



## QuNeo Editor Manual

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# Welcome

QuNeo is a 3D multi-touch pad controller. QuNeo is a different species of pad controller for electronic musicians, DJs, VJs and DIY hackers. While it covers all of the functionality of other pad controllers, QuNeo adds the power of touch recognition in multiple dimensions.

Each of the 27 pads, sliders and rotary sensors are pressure, velocity, and location sensitive. The 17 buttons also respond to pressure and velocity. The 16 square pads provide 128 levels of velocity response, X-Y location, and continuous pressure for each pad. Each rotary sensor measures direction, pressure and location.

QuNeo is the size of an iPad and can fit in iPad accessories such as mic clips, stands and more. QuNeo works with USB, MIDI or OSC and will communicate with your favorite music software environments right out of the box.

In this manual you will find detailed information to help answer all of your questions about QuNeo hardware and software.

## Questions or Feedback? Contact Us!

If at any time you have any questions, please contact us:

Web: [www.keithmcmillen.com](http://www.keithmcmillen.com)

Forum: [forum.keithmcmillen.com](http://forum.keithmcmillen.com)

Support: <http://www.keithmcmillen.com/support>

## What's in the QuNeo Package

When you open up the box you should find:

- (1) QuNeo
- (1) USB A-to-Micro cable (1 meter)
- (1) QuNeo QuickStart Document



# QuNeo Software

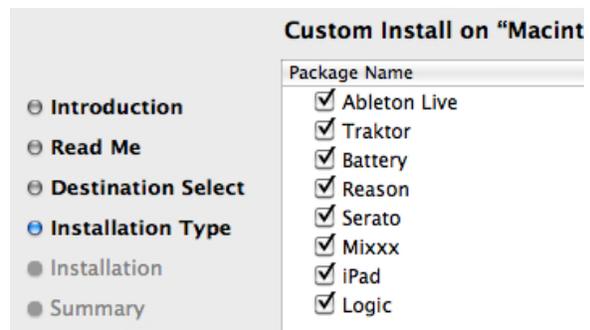
Download our free QuNeo Software Installer from: <http://www.keithmcmillen.com/QuNeo/downloads/>

The Software Installer contains template files that go with QuNeo presets for Ableton Live, Logic, Traktor, Battery, Serato, Reason, Mixxx, and BeatMaker (iPad). All of these can be automatically copied onto a computer by running the QuNeo Software Installer. There is also a Manual QuNeo Software Installer which will allow you to place the template files yourself. When using the manual installer, be sure to read the README files associated with each application template.

## Installation Instructions (Mac)

Double-click on the .dmg file to open the disk image, then double-click on the QuNeo Software Installer.

On the "Installation Type" page, select the software you want to use with QuNeo (as shown in the image to the right). Hit continue, enter your admin password, and the installer will copy over any necessary auto-mapping files. A QuNeo folder will now appear in the Applications directory on your computer.



## Installation Instructions (Windows)

Double-click on the .exe file to launch the QuNeo Software Installer. This will copy all of the necessary files and documentation into the C: directory. When installation is complete click the close button.

Now that the software is installed, look inside the QuNeo folder to find a "Documentation" folder, a "Software Templates" folder, and a "QuNeo Editor" folder. Template files for the software you selected will appear in the "Software Templates" folder. To use them just plug in QuNeo, select the corresponding preset, and try out the template. Use the Quickstart Guides in the respective Software Templates folders for more information about using these templates.

The "QuNeo Editor" folder will contain the QuNeo Editor. Use this to make changes to QuNeo's presets. Once installed **keep everything in the "QuNeo Editor" folder as is** so the application can access everything it needs to run.

