible outputs to select: LR, A1-A6⁶, Reverb and Delay.

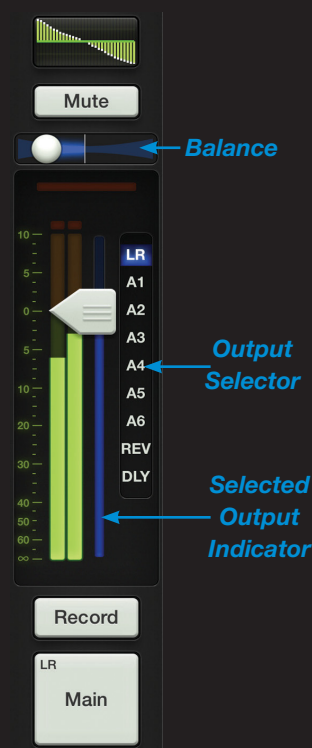


Figure M
Master Fader:
LR

As seen in Figure M, the currently selected output [LR] is illuminated. Changing the selected output is easy. Simply touch the Output Selector and it will immediately “Grow & Glow”. Move your finger to the desired output and release.

Once a different output has been selected, the channel faders will change to show the level going to the newly selected output. Similarly, the master fader will change to show the controls of the newly selected output.

Here the *Mixer View* acts like a window where you may view and change one output’s mix at a time. No matter which output is currently selected, the others are still there, as they were.

Do you notice the thin illuminated strip underneath the master fader cap? This also helps indicate which output type is currently selected; the color varies and is dependent on the selected output. This is the same indicator that is also on display underneath the fader cap of each input fader.

⁶ A1-A4 on the DL806.

Master Fader

Master Fader: GEQ and PEQ

The master fader EQ displays the current Graphic EQ and Parametric EQ settings simultaneously.

When the Graphic EQ and/or Parametric EQ is engaged, it will illuminate. Tapping the master fader's GEQ/PEQ will change the view from the Mixer View to the Channel View for the currently selected output. The GEQ/PEQ is available with all selected outputs, except Reverb and Delay. You will learn how to adjust the GEQ/PEQ soon.

Master Fader: Mute

The master fader mute works exactly like a channel mute, except it mutes the output. Use it as a break switch to mute monitors when the band takes a break, for example. The Mute button is available when any output is selected. It illuminates red when engaged.

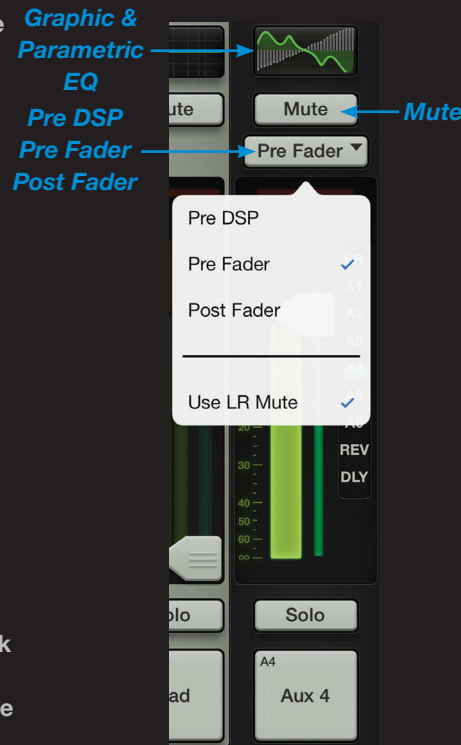


Figure N
Master Fader:
Auxes & FX

Master Fader: Balance & Pre/Post

When LR is the selected output, the Balance slider controls how much of the output signal is sent to the left versus the right outputs [Figure M]. Touch and drag the slider left or right to make adjustments. Tapping the master fader's Balance ball twice will center it.

When an Aux Send, Reverb or Delay is the selected output, the Balance control is replaced with a Pre / Post selection [Figure N]. Here, the output may be configured as Pre DSP (auxes only), Pre Fader or Post Fader. Simply tap which setting you prefer.

Master Fader

Master Fader: Gain Reduction

Like channel faders, the output Gain Reduction Meter shows the amount of gain reduction applied to the output by the Compressor / Limiter. Output channels do not contain gates.

You will learn how to adjust the Output Compressor / Limiter soon.

Master Fader and Output Meter

As discussed, the master fader adjusts the output level of the LR, Aux Masters 1-6⁷ and the Reverb and Delay Master Sends, depending on which output is selected. While one fader controls the output level of each output, each output is independent of the others. Once the selected output has been chosen, touch and drag the master fader up and down to make adjustments.

The output meter displays the output signal level. The output meter is presented in mono or stereo depending on the selected output. It is stereo for LR while the Auxes and FX Sends are presented in mono.

⁷ Aux Masters 1-4 on the DL806.

