QUANTUM LT SERIES



SOFTWARE USER MANUAL

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1 Overview

This Software User Manual details how to use Universal Control to control Quantum LT audio interfaces. Before jumping in, make sure you've registered your device and installed Universal Control, as it provides updates and upgrades for your Quantum interface.

For more information about the Quantum LT, including hardware features, hookup diagrams, and getting started with the interface, ***please review your Quantum LT owner's manual****.*

1.1 Installation and Setup

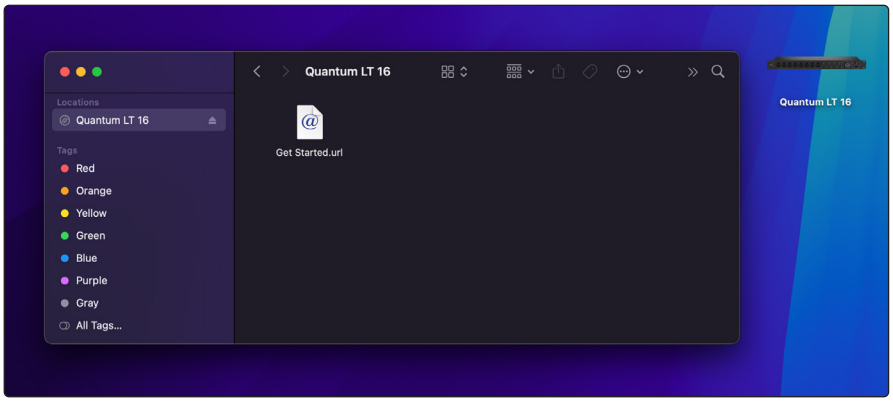
On both Windows and macOS computers, when you connect your Quantum LT Series interface to your computer, it will appear on the desktop as a mounted device, like a USB or disk drive. To begin installation, open the drive and double click the URL inside.

1.1.1 Getting Started (macOS)

1. Connect your device to a computer using the included USB-C cable.
2. The device will appear on your desktop as a mounted device titled **Quantum LT #**:

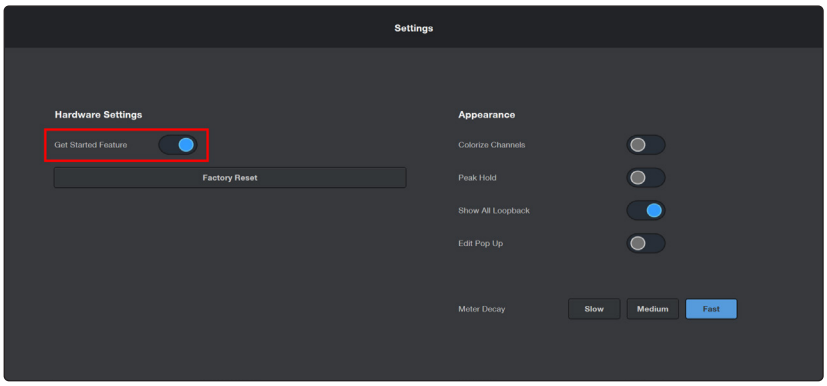


3. Double-click the icon to open the Finder window, which will contain the "Get Started" URL for the Quantum LT interface:



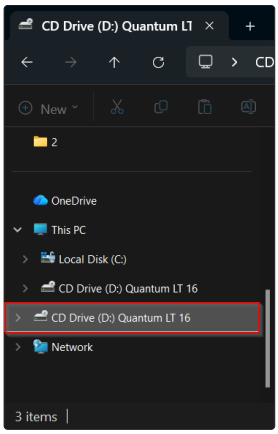
4. Double-click "Get Started" to be redirected to the ***MyFender*** website, where you can create an account, register your device and download Universal Control, Fender Studio Pro and other included software.

   Note: *The "Get Started" feature can be disabled in the Quantum LT settings menu (click onto the gear icon in the control panel to access the settings) in Universal Control:*

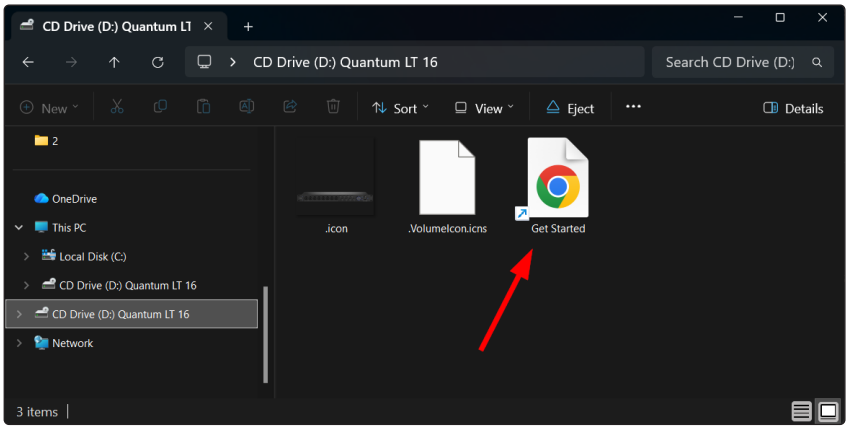


1.1.2 Getting Started (Windows)

1. Connect your device to a computer using the included USB-C cable.
2. The Quantum LT will appear in File Explorer as a mounted device titled **Quantum LT #**:



3. Click on the device to access the "Get Started" URL for your Quantum LT interface:



4. Double-click "Get Started" to be redirected to the MyFender website, where you can create an account, register your device and download Universal Control, Fender Studio Pro and other included software.

   Note: *The "Get Started" feature can be disabled in the Quantum LT settings menu (click onto the gear icon in the control panel to access the settings) in Universal Control.*

1.1.3 Getting Started URLS

If you would like to quickly access the Getting Started registration page, click on the appropriate link below:

- **Quantum LT 2:** *https://www.fender.com/QUANTUMLT2/register*
- **Quantum LT 4:** *https://www.fender.com/QUANTUMLT4/register*
- **Quantum LT 16:** *https://www.fender.com/QUANTUMLT16/register*

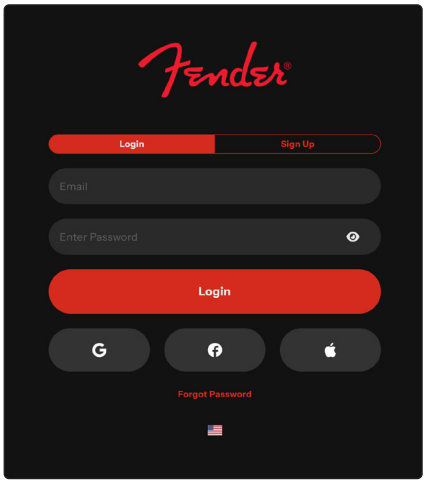
1.2 Website Registration and Installation Process

Alternatively, you can register your Quantum LT interface and install Universal Control directly from *my.fender.com*. To do so, follow the directions below.

