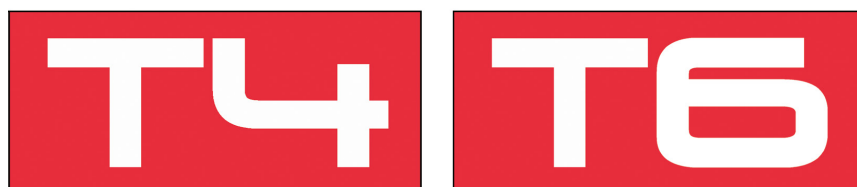


PANORAMA



User Guide

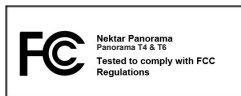
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Dispose of product securely, avoiding exposure to food sources and ground water. Only use the product in accordance with the instructions.

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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For more information: www.nektartech.com/prop65

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Introduction

Thank you for buying the Nektar Panorama T4 or T6 controller keyboard. As functionality is identical on both products, this guide applies equally to either model.

Panorama T4 & T6 are keyboard controllers with 49 and 61 notes that come with configuration software for many of the most popular DAWs. So the setup work has largely been done for supported DAWs, and you can focus on expanding your creative horizon with your new controller. The Nektar DAW Integration adds functionality that makes the user experience more transparent when you combine the power of your computer with Nektar Panorama T4/T6. In addition, Nektarine is included to give you more extensive control over instrument plugins. Nektarine can run with or without Nektar DAW integration installed, so even if we don't offer custom Nektar integration for your music application, you can still use Nektarine for control.

The Panorama T4/T6 range also allows for complete user configurable MIDI control. So if you prefer to create your own setups, you can do that too. We hope you will enjoy playing, using and being creative with Panorama T4/T6 as much as we have enjoyed creating it.

Box Content

Your Panorama T4/T6 box contains the following items:

- The Panorama T4/T6 Controller keyboard
- Printed Guide
- A standard USB cable
- Card containing license code for included software

If any of the items above are missing, please let us know via email: stuffmissing@nektartech.com

Panorama T4/T6 Features

- 49/61 note full-sized, semi-weighted velocity sensitive keyboard
- 8 velocity sensitive, LED (green/red/orange) illuminated pads
- 9 MIDI-assignable 30 mm faders
- 8 MIDI-assignable LED (red) illuminated buttons
- 8 MIDI-assignable encoders
- 4 navigation buttons with shift adding another 4 assignments
- 6 transport LED buttons
- Pitch Bend and Modulation Wheels (assignable)
- Octave up/down buttons
- Mixer, Instrument, Multi and Internal mode buttons
- Focus button displays current parameter line in large font
- 10 user configurable presets
- 8 pad map presets
- Pad Bank button to switch pad assignments 1-8 and 9-16
- 128 x 64 px custom LCD display
- MIDI out socket (MIDI cable not included)
- 1/4" jack socket for Foot Switch (optional)
- 1/4" TRS jack socket for Expression Pedal (optional)
- USB port (back) and USB bus powered
- Nektar DAW Integration (user registration required)
- Nektarine VSTi plugin library manager (user registration required)

Minimum System Requirements

Panorama T4/T6: USB class compliant (no driver needed) works with Windows XP, Vista, 7, 8, 10 or higher. Mac OS X 10.5 or higher, Linux (Ubuntu)

Nektar DAW Integration: Windows Vista, 7, 8, 10 or higher. Mac OS X 10.7 or higher. Check Nektar DAW Integration documentation or marketing information for support of legacy DAW versions.

Nektarine: Windows 7,8,10 or higher. Mac OS X 10.7 or higher.

Connection and Power

The Panorama T4/T6 is USB class compliant. This means there is no driver to install to get the keyboard set up with your computer. Panorama T4/T6 uses the built-in USB MIDI driver which is already part of your operating system on Windows and OS X.

The first steps are simple:

- Locate the included USB cable and plug one end into your computer and the other into the Panorama's USB socket on the rear panel.
- If you want to connect a foot switch to control sustain, plug it into the 1/4" jack socket on the back of the keyboard labeled "Foot Switch" or "FS". Panorama T4/T6 will automatically detect the polarity of the foot switch.
- Set the power switch on the back of the unit to On

Your computer will now spend a few moments identifying the Panorama T4/T6 and subsequently you will be able to set it up for your DAW.