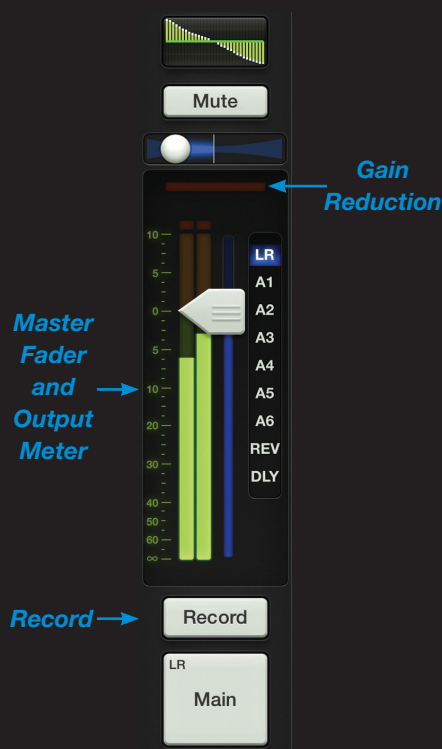


Figure M
Master Fader:
LR

Speaking of FX, if Reverb or Delay is selected, the fader controls the master send into the corresponding FX processor.

This meter should remain green with the occasional bump into the yellow zone. The output meters are post-fader, so if there is too much yellow (or any red clipping), lower the master fader until it's gone and check the input channels, as well.

Master Fader: Record and Solo

If the selected output is LR, a Record button resides below the master fader as seen to the left in Figure M. This allows you to easily record the LR output on the iPad.

Similar to playback, recording also only works when the iPad is attached to the mixer, not in Wi-Fi mode.

Pressing Record will begin recording immediately. The Recording button illuminates red when engaged.

Pressing this button a second time asks you to confirm your wish to stop the recording, then asks you to name this masterpiece. If you'd prefer to think this recording never took place – it happens, we know – it may be discarded at this point.

Master Fader

The stereo recording is automatically saved as a .wav file within the application. In addition to the name, this .wav file also includes the date and time the recording started. Use iTunes to retrieve recordings off of the iPad.

No worries if the selected output is changed during recording. Recording will continue on as if nothing happened until recording is stopped manually.

Now check out the Record button on Figure N. It's gone! Well, maybe not gone per se, but just replaced with a Solo button. If the selected output is any Aux, Reverb, or Delay, the Record button will be replaced with a Solo button.

Soloing offers the opportunity to audition the selected output and make any necessary level adjustments to the inputs. The output solo is AFL, so the fader level will affect the signal you hear in the headphones.

The Solo button illuminates yellow when engaged.



Figure N
Master Fader:
Auxes & FX

Master Fader: Name and Image

The master fader's name and image is similar to that of a channel strip's name and image.

Like the channel faders, the master fader's name and image is also user-editable. Simply tap the button at the bottom of the master fader and a popover allows editing a name or selecting an image. Utilize the keyboard to personalize the name or choose a new image from the popover [Figure O]. If the name is too long to fit, the button scrolls, displaying the entire name.

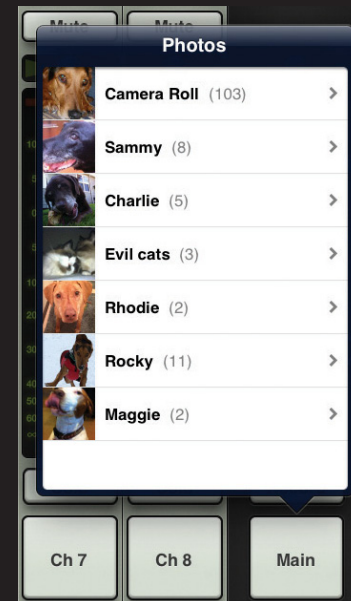


Figure O – Names and Images

EQ

Channel View: Introduction

Now the real fun begins! We have a good grasp on the *Mixer View*, including the Channel Strips, Master Fader and Navigation Bar, so let's spice up the mix now with some processing.

All channel processing is accessed in the *Channel View*. There are multiple views including EQ, Gate and Compression and FX for inputs and Graphic EQ and Compressor / Limiter for the outputs. EQ is the first processor in the *Channel View*, so we'll begin there.

To get to the *Channel View* tap the channel's EQ curve from the *Mixer View*. Since we have signal on channel 8, tap that channel's EQ curve.

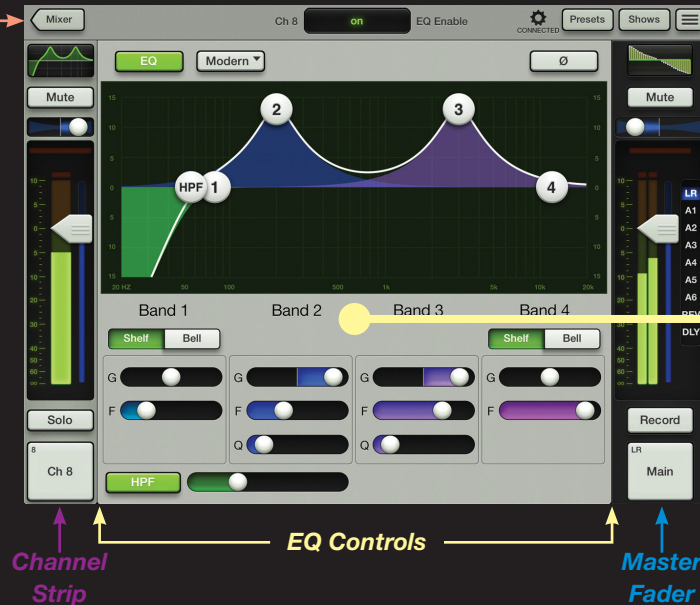
Note: If at any time you need to return to the *Mixer View*, just tap the Mixer button located in the top-left corner of the app. It's that easy!