# System Requirements

We recommend the following minimum system requirements for the QuNeo Editor and the Software Examples:

## MAC:

- An Intel Core 2 Duo 2.3GHz or greater
- Mac OS 10.5 or later

## WINDOWS:

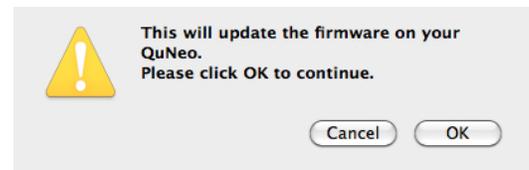
- Windows XP, or Windows 7
- Intel Core 2 processor or greater
- 1GB of RAM with 50 MB free hard disk space

## Updating the Firmware

**Make sure the editor and the firmware versions are compatible with each other.**

When the QuNeo Editor opens, it checks to make sure the firmware on the device is compatible with the application. If the firmware is not compatible, an update prompt will appear. Click ok and wait until the blue Mode button light stops flashing and the “Update Complete” dialog appears before continuing. The blue light and progress bar on screen indicate that the firmware update is in progress.

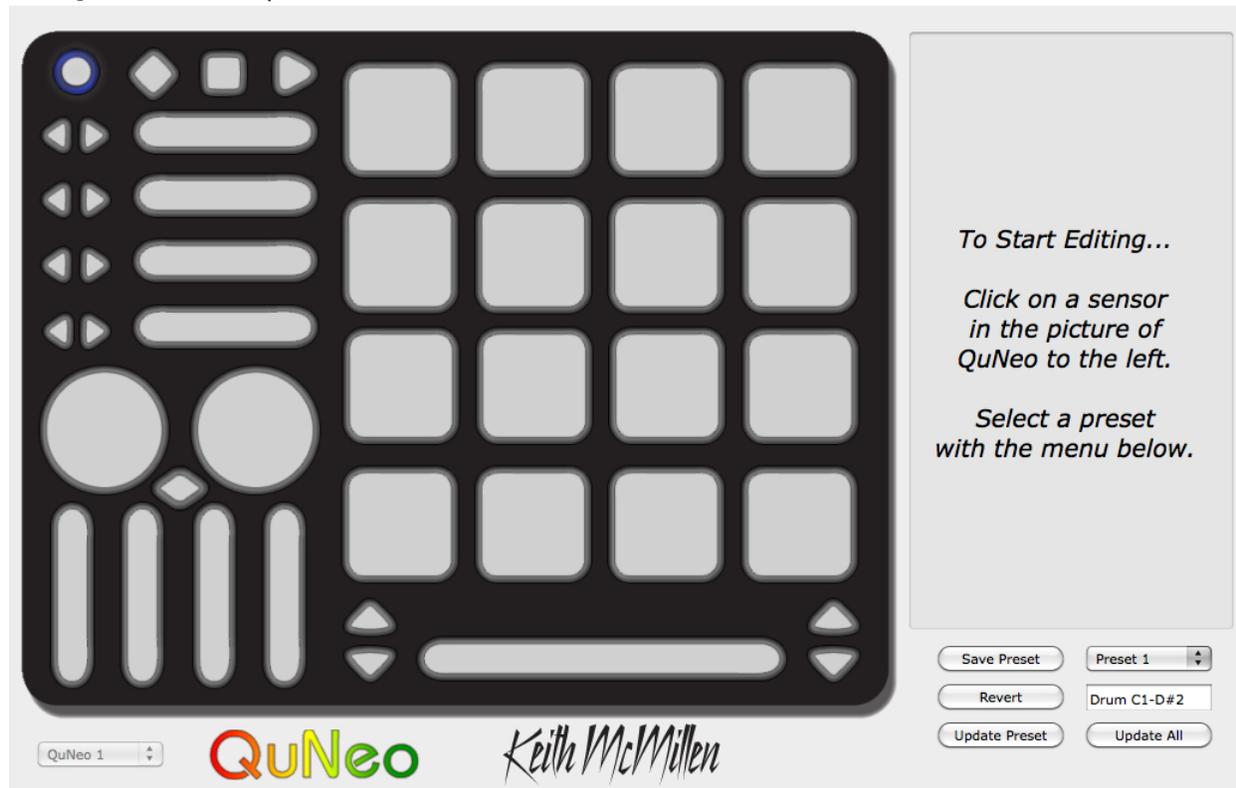
An “Update Firmware” option is located in the file menu of the QuNeo Editor. Select this option and the prompt to the right will appear. Click ok to update firmware.



