



QuNeo Factory Preset Guides (Printable)

QuNeo Version 1.2.4

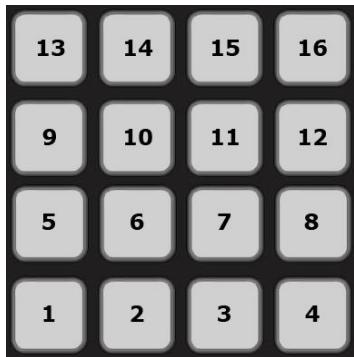
December 2013

Keith McMillen, Daniel McAnulty, Conner Lacy, Jimmy Allison, Jasmin Blasco, Andrew Calvo, Chuck Carlson, Diane Douglas, Tom Ferguson, Jay Fields, Steven Fruhwirth, Paul Gaeta, Ingmar Gorman, Christian Heilman, Matthew Hettich, Sarah Howe, Will Marshall, Alex Molina, Rasheedah Noble, Ryan Page, Jon Short, Matia Simovich, Barry Threw, Nick Wang, Carson Whitley, and Steve Wright

Selecting Presets

After plugging in the QuNeo, it will automatically load the last preset you used. The first time, it will load Preset 1.

To enter preset mode, quickly tap the little round Mode button in the top left corner of the QuNeo. It will begin to flash blue.



After entering Preset mode, the pad for the current preset will be illuminated in red. Select a preset by pressing one of the pads. The selected pad will briefly blink green and QuNeo will exit Preset mode and go to the selected preset.

The image to the left shows how the pads are numbered and which pad to select for which preset number.

Tapping the Mode button again will put QuNeo back into Preset mode at any time.

Factory Preset Guides

Most of the Factory Presets can be used with various Software Templates we have created. The following guides below outline the MIDI data each preset sends out as well as the basic behavior of each Software Template. The Software Template Installer can be found as a separate package, downloadable from <http://www.keithmcmillen.com/QuNeo/downloads/>.

Notes about the Preset Guide images:

- If a data source is not accounted for in the preset guide image, this means it is disabled. For Example: If one of the Pads only shows note names and not pressure CC#s, assume that the pressure data is turned off and will not output as MIDI data, even in CoMA mode.
- Assume that all notes and pressure sources use Normal mode (as opposed to Toggle mode) unless otherwise indicated in the following preset descriptions.

MIDI Output

Preset 1: (Drum C1-D#2 / Serato & djay)

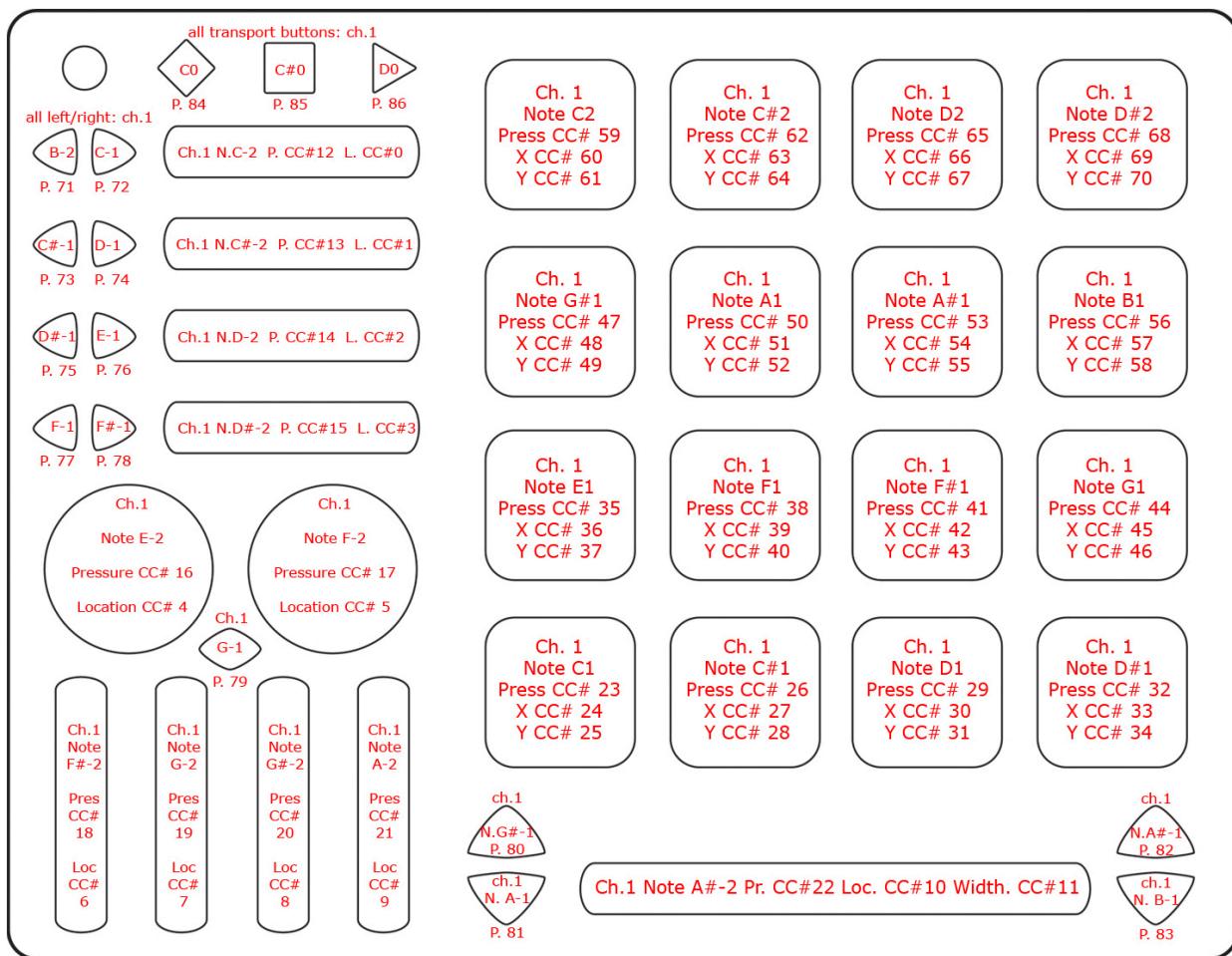
Preset 2: (Drum E2-G3)

Preset 3: (Drum G#3-B4)

Preset 4: (Drum C5-D#6)

Presets 1-4 are the same except the pad notes increment up as the preset number increases. So the pad notes on preset 1 are shown below from C1-D#2, preset 2 are from E2-G3, preset 3 are from G#3-B4, and preset 4 are from C5-D#6.

These presets are in Drum Mode and don't use banks. Rotaries are set to use Location instead of Direction. Pass Thru Widths for the rotaries are set to 127. The Pad X/Y Return values are set to 63. Velocity is variable and pressure is continuous on the Pads; velocity is fixed at 127 for notes on other sensors.



Our Serato Template uses Presets 1-3. Our djay Template uses Presets 1-2. Both templates are included in the QuNeo Software Template Installer.

Scratch Live (Serato) Mappings for Preset 1, 2, & 3:

Global:

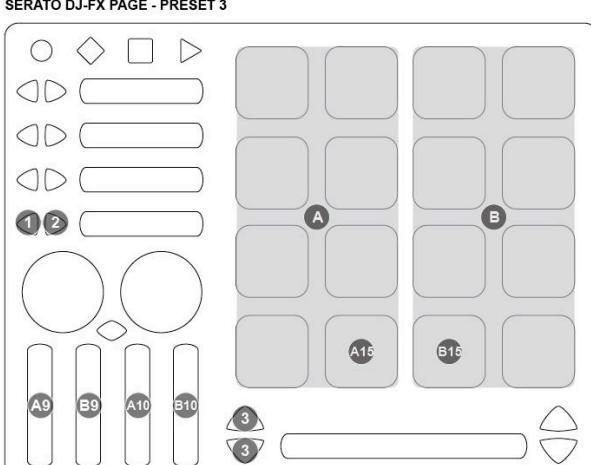
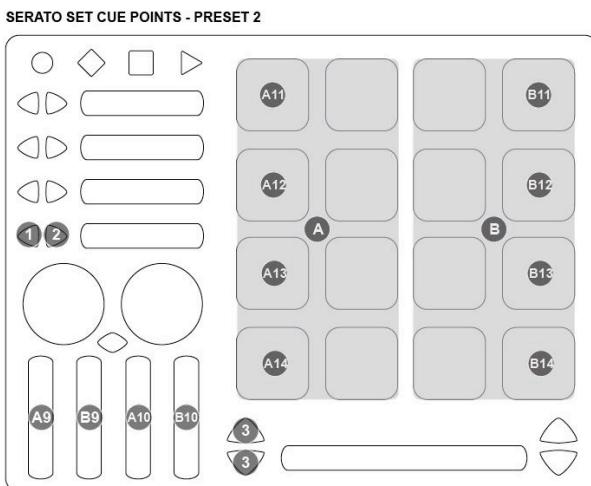
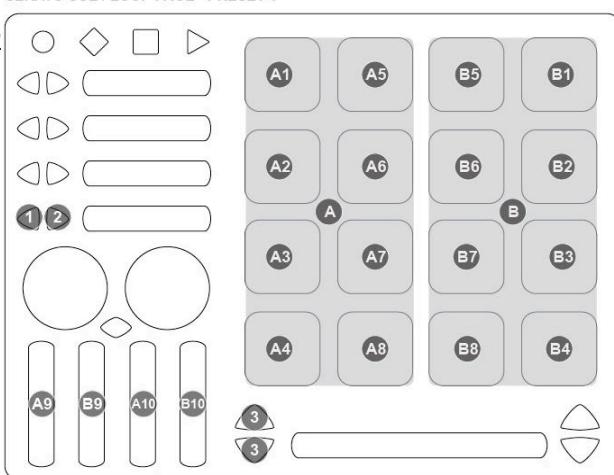
- 1. LOAD Deck 1** - loads the selected track from the main track library or crate to Deck 1
- 2. LOAD Deck 2** - loads the selected track from the main track library or crate to Deck 2
- 3. Track Library Browse** - Browse Up and Down a crate or the main Track Library.

A. Left Deck - Represents Deck 1

B. Right Deck - Represents Deck 2

QuNeo Preset 1:

- A1/B1** - Trigger Cue Point 1
- A2/B2** - Trigger Cue Point 2
- A3/B3** - Trigger Cue Point 3
- A4/B4** - Trigger Cue Point 4
- A5/B5** - Play
- A6/B6** - Loop In
- A7/B7** - Loop Out
- A8/B8** - Loop On/Off
- A9/B9** - DJ/FX Select
- A10/B10** - DJ/FX Amount

