



nektar | IMPACT

LX25+ | LX49+ | LX61+ | LX88+



**Using Impact LX+ with
Reaper**

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Reaper Integration Installation and Setup

The Impact LX+ Reaper Integration is compatible with Reaper 4.59 or later. We recommend that you upgrade to the latest version if you have not already done so.

These instructions assumes you have a compatible Reaper program installed running on either Windows Vista, 7, 8, 10 or higher or Mac OS X 10.7 or higher.

Installation

- If you have just completed a fresh install of Reaper, make sure to first open Reaper once and quit again, before installing the Impact Reaper DAW integration files.
- Locate the Impact_GX_LX+_Reaper_support installer included with this package and run it.
- Plug-in your Impact LX+ and make sure it's switched on (if you didn't do so already)
- Launch Reaper and go to Options/Preferences/Control-OSC-Web
Note: in older versions the menu may be called Control Surfaces
- Click "Add", then in the pop-up window, select your Impact LX+ model in the "Control surface mode" list. As long as your Impact LX+ is connected and switched on, Reaper should automatically detect the correct ports. (See Image 1 for Windows setup and Image 2 for OS X). Click "Ok"
- Go to Preferences/Audio/MIDI Devices next and enable Port 1 for your Impact LX+. The mode should be "Enable+Control". The other 2 Impact LX+ ports should remain disabled.
- Click "Apply" and OK

That's it, setup is now complete and you can move on to the fun part, learning how it all works.

Image 1 - Windows

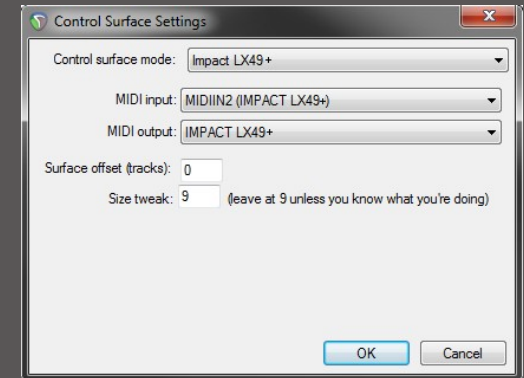
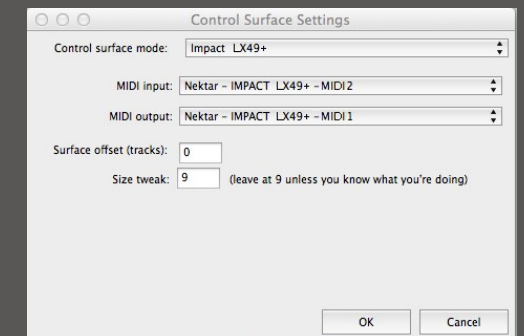


Image 2 - OS X



Reaper and Impact LX+ Working Together

The following pages focus on how Reaper and Impact LX+ work together. If you have been using Reaper for a while, you may not need any additional information but it's always a good idea to revisit the extensive Reaper documentation to remind yourself about how Reaper works with control surfaces.

Track Changes

To navigate Reaper tracks from Impact LX+, press [**<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.

Transport

The transport buttons give access to activate or deactivate the following transport functions: Cycle (loop), Rewind (in 1 bar decrements), Forward (in 1 bar increments), Stop, Play, Record.



In addition the buttons double up with functionality that's accessed by holding down the [**Shift**] button. The chart below Shows you what each button and button combination does and how they behave.