Getting Access to Downloads

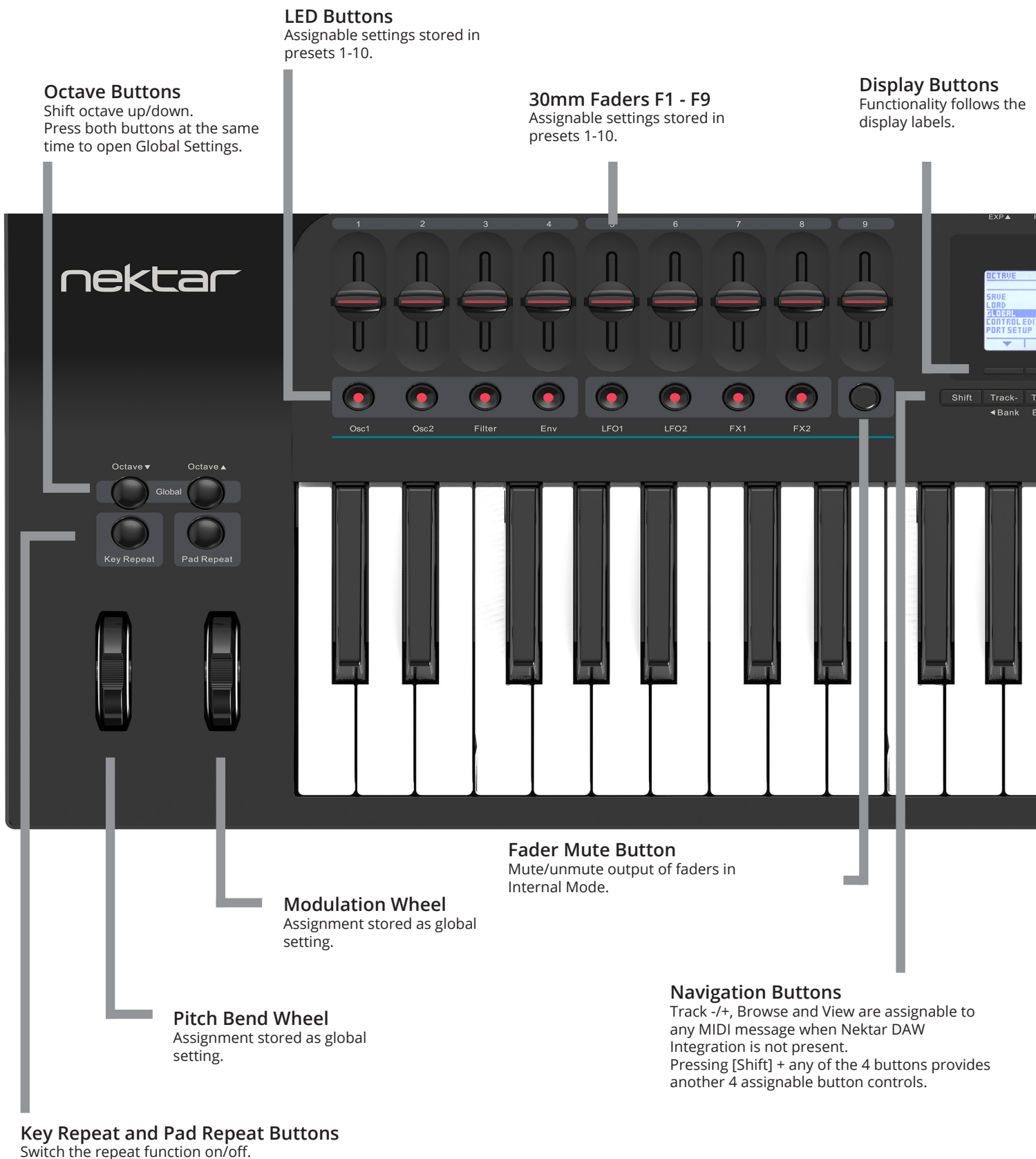
If your DAW is supported with Nektar DAW integration software or you want to run Nektarine, you'll need to first create a user account on our website and subsequently register your product to gain access to the downloadable files applicable to your product.

Start by creating a Nektar user account here: www.nektartech.com/registration

Next follow the instructions given to register your product and finally click on the "My Downloads" tab to access your files.

IMPORTANT: Make sure to read the installation instructions in the PDF guide, included in the downloaded package, to ensure you don't miss an important step.

Panorama T4/T6 Functional Overview



LED Buttons
Assignable settings stored in presets 1-10.

Octave Buttons
Shift octave up/down.
Press both buttons at the same time to open Global Settings.

30mm Faders F1 - F9
Assignable settings stored in presets 1-10.

Display Buttons
Functionality follows the display labels.

Octave ▼ Octave ▲
Global
Key Repeat Pad Repeat

Modulation Wheel
Assignment stored as global setting.

Fader Mute Button
Mute/unmute output of faders in Internal Mode.

Pitch Bend Wheel
Assignment stored as global setting.

Navigation Buttons
Track +/-, Browse and View are assignable to any MIDI message when Nektar DAW Integration is not present.
Pressing [Shift] + any of the 4 buttons provides another 4 assignable button controls.

Key Repeat and Pad Repeat Buttons
Switch the repeat function on/off.

Mode Buttons

Select presets when not used with Nektar DAW Integration.

E1/Data

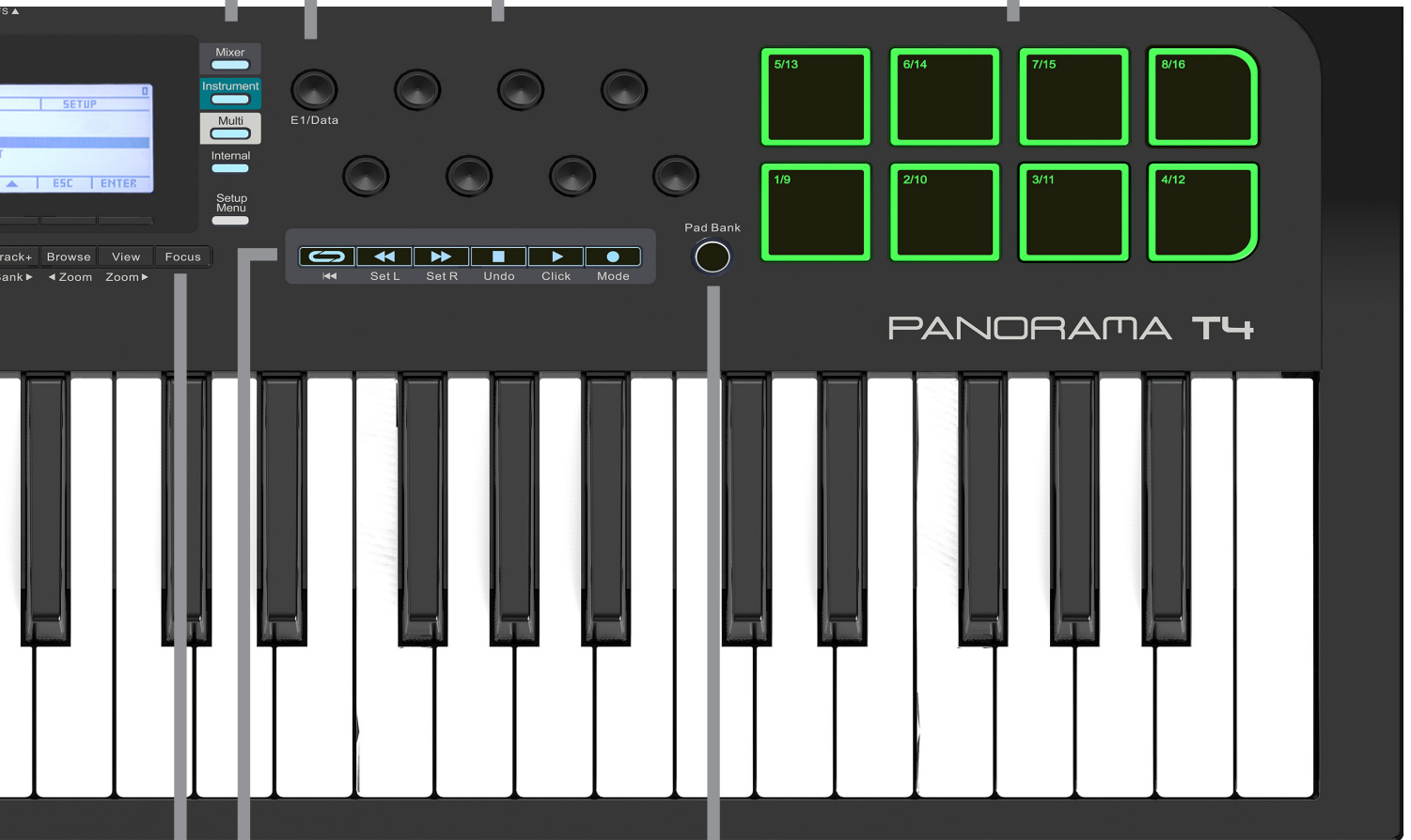
Data control when Setup/Menu is active.