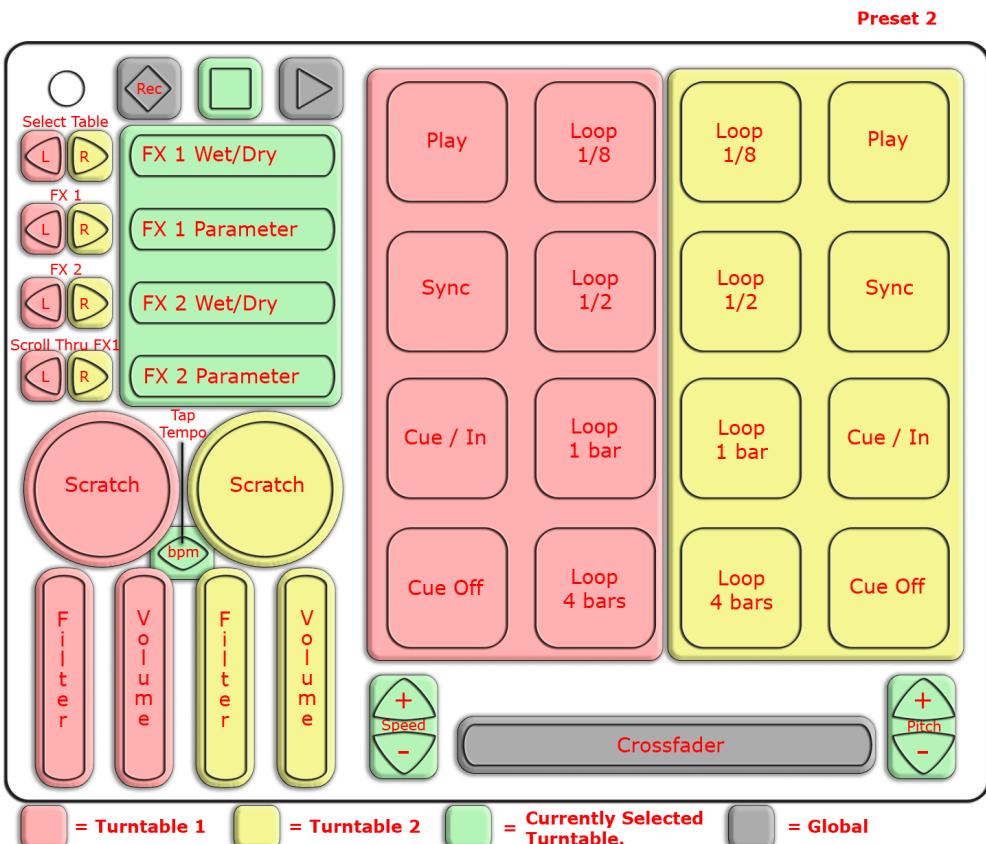
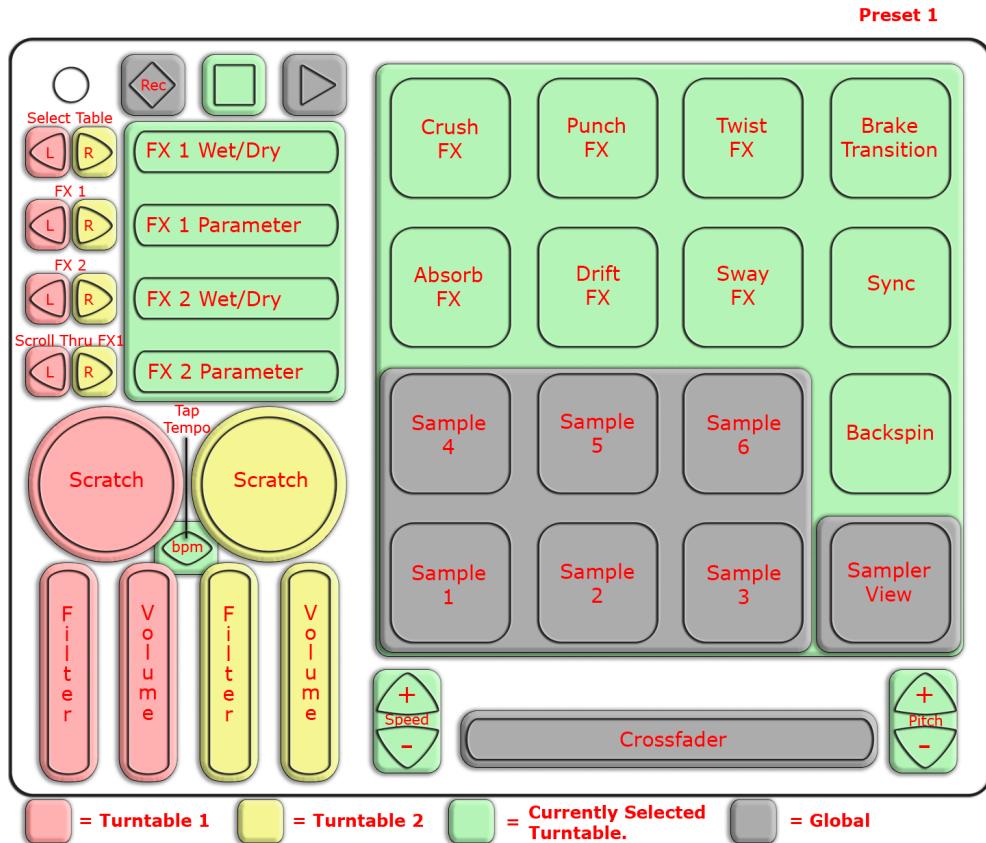


QuNeo Preset 3:

- A15/B15** - DJ/FX On/Off

For more information read Serato's Quickstart document included in the QuNeo Software Template Installer.

Algoriddm's djay MIDI Mappings for Preset 1 & 2:

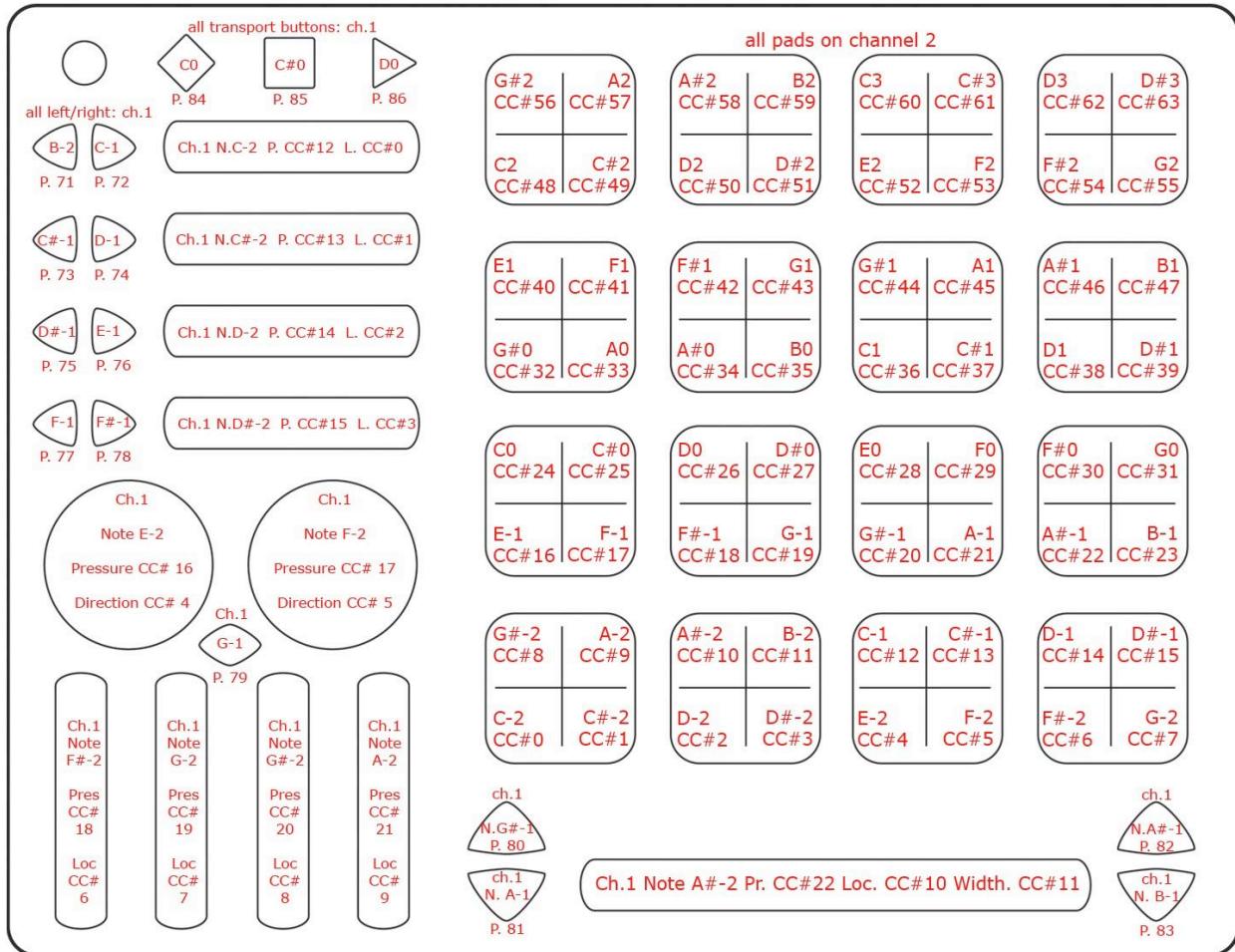


For more information read djay's Quickstart document included in the QuNeo Software Template Installer.

Preset 5, 6, 7, & 8 (Grid Mode):

Presets 5-8 are the same except the Pad channels increment as the preset number increases.

These presets are in Grid Mode and don't use banks. Rotaries are set to use Direction instead of Location. Pass Thru Widths for the rotaries are set to 127. Velocity response is fixed at 127 for all notes. All Pressure sources send out continuous CC values.



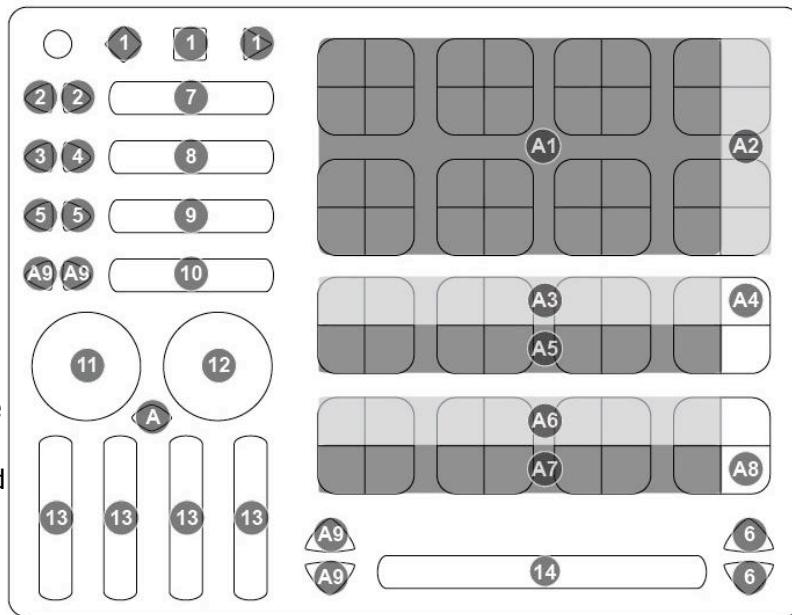
Preset 9 (Ableton Live Clip Launching):

The QuNeo Ableton Live Remote Control Surface contains a variety of Modes. Modes remap the 8x8 Grid and non Global Buttons into various functions for Ableton Live. Modes include Clip Launch, Step Sequencer, and Note Mode. When the Ableton Live Remote Control Surface is loaded it initializes Mode 1 (M1 - Clip Launch Mode). The image and corresponding text below summarizes Clip Launch Mode.

M1. CLIP LAUNCH MODE

GLOBAL CONTROLS:

1. Transport Controls
2. Tempo
3. Metronome
4. MIDI Overdub
5. Track Navigation
6. Scene Navigation
7. Selected Track Send A
8. Selected Track Send B
9. Selected Track Pan
10. Selected Track Volume
11. Selected Clip Loop
12. Selected Clip Loop End
13. Volume Faders
14. Crossfader



M1. CLIP LAUNCH MODE Controls:

Clip Launch Mode represents an overview of the current Ableton Live Session. Clip Launch Mode enables the QuNeo to launch clips within Ableton's clip slots and control volume parameters assigned to the first 4 volume Sliders within Ableton's highlighted red box. Other controls include: overdub - on/off, metronome - on/off, tempo - up/down, and transport functionality including: play, stop, and record.

A1. CLIP LAUNCH - These Pads launch clips within Ableton's clip slots.

A2. SCENE LAUNCH - Rows in the Session View are called scenes. All clips in a scene can be launched simultaneously by clicking the corresponding SCENE LAUNCH button in the column. These buttons trigger a row of clips within the session. A row is known as a "SCENE". When triggered, all of the clips in the selected scene will play.

A3. CLIP STOP - Push to stop the currently playing or recording clip corresponding to the correct track.

A4. STOP ALL CLIPS - Push to stop all playing and recording clips in the session.

A5. TRACK ACTIVATOR - Activate this button to hear the track, or deactivate it to mute the track.

A6. SOLO / CUE - Activate this button to solo the track, or deactivate it to unsolo the track.

A7. RECORD ARM - Active this button to Arm the track, or deactivate it to unarm the track.

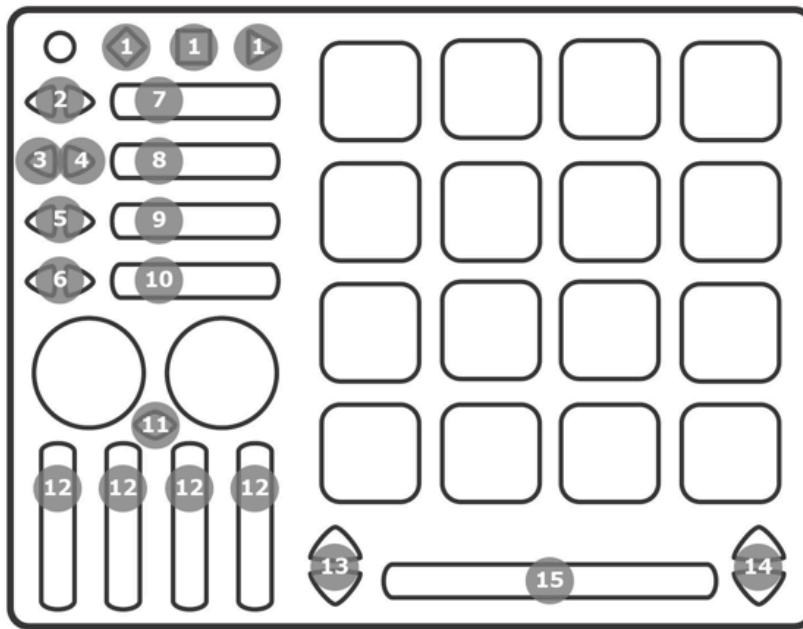
A8. SELECTED CLIP LAUNCH - Push to launch the currently selected clip.

A9. BANK SELECT - These allow the user to move the highlighted 7 x 4 red box around the session LEFT/RIGHT/UP/DOWN.

