

Ableton Live Remote Control Template Quickstart Guide

December 2013

INTRODUCTION

Our Ableton Live template consists of an Ableton Live Remote Control Surface map created with Python. The Remote Control Surface map goes with QuNeo's factory preset number 9 and 10. This turns QuNeo into a full-fledged Ableton Live remote control for DJing, producing and performing. The preset is a custom design to control various Ableton Live functions. In addition, this preset contains a shift button that acts as a mode selector.

To use the QuNeo Remote Control Surface for Ableton Live you must have one of the following versions of Ableton Live installed on your computer: Ableton Live 8 Intro, Ableton Live 8, Ableton Live 8 Suite, Ableton Live 9 Intro, Ableton Live 9, or Ableton Live 9 Suite. Go to <http://www.ableton.com/products> to purchase or learn more about Ableton Live.

To Install the Template:

Inside the "Installation Files" folder there will be a Live8 folder and a Live9 folder. Choose the version of Ableton that you use (the Live 8 scripts are also compatible with Live 7). Inside that folder there will be a "QuNeo" folder.

Follow these steps to manually place the folders:

Mac:

1. Locate your Ableton Live application (must be original – not an alias or shortcut):
 - a. If your Ableton Live version is **pre 8.3**: "Applications/Live [version]/Live.app"
 - b. If your Ableton Live version is **8.3 and up**: "Applications/AbletonLive [version].app"
2. Ctrl-click on the .app file and go to "Show Package Contents"
3. Now go into the "/Contents/App-Resources/MIDI Remote Scripts/" folder
4. Paste the "QuNeo" folder into the "MIDI Remote Scripts" folder.

Windows:

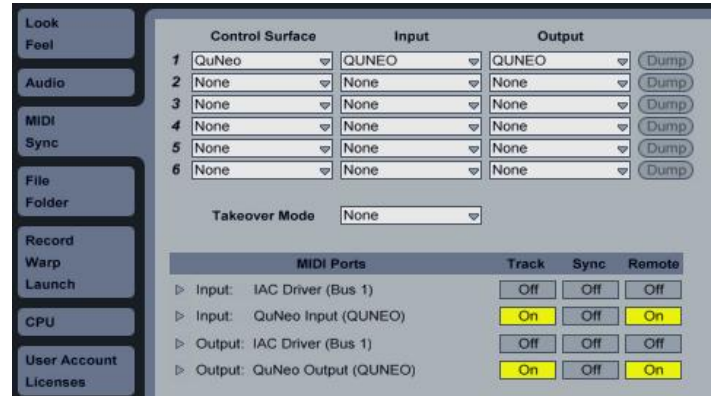
1. Locate Ableton Live's "MIDI Remote Scripts" folder:
 - a. On **Windows XP**:
 - i. If your Ableton Live version is **pre 8.3**: "C:/Program Files/Ableton/Live [version]/Resources/MIDI Remote Scripts"
 - ii. If your Ableton Live version is **8.3 and up**: "C:/Documents and Settings/All Users/Application Data/Ableton/Live [version]/Resources/MIDI Remote Scripts"
 - b. On **Windows7**:
 - i. If your Ableton Live version is **pre 8.3**: "C:/Program Files (x86)/Ableton/Live [version]/Resources/MIDI Remote Scripts"
 - ii. If your Ableton Live version is **8.3 and up**: "C:/ProgramData/Ableton/Live [version]/Resources/MIDI Remote Scripts"
2. Paste the "QuNeo" folder into the "MIDI Remote Scripts" folder.

Note to Windows 7 users: The “ProgramData” folder is hidden. To find it, go to “Control Panel”, then to “Appearance and Personalization”. Find “Folder Options” and click on where it says, “Show hidden files and folders”. A window will pop up. Under the “Hidden files and folders” label, click “Show hidden files, folders, and drives”. Now press “apply” and you should be able to find the “Program Data” folder. After copying the installation files into their proper locations you go back to Folder Options and click “Don’t show hidden files, folders, or drives”.

To use the Template:

- 1 Connect the QuNeo to your computer and launch: Ableton Live 8 Intro, Ableton Live 8 or Ableton Live 8 Suite.
- 2 On your QuNeo select factory Preset 9 or 10.

- 3 In Live’s menu bar, go to “Live” then “Preferences...” (**Mac**) or “Options” then “Preferences...” (**Windows**).
- 4 From the list on the left side of the preferences window, select “MIDI / Sync”.
- 5 In the Control Surface area at the top of the window. Select QuNeo from the first dropdown menu in column one from one of the six selectable Control Surfaces. The QuNeo should light.