**Keith McMillen Instruments cannot be held liable for damage resulting from installation and operation errors or improper use.**

# Main Window Overview

The QuNeo Editor opens with this window:



Selecting a sensor on the QuNeo image will open an edit pane in the box to the right. In the edit pane, one can adjust the settings and MIDI data for the selected sensor.

In the bottom left side of the window is an indicator to show that QuNeo is connected to the Editor. If the Editor has found the QuNeo, the device indicator will automatically change to "QuNeo 1" (after the application fully loads) to show that a connection between the Editor and QuNeo has been made.

Controls for saving and recalling presets are found in the bottom right side of the window.

# Saving

Select presets from the menu, name them in the text box, and save or revert them with the “**Save Preset**” and “**Revert**” buttons. Press the “**Update Preset**” button to send the current preset to the QuNeo or press the “**Update All**” button to send all of the presets to the QuNeo.

If edits are made to the selected preset, the **Save Preset** button will begin to blink red as a reminder to save. Click the save button to save the selected preset, and it will cease to blink red. Modified/unsaved presets will appear in the preset list with an asterisk until they are saved.

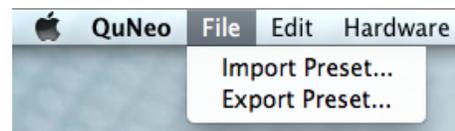
Click the **Revert** button to go back to the previously saved state of the current preset.

In the menu, the presets are listed by number to correspond with the pad numbering when selecting presets from the QuNeo (see the Selecting Presets chapter of the Full Manual for more information).

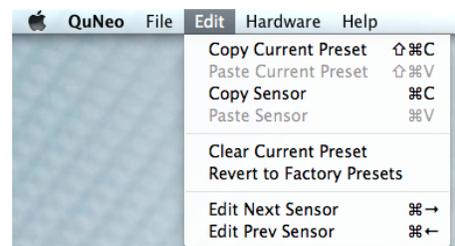


# Menu Bar

More functions can be accessed from the **File** menu. “**Export Presets**” will save a file containing the currently selected preset for safe keeping or sharing. “**Import Presets**” opens previously exported presets into the currently selected preset slot. Importing and Exporting makes preset sharing easy.



The **Edit** menu contains copy and paste functions. “**Copy Current Preset**” will put the current preset onto the application’s clipboard. To paste a copied preset into a different preset, use the “**Paste to Current Preset**” option. It will then be necessary to save the pasted preset.



“**Copy Sensor**” places parameters from the current sensor’s edit pane on the clipboard. Selecting another sensor of the same type enables the “**Paste Sensor**” option.

“**Clear Current Preset**” will blank out the current preset. All sources will be off and everything else will be set to their default values, allowing the user to start from scratch. After clearing the current preset, save the preset to keep the factory versions. “**Revert to Factory Presets**” reloads the original presets into the editor. After reverting to the factory presets, save each preset to keep the factory versions.