Key Combination	Description
[Cycle]	Switch the loop/cycle between the Left and Right loop points on/off
[Rewind]	Rewinds in steps of 1 bar. Press and hold for continuous rewind
[Forward]	Forward in steps of 1 bar. Press and hold to continuous forward
[Stop]	Stop playback. Play will start again at the same location you previously started from
[Play]	Activate play. Press again to pause play. Pressing [Play] again will continue playback from the location you paused at.
[Record]	Activate record. Press again to stop record
[Shift]+[Cycle]	Goto Left loop point
[Shift]+[Rewind]	Set Left loop point to the current song position
[Shift]+[Forward]	Set Right loop point to the current song position
[Shift]+[Stop]	Undo last changes
[Shift]+[Play]	Switch the Click/metronome on/off
[Shift]+[Record] (Mode)	Toggle between overdub MIDI record mode and replace(latch) MIDI record mode

Soft Take-Over

As you control different parts of Reaper with the same controls you would normally experience parameter jumping. This is what happens when a control's physical position is not the same as the position of the parameter you are controlling.

To avoid parameter jumping your Impact LX+ is equipped with Soft Take-Over. This means that if a control is not in sync with a parameter, moving the control will not cause a change, until it's position matches the value of the parameter.

Let's say the faders have been used to control an instrument in Reaper. Now you are ready to control the Reaper Mixer and need the faders for that. When you move a fader it's unlikely that it will be in sync with the mixer channel volume that it's controlling because it was just used to control an instrument parameter.

The Impact LX+ therefore reads the parameter value from Reaper and tells you in the display if you need to move the fader up {UP} or down {dn}. If a fader is positioned at 0 and the Reaper parameter it is controlling, is positioned at 100, moving the Impact LX+ fader will cause it's display to show {UP}. No data is sent by the fader until you reach value 100 at which point the Reaper parameter will start to move and values will update in the Impact LX+ display.

Reaper Mixer Control

To control the Reaper mixer, press the [Mixer] button to select the mixer preset. The button's LED is illuminated while the preset is selected and the Reaper mixer is being controlled.

Open/Close the Reaper Mixer Window

If the Reaper mixer is not in view pressing [Shift]+[Mixer] will bring it in to view. Press the same button again to close the mixer window. While the Mixer preset is selected, your Impact LX40+ continues to control the Reaper mixer, even if the mixer window is closed.

Channel Volume & Pan

With the mixer preset active, moving faders 1-8 will control the first 8 mixer channels in the Reaper mixer. The 8 pots control pan for each of the corresponding channels.

LX25+: On the Impact LX25+, the 8 pots control 8 mixer channels by default. You can switch them to control Pan by pressing and holding [Mixer] while moving the pots.

Fader 9 (on LX25+, the single fader) controls the channel corresponding to the currently selected track. As you change tracks, you can therefore quickly change volume for the track you are working with. If you have 16 tracks in your song and the currently selected track is 12, that would result in faders 1-8 controlling mixer channel volume 9-16 and fader 9 controlling channel volume 12.

Mute & Solo

Fader buttons 1-8 control mute for each of the tracks the faders are assigned to control. If you prefer to solo tracks, you can press and hold fader button 9 while pressing fader buttons 1-8. The 8 buttons will now control solo for their corresponding tracks.

LX25+: On Impact LX25+, you can use the pads to control mute for tracks 1-8. Press and hold [Mixer] while hitting pads 1-8. This will toggle mute on or off for the corresponding channels. Release the [Mixer] button and the pads revert to trigger MIDI notes. It is not possible to control the Solo function with LX25+.

Bank Over (1-8), (9-16) etc

If your song contains more than 8 mixer channels you can bank over so the faders 1-8 control the next group of 8 channels. To do this, press [Shift]+[Bank>] (the second fader button). The faders, pots and fader buttons are now assigned to control channels 9-16. Push the same key combination again to control 17-24 etc.

To go back you press [Shift]+[<Bank]

LX25+: On Impact LX25+ press and hold [Mixer] while pressing [Octave-] or [Octave+] to move the bank down or up.

Master Volume

You can control the Master Volume fader of the Reaper mixer by pressing [Fader button 9] and then move fader 9 while the button is pressed.

Upon release of the button, fader 9 will revert to control the current channel volume.