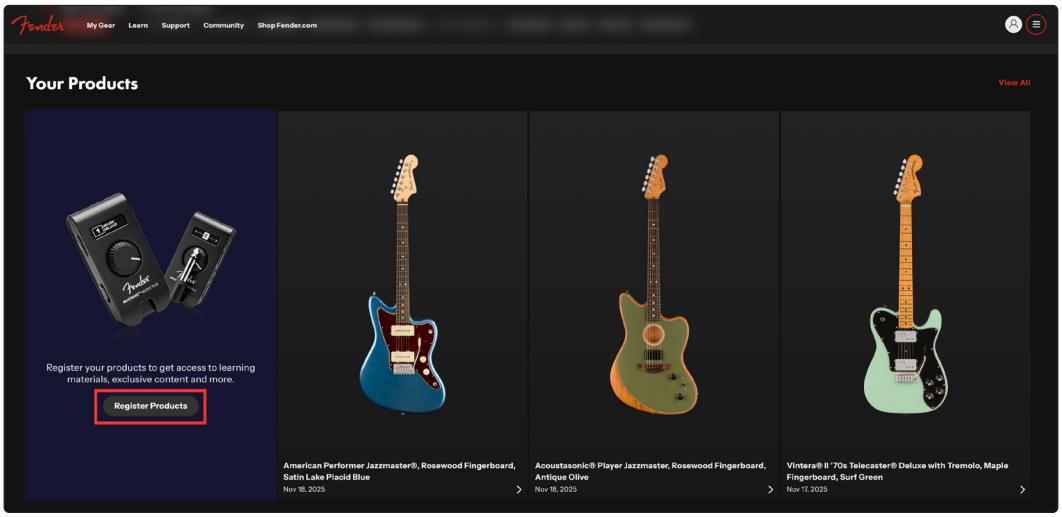
Before connecting to a computer, please visit www.fender.com and navigate to the Quantum LT product page to verify the latest system requirements for your interface.

Once you've verified that you meet the latest system requirements, follow these steps:

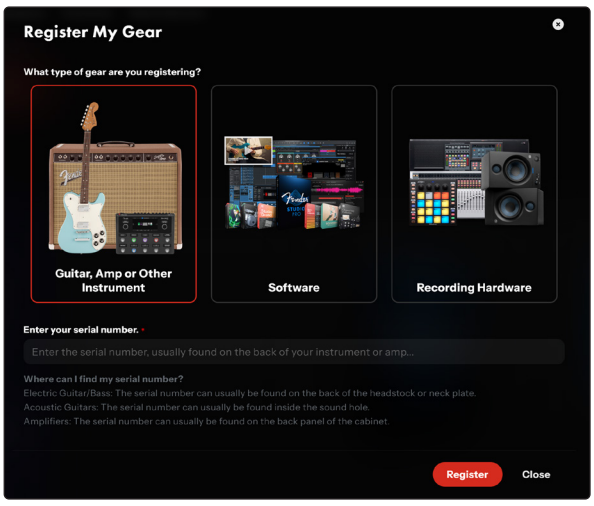
1. Visit My.Fender.com and create or log into your user account.



2. At the top of your MyFender homepage, click onto the "Register Products" button. After clicking, a dialog window will appear.



3. From the dialog window, specify the date you purchased the interface and the serial number on your interface. After you're done, click "Register."



4. After clicking Register, another dialog window will appear where you can initiate your Fender Studio Pro downloads.
5. To download Universal Control, navigate to the Quantum LT product page from your MyFender homepage. *For more information about Universal Control, **check out section 4.1**.*

***Note:** The speed of your processor, amount of RAM, and capacity, size, and speed of your hard drives will greatly affect the overall performance of your recording system. A faster processor and more RAM can reduce signal latency (delay) and improve overall performance.*

1.2.1 Universal Control Installation for Windows

Download Universal Control and launch the installer. Universal Control can be downloaded via the URL provided when connecting to USB-C or by going directly to MyFender. The Universal Control installer will take you through each step of the installation process. This application will install the ASIO drivers. Please read each message carefully. It is recommended that you quit all applications before you start the installation.

1.2.2 Universal Control Installation for macOS

Download Universal Control and launch the installer. Universal Control can be downloaded via the URL provided when connecting to USB-C or by going directly to MyFender. The Universal Control installer will take you through each step of the installation process. Universal Control also installs any necessary firmware updates, so it is highly recommended that you install this application.

***Note for macOS users:** When the installation is complete, you will find the Universal Control application in your Applications folder. It is recommended that you place this in your Dock for easy access.*

1.2.3 Additional Windows Setup Information

Windows notification sounds (such as a "ding" when an alert window appears) can interfere with DAW audio. Follow the procedure below to disable all notification sounds:

1. Open the Sound control panel. Sound can be accessed by right-clicking the Windows Start Menu and selecting Control Panel from the contextual menu, clicking Hardware and Sound, then clicking Sound within the Hardware and Sound window.
2. Click the Sounds tab within the Sound control panel window. The Windows notification sounds options are displayed.
3. Click the "Sound Scheme" drop menu to display the menu items.
4. Select "No Sounds" from the Sound Scheme drop menu.
5. Click the Apply button to activate the new setting.

2 Universal Control

Universal Control is both a driver-management utility and software control interface for your Quantum LT interface.



Universal Control provides the following:

- **Device Management:** From Universal Control's Start Page page, you can quickly adjust your Sample Rate and Buffer Size (Windows only). From here, you can also review your device's I/O formats, firmware, and serial number.
- **Low-Latency Direct Monitoring:** Using Universal Control eliminates the latency associated with DAW I/O buffering that makes monitoring problematic for the performer. By removing the DAW's software input monitoring feature from the monitoring signal flow altogether, the need to adjust I/O buffer sizes and latency is no longer an issue. ***See Section 3.2 "Direct Input Button"*** *for more info about Low-Latency Monitoring.*
- **Direct Monitoring Mix Configuration:** Universal Control allows the user to adjust input fader levels, pan, channel linking, and solo/mute states, which are automatically saved to the hardware as they are updated during use. There are two settings:
  - » **Off:** This is the default Quantum LT Series direct monitor setting. All input faders are turned down to -infinity.
  - » **On:** In the default state, the mixer is active and input faders are set to 0 dB, so the user can hear their live signal direct without latency, in addition to computer playback stereo audio, which is set to -6 dB. In this default state, all input channels are mono and center-panned.
- **Sends and Returns Bus:** Universal Control has independent stereo sends per channel, as well as configurable returns for available buses. Available sends and returns vary by interface model.

Universal Control has two main components: the Start Page and the Mixer. We'll go into more detail about each in the sections in this chapter.

