



IMPACT LX MINI

Installation & setup

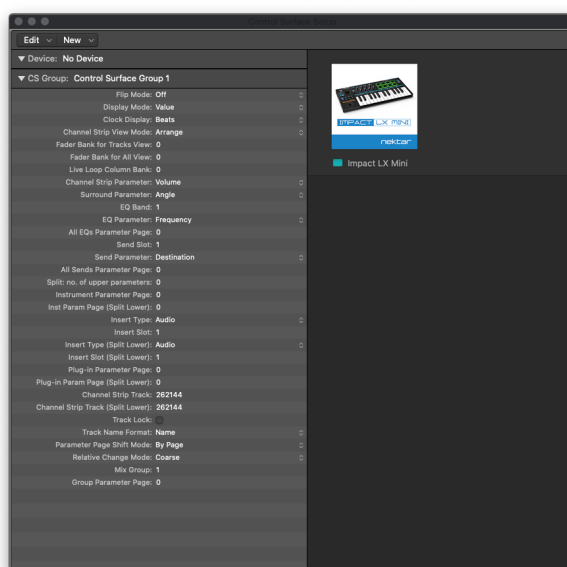
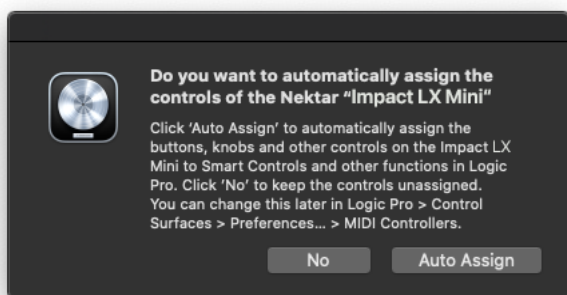
The Impact LX Mini Logic Integration has been verified with Logic 10.6 and above, running MacOS 10.15 or higher. Please make sure your setup is compatible before running the installer.

Setup

Here are the steps you need to go through to get Logic up and running with your Impact LX Mini:

- Locate the Impact_GX-LX_Mini_Apple_support installer included with this package and run it.
- Plug-in your LX Mini and make sure it's switched on (if you didn't do so already).
- Launch Logic Pro.
- Create a new Project and at least one track.
- In Logic, a dialogue box will appear asking 'Do you want to automatically assign the controls of the Nektar "Impact LX Mini"?'. Click "Auto Assign".
- The Control Surface window will appear showing the Impact LX Mini icon.
- In the 'Logic Pro' menu, go to Preferences>Advanced Tools. Make sure 'Show Advanced Tools' is ticked and at minimum that 'Control Surfaces' is ticked in 'Additional Options'.

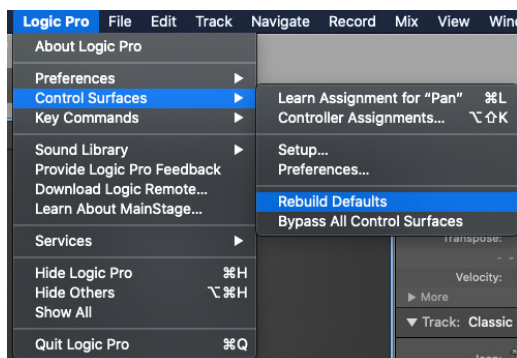
That's it, setup is now complete.



Troubleshooting

If you encounter unexpected behavior when using the Impact LX Mini control surface functions, go to the Logic Pro menu and select Control Surfaces > Rebuild Defaults.

If you don't see the option to Rebuild Defaults, go to Preferences/Advanced Tools and tick 'Show Advanced Tools'. Make sure 'Control Surfaces' is ticked, and close the window. You can now select 'Rebuild Defaults' in the Control Surfaces menu.