Encoders E1 - E8

Assignable settings stored in presets 1-10.

Pads 1 - 8

Velocity and pressure sensitive. Assignable settings stored in Pad Maps 1-8.



Transport Buttons

Assigned by default to MMC if Nektar DAW Integration is not present. Assignments stored as global settings.

Pad Banks

Switch the pads between two assignment banks, giving access to 16 pad settings per Pad Map.

Focus Button

Displays the current parameter line in large font, at the center of the display.

Keyboard, Wheels, Octave & Repeat

Keyboard and AfterTouch

The Panorama T4/T6 keyboard is velocity sensitive and has an AfterTouch strip so you can play the instrument expressively for the duration a note is played. There are 4 different velocity curves to choose from, each with varying dynamics. In addition, there are 3 fixed velocity settings.

AfterTouch (AT) enables control of instrument parameters by pressing a key. A Global setting for AfterTouch ramp allows you to set a higher value, so AfterTouch doesn't affect the sound until after the notes have been triggered. If you don't want the keyboard to continuously send AfterTouch messages, you can set the Message Type to 'Off' in the Control Edit menu (page 20).

We recommend you spend a little time playing with the default velocity curve first and then determine if you need more or less sensitivity. Global settings for velocity curves and AfterTouch are covered on page 10.

Pitch bend and Modulation Wheels

The Pitch bend and Modulation wheels are intended for performance articulation.

The Pitch bend wheel is spring-loaded and automatically reverts to its center position upon release. It's ideal to bend notes when you are playing phrases that require this kind of articulation. The bend range is determined by the receiving instrument.

The Modulation wheel can be freely positioned and is programmed to control modulation by default.

Both the Pitch bend and the Modulation wheel are MIDI-assignable with settings stored over power cycling so you don't lose them when you switch the unit off. Pitch bend and Modulation assignments are not part of the Panorama T4/T6 presets. Control message assignments are changed in the Control Edit menu as described on page 21.

Key Repeat & Pad Repeat Buttons

Panorama T4/T6 has a built-in note repeat function that can be used independently for either the pads or the keyboard.

The two buttons labeled [Key Repeat] and [Pad Repeat] switch the repeat function on/off and are conveniently located above the wheels.

The repetitive note behavior can be adjusted independently as well. Go to page 19 to read about how to adjust the Repeat parameters.

Octave Shift

The Octave shift buttons are located above the two repeat buttons.

- With each press the left Octave button will shift the keyboard down one octave.
- The right Octave button will similarly shift the keyboard up 1 octave at a time, when pressed.

The maximum you can shift the T4 keyboard is 3 octaves down and 4 octaves up. The T6 can be shifted 3 octaves up and 3 octaves down. This covers the entire MIDI keyboard range of 127 notes.

Accessing Global Settings Using the Octave Buttons

Pressing the [Octave-] + [Octave+] buttons simultaneously opens the Global Settings page. It's a shortcut to a page that gives you instant access to changing transpose, sending Bank and Program messages, selecting different velocity curves and more.

Go to page 10 to read more about the Global menu.

Rear Panel Connectors

MIDI Out

The MIDI out connector can be used to:

- Send MIDI data externally to MIDI receiving devices directly from the keyboard and its controls.
- As a USB MIDI Out interface where MIDI data is sent from your DAW or MIDI software to the MIDI Out.

To change the behavior of the MIDI Out, go to the Global menu and change the setting as described on page 10.

Foot Switch Socket

You can connect a foot switch pedal (optional, not included) to the 1/4" jack socket on the back of the Panorama T4/T6 keyboard. The correct polarity is automatically detected on boot-up, so if you plug in your foot switch after boot-up is complete, you may experience the foot switch working in reverse. To correct that, do the following:

- Switch the Panorama T4/T6 off
- Make sure your foot switch is connected
- Switch the Panorama T4/T6 on

The polarity of the foot switch should now be automatically detected.

Expression Pedal Socket

Panorama T4/T6 works with any standard expression pedal featuring a 1/4" TRS jack such as Roland EV5, M-audio EXP and of course our own N-XP pedal.

Connect the pedal to the socket on the rear of Panorama T4/T6. By default, the socket transmits MIDI cc 11 Expression, but you can change the assignment in the Control Edit menu as described on page 21.

Assignments are stored and retained over power cycling.

Global Settings

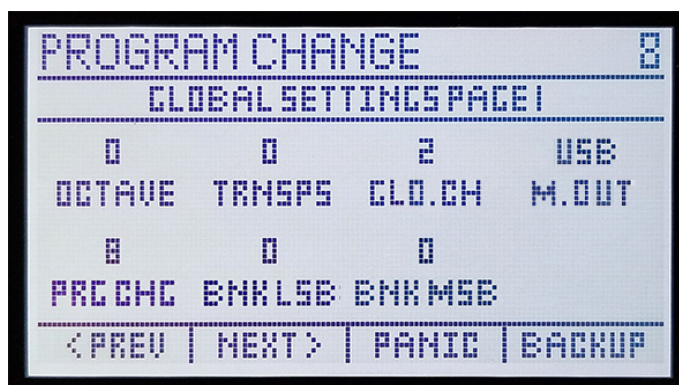
The Global Settings menu is used to configure Panorama T4/T6 to suit your workflow and playing style. It also contains functions that may be useful as you perform.