2.1 Universal Control Start Page

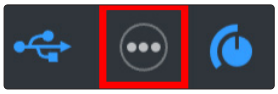
Universal Control contains driver support, software control, monitor mixing, and firmware management for Fender and PreSonus hardware. After opening Universal Control, you will see the Start Page. From this window, you can manage all the driver settings.



- **Sample Rate:** Changes Sample Rate. You can set the sample rate to 44.1, 48, 88.2, 96, 176.4, or 192 kHz. A higher sample rate will increase the fidelity of the recording, but this will also increase the file size and the amount of system resources necessary to process the audio.
- **Buffer Size (Windows only):** Sets the Buffer Size. From this menu, you can set the Buffer Size for your Quantum LT interface from 16 to 2048 samples.

  Lowering the buffer size will reduce the overall latency. However, this will also increase performance demands on your computer. In general, you will want to set the buffer size as low as your system can safely support. If you begin to hear pops, clicks or distortion in your audio path, try raising the buffer size.
- **Input Format:** Details your device input channels and bit depth.
- **Output Format:** Details your device output channels and bit depth.
- **Firmware:** Displays the current firmware version.
- **Serial Number:** Displays your Quantum LT serial number.

  Note: *Click onto this button to reveal additional settings:*



2.1.1 Launching the Universal Control Mixer

Universal Control's Mixer can be launched from the Universal Control application.

1. Open Universal Control.
2. From the Universal Control Start Page, click on the product card for your Quantum LT.
3. The Universal Control Mixer will open in another window on desktop or on your screen on mobile.

2.1.2 Quitting Universal Control

For macOS users:

- Select "Quit Universal Control" from the macOS Application Menu when Universal Control is the foreground application.
- Use the standard macOS keyboard shortcut: Command + Q.

For Windows users:

- Click the "X" close button in the Window Title Bar.

2.2 Universal Control Mixer

Universal Control's layout and functionality is similar to what is found on analog mixers and shares many elements with Fender Studio Pro's mixer layout.



2.2.1 Navigation Bar



The navigation bar has two options to choose from:

- **Settings Panel:** Shows / Hides the Settings panel (replaces the mixer). See the Settings Panel section for more information about how to use this feature.
- **Power Button:** Turns the mixer on or off. Turning the mixer "off" bypasses the mixer in Universal Control, which can be helpful if you would like to mix and create cue mixes directly in the DAW.

2.2.2 Channel Inputs

Each channel input strip controls a corresponding Quantum hardware input or virtual input. The output of all channel inputs are always routed to the Main 1 and 2 outputs (except when muted). Inputs can be optionally routed to other outputs via Sends and overall output levels can be adjusted using the controls in the Returns.

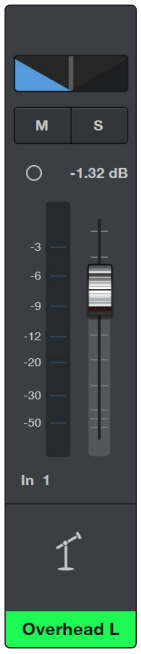
2.2.3 Sends



Controls the send level of the audio being sent to the Returns. Depending on your hardware, different amounts of outputs will be available as Sends. Loopback controls can be shown or hidden in Settings as well (see Settings below).

- **Send Destination:** Shows the output pair that audio is being sent to.
- **Send Level:** Controls the overall level being sent to an output pair.

2.2.4 Mix Controls



- **Pan:** Sets the pan position for the signal in a stereo mix (also applies to Sends).
- **Mute:** Mutes the signal (also applies to Sends).
- **Solo:** Solos the signal (mutes all other channels in the Main Mix).
- **Mono / Stereo Link Toggle:** Combines 2 adjacent channels of the same type into a stereo channel.
- **Current Level Value:** Displays the absolute value for the current level. Double-click on the value to enter a specific value.
- **Channel Meter:** Displays the current level of your microphone or instrument pre-fader.
- **Channel Fader:** Controls the overall level of the channel in the Main Mix.
- **Channel Number:** Indicates the channel number.
- **Channel Icon:** Choose from a list of icons for the channel
- **Channel Name:** Double-click to create a custom name for the channel.
- **Channel Color:** Click on the space to show the channel color options.

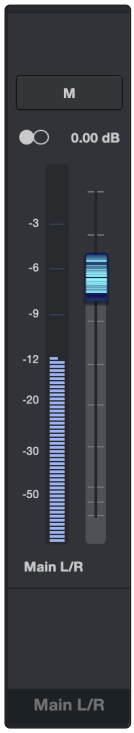
2.2.5 Returns



Input channels are always routed to Main Outputs 1 and 2. However, the inputs can be optionally routed to any available hardware output or Loopback stream via sends and the return channel.

- **Mix Select:** Selects the Return or Loopback Stream to be controlled by the channel strip.
- **Fader Flip:** When Flip is activated, faders switch to represent the per-channel Send levels for the chosen Send destination. Faders will change to green to indicate Flip is active.
- **Mute:** Mutes the selected Return or Loopback stream.
- **Mono / Stereo:** Toggles the channel between a stereo channel or two mono channels.
- **Current Level Value:** Displays the absolute value for the current level. Click on the value to enter a specific value.
- **Channel Meter:** Displays the current meter level.
- **Channel Fader:** Controls the overall level for the selected Return or Loopback stream.
- **Channel Name:** Double-click to create a custom name for the channel.
- **Channel Icon:** Choose from a list of icons for the channel.
- **Channel Color:** Click on the space to show the color picker.

2.2.6 Main Output Controls

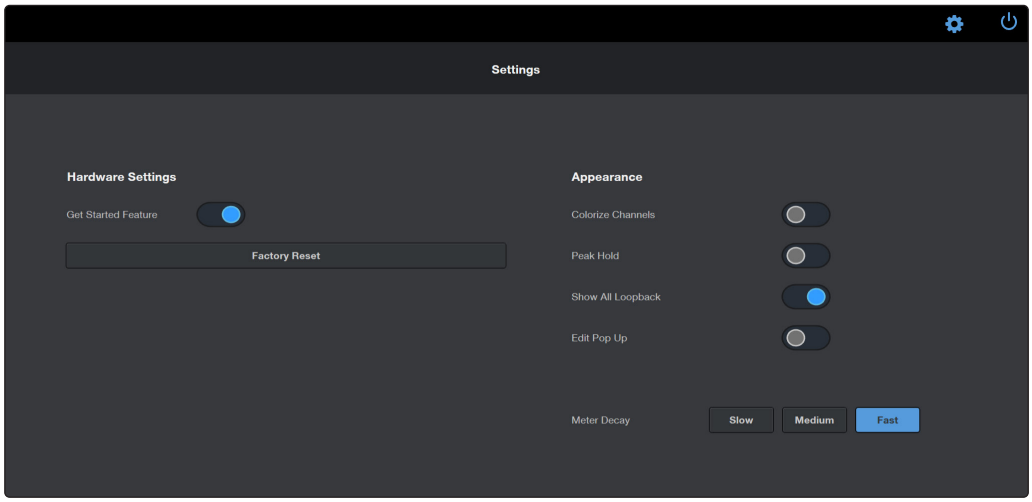


The Hardware Control strip contains elements related to the Main Outputs and Headphones.