EQ: Introduction

The input channels, Reverb, Delay and iPad channels all have 4-band EQ, including low shelving, low-mid peaking, high-mid peaking and high shelving. The mic inputs also have a high-pass filter [HPF].

Navigation Bar →

EQ View



The Swipe Zone

Before discussing the components that make up the *EQ View*, let's first take a look at it and get our bearings.

Laid out vertically on the far left of the screen is the Channel Strip of the current channel.

As mentioned earlier, no matter what view is displayed, the Master Fader would remain vertically on the far right and the Navigation Bar would lie horizontally across the top. As such, they are both there.

Finally, boxed in between the Channel Strip, the Master Fader and the Navigation Bar is the current channel's EQ controls...or as we like to call it, "the playground!"

We have our bearings, so let's get to work! Like we did with the *Mixer View*, we'll look at the *EQ View* starting at the top-left and work our way counter-clockwise.

EQ

EQ: EQ On / Off

Tap this button to turn the current channel's EQ on and off.

When on, the EQ controls affect the signal and the button illuminates green. When off, the EQ controls have no effect on the signal, nor will the button illuminate. However, the EQ controls may still be adjusted. Notice the difference between the EQ Display on the previous page [EQ On] versus the EQ Display on this page [EQ Off].

EQ: Modern / Vintage

Tap this button to choose between using clean, surgical modern EQ or classic sounding vintage EQ.

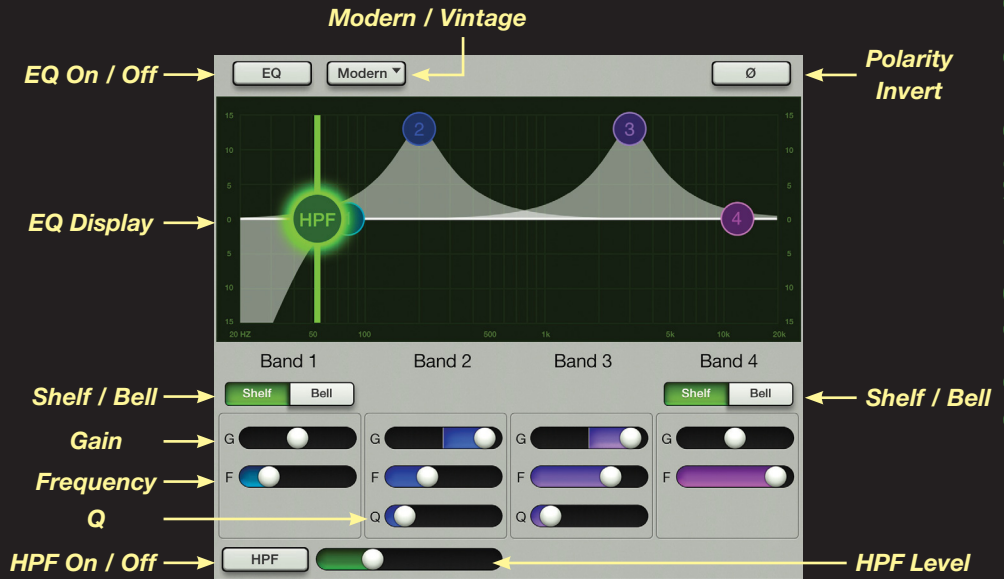
EQ Display: Gain, Frequency & Q

The EQ is easily adjusted by moving the four numbered balls (representing each band) until the desired sound has been achieved.

Move a ball up and down to change the gain and move it left and right to change the frequency. Pinch a ball to adjust its Q [bandwidth]. Double-tap a ball to reset its gain to zero.

Notice that whatever ball is touched, it "Grows & Glows". Additionally, a line runs vertically

Quick Start Guide



through the middle for easy viewing of its frequency.

Each band is represented by a different color corresponding to the individual band controls located at the bottom of the EQ View. The settings may also be changed here by dragging these sliders left and right.

EQ: Shelf / Bell

A Shelf / Bell option is available for the Low Band EQ [Band 1] and High Band EQ [Band 4]. Simply tap which setting you would prefer for each band.

EQ: HPF On / Off and Level

Tap this button once to engage the high pass filter and illuminate the button.

When disengaged, the HPF has no effect on the signal, nor will the button illuminate.

The slider to the right is utilized to increase or decrease the frequency. You may also slide the HPF ball right and left to achieve the same result.

EQ: Polarity Invert [Ø]

When the Polarity Invert button [Ø] is engaged, the polarity of the signal is inverted. The button will also illuminate.