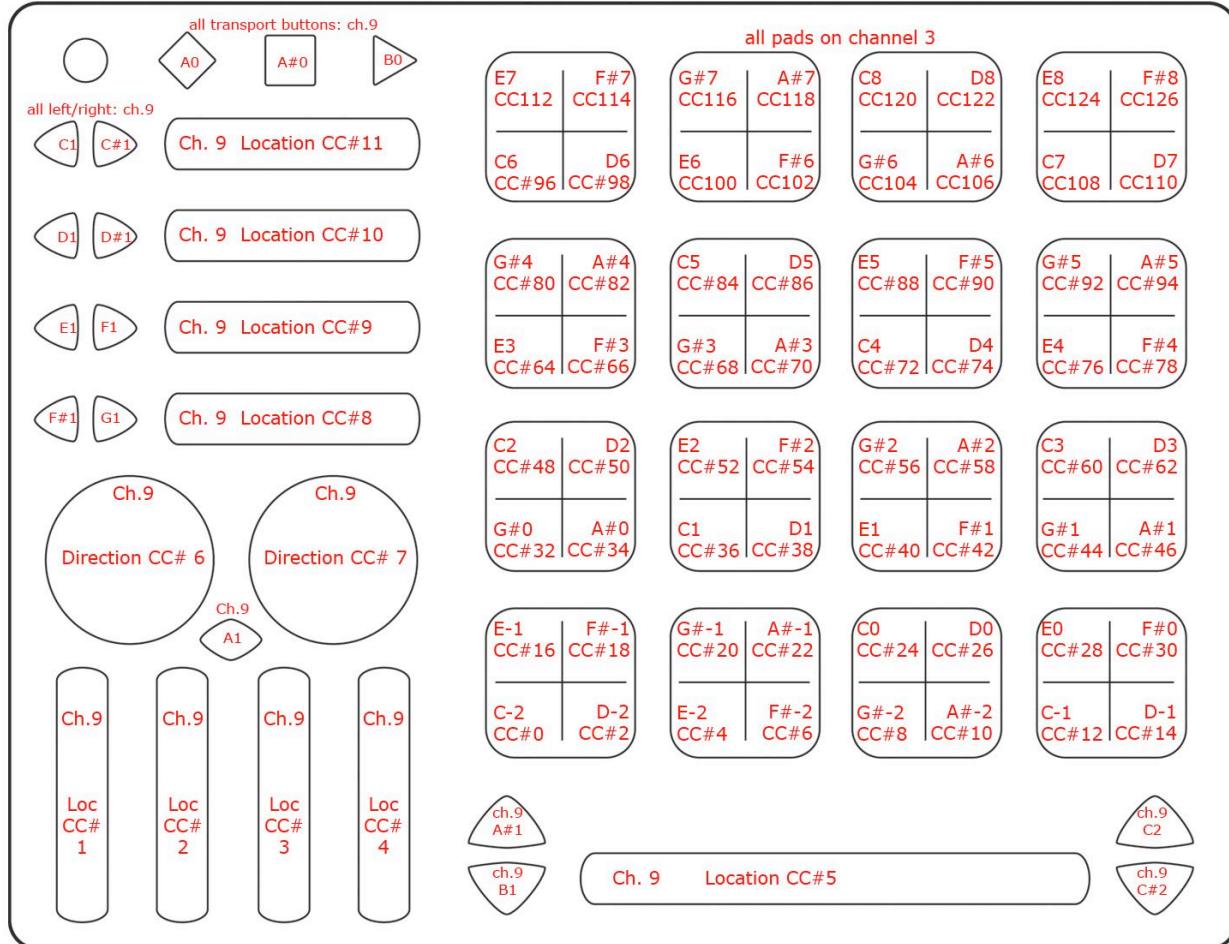
Preset 9 (LaunchPadEmulator):

Our Novation LaunchPad Emulator for QuNeo consists of an Ableton Live Remote Control Surface map created with Python. This allows you to use all of the familiar features that the LaunchPad provides on QuNeo. The image and corresponding text below summarizes what the buttons and sliders of the QuNeo do in all modes. The Pads behavior is determined by the selected mode. See the QuNeo_LaunchPad_Quickstart document (included in the QuNeo Software Template Installer) for more information about the Pad behavior.

1. **Transport controls** - The Record, Stop, and Play buttons correspond to the Transport Controls within Live.
2. **Tempo** - LEFT ARROW steps the tempo down 1.0 BPM. RIGHT ARROW steps the tempo up 1.0 BPM.
3. **Metronome** - Enables Metronome On/Off.
4. **MIDI Overdub** - Enables MIDI Overdub On/Off.
5. **Track Navigation** - Move left or right from the current selected track to the next or last track.
6. **Red Box Track Navigation** - Move the location of the highlighted bounding box left or right (this box may or may not be red).
7. **Selected Track Send A** - Control the selected track Send A.
8. **Selected Track Send B** - Control the selected track Send B.
9. **Selected Track Pan** - Control the selected track Pan.
10. **Selected Track Volume** - Control the selected track Volume.
11. **Shift Button** - Holding down the **SHIFT (Rhombus)** button enables you to access various **Modes** from the **Shift Page**. When the **SHIFT (Rhombus)** button is released it returns the controls to the currently selected **MODE**.
12. **Volume Faders** - This controls Live's first four volume faders within the highlighted bounding box.
13. **Red Box Scene Navigation** - Move the location of the highlighted bounding box up or down (this box may or may not be red).
14. **Scene Navigation** - Move up or down from the selected scene to the next within a selected track.
15. **Crossfader** - This controls Live's crossfader.

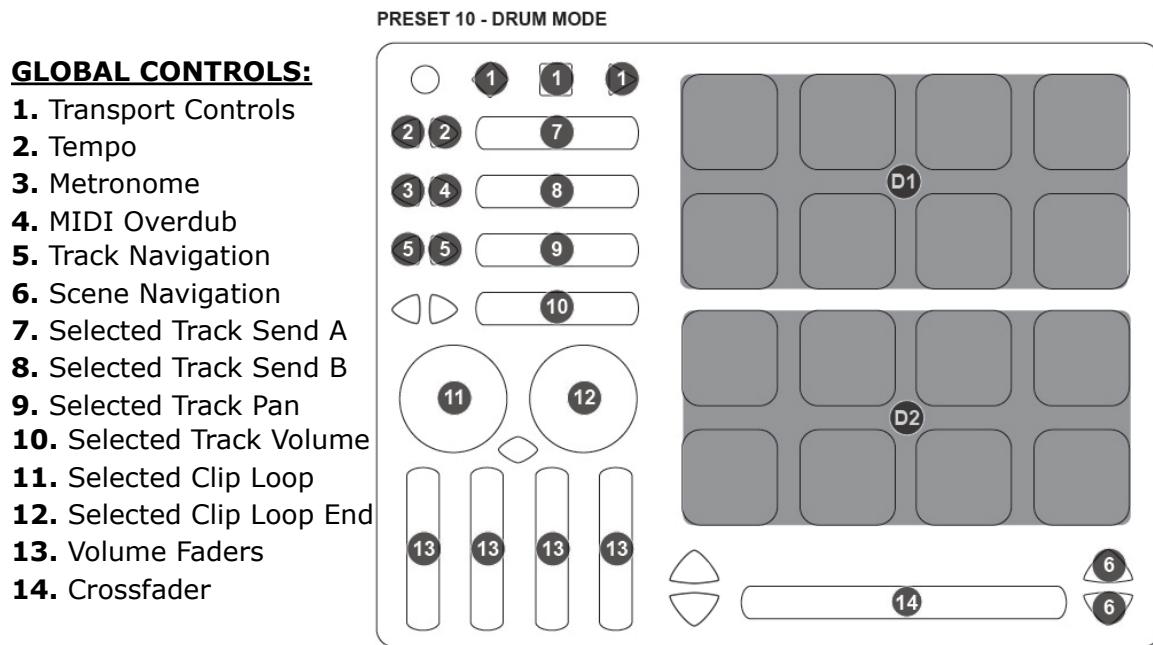


This image shows what MIDI data will output for each sensor in the "Ableton Live Clip Launching" and "LaunchPad Emulator" preset. In this preset the Pads use Grid Mode. This preset doesn't use banks. Rotaries are set to use Direction instead of Location. Velocity response is fixed at 127 for all notes. All Pressure sources send out continuous CC values. In this preset, the LEDs will not light up because Local LED Control is turned off. This is so the Ableton Live template's Remote LEDs will have full control over the LEDs.



For more information about using the Ableton Live Template or the LaunchPad Emulator Template, read the corresponding Quickstart document included in the QuNeo Software Template Installer.

Preset 10 (Ableton Live Drum Rack):

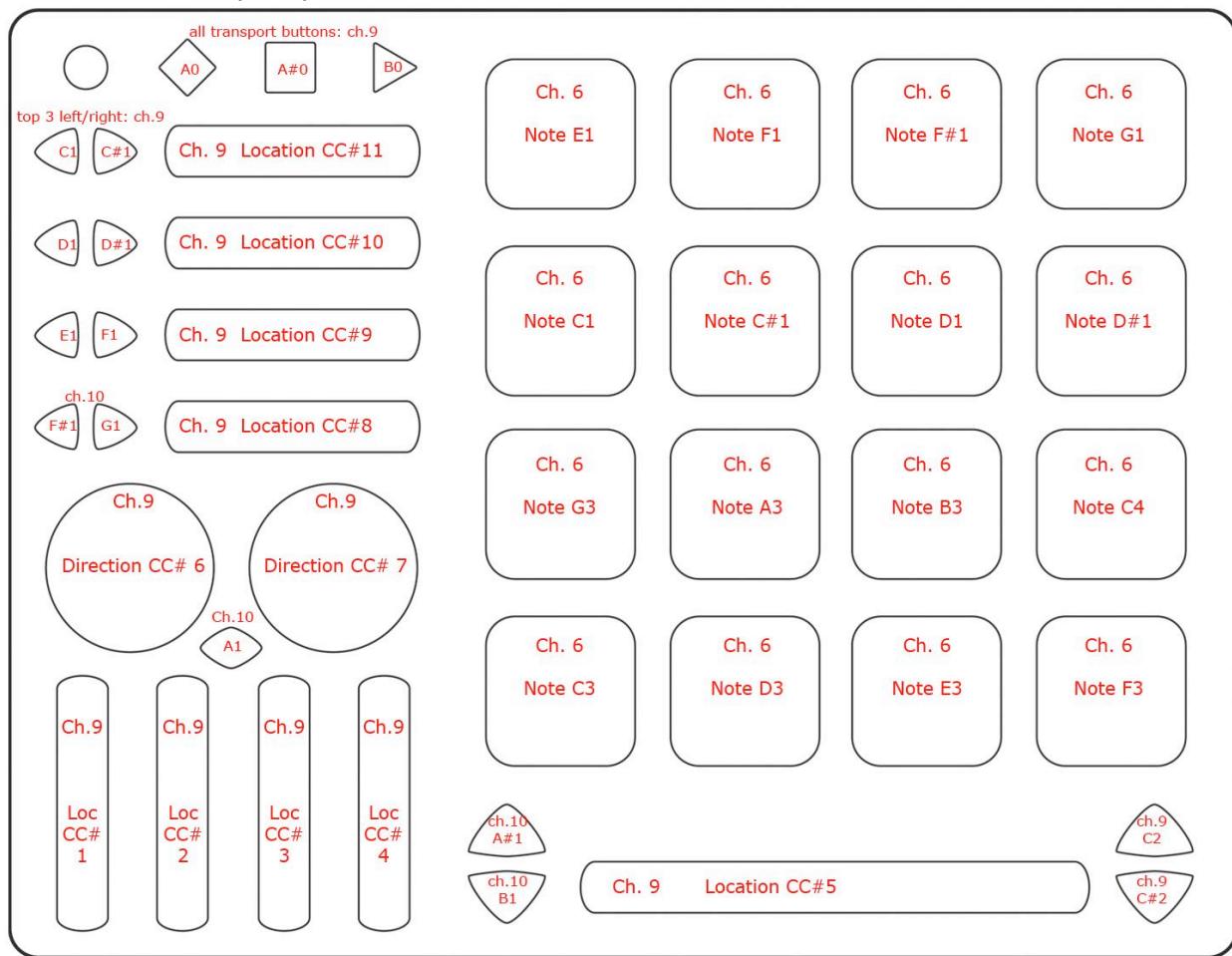


Preset 10

D1. Drum Rack - These Pads are Assigned to Drum Rack's C1-G8 Cell slots.

D2. Impulse - These Pads are Assigned to Impulses 8 Sample cells.