- 6 Make sure “QUNEO” is selected as your “Input” and “Output”.
- 7 In the lower portion of the MIDI / Sync window select the following:
 - a MIDI Ports: QuNeo Input (QUNEO) Track On and Remote On
 - b MIDI Ports: QuNeo Output (QUNEO) Track On and Remote On
- 8 Close the Preferences window.
- 9 Open the Ableton Live Project “QuNeo Demo” (located in the “Ableton Live 1.0” folder within the QuNeo Software Templates Directory, which defaults to “Applications” on **Mac** and the “C:” drive on **Windows**).

How the Template Works:

QuNeo Preset 9 “Ableton Live Clip Launching”:

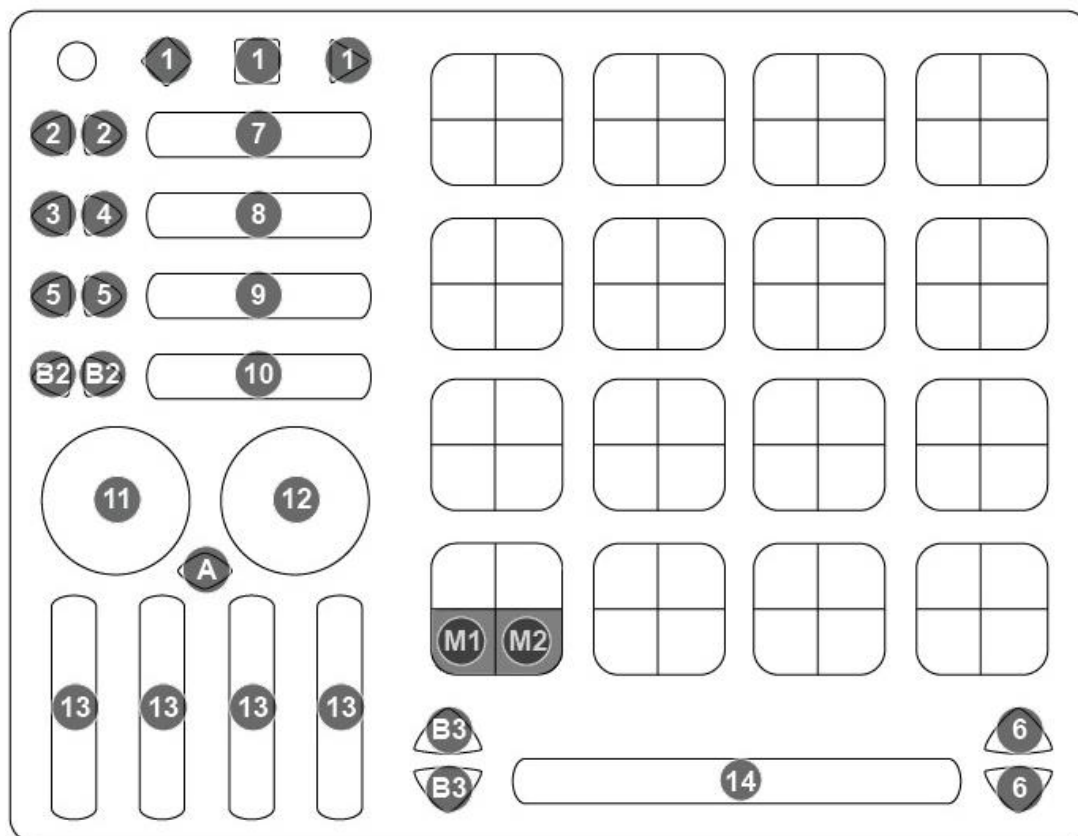
The QuNeo Ableton Live Remote Control Surface contains a variety of **Modes**. **Modes** remap the 8x8 Grid and non Global Buttons into various functions for Ableton Live. **Modes** include Clip Launch, Step Sequencer, Note Mode and User Modes.

When the Ableton Live Remote Control Surface is loaded it initializes **Mode 1 (M1)**.

A. 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**.

B. SHIFT MODE - The Shift Page allows the user to select a **MODE** using the 8 bottom row buttons on the 8x8 Grid. When a **MODE** button is selected the selected **MODE** is engaged.

A. MODE SELECTOR PAGE



MODES

M1. CLIP LAUNCH MODE

M2. STEP SEQUENCER MODE

GLOBAL CONTROLS

- 1. TRANSPORT** - 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. SCENE NAVIGATION** - Move up or down from the selected scene to the next within a selected track
- 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. SELECTED CLIP LOOP START** - Adjust the selected track Loop Start
- 12. SELECTED CLIP LOOP END** - Adjust the selected track Loop End
- 13. VOLUME FADERS** - This controls Live's first four volume faders within the highlighted bounding box
- 14. CROSSFADER** - This controls Live's crossfader.

