



**Using Panorama T4/T6
With Studio One 4
(or higher)**

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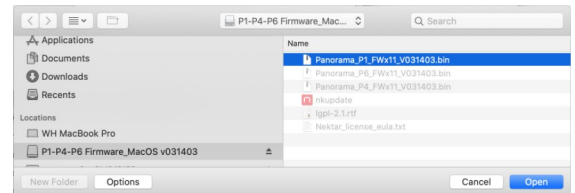
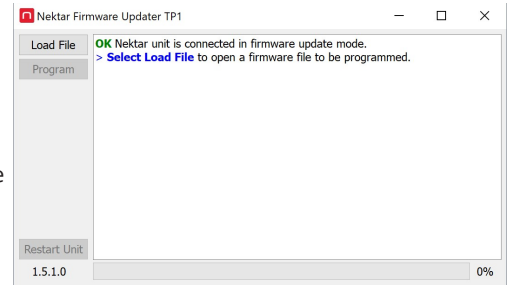
Studio One Integration Setup and Configuration

The Panorama T4/T6 Studio One Integration has been verified with Studio One 4 or higher. To setup Panorama T4/T6 with Studio One version 3.5 or below, download the package for MCU/Nektarine from your account and follow the setup instructions for MCU.

The following instructions assumes you have Studio One 4 installed running on either Windows (Vista, 7, 8, 10 or higher) or Mac OS X (10.7 or higher).

Panorama T4/T6 Firmware Update

1. Connect Panorama T4/T6 to your computer via USB.
2. With Panorama T4/T6 switched off, press and hold [fader button 9]+[Shift] while switching the unit on. The two buttons are next to each other and the display will be white when the unit is on.
3. Locate the dmg file named "T4-T6_Firmware" in the downloaded package this guide came with, and double-click to open.
4. Launch the 'nkupdate' application. Once launched, it should look like the image. If the "Load File" button is grayed out, close nkupdate and launch it again.
5. Follow the nkupdate on-screen instructions to load and update Panorama T4/T6's firmware. The firmware location can be selected after clicking the [Load File] button.
6. On the left side of the file browser window, select Location 'T4-T6_Firmware'. Next select the file for your device, and click 'Open'.
7. Click [Program] and finally close the nkupdate app when complete.
8. Once the update process is complete, switch Panorama T4/T6 off and on again.



Nektar Studio One Integration Setup

1. Make sure Studio One is already installed on your computer. If not, please install Studio One first and open Studio One at least once, before running the installer for Nektar DAW integration software.
2. Locate the 'Panorama_T4_T6_PreSonus_support' installer included with this package and run it.
3. Make sure your Panorama T4/T6 is plugged in to your computer and switched on.
4. Launch Studio One and create a project/song. The T4/T6 should be automatically detected.
5. Download and install the Nektarine plugin from the 'My Account' tab on our website, if you'd like to use Nektarine alongside the Nektar Studio One integration.

That's it, setup is now complete.

Studio One and Panorama T4/T6 Working Together

The following pages focus on how Studio One and Panorama T4/T6 work together. If you have been using Studio One for a while, you may not need any additional information but it's always a good idea to revisit Studio One's extensive documentation to remind yourself, how Studio One's functions work.

Mixer Mode Channel/Track Changes

You can navigate Studio One's tracks and channels from Panorama T4/T6.

In Mixer mode press [Track-] to go to the previous channel and [Track+] to go to the next channel. This is the same as using the left/right arrow keys on your computer keyboard.

When a channel is selected, Studio One also selects the associated Track and the selected channel name is inverted in the Panorama T4/T6 display. Similarly, when an audio or instrument track hosting a plugin is created, the track name will be visible on Panorama T4/T6's display, while [Mixer] is selected.

Other tracks, such as folder, automation and instrument tracks that route to a MIDI output, are not displayed. The reason is that they do not have an associated mixer channel so Mixer mode can't see them.

Instrument Mode Track Changes

In Instrument mode press [Track-] to go to the previous track and [Track+] to go to the next track in the arranger. This is the same as using the up/down arrow keys on your computer keyboard. The track buttons in Instrument mode step through every track in your song, regardless of whether the track has an associated mixer channel or not.