There are two ways you can access this menu:

- Press the two Octave buttons at the same time [Octave Down]+[Octave Up]
- Press the [Menu] button and select "Global" from the list using E1/Data. Press the display button labeled "Enter" to confirm.

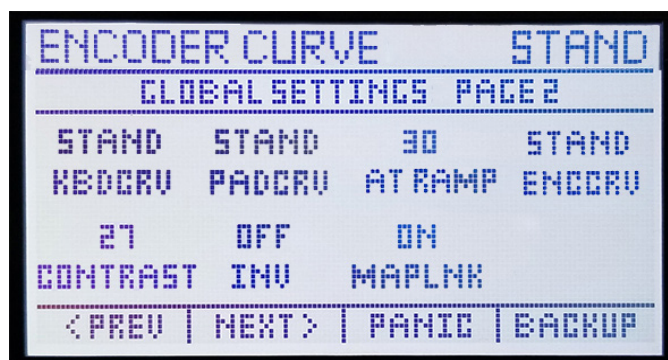
With the Global menu selected, the encoders E1-E8 can be used to adjust the functions listed on each page. To navigate between pages press the [Prev] and [Next] display buttons.

Page 1 - Octave, Transpose, Global MIDI Channel, MIDI Out and Program/Bank



Control	Function	Value Options	Description
E1	Octave	-3/+4 (T6: -3/+3)	Change the current Octave setting.
E2	Transpose	-/+ 12 semitones	The selected semitone shift affects the keyboard only.
E3	Global Channel	MIDI Channel 1-16	This is the channel the keyboard sends MIDI notes on. Typically pads will also send on the global MIDI channel unless they are assigned to a specific MIDI channel.
E4	MIDI Output	Internal, USB	Select Internal to send MIDI data directly from T4/T6 to the MIDI out. Select USB to use the MIDI output as a USB MIDI interface.
E5	Program	0-127	Sends MIDI Program change messages as the value is changed.
E6	B LSB	0-127	Sends MIDI Bank LSB change messages as the value is changed.
E7	B MSB	0-127	Sends MIDI Bank MSB change messages as the value is changed.
E8			

Page 2 - Keyboard, Pad and Encoder Curves, Display, MapLink and Backup



Global Settings

Control	Function	Options	Description
E1	Keyboard Velocity Curve	Soft 2, Soft 21, Standard, Hard 1, Hard 2, Fixed	The Soft 1+2 curves emphasize the lower velocity values. Standard is the default and Hard 1+2 makes it easier to reach the higher velocity values. If you select Fixed, the default velocity value is 127, but you can program a control such as a fader or encoder to set the value dynamically in Internal mode.
E2	Pad Curve	Linear, Soft, Standard, Hard, Fixed	The Soft curve emphasizes the lower velocity values. Standard is the default and Hard makes it easier to reach the higher velocity values. If you select Fixed, the default velocity value is 127, but you can program a control such as a fader or encoder to set the value dynamically in Internal mode.
E3	Aftertouch Attack	0-100	
E4	Encoder Curve	Linear Step, Slow, Standard, Fast	
E5	Contrast	20 - 40 (30 default)	Sets the white/dark balance of the display.
E6	Inverse	On/Off	Off by default, activating inverse will make white pixels dark and dark pixels white.
E7	MapLink	On/Off	When Maplink is on, Pad Maps 1-8 will load with Presets 1-8. Loading presets 9 and 10 will load Pad Maps 1 and 2 respectively.
E8			

Page 3 - Pad Setup

The Pad Setup page allows the trigger threshold to be adjusted for each of the 8 pads, using the 8 encoders. The lower the value, the easier the pads will trigger. Be aware that too low a setting can result in crosstalk and false triggering of pads. Make sure to test your setting changes thoroughly.

If a pad's LED is illuminated red continuously or it triggers when other pads are played, raise the threshold for the respective pad until the undesired behavior stops.

Panic

Pressing this button sends out the all-notes-off message plus reset all control MIDI messages, on all 16 MIDI channels.

Backup

The Backup function can back up your current controller assignment settings including the 10 user presets and 8 pad maps by sending out MIDI sysex data. The data can be recorded in your DAW or any other application capable of recording sysex data and replayed/sent back to your Panorama T4/T6 keyboard when you want to reload your settings.

First start recording in your DAW or MIDI data capture application. Then press the display button labeled [Backup] to start transmitting the data.

Restoring a backup:

A memory dump/backup MIDI sysex file can be sent to the Panorama T4/T6 at any time, while the unit is powered on, in order to restore a backup. Make sure the Panorama T4/T6 is the output destination of the MIDI track containing the backup data.

Once the data transmission has been completed, the backup has been restored.

Controlling a DAW, Plugin Instrument or MIDI Device

Panorama T4/T6 has incredible flexibility when it comes to controlling a DAW, plugins, other MIDI software or hardware. There are 3 main approaches to set up Panorama T4/T6's controls, though it's not uncommon to use a combination of all three approaches:

1. Install the Panorama DAW integration files for use with an existing DAW (must be on our list of supported DAWs).
2. Install Nektarine to allow control of instrument plugins in any DAW hosting VST, AU or AAX plugins.
3. Use Panorama T4/T6's control and MIDI programming options to control MIDI software or hardware.

To download either Nektar DAW Integration files or Nektarine, you'll need to follow the process described on page 5 - "Getting Access to Downloads".

To learn more about MIDI programming options, go to page 14.

What is Nektar DAW Integration?

Panorama T4/T6 can control many of the most popular DAW software applications with functionality that makes it easier to record, perform and create music. "Nektar DAW Integration" is what we call the files that make all of this possible, they link the functionality of the Nektar hardware with that of the supported DAW.