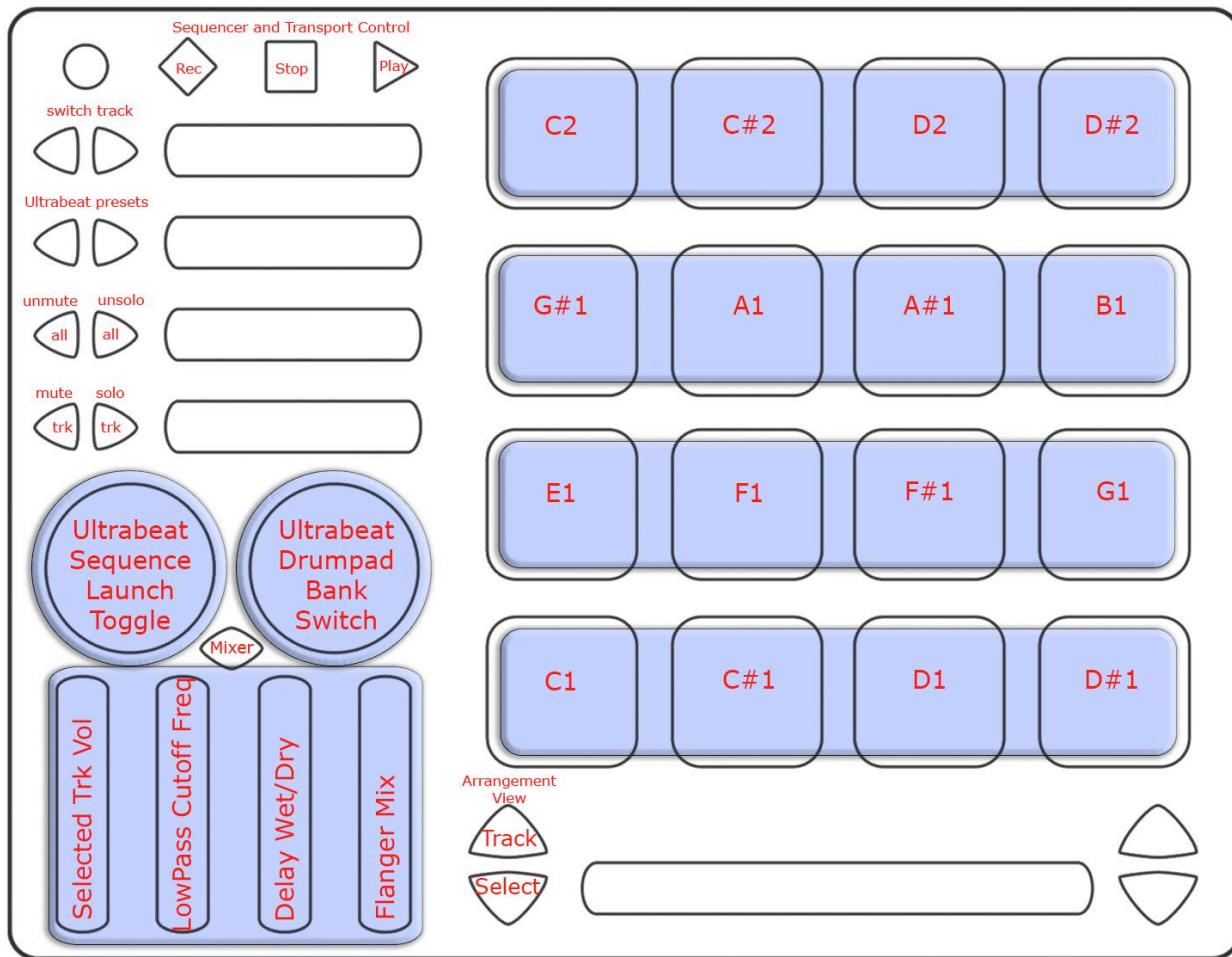
This image shows what MIDI data will output for each sensor in the "Ableton Live Drum Rack" preset. In this preset the Pads use Drum Mode. This preset doesn't use banks. Rotaries are set to use Direction instead of Location. The X/Y Return values are set to 63 on the Pads. Velocity response is enabled for the Pads and fixed at 127 for the Buttons.



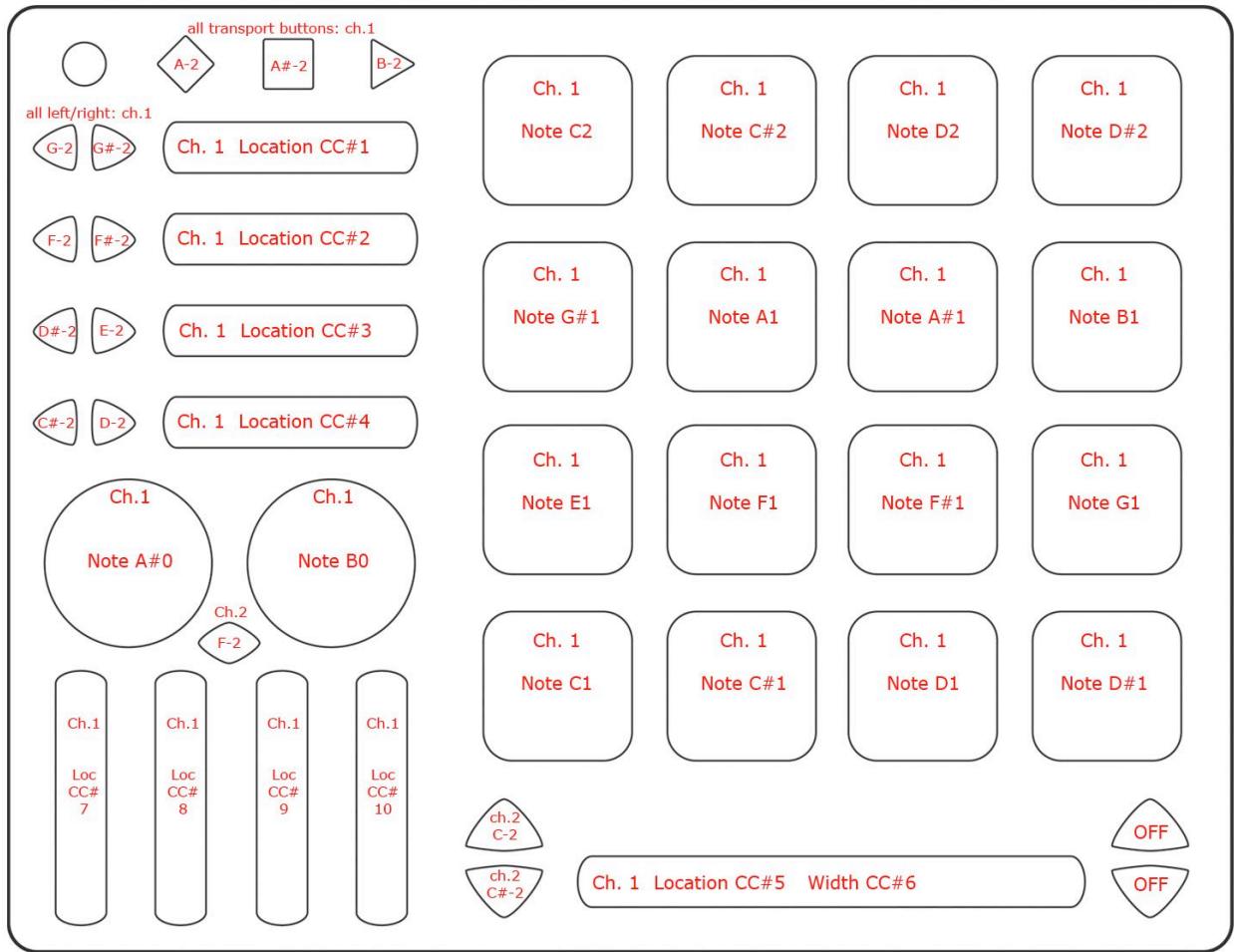
For more information about using the Ableton Live Template, read its Quickstart document included in the QuNeo Software Template Installer.

Preset 11 (Logic):

This turns QuNeo into a drum synth controller using the Ultrabeat software instrument that comes with Apple's Logic Pro. Below is an image showing how this preset is mapped to the Logic Template:



This image shows what MIDI data will output for each sensor in the “Logic” preset. The Pads are in Drum Mode. This preset doesn’t use banks. Velocity response is fixed at 127 for the buttons but is variable on the Pads. All Pressure sources send out continuous CC values.

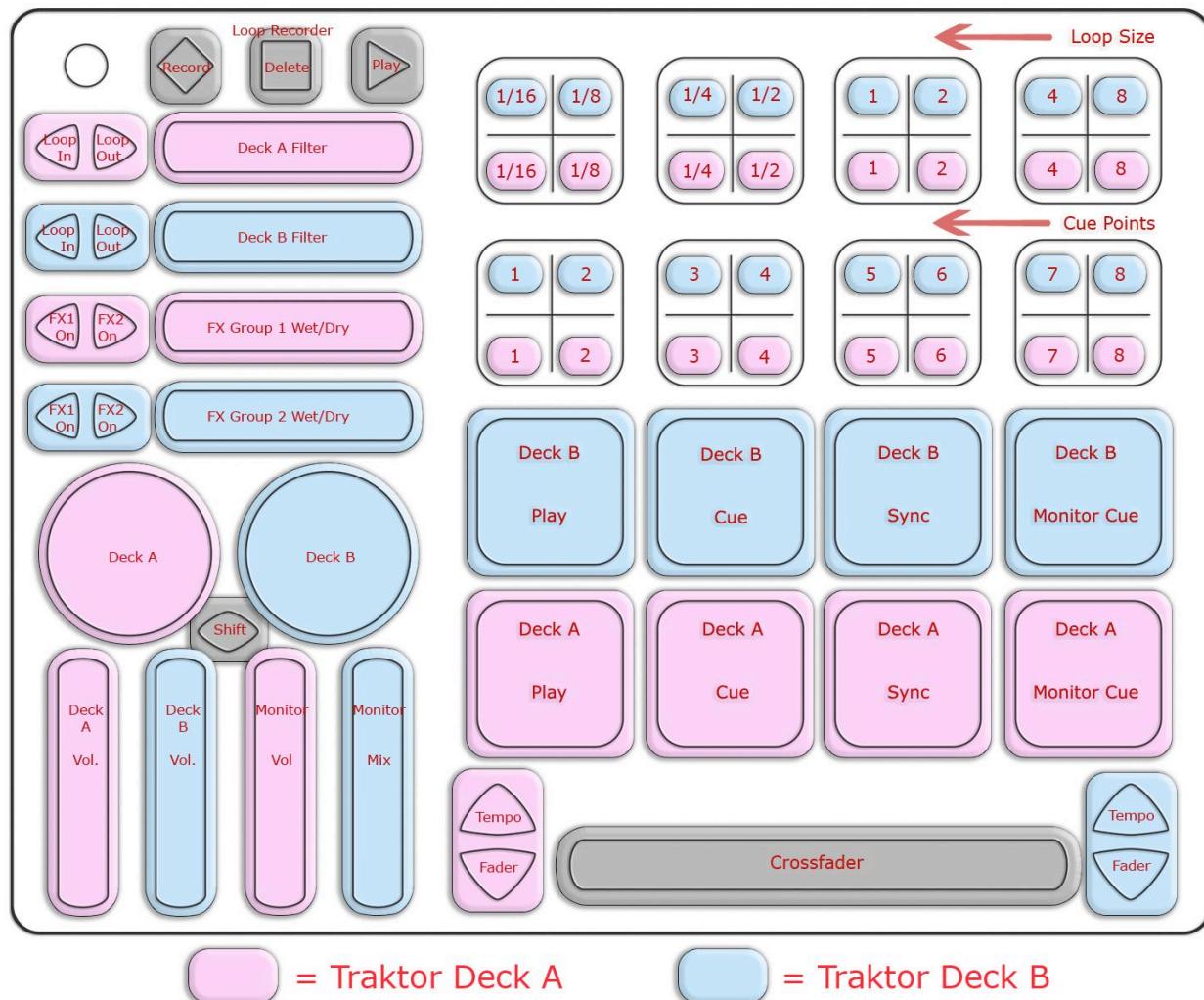


For more information about using the Logic Template read its Quickstart document included in the QuNeo Software Template Installer.

Preset 12 (Traktor - DJ / Mixxx):

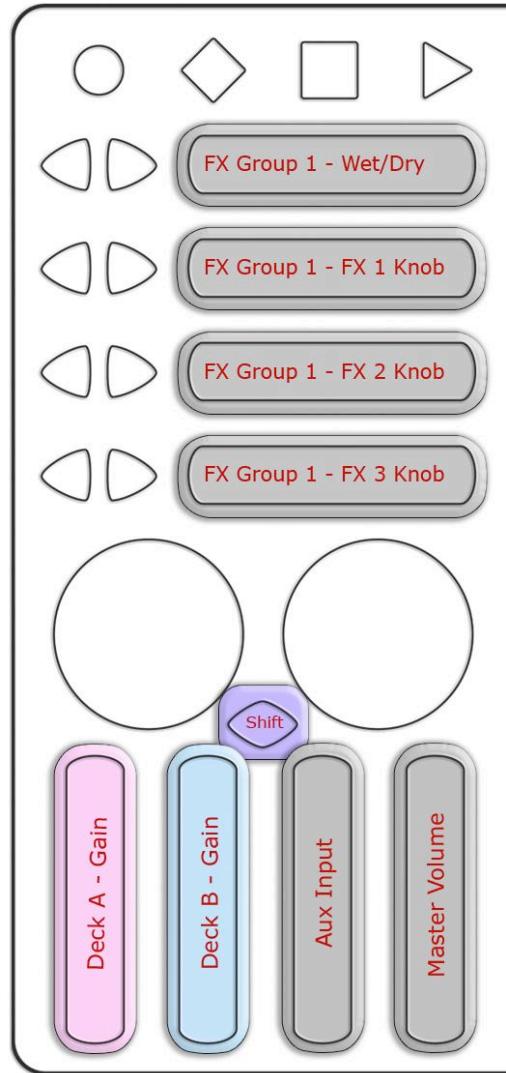
The Traktor DJ Preset turns QuNeo into a full-fledged DJ controller for Native Instruments' Traktor. This preset is designed with a more traditional approach to digital DJing in mind, with play, sync, cue, monitor, fx, filter, loop points, cue points, crossfading, deck control, and various volume controls accessible from QuNeo. In addition, this preset takes advantage of the modifier functions, creating a Shift button on QuNeo that allows for sample playback, extended mixing, and more in depth FX control.