Gate and Compression

Gate/Compression: Introduction

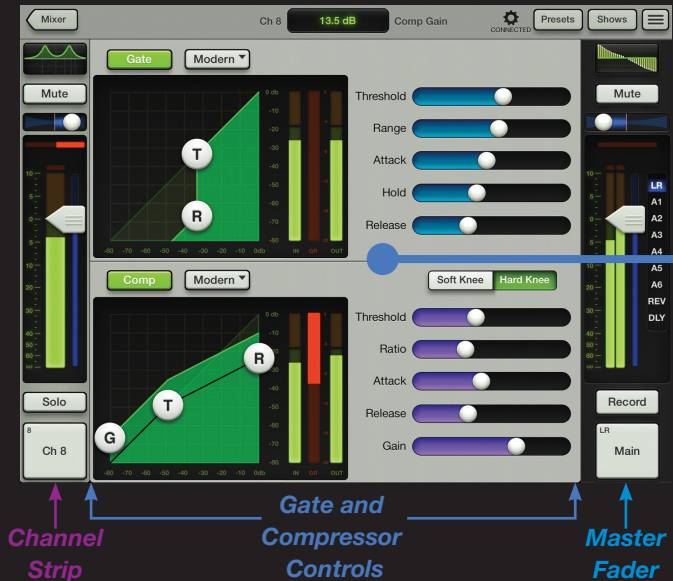
We've learned how to manipulate sounds in the *EQ View*, so now it's time to learn how to shape the sound with Gates and Compressors.

The input channels all have Gates and Compressors readily available, with the ability to tweak and manipulate multiple settings on each.

To get here, simply swipe the entire view up from any gray area of the *EQ View*. The next view is that of the Gate and Compressor. From here, you may swipe down to get back to the *EQ View* or up again to get to the *FX View*. Additionally, you may swipe left and right in any gray area to stay in the *Gate and Compression View*, but instead change to the previous or next channel.

Note: "The Swipe Zone" is called out in each *Channel View*. If you believe these indicate great places to swipe, you would be correct!

Gate and
Compression
View



The
Swipe
Zone

The layout of the *Gate and Compression View* is similar to that of the *EQ View* in that the Channel Strip, Master Fader and Navigation Bar are present, with the Gate and Compressor controls in the middle.

The Gate and Compressor are presented together as one view with the Gate on top and the Compressor below. It is easy to set parameters of both for each channel at one time.

We will first discuss the features of the Gate followed by the Compressor.

Gate and Compression

Gate On / Off

Tap this button to turn the current channel's Gate on and off.

When on, the Gate controls affect the signal and the button illuminates green. When off, the Gate controls have no effect on the signal, nor will the button illuminate. However, the Gate controls may still be adjusted. Notice the difference between the Gate Display on this page [Gate On] versus the Gate Display on the next page [Gate Off].

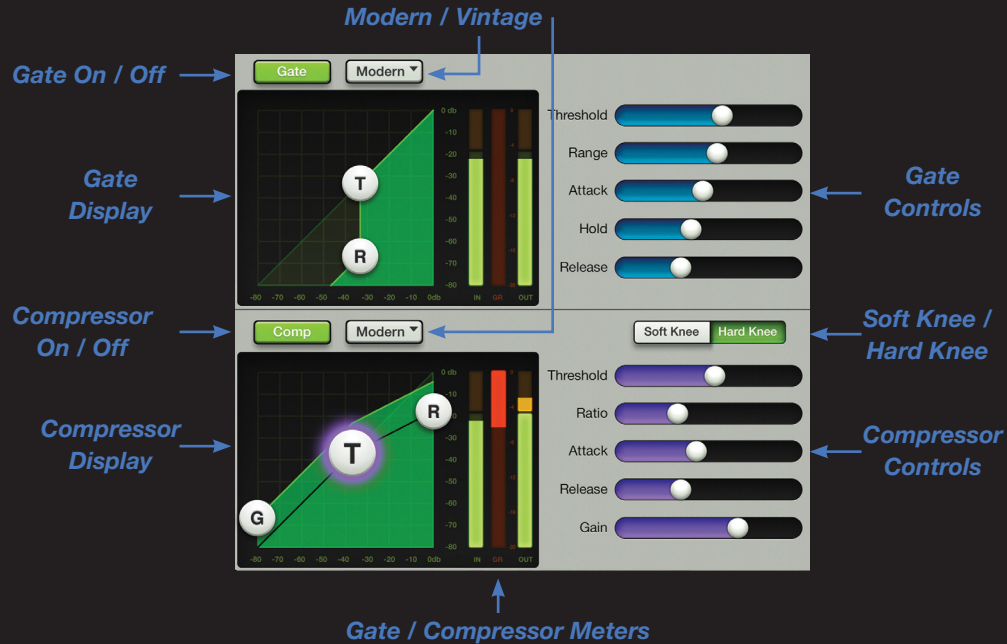
Gate: Modern / Vintage

Tap this button to choose between using a clean, surgical modern gate or a classic sounding vintage gate.

Gate Display and Controls

The Gate Display has two dragable balls, one for the Threshold [T] and one for the Range [R].

The Threshold ball may be dragged up and down diagonally on a 45° axis. The Range ball will always be on the same vertical strip as the threshold and it may only move up and down.



Comp On / Off

The Compressor On / Off button functions exactly like the Gate On / Off button, as described previously.

Comp: Modern / Vintage

Tap this button to choose between using a clean, surgical modern compressor or a classic sounding vintage compressor.

On the far right are the Gate Controls. The threshold and range may be changed here, as well.

Three additional gate controls also available for tweaking are attack, hold and release. These time-based controls may be changed by dragging the sliders left and right. The time is shortest to the left, resulting in a faster response. As the slider is dragged right, the time lengthens, resulting in a slower response.

Gate and Compression

Compressor Display and Controls

The Compressor Display is quite similar to that of the Gate. The draggable ball controls for the compressor include the Gain [G], Threshold [T], Ratio [R].

The Gain ball adjusts the output gain. It lies on the far left of the display and may only be dragged up and down.