Transport

The transport buttons give access to activate or deactivate the following transport functions: Loop Active, 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 tells you what each button and button combination does and how they behave.

Key Combination	Description
[Loop Active]	Switch the loop/cycle between the Left and Right loop points on/off
[Rewind]	Rewinds in steps of 1 bar. Press and hold for fast rewind
[Forward]	Forward in steps of 1 bar. Press and hold for fast forward
[Stop]	Stop playback
[Play]	Activate play
[Record]	Activate record
[Shift]+[Cycle]	Goto Left 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)	Switch record mode Replace on/off

Studio One Mixer Control

To control the Studio One's mixer, press the [Mixer] button (default). The button's LED is illuminated while the mode is selected and the Studio One mixer is controlled. Press [Mixer] at any time to go back to the Mixer track list view.

In the T4 display, channel names for the current bank of 8 channels are listed and the currently selected track is reversed.

Open/Close the Studio One Mixer Window

Press [Mixer] to open/close the Studio One mixer window. Panorama continues to control the mixer parameters even when the mixer in Studio One is not in view.

Channel Volume & Pan

With mixer mode active, moving faders 1-8 will control the first 8 mixer channels in the Studio One mixer. For each of the 8 channels, the track name is listed in the display and volume changes are displayed as you move a fader.

- Fader 9 controls the channel corresponding to the currently selected track so as you change tracks, you can quickly change volume while you are working.
- The 8 encoders control pan for each of the corresponding channels. Press the display button labeled [Pan] to view current status for each of the 8 channels. Press the [Mixer] button to go back to the track listing.

Channel Sends

Pressing the display button labeled [Sends] assigns the encoders 1-8 to control up to 8 active sends for the currently selected channel. The send destination label is displayed for each active encoder. If there are no sends to control, you'll need to set them up first in Studio One.

Press [Mixer], [Pan] or [Macro] to exit.

Macro

The display button labelled [Macro] assigns the 8 encoders to control Studio One's Channel Macro's 1-8 for the currently selected channel.

If parameters are already assigned to a macro, the name will be displayed for each encoder.

- To assign a parameter to a macro in Studio One, right click on the parameter.
- In the popup menu, select "Connect 'parameter name' to Channel Macro" and move the mouse to the right.
- Select one of knob 1-8.

The assigned parameter is now displayed in the Panorama T4/T6 display.

Press [Mixer], [Pan] or [Sends] to exit.

Write

The 4th display button is labeled [Write] and activates the Studio One write automation mode for the selected channel/track. [Write] toggles Studio One automation mode between "Latch" and "Read". Hold [Shift] and press [Write] to set automation OFF. With "Latch" active, controller movements are recorded during playback.

Mute & Solo

Fader buttons 1-8 control mute for each of the tracks the faders are assigned to control. If a track is muted, the corresponding LED is illuminated. Press the button to un-mute.

To solo tracks, press and hold fader button 9 while pressing fader buttons 1-8. Deactivate solo by pressing the corresponding LED button while holding fader button 9.

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 button also labeled Track-). The faders, encoders 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].

Zoom

Press [Shift]+[Zoom>] (the button also labeled View) to horizontally zoom in on Studio One's arrangement page, edit page and other pages that can be zoomed. Press [Shift]+[<Zoom] to horizontally zoom back out.

Master Volume

You can control the Master Volume fader of the Studio One 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.

Click -> Control Parameter

Encoder [E1/Data] can control and automate Studio One parameters in the window currently in focus. The selected parameter is seen in the top left display above the Arranger. Clicking the downward arrow ("recent parameters") presents two options:

- Recently Touched - Clicking a parameter in the mix console or floating window selects it for automation
- Mouse Over - Hovering over a parameter in the mix console or floating window selects it for automation. (Studio One plugins only).