The package contains a PDF-guide that tells you how to set Panorama T4/T6 up with your DAW. The PDF-guide also tells you in more detail how Nektar DAW Integration works with your DAW, however here is a general outline of what you can expect:

- The two mode buttons labeled [Mixer] and [Instrument] switch control between your DAW's Mixer and Instrument plugins.
- The [Multi] mode button is used for Nektarine, so it only works if Nektarine is loaded.
- Change track using the [Track-] and [Track+] buttons and use [View] to open close the window in your DAW that relates to the currently selected mode.
- Transport buttons directly control your DAW's Cycle/Loop, Rewind, Forward, Stop, Play and Record functions.
- Press and hold the [Shift] button while pressing one of the 6 transport buttons, to get access to their secondary functions: Goto L Locator, Set L Locator, Set R Locator, Undo, Click and Mode.
- In Mixer mode, Faders 1-8 are assigned to control volume for 8 mixer channels.
- Fader 9 controls volume for current track or Master volume.
- Press [Shift]+[Track +/-] to change the current bank of 8 mixer channels.
- In Instrument mode, Faders 1-8 typically control amp and filter envelope parameters Attack, Decay, Sustain, Release.
- Fader 9 now controls instrument volume.
- In Mixer mode, Encoders are assigned to control Pan for the currently controlled 8 mixer channels.
- In Instrument mode, Encoders E1-8 control parameters in one of two pages.

What is Nektarine

Nektarine is a Nektar developed VST/AU plugin that allows expanded control of your plugin instruments with the Panorama T4/T6. This approach has some clear work-flow benefits that we believe far outweigh potential disadvantages. You can read more about how Nektarine works in detail, once you have downloaded the installer package as described on page 5 in the section "Getting Access to Downloads". Here is a general overview detailing what you can expect from Nektarine:

Nektarine - The Benefits

- Compatible with any DAW that can load VSTi or AU plugins.
- Once setup, Nektarine allows you to play and control any VST 2.4, VST3 or AU plugin, even if your DAW is not able to host one of these plugin formats directly.
- Most popular plugins are already pre-mapped for control - so you don't have to.
- Mapping can be customized or created from scratch for any plugin. Expand the map, change parameter names, add pages etc.
- Use 'Learn' to quickly reassign controls as you work.
- Nektarine's browser loads plugin patches and enables you to quickly find the sounds you need.
- Navigate the Nektarine browser from your Panorama T4/T6.
- Using Nektarine, moving from DAW to DAW is easier. Browsing for your sounds always works the same way.
- Works alongside Nektar DAW Integration to expand the power of your Panorama T4/T6.

Nektarine - The Obstacles

- Some initial setup is required to get the best out of Nektarine
- Nektarine needs to be part of your work-flow. Otherwise it probably won't work well for you. We suggest you set up your default song with dedicated Nektarine tracks.
- Legacy projects/songs require setup to work with Nektarine.



Internal Mode Controls & Assignments

Internal mode can be used alongside Nektar DAW Integration and Nektarine. Press the [Internal] button to make sure the mode is selected (this is the default mode on power-up). In Internal mode, controls can be assigned to MIDI messages and Preset and Pad Maps can be configured, saved and loaded. There is also a collection of performance controls that are stored outside of Presets and Pad Maps.

Performance Controls

Performance controls are used for real-time performance manipulation, navigation and transport. Assignments are stored over power cycling but they are not part of a stored Preset or Pad Map.

Performance controls include:

- Pitch bend & Modulation wheels
- AfterTouch
- Foot Switch input
- Expression Pedal input
- Navigation buttons [Track-], [Track+], [Browse], [View]
- An additional 4 navigation button assignments can be accessed by pressing [Shift]+[one of the navigation buttons]
- 6 transport buttons

In total, 19 global control assignments are stored over power cycling.



As Presets or Pad Maps are loaded or adjusted, performance controls remain unchanged.

Presets

Panorama T4/T6 has 10 user configurable presets and each preset stores settings for the following controls:

- Faders (9)
- LED buttons (8)
- Encoders (8)

There are two options to load a preset:

- Press the [Setup] button and select 'Load' using [E1/Data]. Next press [Enter] and select the preset you want to load using [E1/Data]. Press [Enter] to load.
- Press and hold a mode button, such as [Internal] and select a preset using [E1/Data]. Release [Internal]. The preset is loaded instantly upon release.

See page 15 for more information about Mode buttons.

Below is a list of what each of the 10 presets are programmed to by default. Each can be programmed with your own MIDI settings which we will cover later.

Preset	Description	MIDI Channel	LED Buttons	Encoders MIDI CC type
1	Learn Friendly 1	Global	Toggle value 0 and 127	Absolute
2	Learn Friendly 2	Global	Toggle value 0 and 127	Relative
3	GM Instrument preset	Global	Send Program message 0-7	Absolute
4	GM Mixer ch 1-8	1-8	Toggle volume value 0 and 100	Absolute
5	GM Mixer ch 9-16	9-16	Toggle volume value 0 and 100	Absolute
6	Learn Friendly 3	14	Toggle value 0 and 127	Absolute
7	Learn Friendly 4	14	Toggle value 0 and 127	Absolute
8	Learn Friendly 5	15	Toggle value 0 and 127	Absolute
9	Learn Friendly 6	15	Toggle value 0 and 127	Absolute
10	Learn Friendly 7	16	Toggle value 0 and 127	Absolute

Presets 1, 2 and 3 are set up to transmit on the global MIDI channel. When you change the global MIDI channel in the Global Settings page, you therefore change the MIDI channel that these presets transmit on. With 16 MIDI channels available it means you can create 16 unique setups and just change the MIDI channel to switch between them.

Mode Buttons

The 4 mode buttons are positioned to the right of the display

When you first boot up your Panorama T4/T6, Internal is the default mode with preset 1 selected.

Each of the 4 mode buttons by default load a preset:

- Press [Mixer] to select preset 4 (GM Mixer ch1-8)
- Press [Instrument] to select preset 3 (GM instrument)
- Press [Multi] to select preset 2 (Learn friendly relative)
- Press [Internal] to select preset 1 (Learn friendly absolute)



To assign a different preset to each of the buttons, press and hold [Internal] and select a preset using [E1/Data]. Now release [Internal]. The preset is loaded instantly upon release.

When Panorama T4/T6 is used with Nektar DAW integration or Nektarine, the mode buttons operate as described in the respective PDF user guides for each of those installs. It is not possible to use the Mode buttons both for recalling presets as well as controlling Nektar DAW Integration/Nektarine at the same time.