LX25+: On Impact LX25+, press [Mixer] and move the [Fader] to control master volume.

Reaper Instrument Control

Press the [Inst] button to select the Instrument preset. The button's LED is illuminated while the preset is selected.

To control an instrument you must however be on an instrument track. From the Cubase "Project" menu, select "Add Track/Instrument" and then select "ReaSynth (Cockos)" as a starting point.

Open/close the Instrument Window

With an instrument track selected, you can press [Shift]+[Inst] to bring the instrument GUI window in to view. Press the same button combination again to close the instrument window.

Changing Patches

You can step through instrument patches within the current instrument directory from Impact LX+. This makes it easy to change and tweak sounds while you play.

Change instrument patch by pressing the [Patch>] button to go to the next patch or [<Patch] to go to the previous patch.

Controlling Instruments

With the [Inst] (Instrument) preset selected, Impact LX+ will automatically map parameters for the VST instrument associated with the instrument/MIDI track you are currently on. If you select any other type of track, there are no parameters to control.

Impact LX+ is premapped for most of the popular VST instrument plugins available including of course the included instruments that come with Cubase. Select a track that contains for example ReaSynth.

On Impact LX+, press the [Page] button until the blue LED button labeled "Default" is illuminated. The mapping now corresponds to the blue silk screen printing on your Impact LX+.

Moving the faders (on LX25+, you do this by holding the [Inst] button while moving the pots) therefore now control ADSR envelope parameters in ReaSynth and Fader 9 is assigned to control the instrument volume. The 8 pot's are assigned to oscillator and filter parameters as indicated by the blue silk screen printing.

Now press [Page] again so the LED labeled "User" is illuminated. The Nektar mapping for this page will typically augment the default mapping so for example you could have oscillator 1 parameters mapped on the Default page and oscillator 2 parameters mapped for the same controls on the User page. The idea however is that you customize this page to your needs. With Cubase you can however customize both Default and User control pages if you prefer a completely different setup. Read the next section to learn how that works.

"Grab" VST Instrument Mapping

The unique "Grab" function allows you to quickly assign controls to parameters on the device associated with the current track for the control page currently selected (User or Default).

- Press and hold [Shift] on Impact LX+
- Move the parameters you want to control one at a time, on the instrument associated with the current track
- Release the [Shift] button
- Move each of the controls in the order you want the parameters you moved to be assigned to those controls

Save VST Instrument Mapping

"Grab" is for quick temporary assignments and are not stored with your project file. You can however save them to an Impact LX+ map file

Save the parameters you mapped to controls using the "Grab" function, by pressing [Shift] twice in quick succession. A saved map is recalled every time you create an instrument track with the corresponding VST instrument.

Note: If you add an instrument to an existing track via the FX button, grab mode will not be able to control the plug-in. We recommend you select "Insert Virtual Instrument on New Track" for consistent behavior.

Using Impact LX+ pads

Drum instruments can be played from the Impact LX+ keyboard or 8 pads.

Operating the 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+ pads don't trigger the sounds you want.

Thankfully there is a learn function for that.

“Learning” a VST Instrument drum Sounds to the Pads

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

1. Press the function buttons labeled [Shift]+[<Patch] (Pad Learn). The display will now blink, showing P1 (pad 1) as the default selected pad.
2. Hit the pad you want to assign a new note value to. The display blinks and updates to show the number of the pad you selected.
3. Press the key on the keyboard that plays the sound you want to assign to the pad. You can keep playing notes on the keyboard until you have found the note you want.
4. When you are done, press [Pad Learn] to exit and start playing your pads with the new assignment.

You can keep repeating steps 2. and 3. until you have created a complete Pad Map. The settings are stored over power cycling so you will not lose them as you power down your system. However it's a good idea to save setups that you may want to have access to regularly in the future to one of the 4 pad map locations in Impact LX+. To learn how to do that, go to the “Setup Menu” section in this manual.