- **Mute:** Mutes the Main Output. Mute does not affect headphones.
- **Mono / Stereo toggle:** Toggles the Main outputs between stereo and mono to check your mix in mono.
- **Level Value:** Displays the absolute value for the current level. Click on the value to enter a specific value.
- **Monitor Meters:** These meters display the signal levels of the monitor mix bus just before the monitor level control.
- **Channel Fader:** Controls the overall level for the Main outputs. This volume control is independent of the Main encoder. If the fader is turned down, audio will not pass to the main volume control.
- **Channel Icon:** Choose from a list of icons for the channel. All Icons can be shown / hidden from the Settings panel.
- **Channel Name:** Double-click to create a custom name for the channel.
- **Channel Color:** Click on the space to show the color picker. The entire channel can be colorized in Settings.

2.2.7 Settings Panel

Global parameters for Quantum and Universal Control are configured in the Settings pane:



Hardware Settings:

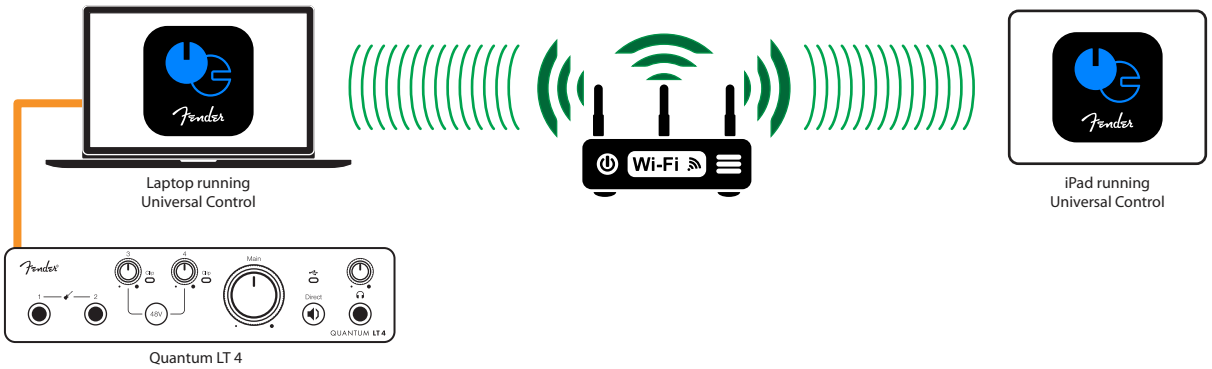
- **Get Started Feature:** Disabling the Get Started Feature prevents the Quantum LT from showing as a mounted device in your file system.
- **Factory Reset:** Resets all parameters to factory settings.

Appearance Settings:

- **Colorize Channels:** Applies the currently selected channel color to the entire Channel Strip.
- **Peak Hold:** Toggles Peak Hold on or off. Peak hold keeps the highest level a signal has reached visible on a level meter for a short period after the peak has passed.
- **Show All Loopback:** Enable if you would like to show the Loopback sends and the Loopback return in the mixer.
- **Edit Popup:** Shows or hides the popup editor. The popup editor magnifies some elements in the mixer panel when you click.
- **Meter Decay:** Sets the Meter Decay to either Slow, Medium, or Fast.

3 Using the Quantum LT with Universal Control

3.1 Remote Control Over Local WiFi



If the computer you are using has a Quantum LT Series interface connected to it and the computer is on a local WiFi network, the Universal Control app on iOS / iPadOS or Android can remote control some Quantum LT Series features so long as the mobile device is on the same network.

Open the app and the Quantum LT Series interface will be displayed. Tap on the Quantum LT Series interface product card in Universal Control to view all available controls.

3.2 Direct Input Button



The Direct Button on Quantum LT Series interfaces switches Universal Control direct monitoring between Off and On states.

By default, low-latency direct monitoring is set to "Off" (blue LED on hardware and greyed out power icon in Universal Control) and all input channels are set to -infinity dB. This prevents the user from hearing the input signal twice (once from the hardware direct monitoring, and a delayed signal from the software monitoring), which can cause unwanted doubling, echo, and/or phase cancellation of the input signal.

Press the Direct button once to engage low-latency direct monitoring (white LED on hardware, power button illuminated in Universal Control). In the default state, the mixer is active and input faders are set to 0 dB so the user can hear their direct live signal without latency, in addition to computer playback stereo audio (set to -6 dB). In this default state, all input channels are mono and center-panned. If you have enabled low-latency direct monitoring in Universal Control or with the Direct button on the front panel of the Quantum LT, changes to the mix configuration in Universal Control (fader levels, pan position, channel linking, and solo/mute setting) are automatically saved to the Quantum LT 16 and will be recalled by enabling low-latency direct monitoring with the Direct button on the front panel or within Universal Control.

Press the Direct button again to set low-latency direct monitoring back to Off.

Note: *Universal Control mix settings are prioritized over the settings saved in the Quantum LT Series hardware. If the Quantum LT Series interface is connected to a device running Universal Control with different settings, the mixer settings stored in the hardware will be overwritten by the settings in Universal Control on the connected device.*

3.3 Loopback

Loopback audio is the industry term for routing audio from one application to another. Applications that use audio interfaces, like your Quantum LT Series interface, are designed to receive audio from one audio device and send audio to one audio device. This means that most applications can only send to and receive from an audio interface, but not from other applications. This can present a challenge in certain situations.

Fortunately, Quantum LT Series audio interfaces allow you to take audio from any of Universal Control's mixer inputs (mics, guitars, computer playback, etc.) and send the combined audio to another application for the purpose of recording.