The Threshold ball may be dragged up and down on a 45° axis. The Ratio ball is anchored to the far right of the display and may only be dragged up and down. It will always be above the threshold.

On the far right are the compressor controls. The gain, threshold and ratio may be changed here, as well.

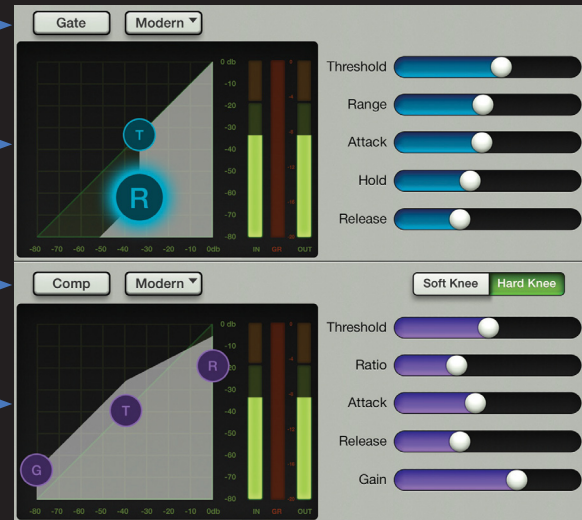
Two additional compressor controls also available for tweaking are attack and release. These time-based controls may be changed by dragging the sliders left and right. The time is shortest to the left, resulting in a faster response. As the slider is dragged right, the time lengthens, resulting in a slower response.

Gate On / Off →

Gate Display →

Compressor On / Off →

Compressor Display →



Gate Controls ←

Soft Knee / Hard Knee ←

Compressor Controls ←

Gate / Compressor Meters ↑

Soft / Hard Knee Compression

A Soft Knee / Hard Knee option is available for each channel compressor. Simply tap which setting you would prefer for each channel.

Gate/Compressor Meters

Between the Gate and Compressor Display and their corresponding controls lies a set of vertical meters. These three meters indicate their individual Input [IN], Gain Reduction [GR] and Output [OUT].

Use these meters to get the desired amount of gain reduction from the Gate and Compressor.

FX

FX: Introduction

The *FX View* looks and works similarly to that of the EQ and Compressor and Gate views.

To get to the *FX View*, simply swipe the entire view up (again, from any gray area) from the *Gate and Compression View*. From here, you may swipe down to get back to the *Gate and Compression View*. Additionally, you may swipe left and right in a gray area to stay in the *FX View*, but instead change the channel.

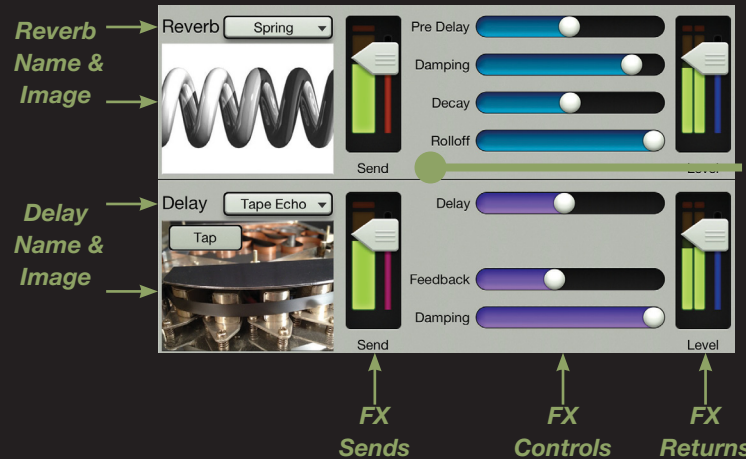
The Reverb and Delay are presented together as one view with the Reverb on top and the Delay below.

As seen in the image to the right, the Reverb and Delay sections have similar layouts, so we will go through their features left to right.

FX: Name & Image

On the far left are the Reverb and Delay names and images displaying what types of effects are currently in use. This may be changed by tapping the name of the current effect type and choosing a new one from the popover. The image will change to reflect the chosen type.

FX View



FX: Sends

Directly to the right of each image is a vertical send level slider, one for each effect. This controls the level being sent to the effect from the current channel.

FX: Controls

To the right of each send level are various FX controls which may be slid horizontally, increasing in value to the right. The FX controls are not affected on a per-channel basis, but rather globally. In other words, there is just one reverb and one delay for the entire mixer.

FX: Returns

And residing on the far right side of the *FX View* are the vertical return channel level sliders and meters. Again, one for each effect. These control the return level from the effect to the selected output. You have seen these before as they are the same faders displayed in the *Mixer View*. A pair exists [one for Reverb, one for Delay] for each selected output.

Graphic EQ

Graphic EQ: Introduction

Now let's talk about the Graphic EQ, Parametric EQ and output Compressor / Limiter. The *Channel View* is utilized to adjust these, too.

Getting here is easy. Simply tap the Graphic EQ curve at the top of the master fader channel from the *Mixer View* or from any input *Channel View*.