Logic Pro and LX Mini working together

With the Logic Pro integration files installed and setup complete, LX Mini is ready to control Logic Pro's transport functions, track change, track/channel volume, open/close windows and of course instrument plugins. All of this works seamlessly alongside LX Mini's internal MIDI functions as detailed in the owner's manual. Start by checking that DAW integration is setup correctly and working, by pressing the play button on LX Mini to activate play in Logic Pro.

Transport Control

The transport buttons are set up to activate or deactivate the following transport functions: Click on/off, Rewind (in 1 bar decrements), Forward (in 1 bar increments), Cycle, Stop, Play and Record.

Press the [Shift] button to illuminate. When the button is blue, the transport buttons switch to their secondary assignments as indicated by the blue screen printing above the buttons.

The white screen printing also indicate additional functionality which can be accessed by pressing the transport buttons while holding [Shift]. For example, [Shift]+[Click] will activate Undo in Logic Pro.

The chart below shows you what each button or button combination control.

BLUE LED BUTTON OFF		BLUE LED BUTTON ON		[SHIFT] FUNCTIONS	
BUTTON	PARAMETER	BUTTON	PARAMETER	BUTTON COMB.	PARAMETER
Click	Click on/off	S1	Open/close Mixer.	Shift + Click	Undo.
⏮	Rewind, 1 bar. Press to scroll.	S2	Open/close Instrument window.	Shift + ⏮	Goto left Cycle point.
⏭	Forward, 1 bar. Press to scroll.	S3	Open/close Smart Controls.	Shift + ⏭	Goto right Cycle point.
↺↻	Cycle on/off.	◀ Track	Select previous track.	Shift + ↺↻	Set left Cycle point.
■	Stop.	Track ▶	Select next track.	Shift + ■	Set right Cycle point.
▶	Play.	◀ Patch	Previous instrument patch*.	Shift + ▶	Arpeggiator enable.
●	Record.	Patch ▶	Next instrument patch*.	Shift + ●	Toggle automation Latch and Read.

* Patches=Logic Pro AU user presets. Make sure at least 2 presets are saved in Logic Pro.

Open/close Logic Pro windows

Make sure [Shift] is illuminated blue. If it's not, press the button.

The 3 buttons with S1, S2 and S3 printed in blue above, now toggle Logic Pro windows mixer, instrument plugin and Smart Controls open/closed.

Track change

To navigate Logic Pro tracks from Impact LX Mini, make sure the [Shift] button is illuminated blue. Next press the button [<Track] to go to the previous track and [Track>] to go to the next track. This is the same as using the arrow up/down keys on your computer keyboard.

Once opened, the instrument window stays open until closed and updates when a new track is selected. Close the window by pressing [S2]. It will remain closed until open again. You can still control instrument parameters in the closed state.

Transport control

Creating instrument tracks

Instrument tracks can be created directly from LX Mini by pressing [Shift]+[Instrument].

Changing patches

You can step through instrument patches from LX Mini as long as they are available in Logic Pro's library browser. All Logic Pro's instrument patches are available immediately and many AU plugins too. AU plugins that don't present their patches by default, can be saved manually in Logic Pro. To save an AU plugin patch, open the plugin's UI and click in the field that reads 'Manual'. Select 'Save as' or other save option. Save at least 2 patches to navigate between from LX Mini.

With the [Shift] button illuminated blue, press [<Patch] and [Patch>] to go to previous and next patch.

Undo

Press [Shift]+[Click/Undo] to undo the last action in Logic Pro.

Set and goto Cycle start/end

Adding a few button presses to your workflow can greatly help navigating a project without taking your hands of LX Mini.

- Press [Shift]+[Rwd/Goto L] to move the Logic Pro playback to Cycle Start.
- Press [Shift]+[Fwd/Goto R] to move the Logic Pro playback to Cycle End.

If Cycle is on in Logic Pro, press [Shift] to select the primary assignments and press [Cycle] to switch off. Logic Pro will now play beyond the right locator.