3.3.1 How to use Loopback

If you wish to use the Loopback feature, follow the directions below:

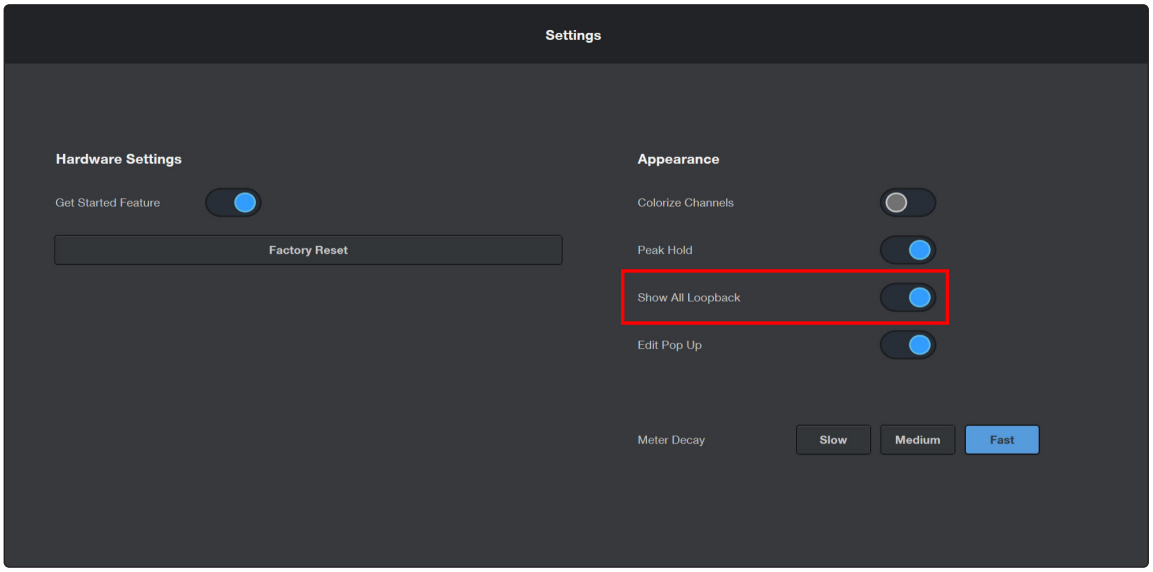
1. Make sure that your Quantum LT Series interface is selected as the Windows or macOS playback device and your Quantum LT interface is selected as the main output device.

3.3 Loopback

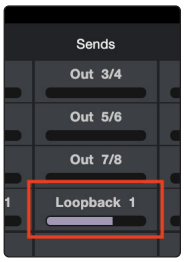
2. Open the Quantum LT mixer control panel in Universal Control:



Note: *If you don't see Loopback controls, click the "Settings" (gear icon) and make sure "Show All Loopback" is enabled:*

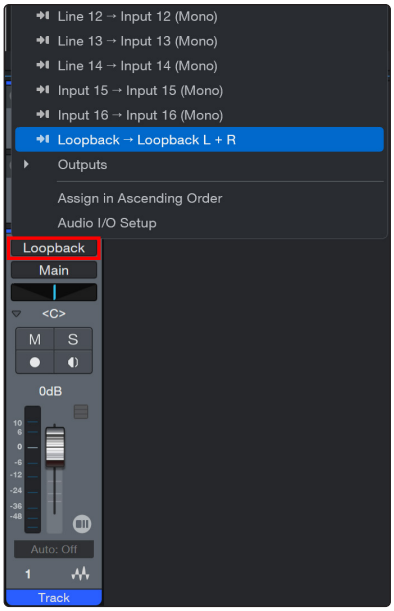


3. From the control panel mixer, turn up the Loopback send on any channels you'd like to send to the Loopback stream:



Now, the signal will be present on the Loopback Return channel and will be routed from there to the "Loopback" input in audio applications, such as Fender Studio Pro.

4. Select “Loopback” as the input in your recording software to route audio from other applications into your DAW.

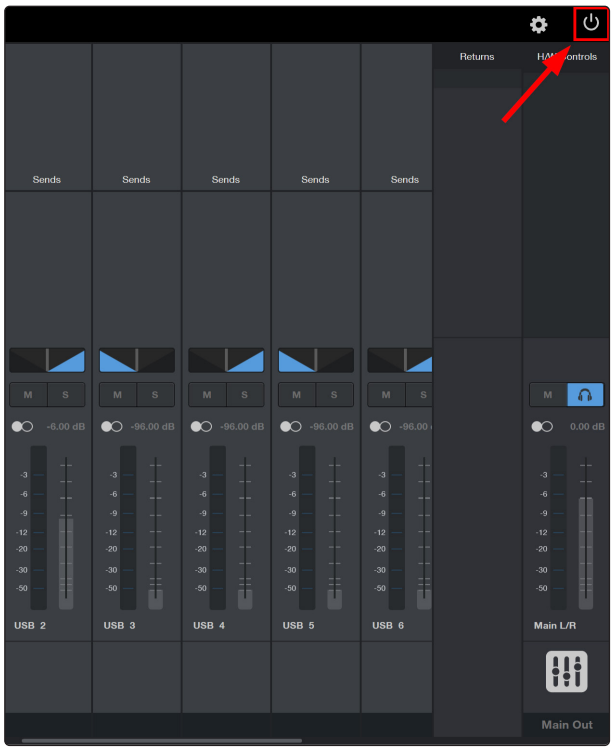


Audio from any channels with signal being sent to the Loopback input can now be recorded in your DAW. Please note that not all software applications support multichannel inputs. For more information about I/O setup for Quantum LTs in Fender Studio Pro, *see section 4.2.1*.

WARNING: Make sure that the channel in your DAW is turned down before you record enable to avoid feedback loops. Adjust the Loopback send in Universal Control to fine-tune the amount of input signal for the track.

3.4 How to Disable Input Monitoring in Universal Control

To disable input monitoring in Universal Control while using software monitoring in your recording software, open Universal Control and mute all input channels within Universal Control or switch the Direct (power icon) button Off setting in Universal Control:



The user can also select the “Off” setting by pressing the Direct button on the Quantum LT front panel until Off is selected (LED will be blue). Universal Control may then be closed.

Using recording software without Universal Control is a typical workflow during mixdown, where low-latency direct monitoring is not required, and buffering latency is not an issue because the tracks are already recorded. When recording new tracks, the recording software and Universal Control workflow (as described in the following chapter) is recommended.

In this scenario, Quantum LT Series functions as an audio interface. The recording software accesses and routes the Quantum LT Series audio interface I/O via the device drivers. Audio I/O latency is determined by the I/O Buffer Size setting.

3.5 Monitoring within Universal Control

Universal Control is used concurrently with a recording software when low-latency direct monitoring (no lag) is desired. This workflow eliminates the I/O buffering latencies associated with software monitoring. In this scenario, Universal Control is used to control all input monitoring when recording, and the recording software's software monitoring feature should be disabled.

3.5.1 Software Monitoring versus Hardware Monitoring

Software monitoring (listening to live inputs via the recording software's mixer) has discernible latency due to audio interface I/O buffering. Hardware monitoring via an audio interface's internal digital signal processing (DSP) mixer, like Universal Control, does not have discernible latency because the live audio is internally routed directly from the inputs to the outputs without DAW I/O buffering.

Note: *When using low-latency direct monitoring, real-time effects processing applied to the input channel(s) within the DAW/recording software (such as plug-ins) will not be audible.*

Make sure to disable input monitoring in the recording software when using Universal Control. When Universal Control is used for live input monitoring with recording software, the software's monitoring feature should be disabled. If it isn't, phasing and/or doubling of the monitored signal(s) will occur because the input signal is being heard twice: first from the low-latency Direct mix (Universal Control) and shortly thereafter from the higher latency software mix (DAW).