The image below shows what each sensor controls in our Traktor DJ Template (included in the QuNeo Software Template Installer):



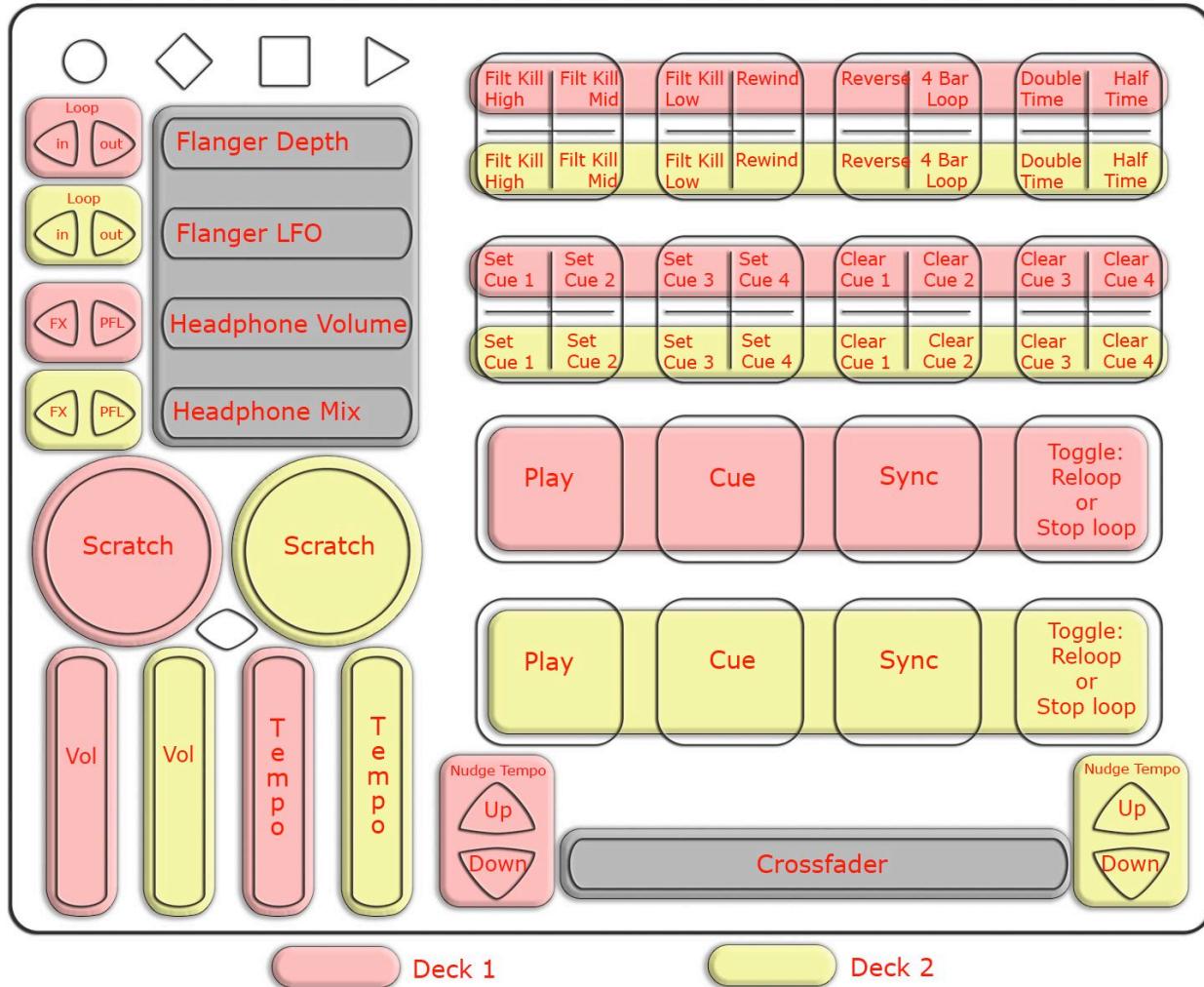
The image to the right shows how the Traktor template works when the Rhombus button (shift) is held down.

Only the Horizontal and Vertical Sliders' behavior changes in shift mode. All other sensors work the same way as they do outside of shift mode.

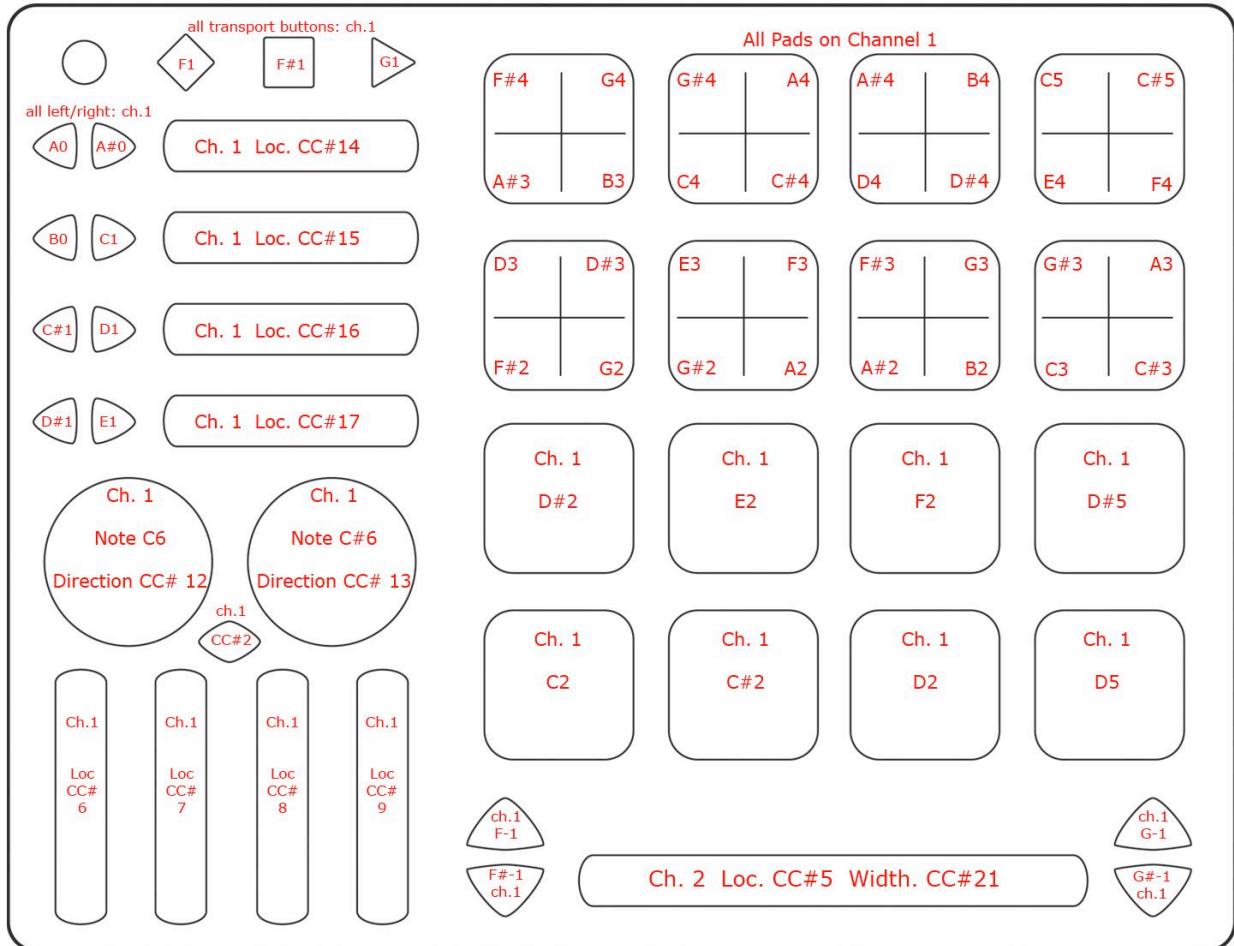


This preset turns QuNeo into a full-fledged DJ controller using Mixxx as well. It includes controls for 2 players: play, sync, cue, tempo controls, crossfading, scratching, and various volume controls accessible from QuNeo.

The image below shows what each sensor controls in our Mixxx Template (included in the QuNeo Software Template Installer):



This image shows what MIDI data will output for each sensor in the "Traktor - DJ / Mixxx" preset. The top 2 rows of Pads are in Grid Mode and the bottom 2 rows of Pads are in Drum Mode. This preset doesn't use banks. Rotaries are set to use Direction instead of Location. Velocity response is fixed at 127 for all notes. In this preset, the LEDs will not light up because Local LED Control is turned off. This is so the Traktor template will have full control over the LEDs.

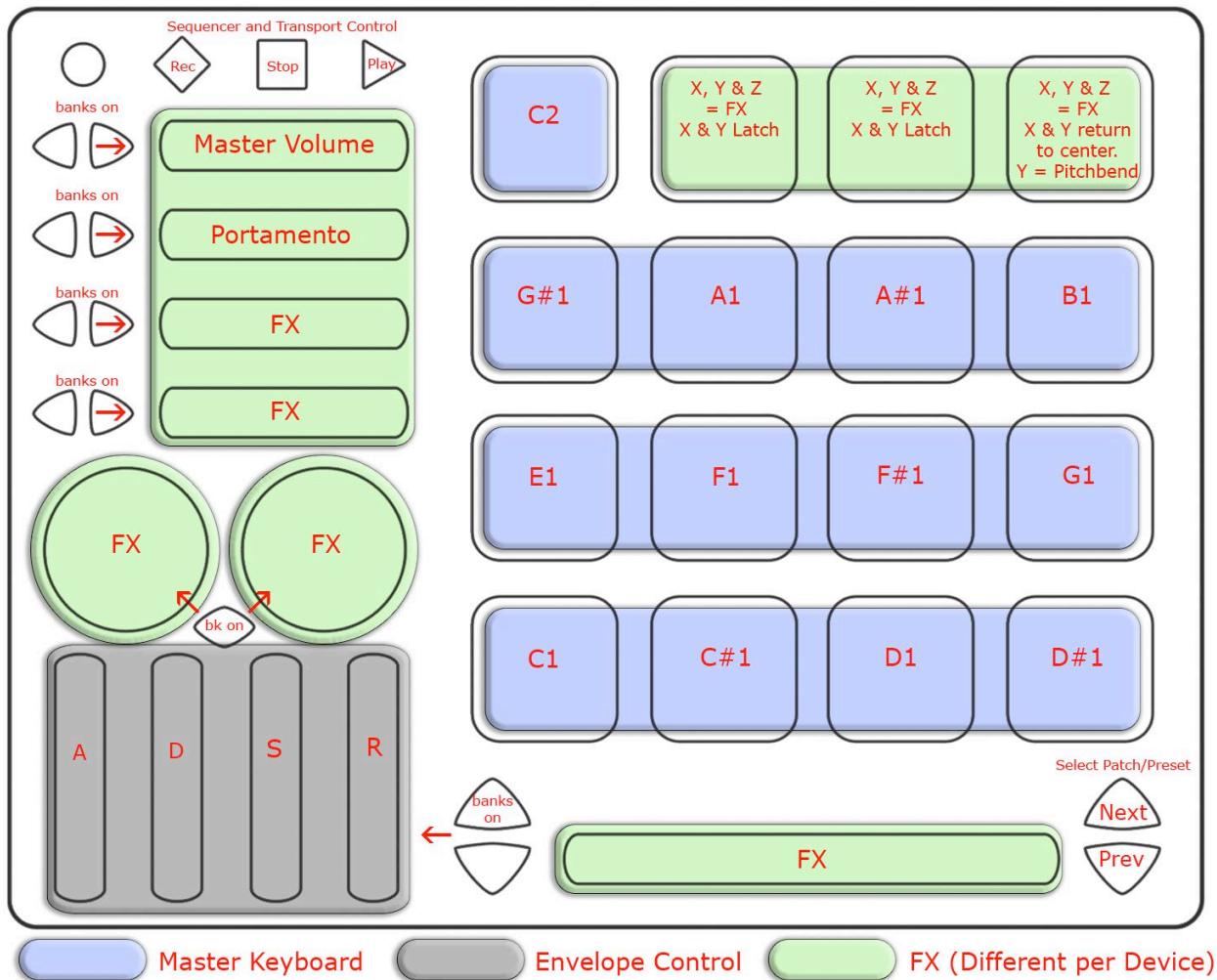


For more information about using the Traktor or the Mixxx Template read their Quickstart documents included in the QuNeo Software Template Installer.