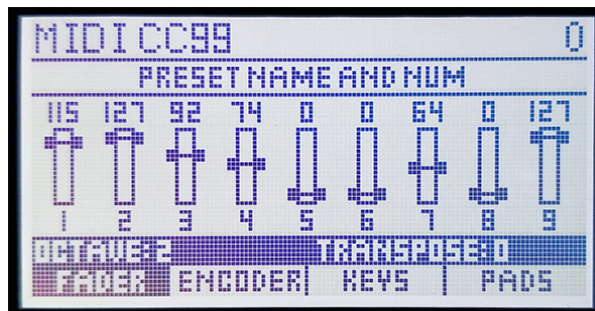
See page 12-13 for more details about Nektar DAW Integration and Nektarine

Internal Mode Display Button Menus

The 4 display buttons function changes with different menus and the display labels above each show what they do.

Fader

The Fader page is displayed by default every time Panorama T4/T6 is switched on. The display shows current fader positions as well as status of Octave and Transpose. To change the Octave value, press the Octave buttons.



Encoder

Pressing the Encoder display button shows a graphic representation of the 8 encoders' current value as well as the MIDI message currently assigned to each of them.

To change MIDI assignments for any of Panorama T4/T6 controls, use the Control Edit menu as described on page 21.

Keys

Activating the [Keys] menu changes the display button options to functions that exclusively affect the keyboard:

Chord

When [Chord] is engaged, playing one note on the keyboard can trigger a chord interval of up to 6 notes.

- To learn an interval, press and hold the [Chord] button.
- Play the root note of the chord on the keyboard, while continuing to hold the [Chord] button.
- Continue to hold the root note and release the [Chord] button.
- Play any other notes you want to be part of the chord/interval. You only need to continue holding one note (not necessarily the root note at this point), so additional notes can be played one at a time.
- Release all notes when done and play a key on the keyboard to verify the recorded chord/interval.

With [Chord] engaged you can play one or multiple keys on the keyboard to trigger ever more complex intervals. This may result in duplicate notes so use with caution.

Press [Chord] again to disengage the function.

Repeat

Opens the Key Repeat menu. See page 19 for details.

Vel Fix

When [Vel Fix] is engaged, the keyboard output velocity at a fixed value.

- To set the fixed velocity setting, press and hold [Vel Fix]
- Move [E1/Data] to select a value between 0-127. This is the velocity value that will be output by the keys when [Vel Fix] is engaged.
- Keep moving [E1/Data] past 127 will select 'MW'. Select this setting if you want to control the fixed velocity value in real time, using the modulation wheel.
- Release the [Vel Fix] button when done.

Hold

This feature allows you to hold played notes after removing your hands from the keyboard.

- Press a key or multiple keys on the keyboard.
- Press [Hold]
- Release the keys on the keyboard
- The notes will continue to play until [Hold] is deactivated.

Pads

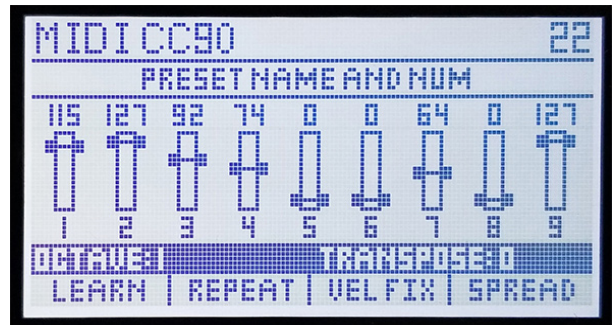
Activating the [Pads] menu changes the display button options to functions that exclusively affects the pads.

Learn

It's easy to change a pad note assignments using the Pad Learn function.

It works as follows:

- Engage [Learn]
- Hit the pad you want to assign a new note value to.
- Press the key on the keyboard that corresponds to the note you want to assign to the pad. You can keep playing notes on the keyboard until you have found the note you want.
- Repeat the two previous steps to change more assignments
- Disengage [Learn] when you are done.



Your settings are stored over power cycling but make sure you save to a pad map (See page 23) if you want to be sure they are not lost in the future.

Repeat

Opens the pads repeat menu. See page 19 for details.

Vel Fix

When [Vel Fix] is engaged, the pads output velocity at a fixed value.

- To set the fixed velocity setting, press and hold [Vel Fix]
- Move [E1/Data] to select a value between 0-127. This is the velocity value that will be output by the keys when [Vel Fix] is engaged.
- Keep moving [E1/Data] past 127 will select 'MW'. Select this setting if you want to control the fixed velocity value in real time, using the modulation wheel.
- Release the [Vel Fix] button when done.

Spread

Velocity Spread assigns the note of the pad last played, across all 8 pads, but at fixed incrementally higher velocity values.

- Hit a pad that you want to play using the velocity spread function.
- Press [Spread] to engage the function.
- Play the 8 pads. Each pad should now play the same note at gradually higher fixed velocity values.
- Press [Spread] again to disengage the function.

The fixed velocity value for each pad can be adjusted. With [Spread] engaged, do the following:

- Hit a pad that you want to adjust the fixed velocity of.
- Press and hold [Spread].
- Move [E1/Data]. The top info line updates the fixed velocity value.
- Release [Spread] when you are done.

Pads

The 8 pads are velocity sensitive and programmable with either note, MIDI switch or pressure control messages. This means you can use them as regular MIDI buttons as well as to punch out your drum beats and percussive melody parts. In addition, the pads have 4 velocity curve and fixed velocity options you can choose between, depending on what you are doing and your playing style.

Pads Bank Button

The Pads Bank Button switches between pad bank 1-8 and pad bank 9-16. When the button is illuminated white, pad bank 1-8 is active and when red, pad bank 9-16 is active.

Pad Learn

If you want to change the note assignment for a pad, you can do that quickly by doing the following:

- Press [Shift]+[Pads Bank] to enter Learn mode.
- Hit the pad you want to assign a note. You can use the [Pad Bank} button to switch between pads 1-8 and 9-16.
- Play a key on the keyboard, representing the note you want assigned. You can keep playing different notes until you have found the one you want.
- Hit another pad if you want to keep assigning, followed by playing a note on the keyboard.
- Press [Shift]+[Pads Bank] to exit Learn mode.