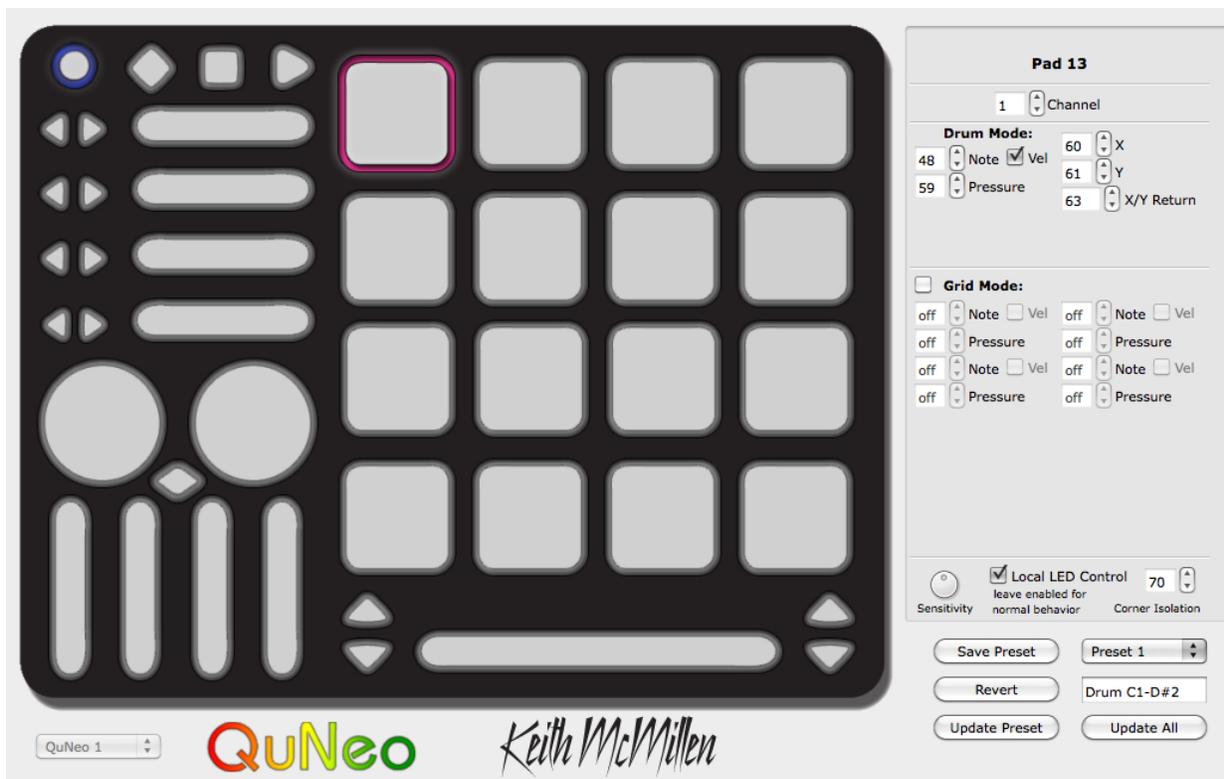
“**Edit Next Sensor**” or “**Edit Prev Sensor**” opens the other sensor’s edit pane.

The **Hardware** menu contains a couple options that will affect the QuNeo hardware. The **“Update Firmware...”** option will open up a firmware update prompt. Click ok and the firmware will update. (see the “Updating the Firmware” chapter of the Full Manual for more information).



The **“Swap Pad LEDs”** option will switch the red and green LEDs on the QuNeo.

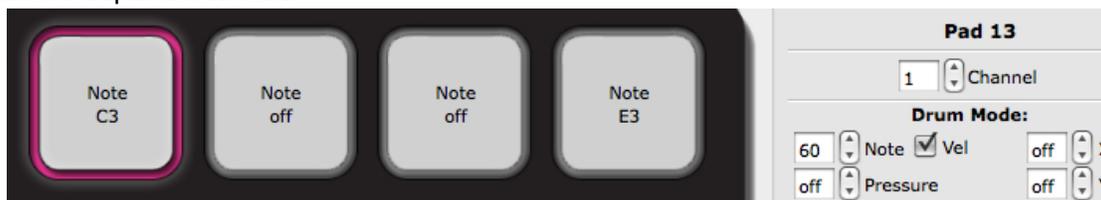
## Sensor Edit Panes



The image above shows Pad 13 selected on the QuNeo image and the Pad 13 edit pane open on the right side of the window. Pad 13 is highlighted pink to show that it is selected.

When editing a parameter in the edit pane, the parameter is displayed on the QuNeo image; as are the similar parameters for all sensors.

**Example:** In the image below, the Note parameter for Pad 13 is set to MIDI note 60 (C3). All of the other pads will display their notes as well. This allows easy checking to prevent unwanted duplicate notes.