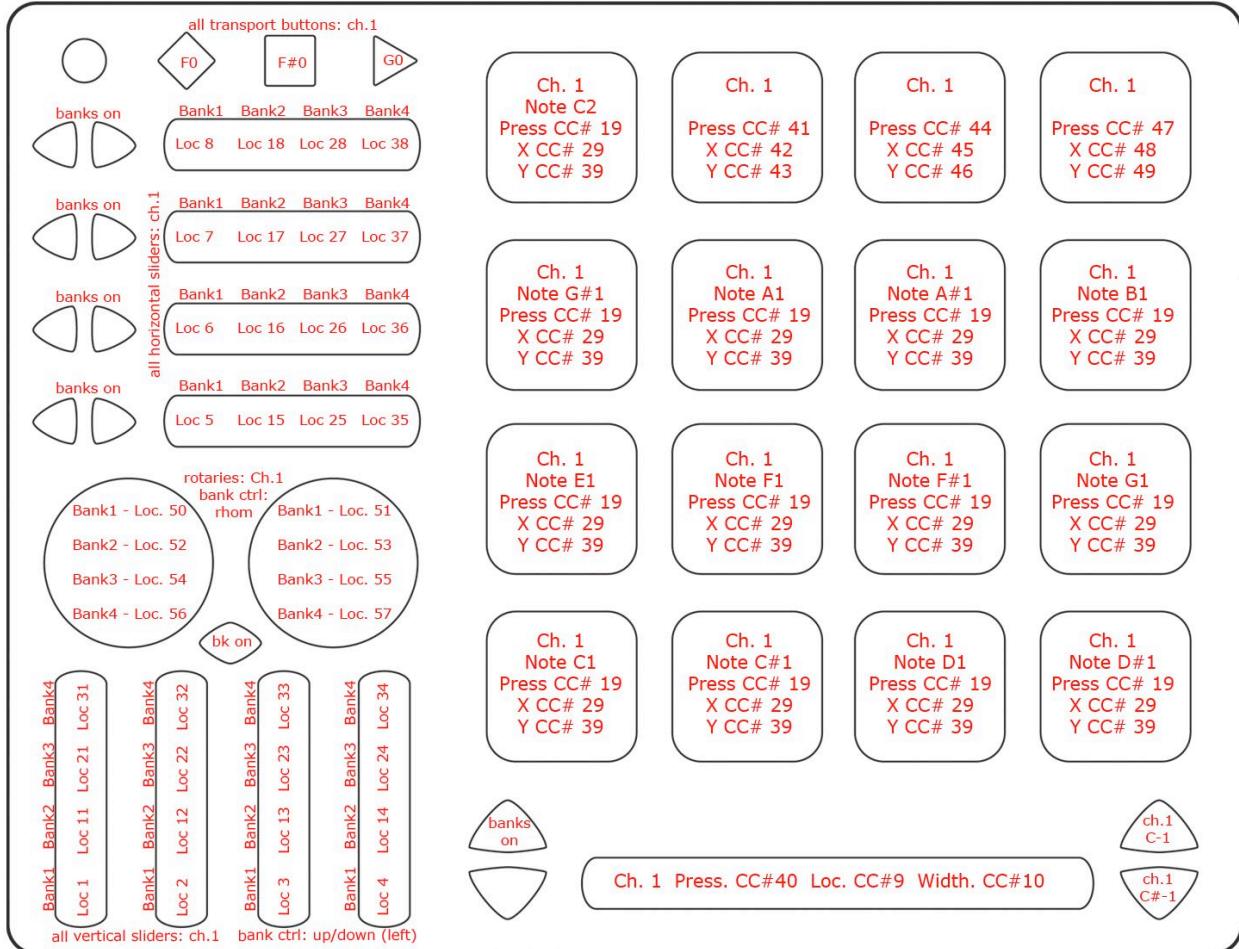
Preset 13 (Reason):

The Reason Preset turns QuNeo into a full fledged master keyboard controller for Propellerhead's Reason. The pads give one octave of notes while sliders control an ADSR envelope and various effects parameters.

The image below shows what each sensor controls in our Reason Template (included in the QuNeo Software Template Installer):



This image shows what MIDI data will output for each sensor in the "Reason" preset. In this preset the Pads use Drum Mode. Banks are enabled for the Horizontal Sliders, the Vertical Sliders, and the Rotaries. Rotaries are set to use Location instead of Direction. Pass Thru Widths for the rotaries are set to 127. X/Y sources on the Pads are set to latch on all Pads except Pad 16, which is set to return to 63. Velocity response is variable for the Pads and fixed at 127 for the Buttons. All Pressure sources send out continuous CC values.

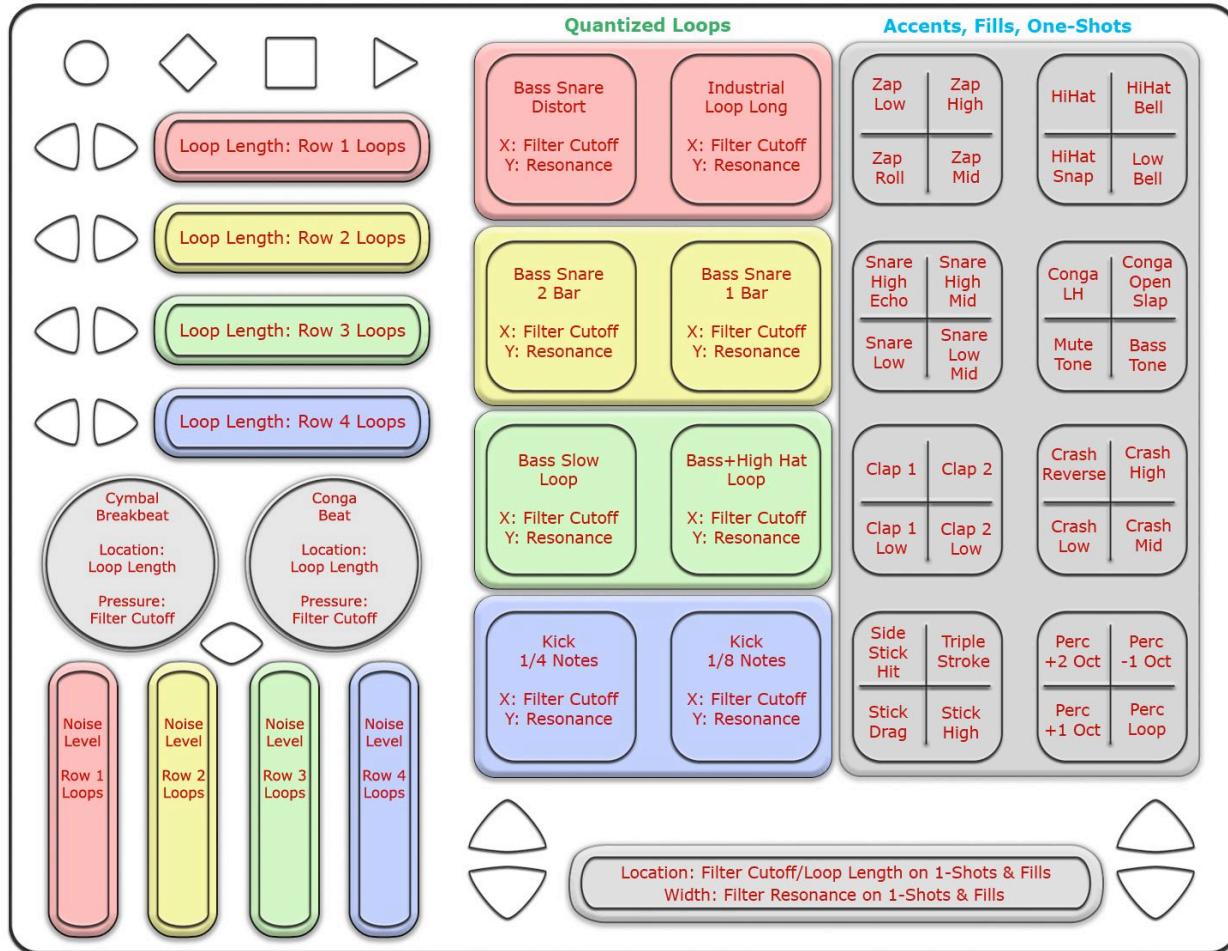


For more information about using the Reason Template read the Reason Template Quickstart document included in the QuNeo Software Template Installer.

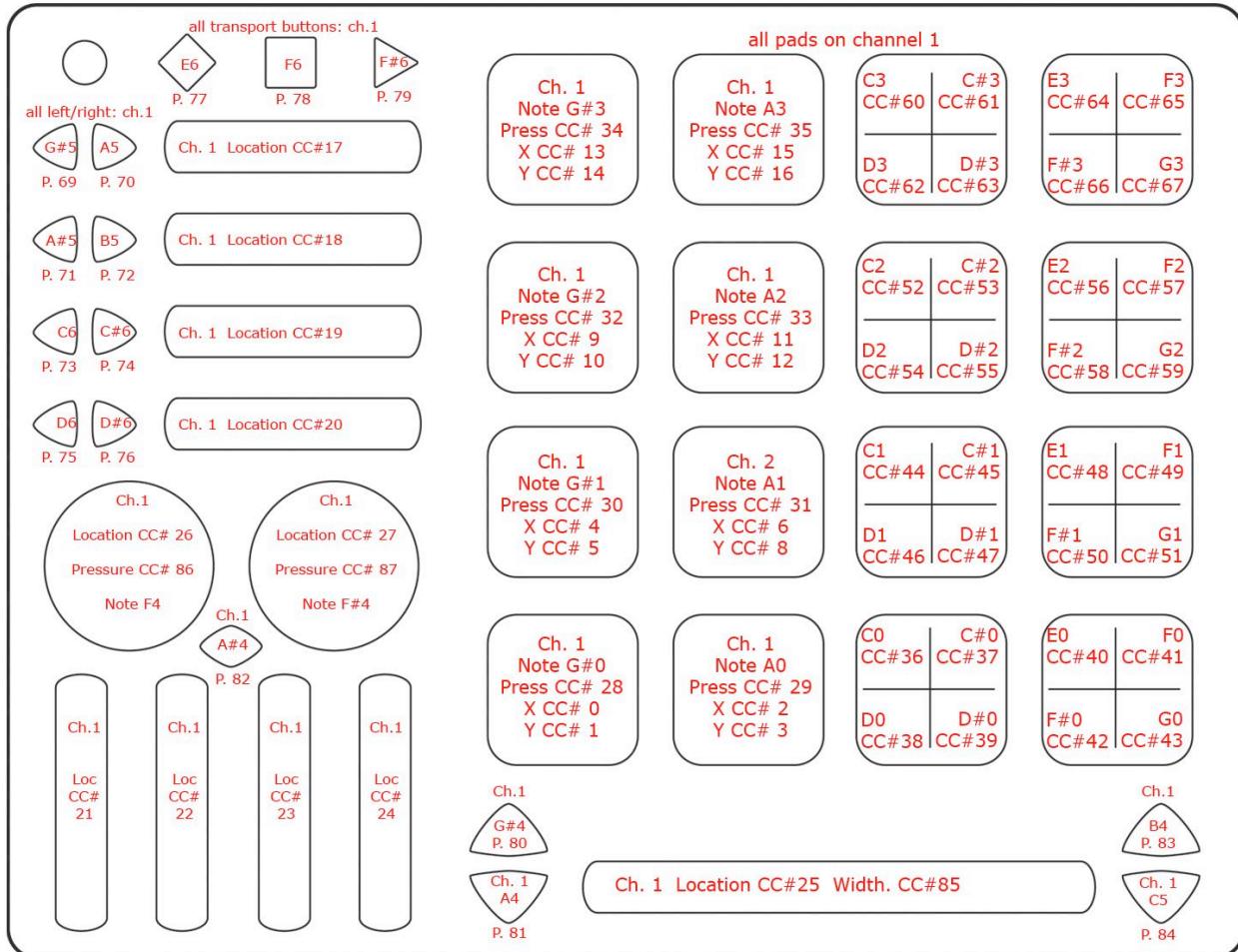
Preset 14 (Battery):

This preset is for use with our Native Instrument's Battery 3 template file. This template will turn the QuNeo into a sampler with loops on the left 8 pads and both rotaries and quick drum hit samples on the right 8 pads. The sliders provide additional control and effects.

The image below shows what each sensor controls in our Battery Template (included in the QuNeo Software Template Installer):



This image shows what MIDI data will output for each sensor in the "Battery" preset. In this preset the Pads use Drum Mode in the left 2 columns and grid mode in the right 2 columns. Banks are not enabled. Rotaries are set to use Location instead of Direction. Pass Thru Widths for the rotaries are set to 127. X/Y sources on the Pads are set to latch. Velocity response is variable for notes on Pads and Rotaries. Velocity is fixed at 127 for notes on the Buttons. All Pressure sources send out continuous CC values.