Change Octave for all Pad Assignments

If you want to shift all current pad assignments up or down an octave or two, here is how you do that:

- Press [Pads Bank] and hold
- Press the [Octave down] or Octave [Up] key to change the octave. The display's current parameter line updates to show you how many octaves the pads have been shifted.
- Release [Pads Bank] when done.

Load and Save Pad Maps

You can load and save up to 8 different pad setups in memory locations called Pad maps. Here is how you load pad maps:

- Press and hold the [Shift/Mute] button. The pad corresponding to the currently loaded pad map should now be illuminated.
- Press the pad that corresponds to the pad map you want to recall.
- Release the [Shift/Mute] button. The pad map has now been loaded.

Pad maps contain settings for the 2 banks of 8 pad assignments = 16 pads total. Press the [Pad Bank] button to switch between them.

The default pad maps showcase some of the options for programming the pads but there are many more creative ways you could use them. Try for example using pressure to control parameters or load presets.

Here is a list of the default pad maps

Pad Map	Description	Pad Map	Description
1	Chromatic scale from C1 to D#2	5	Perfect 4th intervals 1. Play two pads to create chords
2	Chromatic scale from E2 to G3	6	Perfect 4th intervals 2. Play two pads to create chords
3	General MIDI drum kit setup	7	One pad = 4 octaves
4	General MIDI percussion kit setup	8	Chords

Repeat Functions

Your Panorama T4/T6 is equipped with a note repeat/arpeggiator function that helps you create musical parts and beats that might be difficult to play manually.

- Press the button labeled [Key repeat] to switch the repeat function on/off for the keyboard.
- Press the button labeled [Pad repeat] to switch the repeat function on/off for the pads.

The behavior for the 2 buttons can be set to either 'toggle' or 'latch' but is set by default to 'toggle'. To change the current setting, press [Shift]+[Key Repeat] or [Shift]+[Pad Repeat]. The setting can also be changed in one of the repeat settings pages.

To open up the repeat settings page, in Internal mode press either the display button labeled [Keys] or [Pads] depending on which you want to work with. Then press the display button labeled [Repeat].

Key/Pad Repeat

With the Repeat menu active in the Keys or Pads menu, the encoders control the following parameters:

E1	E2	E3	E4
Tempo	Gate/Length	Accent Offset	Setup
E5	E6	E7	E8
Repeat Rate	Swing	Accent Interval	Setup Select

Tempo: Sets the tempo between 40 and 240 BPM if the clock source is set to 'Internal'. If clock source is set to 'MIDI Clock', current tempo will be displayed but the E1 encoder doesn't control it.

Repeat Rate: Choose the rate notes are repeated at. Options are 1/4, 1/6, 1/8, 1/12, 1/16, 1/24, 1/32, 1/48, 1/64, 1/96.

Gate: Sets the length of the repeated note in a range from 1% to 100%. 100% equals the repeat rate.

Swing: By default the swing value is 50% which means that swing is essentially off. Changing to value < 50% will move every second note closer to the preceding note and setting the value > 50% will move it further away to the preceding note. Remember to set the value back to 50% when you want it off.

Accent Offset: Sets the velocity accent value offset +/- 50 which means that an accent will play up to 50 velocity values higher than the originally played velocity value or 50 values below.

Accent Interval: Sets the interval at which an accent should be played (from 2 to 16). Setting the interval to 2 means every second note will be played with the accent offset value and a setting of 9 means every 9th note will be played with the accent offset value etc.

Setup: Moving the Setup encoder goes through a selection of menu's for each of which a value can be set in Setup Select.

Setup	Setup Select	Description
Trig Sync	Key Sync	Plays in sync with your original key trigger.
	Beat Sync	Syncs with the next beat rate step
Clock Src	Internal	Clock source is Panorama T4/T6's internal clock.
	MIDI Clock	Clock source is incoming MIDI clock sent via USB MIDI port 1
Vel Src	AfterTouch/Pad Pressure, Exp Pedal, Mod Wheel, off	Select source controls velocity during repeat
Btn Mode	Toggle, Latch	Switches the [Key Repeat] and [Pad Repeat] buttons behavior. Can also be done using [Shift]+[Key Repeat] or [Shift]+[Pad Repeat]
Tap Tempo	Pads 1-8, Buttons 1-9	Assigns tap tempo for the internal clock source to one of the options

Control Edit

To assign MIDI messages to any of the assignable MIDI controls on Panorama T4/T6, first make sure [Internal] is selected. Next press the [Setup/Menu] button and use either the [arrow up/down] display buttons or the [E1/Data] to select Control Edit. Press [Enter].

In the Control Edit menu, the display shows the assignment parameters for the currently selected control. To select a different control, either move it or press it. As you select different controls, such as for example fader 3 and then press pad 4, the display updates accordingly.

Control Types	Message Type Options
Faders AfterTouch Pitch Bend Wheel Mod Wheel Expression Pedal	<ul style="list-style-type: none"> • MIDI CC • Pitch Bend • Channel Pressure/ (AT) • NRPN (coarse) • NRPN (fine) • Fixed Velocity Value
Assignable Buttons Foot Switch Socket	<ul style="list-style-type: none"> • MIDI CC • MIDI CC (Toggle) • MIDI CC (Step) • Pitch Bend • Note • Note (Toggle) • Program & Bank • Program (Step) • NRPN Toggle (coarse) • NRPN Toggle (fine) • NRPN Step (coarse) • NRPN Step (fine) • Load Preset • Fixed Velocity State • MIDI Machine Control • Key Hold • Key Chord
Encoders	<ul style="list-style-type: none"> • MIDI CC • Pitch Bend • Channel Pressure/ (AT) • NRPN (coarse) • NRPN (fine) • Fixed Velocity Value • Program • MIDI CC (Relative)
Pad Pressure	<ul style="list-style-type: none"> • MIDI CC • Pitch Bend • Poly AfterTouch • Channel AfterTouch • Load Preset • Load Pad Map • NRPN Toggle (coarse) • NRPN Toggle (fine) • NRPN Step (coarse) • NRPN Step (fine) • Fixed Velocity Value
Pad Strike	<ul style="list-style-type: none"> • Note • Chord



Note that the pad strike component can either be assigned a Note or a Chord message type. Both are easier to assign outside Control Edit, using the Pad Learn or the Chord functions. Chord cannot be set up in Control Edit.