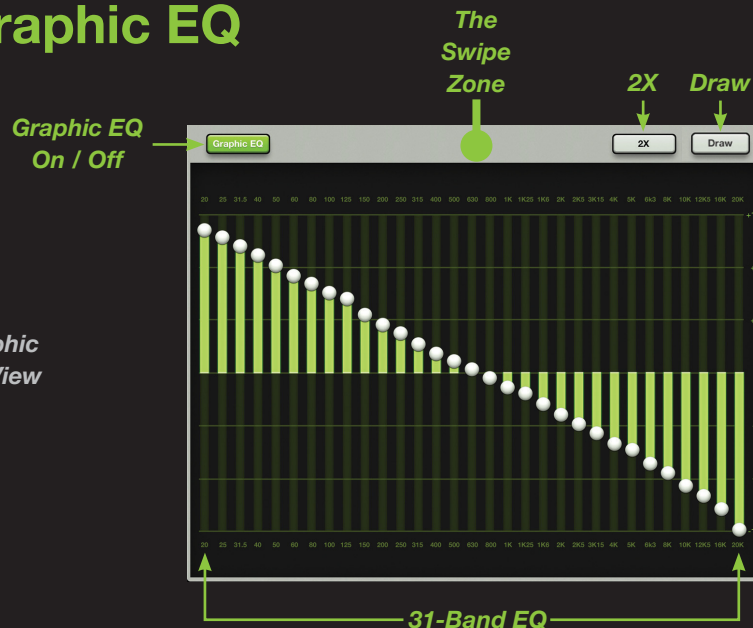
The *Graphic EQ View* looks and works similarly to that of a typical 31-band graphic EQ.

Graphic EQ: On / Off

Tap this button to turn the Graphic EQ on and off. When on, the EQ controls affect the signal and the button illuminates green. When off, the EQ controls have no effect on the signal, nor will the button illuminate. However, the EQ controls may still be adjusted.

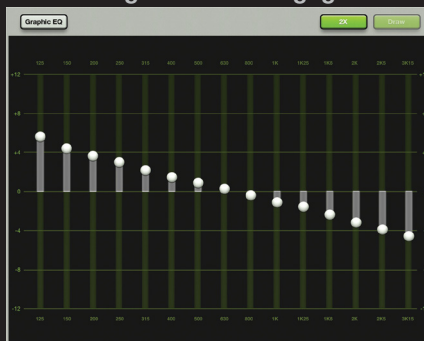
Graphic EQ: 31-Band EQ

The 31-band EQ is a great tool for really dialing in the sound you're looking for or use it to squelch feedback from monitors. There are 31 vertical sliders ranging from 20 Hz-20 kHz. Drag these sliders up and down until the desired sound has been achieved. Tapping a band's Graphic EQ ball twice will zero it.



Graphic EQ: 2X

Tap this button to turn the 2X zoom on or off. This allows you to zoom in on the Graphic EQ, perfect for our friends with sausage fingers and/or mixing with the iPad mini. Swipe left and right to view and adjust the remaining bands. It will illuminate green when engaged.



Graphic EQ: Draw

If the Draw button is engaged, you may draw an EQ curve over the display (regardless of where the slider balls reside) and the sliders will snap to the corresponding position. Go ahead and try it; make a smiley face. We did the same thing!

If the Draw button is disengaged, the sliders may only be adjusted one at a time.

The Draw button illuminates green when engaged. Note that Draw is unavailable when in 2X mode.

Parametric EQ

Parametric EQ: Introduction

In addition to a Graphic EQ, DL mixers also have a Parametric EQ on each output. To get here, simply swipe the entire view down (from the gray area) above the Graphic EQ.

The *Parametric EQ View* looks and works similarly to that of the Channel EQ View.

PEQ: On / Off

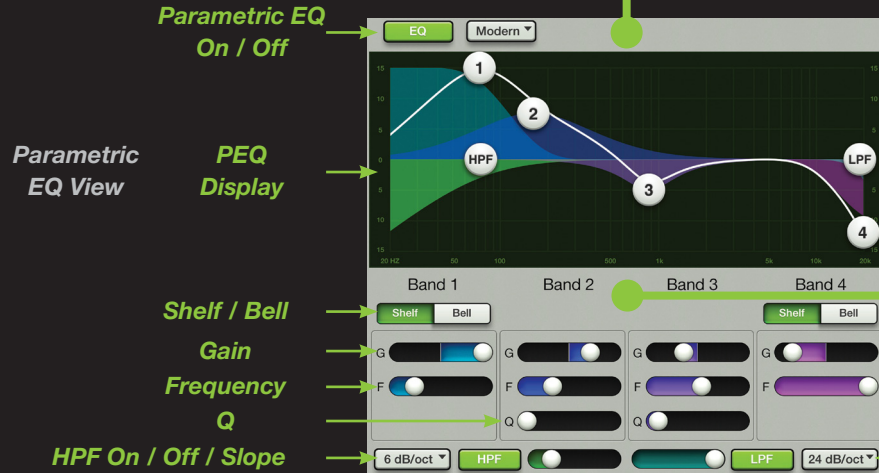
Tap this button to turn the Parametric EQ on and off. When on, the PEQ controls affect the signal and the button illuminates green. When off, the PEQ controls have no effect on the signal, nor will the button illuminate. However, the PEQ controls may still be adjusted.

PEQ Display: Gain, Frequency & Q

The PEQ is easily adjusted by moving the four numbered balls (representing each band) until the desired sound has been achieved.

Move a ball up and down to change the gain and move it left and right to change the frequency. Pinch a ball to adjust its Q [bandwidth]. Double-tap a ball to reset its gain to zero.