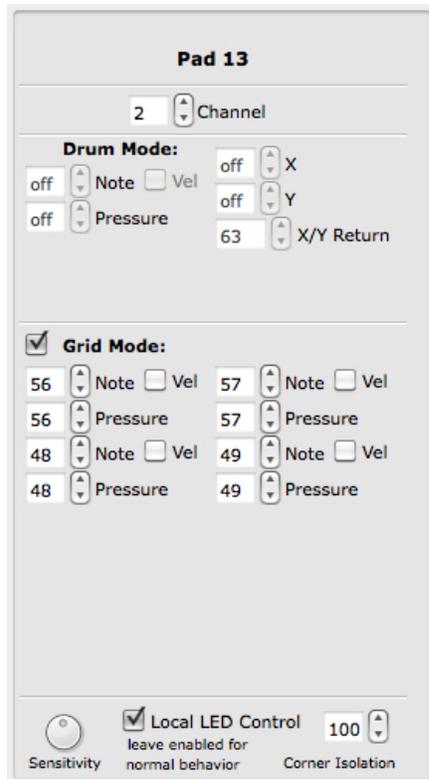
Adjusting the Pressure parameter changes the QuNeo image to display what CC# is assigned to pressure on all of the pads.



All parameters are displayed in this way for all sensor types.

Read on for more detail about the editable parameters in each of the various edit panes.

## Pad Edit Pane



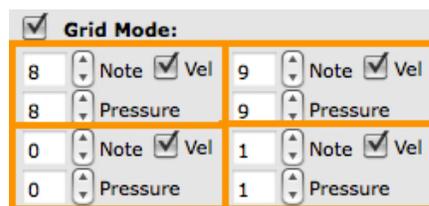
Each Pad can function in either **Drum Mode** or **Grid Mode**. In Drum Mode, it is not possible to edit the parameters for Grid Mode and vice-versa. Enter Grid Mode by clicking on the "Grid Mode" check box.

In **Drum Mode**, the pad parameters include a note, pressure CC#, X-Axis position CC#, Y-Axis position CC#, and an X/Y Return value.

In **Grid Mode**, the pad sources include note and pressure in each corner, allowing up to 4 notes or pressure points per pad.

To disable a source, set the number box below 0 to "off". Enable velocity sensitivity for MIDI notes with the "Vel" check boxes. If unchecked the velocity of the note (if the note is enabled) will be fixed at 127.

**X/Y Return** is the value that X and Y CC#s will return to when the Pad is released. If the number box is set below 0 the values will "latch", staying where they were left when the pad was released.



The image to the left displays the parameters for Grid Mode. It is divided to show which of these parameters correspond to each corner of the pad. The parameters of each pad corner contain a note, velocity switch, and pressure CC#. The placement of the parameters in the edit pane corresponds to the corners of the pads.

The **Corner Isolation** parameter (in the bottom right corner of the Pad edit pane) adjusts how sensitive the other corners of the Pad are while one of the corners is in use. This helps prevent accidental triggers. This is global for all Pads and applies only when they are in grid mode. **Example:** If corner isolation is set to 100, while pressing 1 corner, the other 3 corners must reach 100% of the pressure the first corner is at before registering a note on. So the higher the corner isolation value, the greater the isolation is between corners.

Sensitivity and Local LED Control parameters are at the very bottom of the edit pane. For more information on these please reference the [Sensitivity](#) and [Local LED Control](#) chapters in this section of the manual.

## Vertical and Horizontal Slider Edit Pane

**Horizontal Slider 1**

**Bank 1:** Channel: 1, Note: off, Vel: , Location: 12, Pressure: off

**Bank 2:** Channel: 1, Note: off, Vel: , Location: off, Pressure: off

**Bank 3:** Channel: 1, Note: off, Vel: , Location: off, Pressure: off

**Bank 4:** Channel: 1, Note: off, Vel: , Location: off, Pressure: off

Sensitivity:  Local LED Control:  leave enabled for normal behavior

The Vertical and Horizontal Slider Edit Panes have essentially the same editable parameters.

There are 4 banks available per slider. The Horizontal Sliders each have their own Left/Right Buttons to control which bank is selected. (See the [Left/Right Buttons Edit Pane](#) chapter for more information).

The banks of the Vertical Sliders can be selected by using either the Rhombus button, or one of the Up/Down button pairs. This is programmable in the edit panes for those buttons. (See the [Rhombus Button Edit Pane](#) or the [Up/Down Buttons Edit Pane](#) chapters for more information).

The Slider Edit Pane parameters include a Note, Pressure CC#, and Location CC# for each bank. To disable a source, set the number box below 0 to "off". Enable velocity sensitivity for MIDI notes with the "Vel" check boxes. If unchecked the velocity of the note (if the note is enabled) will be fixed at 127.