- Press [Shift]+[Cycle] to set Cycle Start as Logic Pro is playing.
- Press [Shift]+[Stop] to set Cycle End at the point where you want it.

Next activate [Cycle] again and press [Shift]+[Rwd/Goto L]. Logic Pro now play the Cycle as set.

Arpeggiator enable

Logic Pro's arpeggiator can be enabled or disabled easily from LX Mini. It makes it much more immediate when experimenting with instrument parts. Press [Shift]+[Play] to toggle the arpeggiator on or off.

Automation

As you control Logic Pro instrument parameters from LX Mini, you'll experience moments that should be captured. Without breaking your flow, press [Shift]+[Record] to enable automation 'Latch'. As soon as automation has been captured, press [Shift]+[Record] to set automation to 'Read'.

Controlling parameters

Volume control, soft take-over and LED indicators

The large pot by default control the currently selected track's volume. Move the pot all the way up and down. The Logic Pro mixer's volume parameter associated with the currently selected track, is now controlled.

You may have experienced that volume was not controlled immediately as you moved the pot. This is caused by soft take-over which helps avoid parameter jumping when using any of LX Mini's 9 pots. For example, if the large pot is not in sync with the current channel volume, moving the pot will not cause a change until its position matches the value of the parameter.

In addition, the two LEDs below the pot indicate which direction the pot should be turned to change volume. If for example the right LED is red, move the pot to the right. Once the pot's position matches the current tracks volume setting, the two LEDs will both illuminate green and the parameter is controlled.

Controlling master volume

You can also use the large pot to control the Logic Pro mixer's master volume. Press and hold the [Shift] button and move the pot.

Controlling instruments

When an instrument track is selected in Logic Pro, press [Instrument] to control the hosted plugin instrument. Impact LX Mini automatically map the hosted Logic Pro instrument plugin's parameters. If you select any other type of track, there are no parameters to control, other than of course track volume.

LX Mini is premapped for all of Logic Pro's instrument plugins as well as some AU plugins. On Impact LX Mini, press the [Page] button until the blue LED button labeled "Default" is illuminated. If the plugin is premapped, mapping now corresponds to the blue screen printing on your Impact LX Mini.

The 8 pots are assigned to oscillator and filter parameters as indicated by the blue silk screen printing.

As you control parameters the two LED's below the large pot update to provide current soft take-over status. Check the section "Volume control soft take-over and LED indicators" on the previous page for a recap.

Smart Controls

To control Smart Controls, press [Page] so both 'Default' and "User' LEDs are illuminated. The Smart Controls inspector is now in view. Smart Controls map up to 12 parameters with the automatic mapping assigning the parameters you are most likely to need. You can also create your own Smart Controls mapping. Read the Logic documentation for more information about this. Smart Controls can control effect parameters as well as instrument parameters. Press [Shift]+[Page] again to close the Smart Controls inspector.

Learn plugin instrument mapping

Logic has a good Learn function which can be remote controlled from LX Mini. Here is how it works:

- With the Instrument mode preset selected on LX Mini make sure the 'Default' page is selected.
- Press and hold [Shift] while moving the parameter you want to control, in the instrument GUI.
- Move the LX Mini pot you want the parameter assigned to.
- Release [Shift] and close the Logic "Controller Assignments" window. If a warning message appears after releasing [Shift], click 'Reassign' and then close the Logic "Controller Assignments" window.

To assign more controls to a second page, press [Shift]+[Page] to deactivate Smart Controls mapping. Press [Page] following to toggle between the Default and User page.

To return to the default Smart Controls mapping, press [Shift]+[Page] again. Note that Smart Controls mapping is the default when Logic is launched.

Using the pads to trigger markers

Using the pads, up to 64 markers can be created and selected from LX Mini. Here is how:

Assigning pads to select markers

Pressing the [Shift]+[Scenes] button combination assigns the 8 pads to trigger markers. By default the pads will select markers 1-8 and pads are illuminated if a marker exists. Assuming there are 7 illuminated pads and pad 8 is off, it means that there are 7 markers.