MODES

M1. CLIP LAUNCH MODE

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. The LEDs will behave as follows:

- **OFF** - empty
- **GREEN** - clip present, playing
- **ORANGE** - clip present, not playing
- **RED** - clip present, recording

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.

- **OFF** - Mute On
- **GREEN** - Mute Off

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

- **OFF** - Solo Off
- **ORANGE** - Solo On

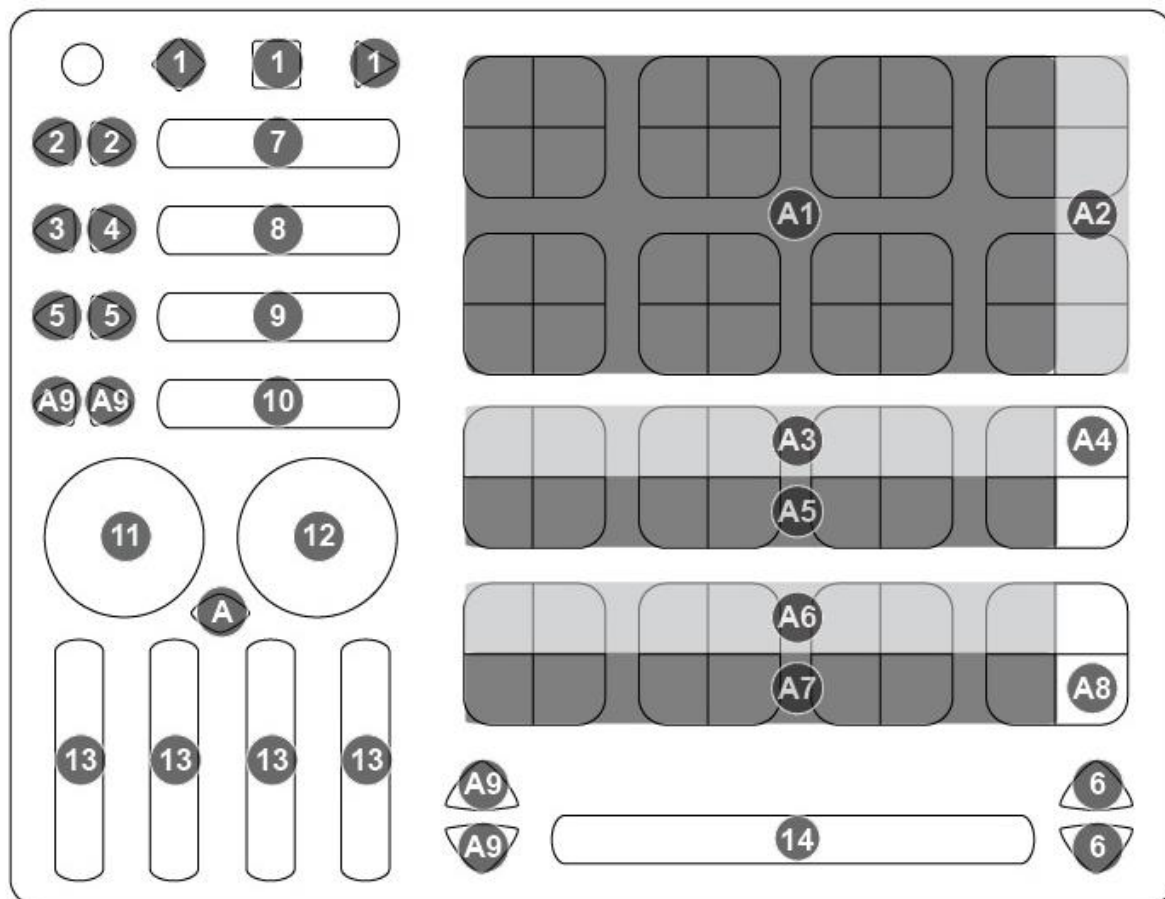
A7. RECORD ARM - Active this button to Arm the track, or deactivate it to unarm the track.