Sensitivity and Local LED Control parameters are at the very bottom of the edit pane. For more information on these please reference the [Sensitivity](#) and [Local LED Control](#) chapters in this section of the manual.

## Long Slider Edit Pane

**Long Slider**

**Bank 1:** Channel: 1, Note: off, Vel: , Location: 9, Pressure: 40, Width: 10

**Bank 2:** Channel: 1, Note: off, Vel: , Location: off, Pressure: off, Width: off

**Bank 3:** Channel: 1, Note: off, Vel: , Location: off, Pressure: off, Width: off

**Bank 4:** Channel: 1, Note: off, Vel: , Location: off, Pressure: off, Width: off

Sensitivity:  Local LED Control:  leave enabled for normal behavior

The Long Slider Edit Pane is similar to the Vertical and Horizontal Slider edit panes.

There are 4 banks available. The banks of the Long Slider can be selected by using either the Rhombus button, or one of the Up/Down button pairs. This is programmable in the edit panes for those buttons. (See the [Rhombus Button Edit Pane](#) or the [Up/Down Buttons Edit Pane](#) chapters for more information).

The Long Slider Edit Pane parameters include a Note, Pressure CC#, Location CC#, and Width CC# for each bank. To disable a source, set the number box below 0 to "off". Enable velocity sensitivity for MIDI notes with the "Vel" check boxes. If unchecked the velocity of the note (if the note is enabled) will be fixed at 127.

The Sensitivity and Local LED Control parameters are at the very bottom of the edit pane. For more information on these please reference the [Sensitivity](#) and [Local LED Control](#) chapters in this section of the manual.

## Rotary Edit Pane

The image shows a software interface for editing a rotary controller. It is titled "Rotary 1" and contains four banks of settings. Each bank has a "Channel" dropdown (all set to 1), a "Note" dropdown (all set to "off"), a "Vel" checkbox (all checked), a "Location" dropdown (Bank 1: 50, Bank 2: 52, Bank 3: 54, Bank 4: 56), a "Pressure" dropdown (all set to "off"), a "Pass Thru Width" dropdown (all set to 127), a "Speed" dropdown (all set to 5), and a "Direction" checkbox (all unchecked). At the bottom, there is a "Sensitivity" knob and a "Local LED Control" checkbox (checked) with the text "leave enabled for normal behavior".

Bank	Channel	Note	Vel	Location	Pressure	Pass Thru Width	Speed	Direction
Bank 1	1	off	<input checked="" type="checkbox"/>	50	off	127	5	<input type="checkbox"/>
Bank 2	1	off	<input checked="" type="checkbox"/>	52	off	127	5	<input type="checkbox"/>
Bank 3	1	off	<input checked="" type="checkbox"/>	54	off	127	5	<input type="checkbox"/>
Bank 4	1	off	<input checked="" type="checkbox"/>	56	off	127	5	<input type="checkbox"/>

The Rotary Edit Panes are also similar to the Slider Edit Panes.

There are 4 banks available per Rotary. The banks of the Rotaries can be selected by either the Rhombus button, or one of the Up/Down button pairs. This is programmable in the edit panes for those buttons. (See the [Rhombus Button Edit Pane](#) or the [Up/Down Buttons Edit Pane](#) chapters for more information).

The Rotary Edit Pane parameters include a Note, Pressure CC#, Location CC#, Pass Thru Width, Direction CC#, and Speed for each bank.

The **Direction** CC# will repetitively send out a 127 if finger movement is clockwise. If finger movement is counterclockwise, the CC# will repetitively send out a 0. We refer to this repetitive CC# as a tick. The faster a finger is moved, the faster the tick will output. The **Speed** parameter controls the number of ticks per degree.

Direction and Location cannot be used at the same time.

The Rotaries use a variation of Pass Thru Mode when the location parameter is used. Normally, in pass through mode, MIDI will not be sent until the location value the rotary was left at is triggered. **Pass Thru Width** sets a range of pass through values. **Example:** If Pass Thru Width is set to 10 and the rotary was left at 40, it would be necessary to press somewhere between 30 and 50 to pick back up and output location data. If set to 127, the whole range of the rotary will respond.