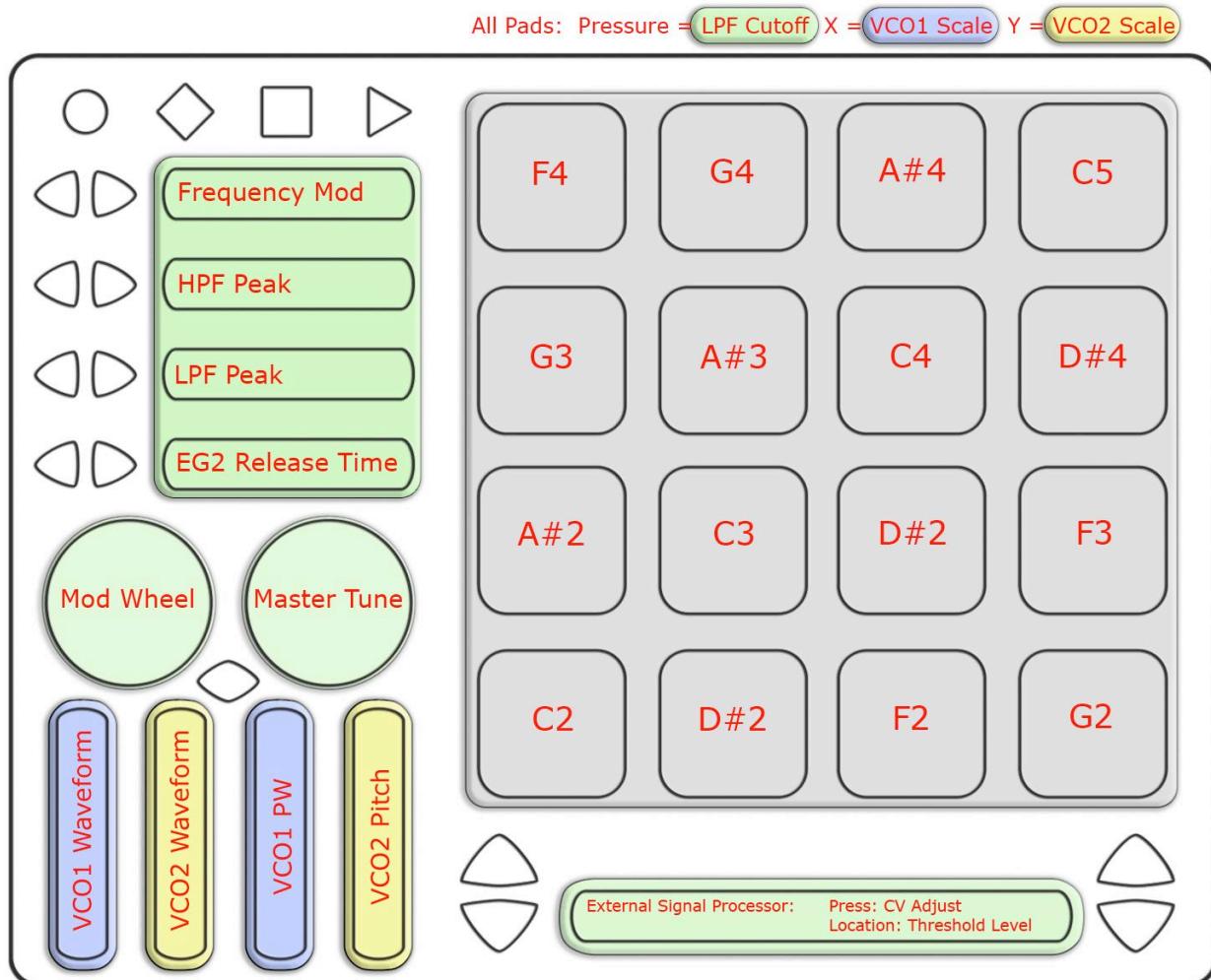


For more information about using the Battery Template read the Battery Template Quickstart document included in the QuNeo Software Template Installer.

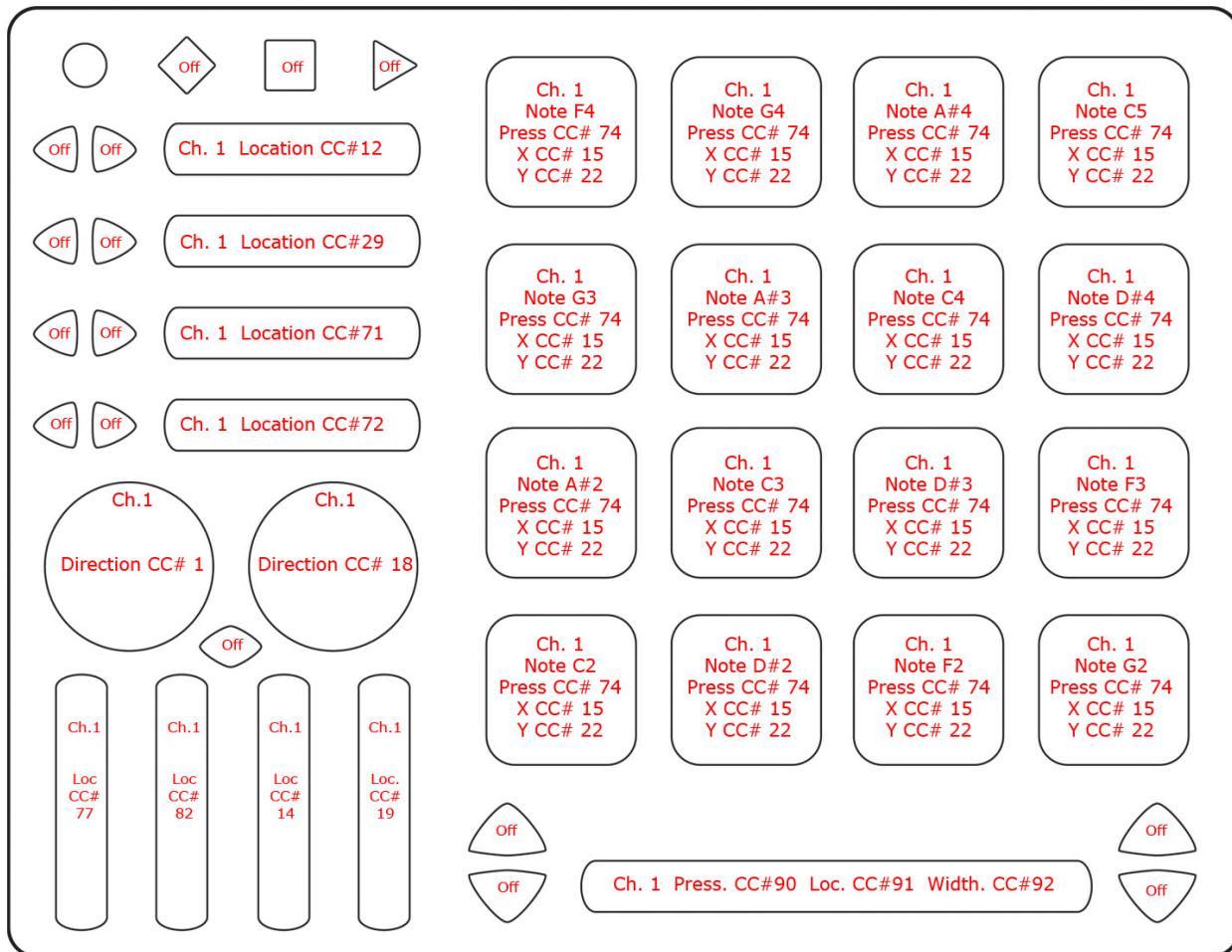
Presets 15 (Korg iMS-20 - iPad):

This preset is for use with Korg's iMS-20 synthesizer for iPad. This allows the QuNeo to play minor pentatonic notes from the iMS-20 and adjust voltage controlled oscillators and effects. Each pad will send out the same pressure CC# to control a low pass filter cutoff frequency. The X axis of each pad will control the first voltage control oscillator. The Y-axis of each pad will control the second voltage control oscillator. The Horizontal Sliders and the Long Slider control effects. Use the Rotaries to control the mod wheel and the tuning. The Vertical Sliders control the VCO waveforms and pulse width.

The image below shows what each sensor controls in the Korg iMS-20 synthesizer:



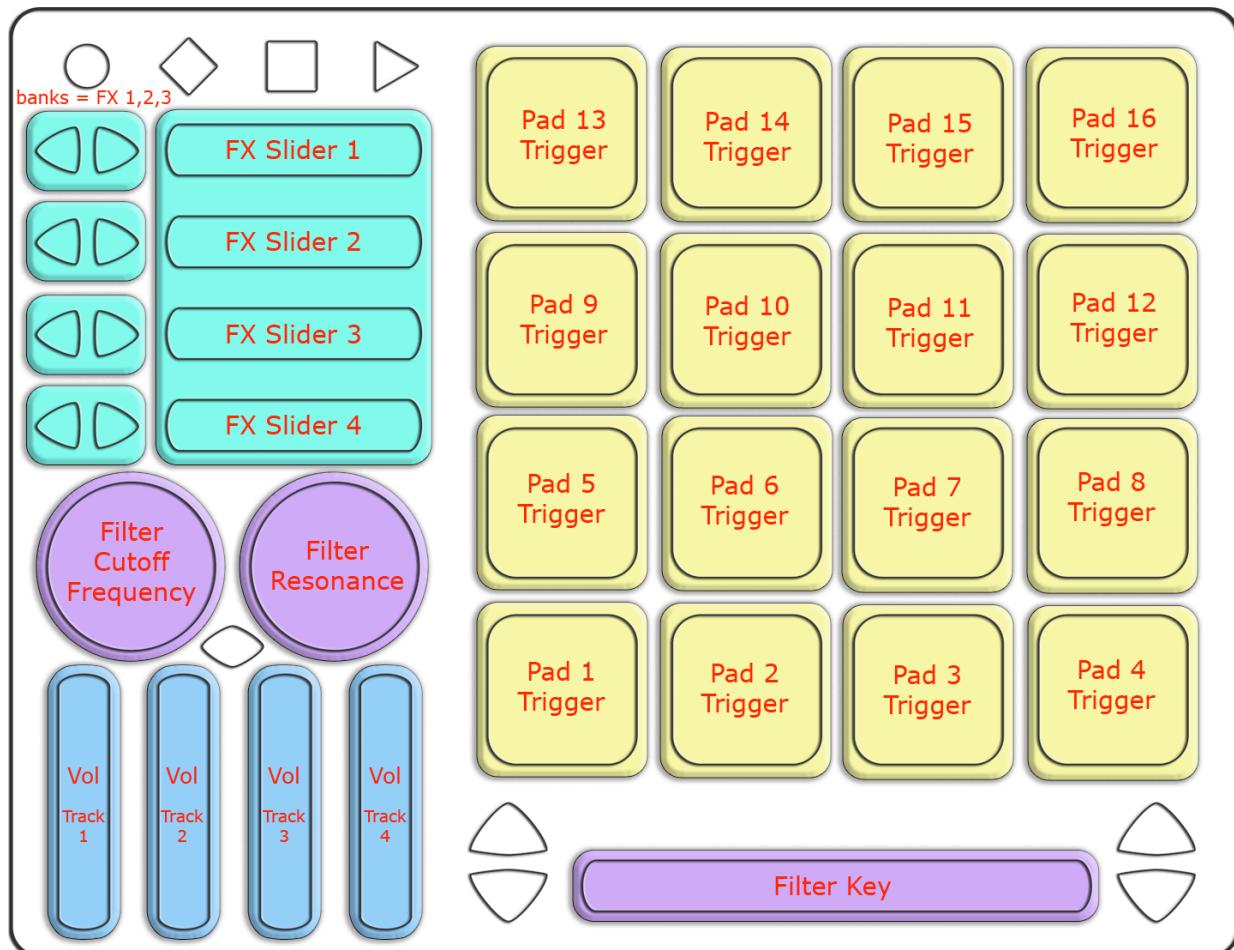
This image shows what MIDI data will output for each sensor in the "Korg iMS-20 - iPad" preset. In this preset the Pads use Drum Mode. Banks are not enabled. Rotaries are set to use Direction instead of Location. X/Y sources on the Pads are set to return to 63. Velocity response is variable for notes on Pads. All Pressure sources send out continuous CC values.