Quick Start Guide



Parametric EQ View

Parametric EQ On / Off

PEQ Display

Shelf / Bell

Gain
Frequency
Q

HPF On / Off / Slope

The Swipe Zone

The Swipe Zone

LPF On / Off / Slope

Each band is represented by a different color corresponding to the individual band controls located at the bottom of the *PEQ View*. The settings may also be changed here by dragging these sliders left and right.

PEQ: Shelf / Bell

A Shelf / Bell option is available for the Low Band EQ [Band 1] and High Band EQ [Band 4]. Simply tap which setting you would prefer for each band.

PEQ: HPF & LPF On / Off / Slope

Tap this button once to engage the high (and/or low) pass filter and illuminate the button.

When disengaged, the HPF/LPF has no effect on the signal, nor will the button illuminate.

The accompanying slider is utilized to increase or decrease the frequency. You may also slide the HPF/LPF ball right and left to achieve the same result.

Both the HPF and LPF have a selectable slope button. Simply tap the button and select the desired slope.

Output Compression / Limiting and Delay

Output Compression: Introduction

Here we are...the final stop of the *Channel View* playground. The output Compressor / Limiter looks and functions similar to that of the channel compressors we discussed just a few short pages back. The only difference is that the output compressor affects and alters the sound of everything passing through the selected output.

To get here, simply swipe the entire view up (from the gray area) above the Graphic EQ. This brings us to the Output Compressor / Limiter.

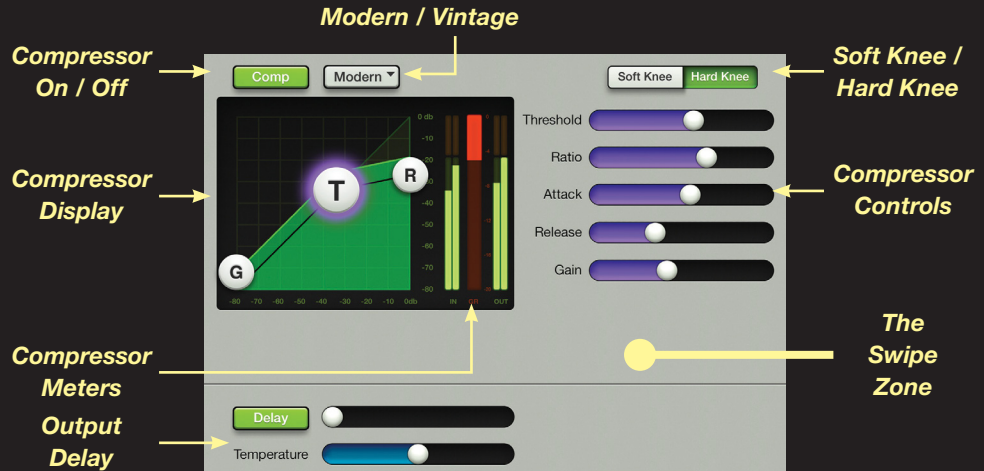
Comp On /Off

Tap this button to turn the Output Compressor / Limiter on and off.

When on, the Compressor / Limiter controls affect the signal and the button illuminates green. When off, the Compressor / Limiter controls have no affect on the signal, nor will the button illuminate. However, the controls may still be adjusted.

Comp: Modern / Vintage

Tap this button to choose between using a clean, surgical modern compressor or a classic sounding vintage compressor.



Compressor Display and Controls

Like the channel compressor, the dragable balls here include the Gain [G], Threshold [T], Ratio [R].

On the far right are the compressor controls. Once again, the gain, threshold and ratio may be changed here or in the aforementioned compressor display.

Soft / Hard Knee Compression

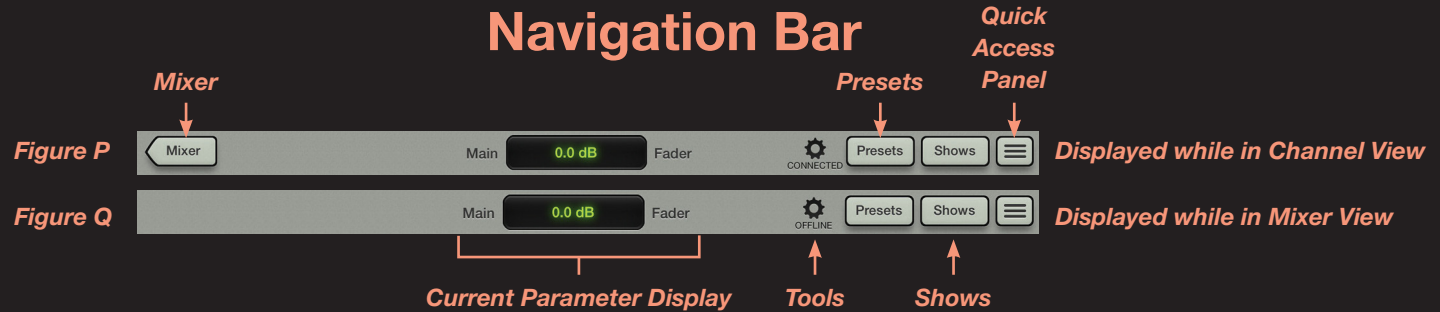
The difference between a soft and hard knee here has nothing to do with joints. Rather, it has everything to do with compression. Simply tap which knee compression setting you would prefer, soft or hard.