To disable a source, set the number box below 0 to "off". Enable velocity sensitivity for MIDI notes with the "Vel" check boxes. If unchecked the velocity of the note (if the note is enabled) will be fixed at 127.

The Sensitivity and Local LED Control parameters are at the very bottom of the edit pane. For more information on these please reference the [Sensitivity](#) and [Local LED Control](#) chapters in this section of the manual.

## Transport Edit Pane

The screenshot shows the 'Transport Buttons' edit pane. At the top, it is titled 'Transport Buttons' with a sub-label 'Play'. Below this, there are three rows of controls: '1' for Channel, '31' for Note with a 'Vel' checkbox, and 'off' for Pressure. At the bottom, there is a 'Sensitivity' knob and a checked 'Local LED Control' checkbox with the text 'leave enabled for normal behavior'.

The Transport buttons are the 3 buttons at the top of the QuNeo next to the Mode button. The diamond button with the red LED is the record button, the square button with the yellow LED is the stop button, and the triangular button with the green LED is the play button. Assign the Channel, Note, and Pressure CC# for each Transport button.

To disable a source, set the number box below 0 to "off". Enable velocity sensitivity for MIDI notes with the "Vel" check boxes. If unchecked the velocity of the note (if the note is enabled) will be fixed at 127.

The Sensitivity and Local LED Control parameters are at the very bottom of the edit pane. For more information on these please reference the [Sensitivity](#) and [Local LED Control](#) chapters in this section of the manual.

## Left/Right Buttons Edit Pane

The screenshot shows the 'Left/Right Buttons' edit pane for 'Horizontal Slider 1'. It features a checked 'Enable Bank Switching' checkbox and a '1' for Channel. Below, there are two columns: 'Left' and 'Right'. Each column has a number box (21 for Left, 22 for Right), a 'Note' label with a 'Vel' checkbox, and an 'off' for Pressure. At the bottom, there is a 'Sensitivity' knob and a checked 'Local LED Control' checkbox with the text 'leave enabled for normal behavior'.

The Left/Right buttons are positioned to the left of each Horizontal slider. If the "Enable Bank Switching" box is checked, these button pairs act as bank controls for each Horizontal Slider. See the [Vertical and Horizontal Slider Edit Pane](#) chapter for more info. The banks will be indicated by the LEDs of the 2 buttons.

For information about how the LEDs indicate the banks, see the "Left/Right Buttons and Banks" chapter of the Full Manual.

If Bank Switching is disabled, each button can output an assigned Note or Pressure CC#.

To disable a source, set the number box below 0 to "off". Enable velocity sensitivity for MIDI notes with the "Vel" check boxes. If unchecked the velocity of the note (if the note is enabled) will be fixed at 127.

The Sensitivity and Local LED Control parameters are at the very bottom of the edit pane. For more information on these please reference the [Sensitivity](#) and [Local LED Control](#) chapters in this section of the manual.

## Up/Down Button Edit Pane

The screenshot shows the 'Up/Down Buttons For Vertical Sliders' edit pane. At the top, there is a checked box for 'Enable Bank Switching' and a dropdown menu for 'Bank Control' set to 'Vertical Sliders'. Below this is a 'Channel' dropdown set to '1'. The pane is divided into two columns: 'Up' and 'Down'. The 'Up' column has a 'Note' dropdown set to '16' with an unchecked 'Vel' checkbox, and a 'Pressure' dropdown set to 'off'. The 'Down' column has a 'Note' dropdown set to '17' with an unchecked 'Vel' checkbox, and a 'Pressure' dropdown set to 'off'. At the bottom, there is a 'Sensitivity' knob and a checked box for 'Local LED Control' with the text 'leave enabled for normal behavior'.

The Up/Down buttons are positioned on either side of the Long Slider. If the “**Enable Bank Switching**” box is checked, these button pairs act as bank controls for the Rotaries, Vertical Sliders, or Long Slider. See the [Vertical and Horizontal Slider Edit Pane](#), [Long Slider Edit Pane](#), or [Rotary Edit Pane](#) chapters for more info. The banks will be indicated by the LEDs of the 2 buttons.

