



T4 T6



Using Panorama T4/T6 With Reaper

nektar

www.nektartech.com

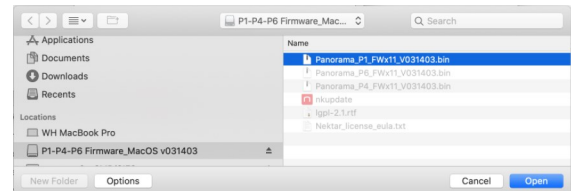
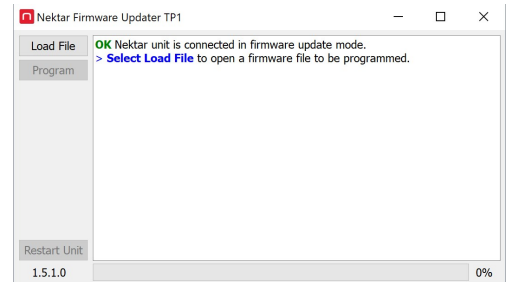
Reaper Integration Setup and Configuration

The Panorama T4/T6 Reaper Integration has been verified with Reaper 4.59 or later. The following instructions assumes you have a compatible version installed running on either Windows (Vista, 7, 8, 10 or higher) or Mac OS X (10.7 or higher).

Here are the steps you need to go through to get Reaper up and running with your Panorama T4/T6:

Panorama T4/T6 Firmware Update

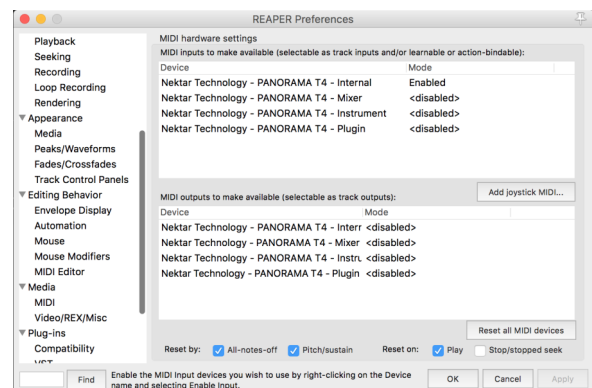
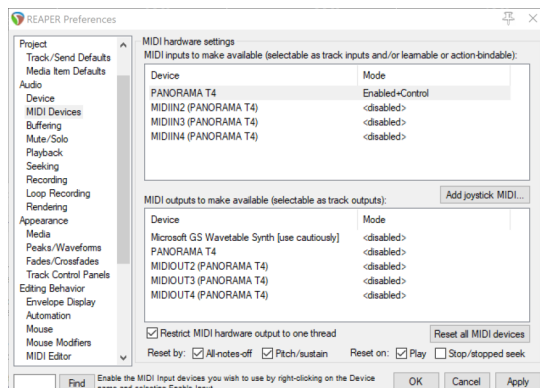
1. Connect Panorama T4/T6 to your computer via USB.
2. With Panorama T4/T6 switched off, press and hold [fader button 9]+[Shift] while switching the unit on. The two buttons are next to each other and the display will be white when the unit is on.
3. Locate the dmg file named “T4-T6_Firmware” in the 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 Reaper Integration Setup

1. Make sure Reaper is already installed on your computer. If not, please install Reaper first and open Reaper at least once, before running the installer for Nektar DAW integration software.
2. Locate the Panorama_T4_T6_Reaper_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 Reaper and go to Options—Preferences—Control/OSC/web (called Control Surfaces in earlier versions).
5. Click “Add”, then in the pop-up window, select your Panorama T4/T6 model in the “Control surface mode” list. As long as your Panorama T4/T6 is connected and switched on, Reaper should automatically detect the correct ports.
6. Go to Preferences/Audio/MIDI Devices next and enable the port labelled “Panorama T4 (T6)” in Windows and Panorama T4 (T6) - Internal” in OSX. The mode should be “Enable+Control”. The other Panorama ports should remain disabled. See the images below.
7. Click “Apply” and OK
8. Download and install the Nektarine plugin from the ‘My Account’ tab on our website, if you’d like to use Nektarine alongside the Nektar Reaper integration.

That’s it, setup is now complete.



Reaper and Panorama T4/T6 Working Together

The following pages focus on how Reaper and Panorama T4/T6 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 Reaper's extensive documentation to remind yourself, how Reaper's functions work.

Track Changes

To navigate Reaper's tracks from Panorama T4/T6, 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 tells 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 locators 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 locator
[Shift]+[Rewind]	Set Left locator to the current song position
[Shift]+[Forward]	Set Right locator 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 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. 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.

Soft-Take-Over can be switched on or off by pressing [Shift]+[fader button 9] or you can temporarily override it by holding [Shift] when moving a fader.

Reaper Mixer Control

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

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

Open/Close the Reaper Mixer Window

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

Channel Volume & Pan

With mixer mode active, moving faders 1-8 will control the first 8 mixer channels in the Reaper 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 Reaper.

Press [Mixer] or [Pan] to exit.

Write

The 4th display button is labeled [Write] and activates the Reaper latch automation mode.

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 Reaper'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 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.

Nektarine Setup and First Steps

Nektarine is a Nektar plugin that allows extensive control of VST, VST3 and AU instrument plugins from Panorama T4/T6 and can be hosted in any DAW as a AAX, VST, VST3 or AU plugin. A standalone version in addition allow you to play plugins from your T4/T6 without a DAW.