3.5.2 How to Disable Input Monitoring in Universal Control

To disable input monitoring in Universal Control when using software monitoring in the DAW, open Universal Control and mute all input channels within Universal Control or turn off the mixer using the power button in the upper-right corner of the Mixer window. Universal Control may then be closed.

Using a DAW without Universal Control is a typical workflow during mixdown, where low-latency monitoring is not required and buffering latency is not an issue because the tracks are already recorded. When recording new tracks, the DAW and Universal Control workflow (as described in the following section) is recommended. In this scenario, Quantum functions as an audio interface. The DAW accesses and routes Quantum's audio interface I/O via the device drivers. Audio I/O latency is determined by the I/O Buffer Size setting.

3.6 Settings that are Retained after Power Cycle

All currently active mixer settings (channel fader level, pan position, solo, mute, and stereo link) are saved to internal firmware before Quantum LT is powered down and recalled when power is reapplied.

Note: *Changes are not saved instantaneously. Please allow up to 10 seconds for the settings to be saved to the device before powering down.*

3.7 Resetting the Universal Control Mixer

To reset the UC mixer to the factory default settings:

1. Click the "Settings" button in Universal Control.
2. Click "Factory Reset."

3.8 How to Revert to Previous Firmware

If you encounter a problem with your Quantum LT and you need to reset the device, you can revert to a previous firmware.

To revert to a previous firmware:

- Uninstall the current version of Universal Control.
- Install the version of Universal Control that has the previous firmware.
- With the Quantum LT powered on, open Universal Control and click "Update Firmware."
- Select "Update anyways" and follow through the process.

If your Quantum LT ever becomes unresponsive, follow these directions:

- **Quantum LT 2 and LT 4:** First, plug the USB cable into the computer; then, press and hold the Direct button while plugging the USB cable into the Quantum LT 2 or LT 4.
- **Quantum LT 16:** Make sure that the device is turned off and plugged into the computer via USB; then, press and hold the Direct Button while powering on to enter firmware recovery mode (the Direct Button will continuously blink blue while the interface is in this mode).

4 Using the Quantum LT with Recording Software

When used with recording software, the recording software (DAW or other) can control all signal I/O routing and software monitoring, or Universal Control can be used for low-latency monitoring.

4.1 Monitoring within recording software (DAW)

The primary function of Universal Control is monitoring Quantum LT Series inputs during live performance with minimal audio lag or delay. When software monitoring is enabled in recording software, Universal Control input monitoring must be disabled to eliminate doubled signals.

Make sure to disable input monitoring in Universal Control when software monitoring via the DAW.

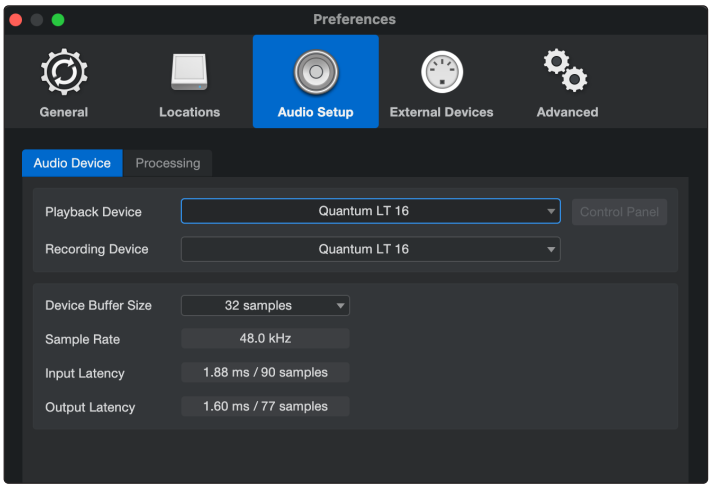
If Universal Control's input monitoring is not disabled (muted channel, fader down, or Direct mode toggled to the Off setting), phasing and/or doubling of the monitored signal(s) will occur because the input signal is being heard twice: first from the low-latency DSP mix (Universal Control) and shortly thereafter from the higher latency software mix (recording software).

4.2 Quantum LT Integration with Fender Studio Pro

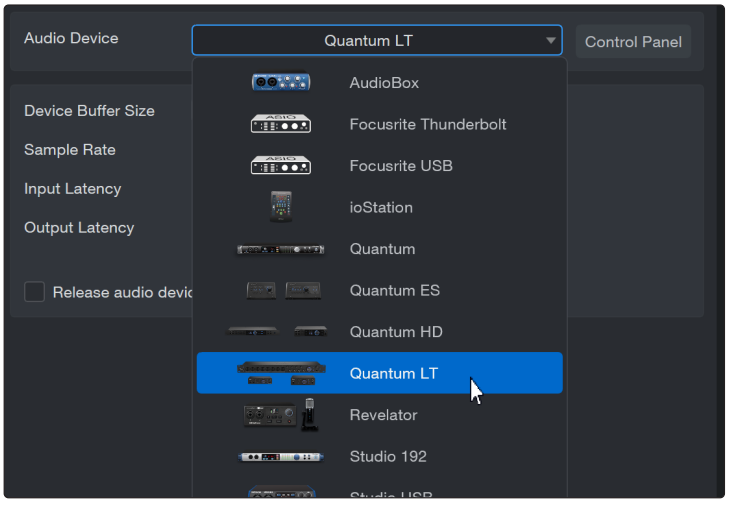
Your Quantum LT interface can be controlled directly from Fender Studio Pro (version 8.0 or higher). After configuring the inputs and outputs of your interface within Fender Studio Pro, you can use Hardware Direct Monitoring mode to engage low-latency monitoring and control the playback level of any active input channels. To set up your Quantum Interface in Fender Studio Pro, follow the directions below.