For information about how the LEDs indicate the banks, see the “Up/Down Buttons and Banks” chapter of the Full Manual.

If Bank Switching is disabled, each button can output an assigned Note or Pressure CC#.

To disable a source, set the number box below 0 to “off”. Enable velocity sensitivity for MIDI notes with the “**Vel**” check boxes. If unchecked the velocity of the note (if the note is enabled) will be fixed at 127.

The Sensitivity and Local LED Control parameters are at the very bottom of the edit pane. For more information on these please reference the [Sensitivity](#) and [Local LED Control](#) chapters in this section of the manual.

## Rhombus Button Edit Pane

The screenshot shows the 'Rhombus Button For Rotaries' edit pane. At the top, there is a checked box for 'Enable Bank Switching' and a dropdown menu for 'Bank Control' set to 'Rotaries'. Below this is a 'Channel' dropdown set to '1'. The pane has two rows of controls: the first row has a 'Note' dropdown set to '20' with an unchecked 'Vel' checkbox, and the second row has a 'Pressure' dropdown set to '14'. At the bottom, there is a 'Sensitivity' knob and a checked box for 'Local LED Control' with the text 'leave enabled for normal behavior'.

The Rhombus button is positioned under the Rotaries and above the Vertical Sliders. If the “**Enable Bank Switching**” box is checked, this button acts as a bank control for the Rotaries, Vertical Sliders, or Long Slider. See the [Vertical and Horizontal Slider Edit Pane](#), [Long Slider Edit Pane](#), or [Rotary Edit Pane](#) chapters for more info. The banks will be indicated by the LEDs of the button.

For information about how the LEDs indicate the banks, see the “Rhombus Button and Banks” chapter of the Full Manual.

If Bank Switching is disabled, the button can output an assigned Note or Pressure CC#.

To disable a source, set the number box below 0 to “off”. Enable velocity sensitivity for the MIDI note with the “**Vel**” check boxes. If unchecked the velocity of the note (if the note is enabled) will be fixed at 127.

The Sensitivity and Local LED Control parameters are at the very bottom of the edit pane. For more information on these please reference the [Sensitivity](#) and [Local LED Control](#) chapters in this section of the manual.

## Sensitivity

Sensitivity is editable for the various sensors using the **sensitivity** dial at the bottom of each of the edit panes. This will adjust the on threshold for the sensor. If the sensitivity knob is all the way up, the on threshold will be lower, allowing less pressure before registering any activity. If the sensitivity is all the way down, the on threshold will be higher, requiring more pressure before registering any activity.

The Sensitivity dial is global for all controls of that type.

**Example:** Adjusting the sensitivity in one of the Pad Edit Panes will adjust the sensitivity for all pad edit panes. The Sensitivity dials for the Horizontal Sliders are linked, the Vertical Sliders, the Left/Right Buttons, etc...

## Local LED Control

In each Edit Pane, next to the Sensitivity dial, is a check box for turning **Local LED Control** on and off. Without sending LED messages to the QuNeo from another application or device, the QuNeo's LEDs will automatically respond to touch. This built-in LED behavior can be enabled using the Local LED Control check box. Like the sensitivity dial, the Local LED Control check box is global for all controls of that type.

**Hint:** If Local LED Control is disabled and the QuNeo is not receiving MIDI notes for controlling LEDs, the QuNeo will not light up at all.

In the Left/Right, Up/Down, and Rhombus Button edit panes, if Bank Switching is enabled, Local LED Control cannot be disabled.

The Local LED Control check box is global for all controls of that type.

**Example:** Changing the Local LED Control in one of the Pad Edit Panes will adjust the sensitivity for all pad edit panes. The Local LED Control check boxes for the Horizontal Sliders are linked, the Vertical Sliders, the Left/Right Buttons, etc...

If you experience any problems or have questions regarding the QuNeo install process submit a support request (<http://www.keithmcmillen.com/support>) outlining the problems you're experiencing. The more detailed you are in describing your problem (information about your computer, the software you're running, the circumstances around the issue), the more easily we will be able to help you.