Nektarine includes the following features:

- Load up to 16 instrument plugins with individual key ranges for split and layering adjustable for each plugin.
- Load up to 4 insert effect plugins in each of the 16 instrument channel.
- Switching between keyboard and pad profiles allow a Nektarine instance to be used for either keyboard or pad playing.
- When the pad profile is selected, the 8 T4/T6 pads are programmed from Nektarine in two banks for access to 16 pads.
- All settings including pad setups are stored either as part of a DAW song/project or a Nektarine Multipatch.
- DP-1 drum player instrument and over 500 drum sounds are included with over 40 preset kits.

Nektarine also features a browser so you can find sounds from your Panorama T4/T6 including audio drum samples, 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

The Nektarine installation instructions can be found in the online Nektarine manual: [1.3 Installation and setup](#)

Once installation is complete, learn how Nektarine can be operated from Panorama T4/T6 in this guide.

First Steps with Panorama T4/T6 & Nektarine

Nektarine runs as a plugin extension of your DAW. You'll be able to control plugins using the [Instrument] and [Multi] buttons as well as program the pads and play DP-1 factory drum sounds with the pads profile. 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 your DAW will enable advanced control of any instrument plugin you load in Nektarine.
- With Nektar DAW integration running alongside Nektarine, the DAW integration is automatically detecting when Nektarine is present and activating control for it.
- 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. For more info, see [1.5 Instance Status Indicator](#) in the online Nektarine manual.

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 an illuminated 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 in the online Nektarine manual chapter [6. Control Mapping](#)

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.

Nektarine Pads Profile

The Pads profile handles MIDI differently from the Keys profile which is why the pads view is not visible when the Keys profile is selected.

To toggle between the Keys and Pads profile, press [Shift]+[Instrument] on Panorama T4/T6.

When the pads profile is selected, the pads on Panorama T4/T6 are red as a visual cue. If the the 'DP-1_Factory_Soundbank' has been imported in Nektarine, it's now possible to load the Multipatch kits either from the Nektarine software or from the Browser menu on Panorama T4/T6.

Pad Setup

The pads on Panorama T4/T6 can be programmed and configured in the Nektarine Pads View, as described in the online Nektarine manual section [4. Pads](#).

The only parameter that's not applicable to Panorama T4/T6 is the pressure parameter. All pad settings are stored with your DAW song/project or can be stored in a Multipatch.

Pad Bank 1-8, 9-16

The pads profile's pads 16 pads can all be played from Panorama T4/T6 but of course only 1 bank at a time.

Activate the [Pad Bank] button to play pads 9-16 and deactivate [Pad Bank] to play pads 1-8.

Controlling Plugin/DP-1 Parameters

Control of instrument plugin parameters works the same way as when the Keyboard profile is active but the workflow has been optimized for pads.

Press [Instrument] to activate control. If you have loaded one of the 'DP-1_Factory_Soundbank' multipatch kits, every pad will play a DP-1 with a unique sound. DP-1 parameters can immediately be controlled using the 8 encoders on Panorama T4/T6 and update as new pads are played.

Many drum machine plugins have been mapped for the same experience so striking a pad will select the correct control page with the parameters that correspond to the sound played.

To lock a pad's control page, disable the 'Select pad via MIDI' button in Nektarine's Pads View, as described in [4.14 Pad Lock and Omni Off buttons](#).

Multi-Mode

Nektarine can host up to 16 plugins for layering, splits and mixing of sounds. The first plugin you load in an instance of Nektarine is inserted in instrument channel 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 instrument channels with either a plugin or patch name for each plugin loaded.
2. Press the display button labelled [Add Slit]. This creates a instrument channel. You can create up to 16 layered instrument channels and set Key and Velocity range for each, when the Keys profile is selected*. Keyboard Zones are described in the online Nektarine manual section [2.4 Keyboard Zone Parameters](#).
3. Press the [Browse] button and select a patch as described in the Browse section. Press [Browse], [Multi] or [Instrument] again to exit.



*Adding instrument channels when the Pads profile is selected is best done via the Pads View in Nektarine because routing to pads cannot be done from Panorama T4/T6.

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.



The Nektarine browser can be operated from Panorama T4/T6, enabling the selection and loading of audio files, patches and multipatches. 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. Read more in the online Nektarine manual section [5. Nektarine Browser](#).

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. Press one of the display buttons to select Audio or Multipatch browser content instead.
4. Move [E1/Data] to scroll through the list. The select indicator on the left of the display will move through the list.
5. Press the display button labelled [Load] to load the selected patch. The Loaded patch appears in the list with a dark background.



*The display image has not yet been updated to account the addition of the Audio tab.

Four display buttons + [Setup/Menu] give access to:

- | | |
|----------------------|--|
| [Audio]: | Audio sample browsing is mainly used when the pads profile is active. See 5.5 Adding Audio Files in the online Nektarine manual. |
| [Patch]: | Selects Patch browsing. This is the default selection and described above. |
| [Multi]: | Selects Multipatch browsing. A MultiPatch contains all settings including all plugins and Nektarine parameters. |
| [Load]: | Press to load the current selection. |
| [Setup/Menu]: | Select up to 7 Tags from Panorama T4/T6 to narrow options. See the next page. |

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

Nektarine Browser Tags

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

1. Press the button labelled [Setup/Menu0 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.

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