To control the selected parameter using [E1/Data]:

1. Press the [Setup/Menu] button. The first display button now reads [E1 Auto]. Press once to activate.
2. Click with the mouse on a parameter in Studio One.
3. Move [E1/Data] and you should now be controlling the selected parameter.
4. Repeat steps 2 and 3 to control any other parameter in the current window.
5. [E1 Auto] remains active until you deselect the button again.

When done, press [Setup/Menu] to return to the Mixer/Instrument menus.

Soft Take-Over

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

To avoid parameter jumping your Panorama T4/T6 is equipped with Soft Take-Over. Therefore, 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.

Soft-Take-Over can be switched on or off by pressing [Shift]+[fader button 9].

Open the Instrument Window

Select a track hosting an instrument and press the [Instrument] button on T4/T6 to open the instrument editor with the selected track's instrument in focus (you can only control a plugin if its window is in focus).

Pressing the [View] button closes the instrument editor and all floating windows. Press again to reopen.

Note: You select the active control surface in the top right corner of the instrument window's header bar. It is indicated yellow, when in focus (clicking on the label "Panorama T-series" allows you to activate/toggle focus).

Controlling Studio One's Included Instruments

In Instrument mode, Panorama T4/T6 will automatically map parameters for the Studio One instrument associated with the track you are currently on. There are no parameters to control if no instrument is present.

Start by inserting a plugin on a track in Studio One such as Mojito. Your Panorama T4/T6 maps the instruments parameters and assignments are visible in the display.

- At the very top of the display any current controller activity is displayed.
- In the box below is the track name.
- Parameter assignments for the 8 encoders are displayed in the main part of the display. Moving a control will update the top of the display.
- The faders are typically assigned to control envelopes. Press fader button 9 to view their assignments and press one more time to view the encoder assignments again.

Learn Plugin Parameters to Panorama T4/T6 Controls

Mapping can be created for any VST/VST3/AU or Studio One plugin, using Studio One's parameter learn feature.

- In Studio One, make sure the instrument window is open and the correct instrument tab is selected.
- Make sure Panorama T-Series is the selected control surface (it should be by default). Press [Instrument] on T4/T6.
- Move one of the rotary controls on Panorama T4/T6.
- In Studio One, move the parameter of the instrument you want mapped to the control you moved.
- On Panorama T4/T6, press [Setup/Menu]. The display labels provide new options.
- Press the display button labelled [Learn]. The parameter is now assigned to Panorama T4/T6's control and the display updated accordingly.

Repeat the steps above until you are done. Mapped parameters are automatically recalled every time a mapped plugin is in focus. Insert plugins can also be mapped and controlled when they are in focus, using the same method. If you are looking for advanced control and browsing of VST2/VST3/AU plugins, use Nektarine as described on page 7.

Note: Press [Learn] and move an assigned control on T4/T6 to clear it. You can now make a new assignment.

Changing Patches

The 3rd and 4th display buttons are assigned to change patches. This works only if the hosted plugin is set up for this operation or patches are saved in Studio One's browser. Change instrument patch by pressing [Patch>] to go to the next patch or [<Patch] to go to the previous patch.

Note: The two Patch buttons only work if a plugin is hosted directly on the track. If you create instruments in the VST rack, the patch buttons do not work.

Nektarine Setup, Control & Navigation

Nektarine is a Nektar plugin that allows extensive control of VST, VST3 and AU instrument plugins. It also features a browser so you can find sounds from your Panorama T4/T6 without using the mouse. It works great alongside the MCU DAW control and can be used in many VST/AU hosts which means you get the same control and browsing experience of your instrument plugins regardless of which DAW you use.

Getting Up and Running

1. If you haven't downloaded and installed Nektarine already, start by logging in to www.nektartech.com and download it from the 'My Account' tab.
2. Once installed, make sure Nektarine is scanned in Studio One. In Windows the install path is: C:\Program Files\Steinberg\VSTPlugins.
3. Create an instrument track in Studio One and select Nektarine as the hosted plugin.
4. Open Nektarine and learn more about how to set it up, from the [link](#) in the Nektarine 'Help' tab.

You'll need to at least complete plugin scanning in the Settings tab.