The selected marker is green, all other pads illuminated orange indicate a marker exists for the location and any pads beyond the last marker are off.

Add a marker in Logic Pro from LX Mini

Press [Shift]+[Pad (LED off)] to add a marker from the Impact LX Mini. The marker is added as the next available marker and the pad corresponding illuminates regardless of which pad you strike. It's not possible to create markers out of sequence.

Delete a marker in Logic Pro from LX Mini

Any marker can be deleted by holding [Shift] and double tap the target [Pad (LED on)]. Because markers are in sequence, deleting a marker shifts the following markers forward by a position but you will see that one less pad is illuminated.

Select Another Bank of 8 Markers

You can select up to 8 markers in a bank, corresponding to each of the 8 pads. You can also select up to 8 banks providing a total of 64 makers that can be selected from LX Mini.

To select any of the 8 banks, press [Page]+[Pad 1-8] where the pad corresponds to the bank you want.

Note, there must be enough markers in the current project to either select or create markers, in a selected bank..

Drum instruments can be played from LX Mini's keyboard or pads

Operating a drum instrument works the same way as any other instrument and using the Pad maps 1+2 you are able to play many drum instruments straight away. However there is no exact standard for how drum sounds should be mapped so you may have instruments where the Impact LX Mini pads don't trigger the sounds you want.

Thankfully there is a learn function for that.

'Learning' a plugin instrument's drum sounds to the pads

It's easy to change a pad note assignment using the Pad Learn function. It works as follows:

- Press [Shift]+[Internal] to activate Setup mode. The Internal button's LED now blinks white.
- On the keyboard, press E1, labeled 'Pad Learn'.
- All pad LEDs are now off, except the currently select pad. Press any pad to select it.
- Press a key on the keyboard to learn its note to the selected pad. Use the octave buttons if necessary.
- Repeat steps 3 and 4 to select pads and assign notes.
- Press [Instrument], [Internal] or [Function] to exit when done.

The pad assignments are retained in memory until changed or a pad map is loaded. Make sure to store in one of the 4 pad maps if you want to be able to recall your assignments at any time.

Support

If you are not getting the results described, please check your installation one more time as well as the Nektar support tab on our website www.nektartech.com. You can also contact our support staff [here](#)

Logic Pro 10.8 Live Loops

With Logic Pro 10.8 or higher installed, you'll be able to use your LX Mini pads to record and playback Logic Pro's Live Loops. If you are not familiar with Live Loops, read the Logic Pro User guide section [Logic Pro for Mac Live Loops overview](#).

Press [Shift]+[Clips] on LX Mini to toggle the Live Loops Grid window. The window must be in view if you are starting with a project that does not contain any existing Live Loops.

Live Loop Cells

The 8 pads on LX Mini can be used to record and trigger Logic Pro Live Loop cells. Start by selecting an Instrument, External MIDI or Drummer track and press the [Clips] button. The pads now trigger the first 8 Live Loop cells on the selected track. Only 1 cell can be active per track, so triggering a pad may also stop playback of any other cell already playing.

The pads are illuminated if the corresponding cells on the currently selected track already contain recorded loops. Here is what the colors tell you:

- Yellow:** A loop exists in the corresponding Live Loop cell.
- Green:** The currently playing cell.
- Red:** The cell is recording.
- Off:** Empty cell slot.
- Blinking:** The cell is queued for record, playback or stop at the end of the current measure.

Recording and playing Live Loop Cells

Getting started is as easy as tapping a pad. Here is what happens:

- Tap an empty pad to trigger recording to the corresponding cell.
- Tap the pad again to finish recording.
- Tap any yellow pad to trigger cell playback in the corresponding Live Loop cell.
- The last triggered/recorded cell is always the 'selected' cell for editing.