Setting Minimum/Maximum Values and Reverse

For many of the message types you'll be able to set a minimum and a maximum value, so you can define a narrow control range.

If the minimum value is greater than the maximum value, the control's behavior is reversed. You may for example want to mimic the behavior of a drawbar using a fader. Setting the minimum value of a MIDI CC message to 127 and the maximum value to 0 will reverse the fader's behavior, so that pulling it towards the player will gradually send out increasing values and pushing it back will gradually push it towards 0.

Assigning Controls to MIDI messages

Here are a couple of use-case examples that illustrate how to assign controls in Control Edit. The approach is largely the same for any Message Type.

First make sure to enter the Control Edit menu.

Programming an Encoder to Send a Relative MIDI CC Message

- Move Encoder [E3] to select it.
- Make sure “Message Type” is selected. Use the display buttons [Arrow down] or [Arrow up] if needed.
- Turn [E1/Data] until Message Type “MIDI CC REL” is selected.
- Press the display button [Arrow Down] twice to select “MIDI CC”.
- Change the MIDI cc number to 74 using [E1/Data]. MIDI cc #74 controls Filter Cutoff on a GM compatible device.

Moving encoder E3 clockwise will now send the increment message 1 and moving it counter clockwise will send the decrement message 127. Make sure your receiving device or MIDI software is able to respond to relative values.

To select encoder E1 for editing, press the display button labeled “E1”.

Sending Program and Bank Change with an LED Button

- Press button [B1] to select it.
- Make sure “Message Type” is selected. Use the display buttons [Arrow down] or [Arrow up] if needed.
- Turn [E1/Data] until Message Type “PRG BANK” is selected.
- Press the display button [Arrow Down] twice to select “PROGRAM”.
- Change the Program number to 11 (or whichever program message you want the button to send) using [E1/Data].
- Press the display button [Arrow Down] once to select “BANK MSB”.
- Change the Bank MSB value using [E1/Data].
- Press the display button [Arrow Down] once to select “BANK LSB”.
- Change the Bank LSB value using [E1/Data].

The Program value allows you to select up to 128 programs, between values 0 and 127 within the currently selected bank.

So the Bank messages are sent prior to the Program value to select the correct bank. But what is the correct bank value?

That depends on the receiving device. In some cases it may be as simple as setting the Bank MSB value to the bank number you need and leave the Bank LSB value blank.

In other cases, a value is required for both, Bank MSB and Bank LSB. Typically you would set the value for Bank MSB to 0 and the value for Bank LSB to the bank number you need.

Consult the documentation for your receiving device and be prepared for a little bit of trial and error before a pattern emerges.

Controlling AfterTouch with a Pad

- Hit pad 2 to select it.
- Make sure “Pressure” is selected. Use the display buttons [Arrow down] or [Arrow up] if needed.
- Turn [E1/Data] until “CHANAT” is selected.

Channel Aftertouch is now triggered when you press the pad. You can use it to control AfterTouch using the pad instead of the keyboard or control AfterTouch for a chord or note played by the pad itself.

Loading a Preset Using the Track Buttons

- Press the button labeled [Track -] to select it.
- Make sure "Message Type" is selected. Use the display buttons [Arrow down] or [Arrow up] if needed.
- Turn [E1/Data] until Message Type "LD PRESET" is selected.
- Press the display button [Arrow Down] once to select "Preset."
- Change the Preset number using [E1/Data].

Note that pressing [Track-] after exiting Control Edit will load the preset number you selected in the last step. Because [Track-] is a global control and not stored with a preset, the button load the selected preset at any time. If you assign any of the LED buttons B1 - B8, the LED button may be assigned to a different Message Type in the loaded preset. LED button assignments are not global but stored with a preset. Make sure to save any changes you want to retain before loading a preset.

Programming a Fader to Adjust the Velocity Value for Keyboard Fixed Curve

- Move Fader F1 to select it.
- Make sure "Message Type" is selected. Use the display buttons [Arrow down] or [Arrow up] if needed.
- Turn [E1/Data] until Message Type "FIX VEL" is selected.
- Press the display button [Arrow Down] twice to select "Target".
- Choose between Keys or Pads using [E1/Data]. Set it to "PADS."

Note that the velocity curve for the selected target must be set to "Fixed".

Save Preset, Port Setup & Factory Restore

Save Preset

There is always a risk that your current setup is lost so it's best to save settings regularly.

Here are the steps to save current settings for faders 1-9, LED buttons 1-8 and encoders 1-8:

- Make sure Internal mode is active.
- Press [Setup/Menu].
- Select 'Save' using the [Data/E1] encoder or the arrow up/down display buttons.
- Press [Enter].
- In the top current parameter line it now reads "Save to preset:" Move [Data/E1] to select one of the 10 locations.
- Press [Enter] to save.

Note that this operation will overwrite any other data stored in the selected preset location.

Port Setup

Panorama T4/T6 has several virtual USB ports. They are used to communicate with DAWs via Nektar DAW Integration, however it's also possible to use them to route control data when using the mode buttons, as long as neither Nektar DAW Integration or Nektarine are active.

- Make sure Internal mode is active.
- Press [Setup/Menu].
- Select 'Port Setup' using the [Data/E1] encoder or the arrow up/down display buttons.
- Press [Enter].
- In the display window now choose Mixer, Instrument, Multi, Internal or Pad using the arrow up/down display buttons.
- Move [Data/E1] to change the MIDI port routing.
- Press [Save] when done.

You can route any Preset loaded using the Mode buttons (page 15) to the assigned USB port, thereby sending MIDI messages to completely different destinations at the push of a button. Setting up a unique port for the pads would allow you to separate pad note messages from keyboard messages.

If Nektarine or Nektar DAW Integration is active, all routing reverts to USB port 1.

Factory Restore

If you need to restore factory settings (for example if you accidentally managed to change the assignments needed for DAW integration files), here is how you do that:

- Make sure your Panorama T4/T6 is switched off.
- Press the [Browse]+[View].
- Switch your Panorama T4/T6 on.
- Keep holding the two buttons until the unit has booted up.