First Steps with Panorama T4/T6 & Nektarine

When Nektarine is running, you'll be able to control plugins using the [Instrument] and [Multi] buttons. With your DAW's mixer still controllable via the [Mixer] button, there is a lot of control at your fingertips. For a smooth experience, here are the main points to be aware of:

- Launch the Nektarine Stand-alone application or create an instrument track hosting Nektarine in Reason. Panorama can immediately control any instrument plugin you load in Nektarine.
- A total of 16 instrument plugins, 4 insert effect plugins per Instrument plus another 4 send effects can be loaded in each instance of Nektarine.
- You can toggle multiple instances of Nektarine (i.e. if you have many tracks running Nektarine) by pressing [Shift]+[Instrument]
- If you want to control the Nektarine instance hosted on the track you are currently on, press [Shift] and hold while playing a note on the keyboard. Note that this does not work if your project/song is playing so make sure stop playback first.
- You can also activate any instance in the Nektarine GUI by clicking on the colored (usually yellow) instance indicator in the top right corner of Nektarine.

Control & Page Navigation

The control page displayed when [Instrument] is first pressed, is the Instrument Home page. You can get back to it any time by pressing [Instrument]. The home page contains assignments for the most commonly used parameters.

- The faders are for the most part assigned to control envelopes. Press the 9th fader button to toggle the encoder/faders display view.
- If the LED buttons are illuminated, it means that a control page can be selected when the button is pressed. As the buttons are pressed the display updates to show page names and assignments.
- You can also navigate all pages by pressing the [Menu/Setup] button. Move the [E1/Data] encoder to scroll through the list of pages that appeared on the display, and press the display button labeled [Enter] to select.
- If you navigate to another mode, such as [Mixer], when you press [Instrument] again, the last selected control page is displayed. Press [Instrument] again to select the Home page.
- In many cases subpages are used to provide more pages within a section. A synth's oscillator may have more parameters than 8 in which case 2 subpages would be used. A single display button can then be set up to toggle between them or dedicated display buttons can be assigned to select each of the two pages. Read more on the [Nektarine Help page](#) about page mapping and navigation.

Parameter Learn

An easy way to quickly change Nektarine control assignments, is to use it's 'Learn' function. At a minimum you may for example want to customize the Home page for a plugin so the parameters you need are always right there. Or you may want to assign LED buttons to select a control page.

1. Activate Nektarine "Learn' by pressing [Shift]+[Setup/Menu] at the same time. In the right display label, 'Learn' should now flash to show it's active.
2. In Nektarine, make sure the hosted instrument plugin GUI is visible and move the parameter you'd like to control.
3. Move the control you want the parameter assigned to on Panorama T4/T6. That's it, the assignment is complete.

Keep repeating steps 2 and 3 to assign parameters to more controls and change pages as needed.

Press the [Setup/Menu] button while 'Learn' is active to expose more options:

- Clear One:** Select and press the display button labelled [Enter]. Then move the control you want to clear an assignment for.
- Clear All:** Select and press the display button labelled [Enter] to clear all assignments in the current page.
- Direct Page Access:** Select and press the display button labelled [Enter]. Then press the LED button that should be assigned to select the currently selected control page.
- Save:** Save the map file with all your changes. You can also save from Nektarine's Edit page.

Saved user map files can be found in Documents\Nektar\Nektarine\Mapping Files\Instruments. Deleting a user map file will restore the default factory mapping.

Browse

The Nektarine browser can be operated from Panorama T4/T6 enabling the selection and loading of patches without using the mouse. As long as Nektarine has scanned and found plugins on your system, at least one patch for each plugin will be available in the browser. You can save or import more patches to expand your library of sounds accessible from T4/T6.

Here is how you access the browser from Panorama T4/T6:

1. Select an instance of Nektarine for control.
2. On Panorama T4/T6, press the [Browse] button. The display now updates to show a list of patches (see image to the right).
3. Move [E1/Data] to scroll through the list. The select indicator on the left of the display will move through the list.
4. Press the display button labelled [Load] to load the selected patch. The Loaded patch appears with a dark background.