Delete, select and duplicate

Using the [Shift] button the pads allow additional cell handling:

- Hold [Shift] and tap a yellow/green pad twice, to delete the Live Loop in the corresponding cell.
- Hold [Shift] and tap a pad to select the Live Loop cell.
- A cell can only be duplicated to an empty cell immediately after it. Hold [Shift] and tap the source pad, then tap the unlit pad (empty cell) next to it.

The chart shows functions that can be activated by holding [Clips] and pressing one of the transport buttons.

The [Shift] button must be off so make sure it's not illuminated blue.

Trigger Live Loops on a track that's not selected

With the [Shift] button illuminated blue, hold [Clips] and press one of the [<Track/Track>] buttons to select a different track while the pads still trigger clips on the original track. The feature enables you to for example trigger drum loops while recording a keyboard part on the selected track.

[Clips] FUNCTIONS		
BUTTON COMB.		PARAMETER
Clips	+ ⏮	Half the length of the selected cell. *
Clips	+ ⏭	Double the length of the selected cell.
Clips	+ ↺	Quantize selected cell.
Clips	+ ■	Stop playback of selected cell.
Clips	+ ▶	Activate play of the selected cell.
Clips	+ ●	Activate overdub record**

* Halving the length of a cell will erase the recorded data in the second half. Use Undo to preserve.

** Overdub record is disabled when the end of the clip is reached, which appears as if it is not working. For guaranteed result, press [play] then [Stop] before using the shortcut.

Scenes

Press the [Scenes] button to trigger Live Loop scenes using the pads. As with cells, tapping a pad activates the corresponding scene from 1 to 8. When a scene is activated, the associated cell slot on every track in the Live Loop Grid will trigger. Here is what the pads colors tell you:

Yellow:	A clip exists on at least one track in the corresponding scene.
Green:	The currently triggered scene.
Off:	Scene is empty.
Blinking:	The scene is queued for playback.

Triggering and selecting scenes

A scene is triggered when you tap a pad. Below are the main points but check out the scenes transport functions below to become a power user.

- Tap any yellow pad to trigger the corresponding scene.
- Tap any empty pad to stop all clip playback and return playback to the arrangement
- Hold [Shift] and tap any pad once, to select it without triggering. Once selected, you can use some of the features listed in the chart.
- After selecting an Orange/green pad with [Shift] held, tap any empty pads to duplicate the scene across those pads.

* This determines whether the record button triggers Session record (on) or arranger record (off).

Selecting Scene and Clip banks

From LX Mini's 8 pads you have access to 8 banks of 8 clips/scenes, which adds up to a maximum of 64. Bank selection affects both clips and scenes. If bank 2 is selected, the pads trigger clips 9-16 when [Clips] is active and scenes 9-16 when [Scenes] is active.

- Make sure either [Clips] or [Scenes] is active.
- Hold [Page] and tap pads 1-8 then tap a one of the 8 pads to select one of the 8 banks. Release [Shift] to select.

Example: How to use clips feature

- Press [Clips]
- Tap pad 1 and record a basic drum beat (1 bar). Tap again to end the recording.
- Press [Clips]+[Loop] to quantize the recording.
- Hold [Shift] and tap pad 1, then pads 2, 3, 4 to make 4 duplications of the recording.
- Tap pad 3 to trigger the 3rd duplication.
- Press [Clips]+[Rew] to half the recording making a variation. Repeat as required.
- Tap pad 1 to trigger the original clip.
- Press [Clips]+[Fwd] to lengthen the clip to 2, 4, or 8 bars (with each press of Fwd).
- With [Clips] still held, press [Rec] to activate overdub, then play and add some additional fills to the first recording.
- Using [Clips]+[Rwd/Fwd], modify the variations on pads 2 and 4 as required.
- Alternatively, hold [Shift] and tap a pad twice to delete the clip, freeing the clip slot for a new recording.