Once all cable connections are made and you have updated the Quantum's firmware:

1. Launch Fender Studio Pro.
2. Navigate to Studio Pro/Options/Audio Setup/Audio Device (macOS: Studio Pro/Preferences/Audio Setup/Audio Device) to open the Audio Device settings window:



3. Select Quantum as both the Playback and Recording device:

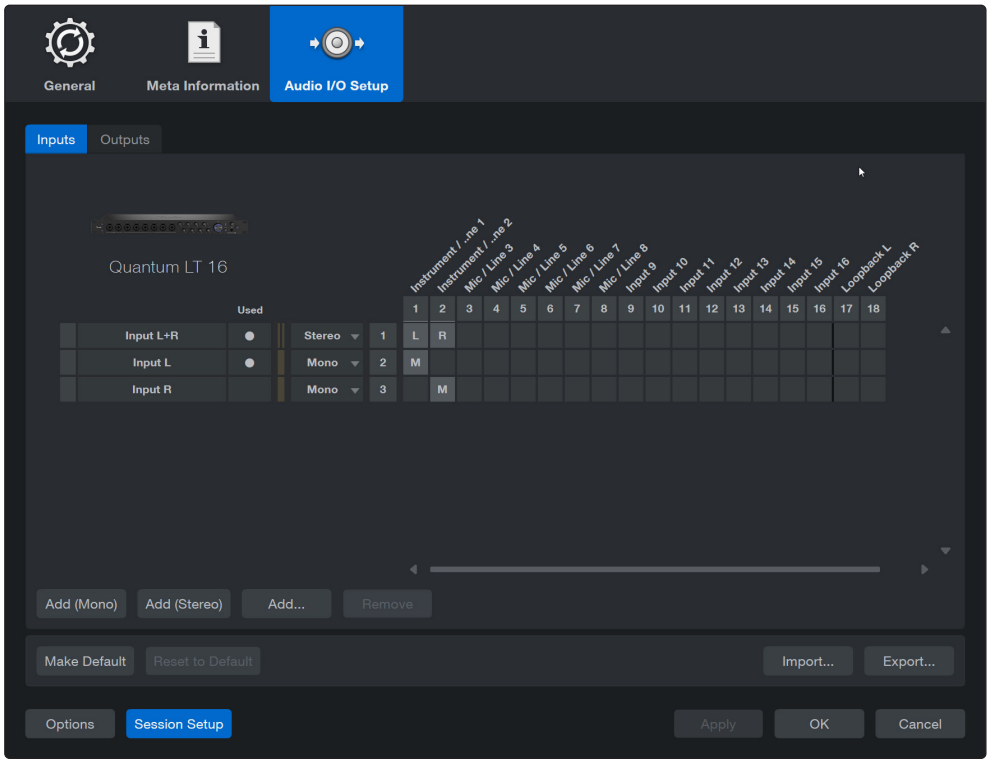


4. Configure any other Audio Device or Processing settings as desired.
5. Click OK.

4.2.1 I/O Setup

Before creating your first song, it's recommended that you first configure your Quantum Interface for input and output routing in Fender Studio Pro.

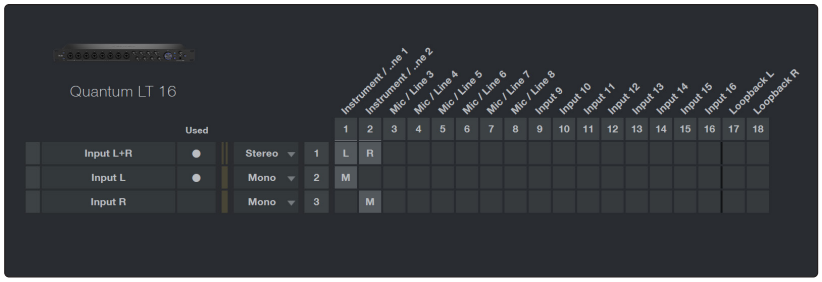
To route Inputs and Outputs, go to Fender Studio Pro Preferences, then select "Audio Setup." In the bottom left corner, select "Session Setup" to enter the Audio I/O Setup tab:



4.2.2 Assigning Hardware I/O to Software I/O Channels

Hardware inputs and outputs are assigned to software I/O channels in a matrix router, which is a visual representation of the routing. Software channels (mono and stereo) are each given a horizontal row, and hardware inputs and outputs are given vertical columns. The points at which these rows and columns intersect represent potential connections, or routes, between the hardware I/O and software I/O channels.

By default, Fender Studio Pro creates three Input Channels: one stereo and two mono. These channels are labeled Input L+R (stereo), Input L (mono), and Input R (mono). By default, the stereo Input Channel receives input from the first stereo hardware input pair of your selected audio device. The two mono Channels receive input from the same stereo hardware input pair. The Output Channel is labeled Main Out (stereo) and is routed by default to the first stereo hardware output pair of your selected audio device.

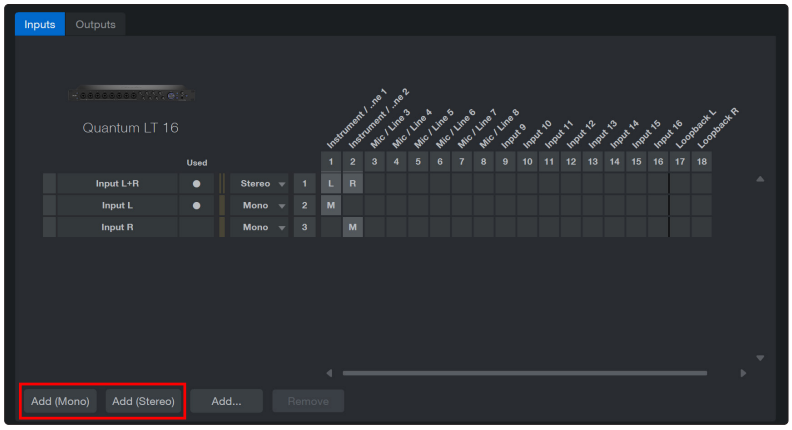


To create a route between software I/O channels and hardware I/O, click on the empty square at the intersection of the desired hardware input or output and the software channel input or output. A colored square appears with an M, L, or R label, indicating whether the route is a mono route (M) or the left or right side of a stereo route (L or R).

Note: *When using Quantum LT 16 at higher sample rates, the number of available outputs is reduced. At 96 kHz and above, only outputs 1-4 are available.*

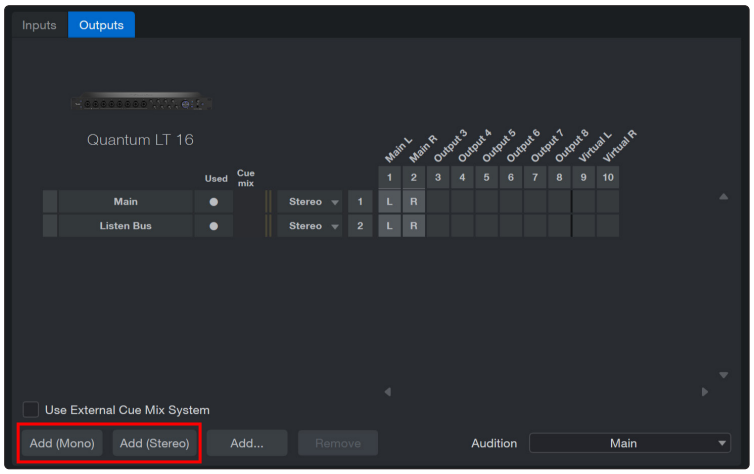
4.2.3 Quantum Input Setup

From the Inputs tab, you can enable any or all of the inputs on your Fender Quantum audio interface that you'd like to have available. Use the "Add" buttons below the matrix to add new inputs:



4.2.4 Quantum Output Setup

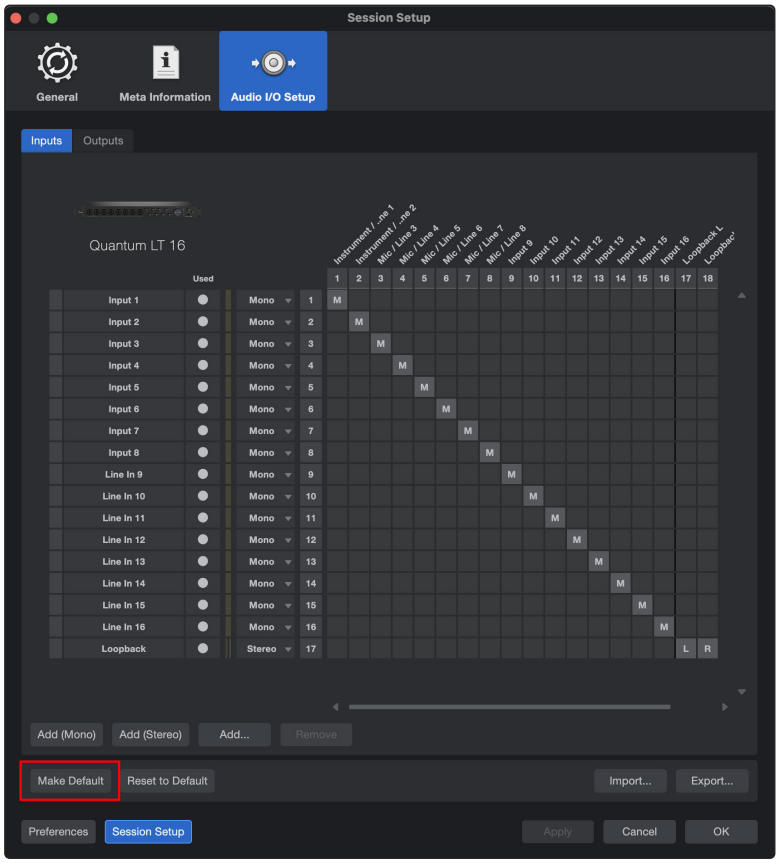
To edit the output routing, click onto the "Outputs" tab and add outputs using the "Add" buttons below the matrix router:



4.2.5 Default Device I/O Setup

We recommend that you create a default Audio I/O Setup that can be a starting point for all new Sessions. This lets you immediately begin working on your new Session, with little or no preliminary setup.

To do so, create software I/O channels for all of your audio device's commonly used inputs and outputs and name them appropriately. Then, click on the "Make Default" button in the Audio I/O Setup menu:



A pop-up window will appear to confirm that you wish to make the current I/O setup the default for new Sessions. Click "Yes," and from that point forward, all new Sessions will be created with this audio I/O setup. You can always use the "Reset to Default" button to apply this configuration to a Session.

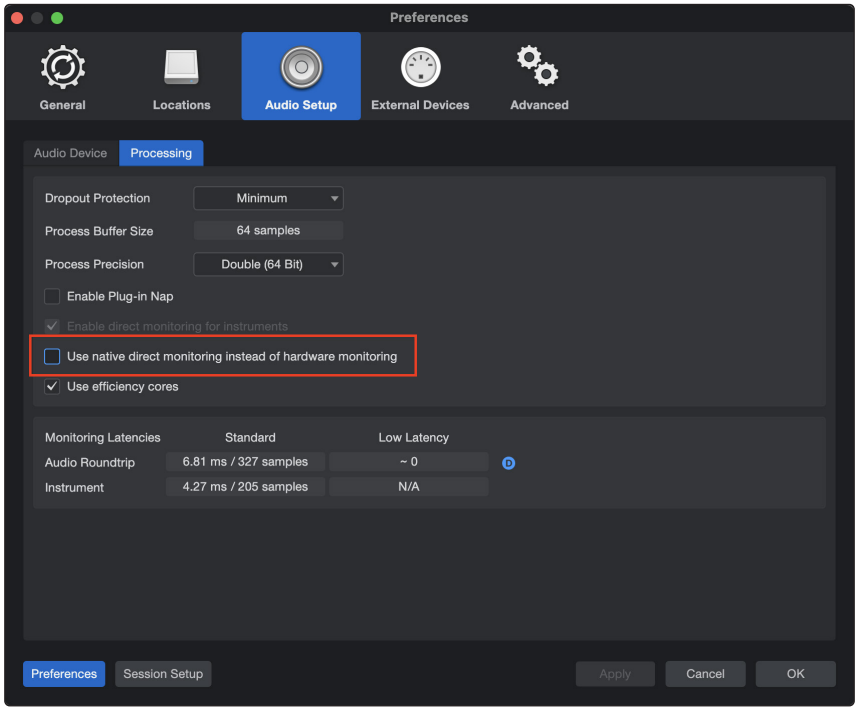
4.2.6 Fender Studio Pro Hardware Monitoring Mode with Quantum LT

When you are working with a large amount of audio tracks and virtual instruments, computer performance can limit your capabilities. You can increase the amount of buffer to help free up computer resources, but this traditionally comes at the cost of greater latency (or delay) when monitoring audio inputs or playing virtual instruments. Set the buffer too low, and audio dropouts and glitches can occur in your DAW.

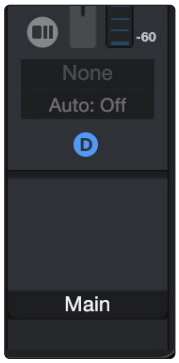
To remedy this, Fender Studio Pro features a Hardware Monitoring system which can be used when a Quantum LT interface is selected as the Audio Device. Under this system, the tasks of audio playback and monitoring of audio inputs are handled as separate processes. This, in effect, lets you use a large processing buffer to handle heavy audio playback and effects processing tasks, while keeping latency low for input monitoring.

4.2 Quantum LT Integration with Fender Studio Pro

To enable Hardware Monitoring in Fender Studio Pro, make sure "Use native low latency monitoring instead of hardware monitoring" is **unchecked** in the Processing settings:



When Studio Pro has Hardware Monitoring on, no other application can modify mixer settings. The monitoring state is also controlled exclusively by Fender Studio Pro. In Fender Studio Pro, you will know when Hardware Monitoring is on when a blue "D" (short for "Direct") marks the bottom of your Main channel strip:



In this mode, the Universal Control Mixer is turned off, and front panel Direct button is non-functional and non-illuminated. Direct monitoring settings for input channels is controlled directly from Studio Pro.

4.2.7 Additional Fender Studio Pro Resources

Operating instructions for Fender Studio Pro is beyond the scope of this Software User Manual, but Fender Studio Pro comes bundled with an array of demo and tutorial materials. **In depth instructions are also available in the Fender Studio Pro User Manual.**

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