Three display buttons allow access to:

- [Patch]:** Patch browsing. This is the default selection and described above.
- [Multi]:** MultiPatch browsing. A MultiPatch contains all settings including all plugins and Nektarine parameters. You'll be able to load MultiPatches directly from Panorama T4/T6 using the method described above, once you have created and saved them in [Nektarine](#).
- [Tags]:** Select up to 7 Tags from Panorama T4/T6 to narrow your select options. See next page for details.

To exit browse, press the [Browse] button again or press one of the mode buttons.

Browser Tags

As the library of patches expands in the Nektarine browser it quickly becomes essential to be able to narrow the options. Tags can be selected in Nektarine's GUI but also from Panorama T4/T6.

1. Press the display button labelled [Tags] to view the tags page on Panorama T4/T6. The display now shows a page with active tags, if any are selected.
2. E1 is by default assigned to select 'Plugin'. Rotate E1 to select a plugin. To confirm the selection, press the display button labelled [Select].
3. Tags can be set by using the 8 encoders. Press and hold the display button labelled [Type] and move an encoder (E2 for example).
4. Select 'Category' and release the button.
5. Move the same encoder again. This time it will scroll through available Categories.
6. With a 'Category' displayed, press the display button labelled [Select].
7. Press the [Patch] button to go back to the patch list. It has now updated to only show patches for the plugin and category you selected in the tags page.

You can select up to 7 tags directly from Panorama T4/T6 using encoders 1-7. The 8th encoder is permanently assigned to Group Tags which is like a preset of tags that you can create for instant access. Read more about Tags and Group Tags on the [Nektarine Help page](#).

To exit, press [Browse].

Multi-Mode

Nektarine can host up to 16 plugins for layering and mixing of sounds. The first plugin you load in an instance of Nektarine is inserted in slot 1. More slots can be created from Panorama T4/T6 and the browser can be used to find different sounds for each slot.

1. Press the [Multi] button. You may have to press it twice before it's active. The display now shows a list of slots with either a plugin or patch name for each plugin loaded.
2. Press the display button labelled [Add SlT]. This creates a new slot. You can create up to 16 layered slots and set Key and Velocity range for each slot. Keyboard Zones are described in the Nektarine guide [here](#).
3. Press the [Browse] button and select a patch as described in the Browse section. Press [Browse], [Multi] or [Instrument] again to exit.



You can add up to 16 slots by repeating the above steps. While [Multi] is active, the controls are assigned to dedicated Multi-mode operations.

- Faders 1-8 control volume for each of the 8 slots.
- Encoders 1-8 control pan for each of the 8 slots.
- Fader button 9 toggles the operation options for the LED buttons: Solo/Mute/Select.
- Display button 4 [FX1-4] allows selection and control of effects plugins. See next section for details.
- Press [Instrument] to control the parameters of the currently selected slot

Removing slots can be done in the Nektarine GUI. Read more about Nektarine's Plugin View on the [Nektarine Help page](#).

FXs Control

Effect plugins can be loaded directly from Panorama T4/T6 by selecting any of the 4 insert slot that the current instrument routes to or any of the 4 global send effects.

Effect plugins are controlled via Multi-mode which enables you to switch between control of an instrument plugin and an effect plug by alternately pressing [Instrument] and [Multi].

1. Press [Multi] followed by [FX 1-4 (Display button 4)] to select.
2. [Insert] is selected by default. If you prefer to select/control a send effect, press [Sends]
3. Move [E1/Data] to scroll through the effect slots. Three slots are visible so press [Setup/Menu] to toggle between inserters 1-3 and 2-4.
4. Press [Select] to select the insert slot. If a plugin is already inserted, it's now mapped for control by the 8 encoders. Control mapping works the same way as it does for instrument plugins which means you can customize mapping using the same tools.
5. If an effect plugin is not inserted, the insert slot is now selected. Press [Browse] and load a plugin as described in the Browse section.
6. When a plugin has been loaded, press [Browse] or [Multi] to control it.
7. To insert an effect in another slot, press [Multi] to exit the control page and repeat steps 3-6.