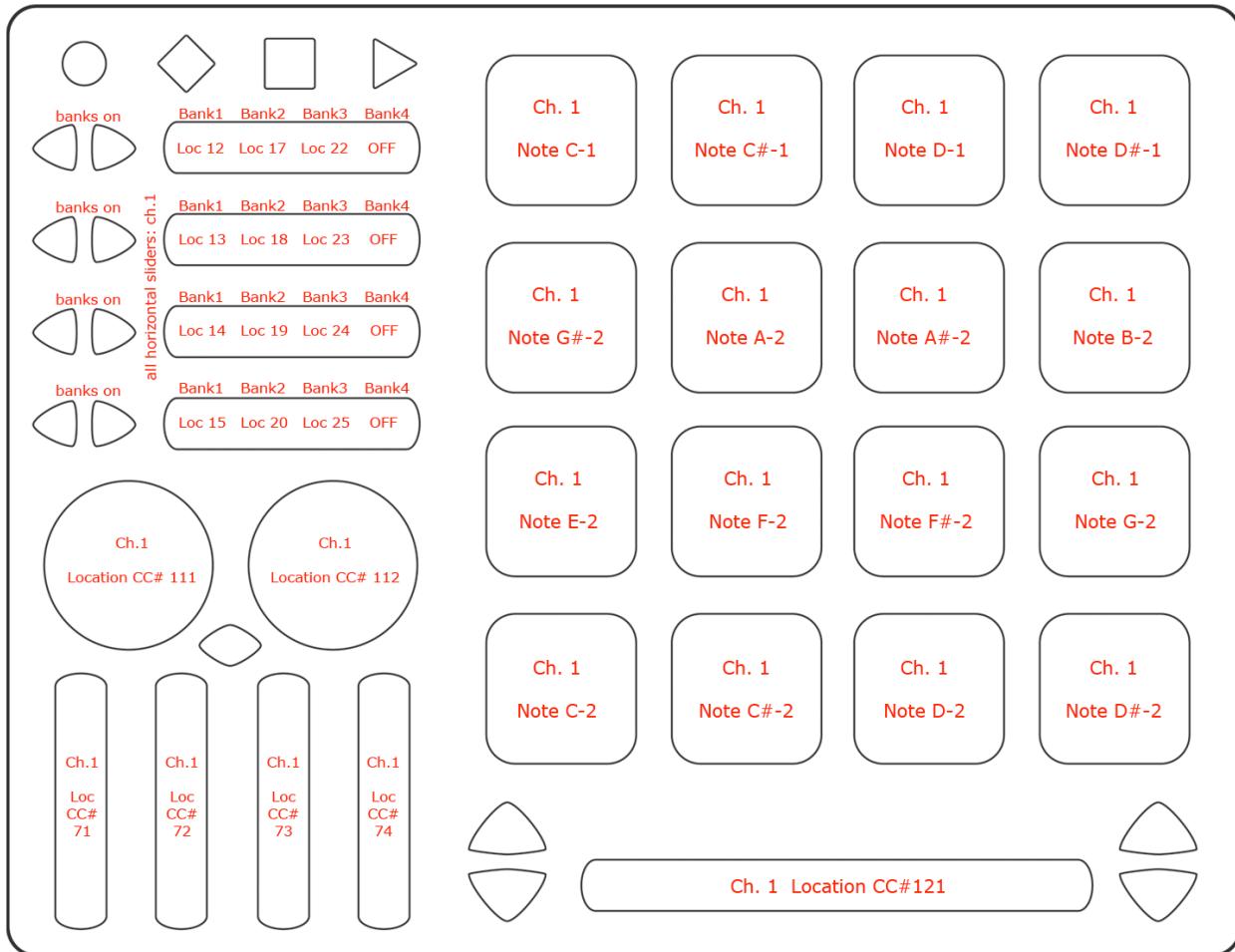
For more information about using the iMS-20 Template read the iMS-20 Template Quickstart document included in the QuNeo Software Template Installer.

Preset 16 (BeatMaker - iPad):

Below is an image showing how the QuNeo is mapped to BeatMaker's controls in factory preset #16. Each pad is in Drum Mode and outputs a MIDI note to trigger one of BeatMaker's drum pads. The vertical sliders each output a location CC to control the volume for tracks 1-4 in BeatMaker. The horizontal sliders are set up to control the first four sliders on the currently selected track's effects. Using the bank buttons next to the horizontal sliders you can access control for all three of a track's effects (bank four has nothing set as there are a maximum of three effects per track). The left rotary is mapped to filter cutoff frequency and the right rotary is mapped to filter resonance. The long slider controls a track's filter key.



This image shows what MIDI data will output for each sensor in the "BeatMaker - iPad" preset. In this preset the Pads use Drum Mode. Banks are enabled only for the Horizontal Sliders. Rotaries are set to use Location instead of Direction. Pass Thru Widths for the rotaries are set to 127. Velocity response is variable for all notes. All Pressure sources send out continuous CC values.



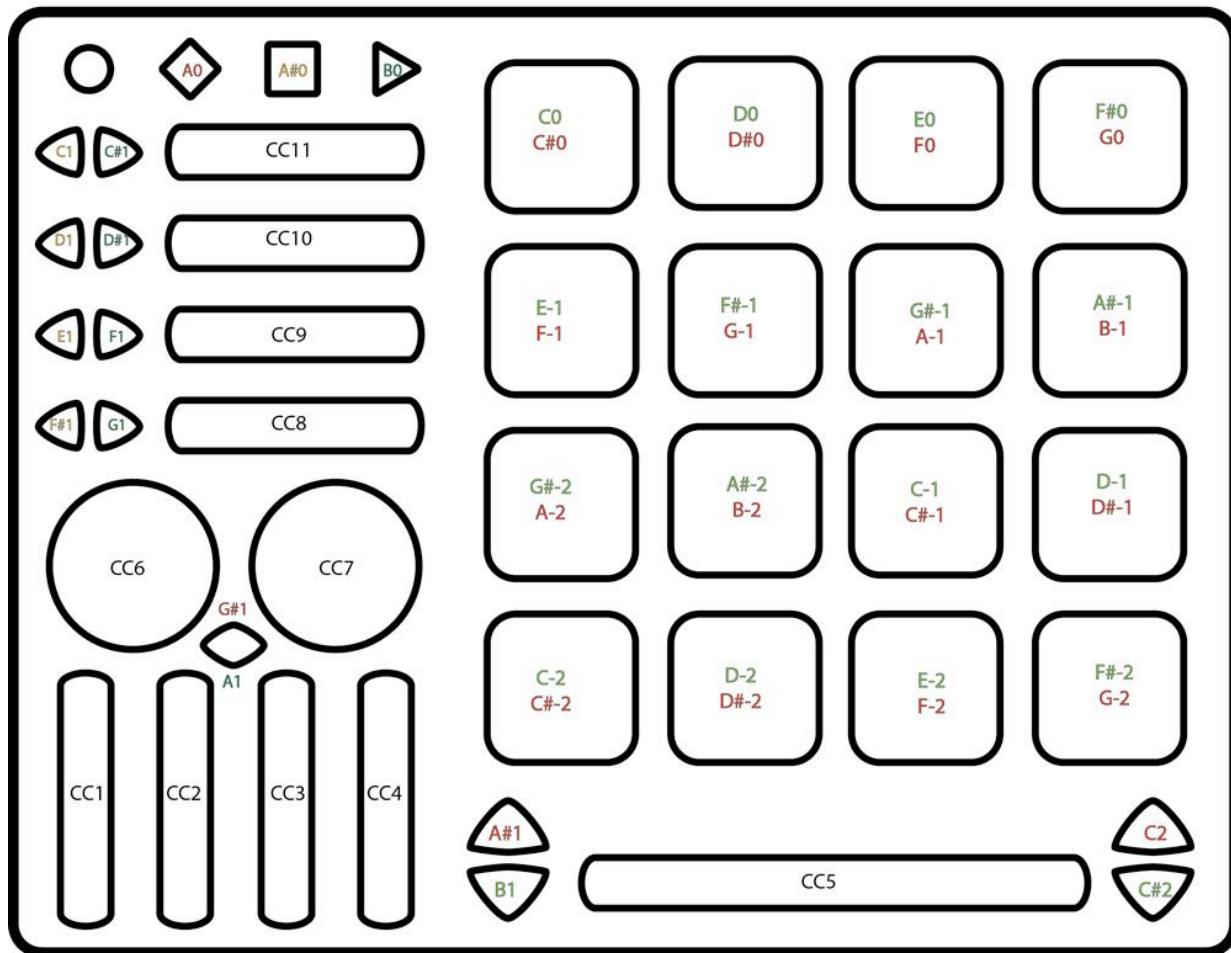
For more information about using the BeatMaker Template read the BeatMaker Template Quickstart document included in the QuNeo Software Template Installer.

MIDI Input

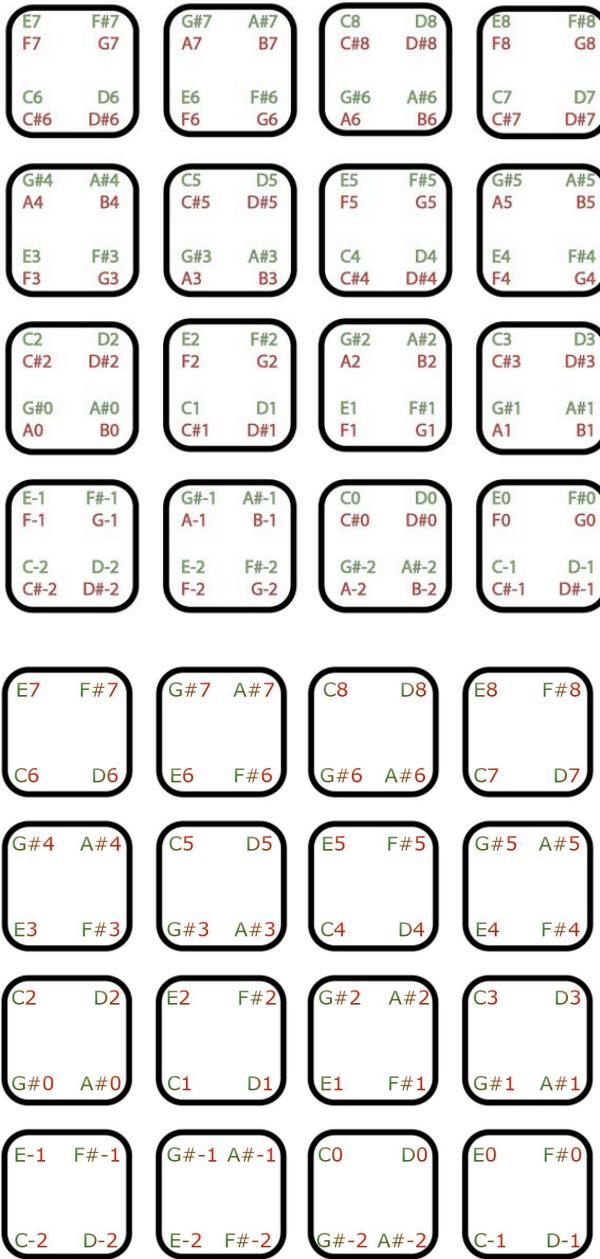
Use the MIDI Input guides below to find out what MIDI data to send the QuNeo to control the LEDs remotely. See the Remote LED Control chapter of the Full manual for more information.

Drum Mode - All presets use **Channel 1** as the default LED channel for Pads in drum mode and all other sensor types:

QuNeo Drum Mode LED Map. All factory presets default to Channel 1



Grid Mode:



All presets use **Channel 2** as the default LED channel for Pads in grid mode. The Image to the left shows which note numbers control each individual LED.

It is also possible to use 1 note per corner. In this case the velocity of the note will fade the LEDs from green to red. All presets use **Channel 3** for this behavior.

Note Name to Note Number Reference

Keith McMillen Instruments uses the C3 = 60 standard for note naming/numbering. Below is a chart that can help with converting note numbers to note names and vice-versa.

C3 = 60

Octave	Note Numbers											
	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
-2	0	1	2	3	4	5	6	7	8	9	10	11
-1	12	13	14	15	16	17	18	19	20	21	22	23
0	24	25	26	27	28	29	30	31	32	33	34	35
1	36	37	38	39	40	41	42	43	44	45	46	47
2	48	49	50	51	52	53	54	55	56	57	58	59
3	60	61	62	63	64	65	66	67	68	69	70	71
4	72	73	74	75	76	77	78	79	80	81	82	83
5	84	85	86	87	88	89	90	91	92	93	94	95
6	96	97	98	99	100	101	102	103	104	105	106	107
7	108	109	110	111	112	113	114	115	116	117	118	119
8	120	121	122	123	124	125	126	127				

Safety Precautions



This product may contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Medical Devices

QuNeo may emit electromagnetic fields. These electromagnetic fields may interfere with pacemakers or other medical devices. If you wear a pacemaker, maintain at least 6 inches (approximately 15 cm) of separation between your pacemaker and QuNeo. If you suspect QuNeo is interfering with your pacemaker or any other medical device, stop using QuNeo and consult your physician for information specific to your medical device.

Medical Conditions

If you have any medical condition that you believe could be affected by QuNeo (for example, seizures, blackouts, eyestrain, or headaches), consult with your physician prior to using QuNeo.

Explosive Atmospheres

Do not use QuNeo in any area with a potentially explosive atmosphere, such as at a fueling area, or in areas where the air contains chemicals or particles (such as grain, dust, or metal powders). Obey all signs and instructions.

Repetitive Motion

When you perform repetitive activities such as playing the keyboard on QuNeo, you may experience occasional discomfort in your hands, arms, wrists, shoulders, neck, or other parts of your body. If you experience discomfort, stop using QuNeo and consult a physician.

High-Consequence Activities

QuNeo is not intended for use where the failure of the device could lead to death, personal injury, or severe environmental damage.

Choking Hazard

Some QuNeo accessories may present a choking hazard to small children. Keep these accessories away from small children.