Compressor Meters

Between the Compressor Display and their corresponding settings lies a set of vertical meters. These three meters indicate their individual Input [IN], Gain Reduction [GR] and Output [OUT]. Use these meters to get the desired amount of gain reduction out of the Output Compressor / Limiter.

Output Delay

The Delay and Temperature controls are for detailed settings for the output alignment delay. This is advanced live mixing, so please refer to the Reference Guide for more information.



Navigation Bar: Introduction

This is it! Time to finish off the education with the Navigation Bar.

Like the Master Fader, the Navigation Bar is also always displayed no matter what view is open. It lies horizontally across the top of each view. Images of the Navigation Bar are displayed above.

You might inquire, “Why are there two images of the Navigation Bar?” I would reply with “Good question!” As discussed previously, you will be in one of two possible views: *Mixer View* or *Channel View*. Each view displays a different Navigation Bar. Figure P will be prominently displayed when a *Channel View* is open and Figure Q is available when in the *Mixer View*.

We will quickly cover each feature of the Navigation Bar starting on the far left with Mixer and working our way right to Shows and the Quick Access Panel.

Navigation Bar: Mixer

As mentioned in the Navigation Bar introduction, the Mixer button will only be displayed when working within a *Channel View* [EQ, Gate and Compression, FX, Graphic EQ, Compressor / Limiter]. Simply tap the Mixer button to return to the *Mixer View*.

If a Mixer button is not displayed (as seen in Figure Q), then you are already in the *Mixer View*.

Current Parameter Display

The Current Parameter Display shows the channel and value of the current parameter being adjusted. However, this is not just a point of reference. Tap the Current Parameter Display and a keyboard appears. Here you may enter the exact value you would like for that parameter.

Navigation Bar: Tools

Tools is where the Master Fader app settings reside, as well as configuration options for the mixer. Tap the Tools button to reveal these controls.

Additionally, Tools is where you select which DL806 or DL1608 device to control wirelessly.

Notice that Figure Q has “OFFLINE” underneath the Tools image and Figure P has “CONNECTED”. iPads not connected to the mixer (either wired or wirelessly) will display “OFFLINE” or “DISCONNECTED”.

We’ve already discussed “Disconnected” in the Wireless setup, but why would you ever work offline? Simply put, you could create presets, snapshots and shows while en route to a gig or show off the awesomeness of your new mixer to friends without regard to the local surroundings.

Tap Tools (again) to return to the previous view.

Navigation Bar

Navigation Bar: Presets

Tap the Presets button to display a popover similar to what may be seen below in Figure R. Here you may select from a list of factory presets for the current channel and each DSP type, as well as save and recall user presets. As seen in Figure R, the Presets button illuminates green when engaged. Tapping the factory default button will reset the current selection to its default state. Tap Presets (again) to return to the previous view.



Figure R – Presets

Navigation Bar: Shows

To the right of the Presets button is the Shows button.

Tap Shows to display a popover similar to what may be seen below in Figure S. This is where you load and save shows and snapshots and also configure channel safes. As seen in Figure S, the Shows button illuminates green when engaged. Snapshot 0 resets everything (except channel images, solo and anything selected in Channel Safes) to its default state. Tap Shows (again) to return to the previous view.

Notice that on all of these images the Navigation Bar is still presented, regardless of what view or popover may dominate the iPad.



Figure S – Shows

Navigation Bar: QAP

Finally, residing on the far right of the Navigation Bar is the Quick Access Panel button [Figure T].

The Quick Access Panel allows for fast control over critical functions such as clearing solos, various effects solos, mute group control and view group control.

All features of the Navigation Bar are discussed at greater length in the Reference Guide.



Figure T
Quick Access Panel

Conclusion

Conclusion

And there you have it! As mentioned throughout, this is just a Quick Start Guide. Nearly everything you need to utilize your DL806 or DL1608 mixer and Master Fader app is referenced here. Think of the Quick Start Guide as a 4-star thriller; it's pretty exciting and keeps you engaged throughout. However, should you desire more, the Reference Guide is infinitely more in-depth and is a fantastic resource for increasing your knowledge about each of the features listed within these pages.

In fact, the Reference Guide is filled with much, much more than this Quick Start Guide: more screen shots, a Troubleshooting Guide, the technical specifications (including the block diagram and dimensions), graphs, arrows, a Table of Contents, Introduction and list of Features...

While we compared the Quick Start Guide to a 4-star thriller, think of the Reference Guide as an action-packed, high drama with bigger, better explosions and a bigger budget.

As mentioned previously, DL mixers work wirelessly via iPhone and iPad touch. Simply download and install the My Fader app. Want to know more about My Fader? Check out the Reference Guide!

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Need help with your DL806 or DL1608?

- Visit www.720trees.com and click 'Contact Tech Support' to find: FAQs, manuals, and addendums.
- Email us at: techmail@loudtechinc.com.
- Telephone 425-487-4333 or toll-free at 800-898-3211 to speak with one of our splendid technical support chaps. (Monday through Friday, normal business hours, Pacific Time).

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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.



ACCESSORIZE YOUR **DL806/DL1608**



Mixer Bag



Dust Cover



Tray Kits



Rackmount Kit

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