- **OFF** - Record Unarmed
- **ORANGE** - Record Armed

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

M1. CLIP LAUNCH MODE



M2. STEP SEQUENCER MODE

B1. NOTE INPUT - Step Sequencer Mode allows the user to access and input midi notes by 16th note division. The Rows in the QuNeo 8x8 grid represent the notes in the piano roll starting at note C1 as the bottom row through the top row to note G1. The columns represent 16th notes location. If a selected MIDI Clip is available within a selected Midi or Instrument Track:

- **OFF** - Note Off
- **GREEN** - Note On

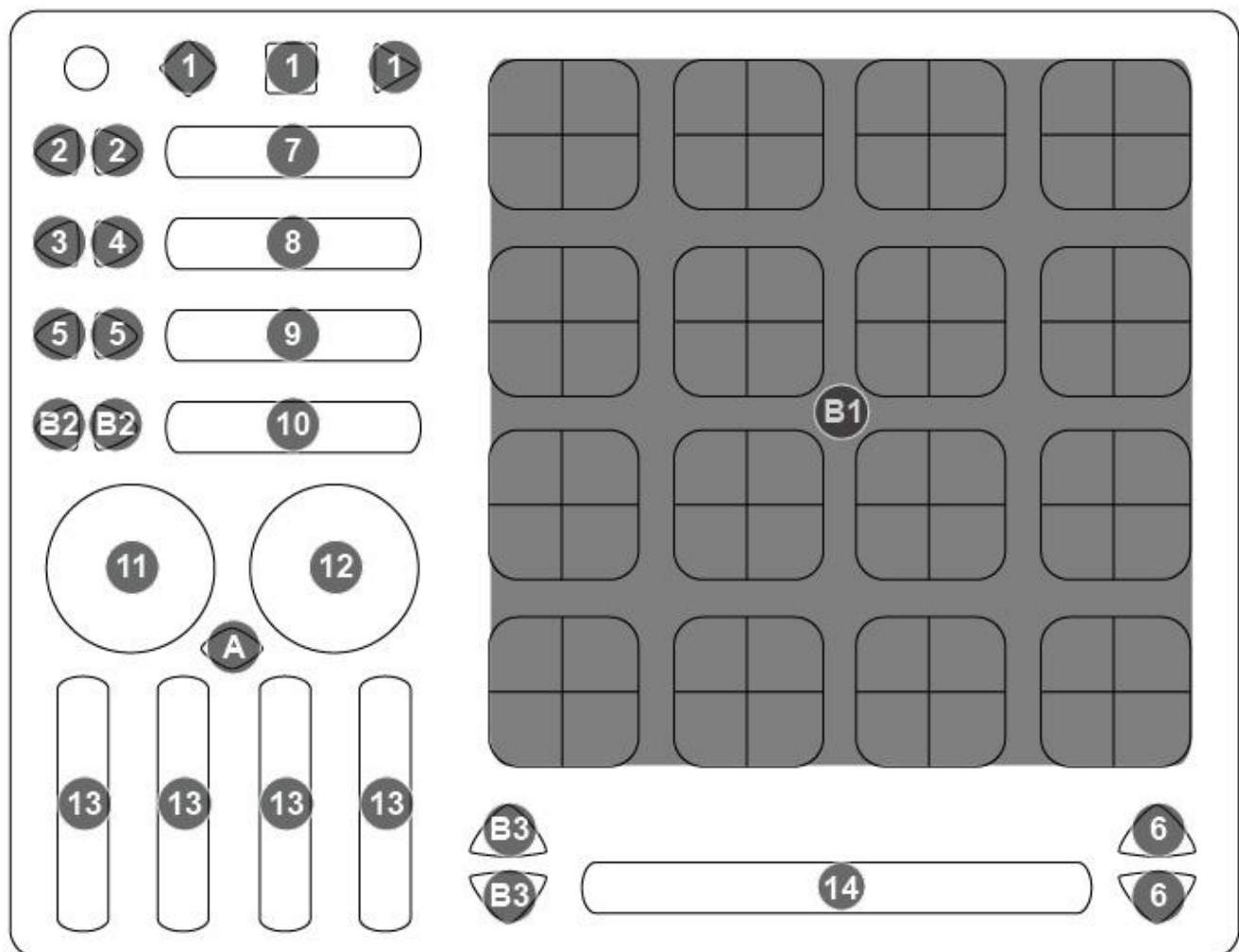
B2. SEQ MEASURE OFFSET - Allows you to move the position of the step sequencer by half a measure to the left or right of your current position.

B3. SEQ NOTE OFFSET - Allows you to scroll the up and down in the piano roll editor to offset the note input every 7 notes.

Impulse - The Step Sequencers rows represent each sample within the selected "Impulse" instrument.

Drum Rack - The Step Sequencers bottom row starts at Note C1-Note G2 as the top Note.

M2. STEP SEQUENCER MODE

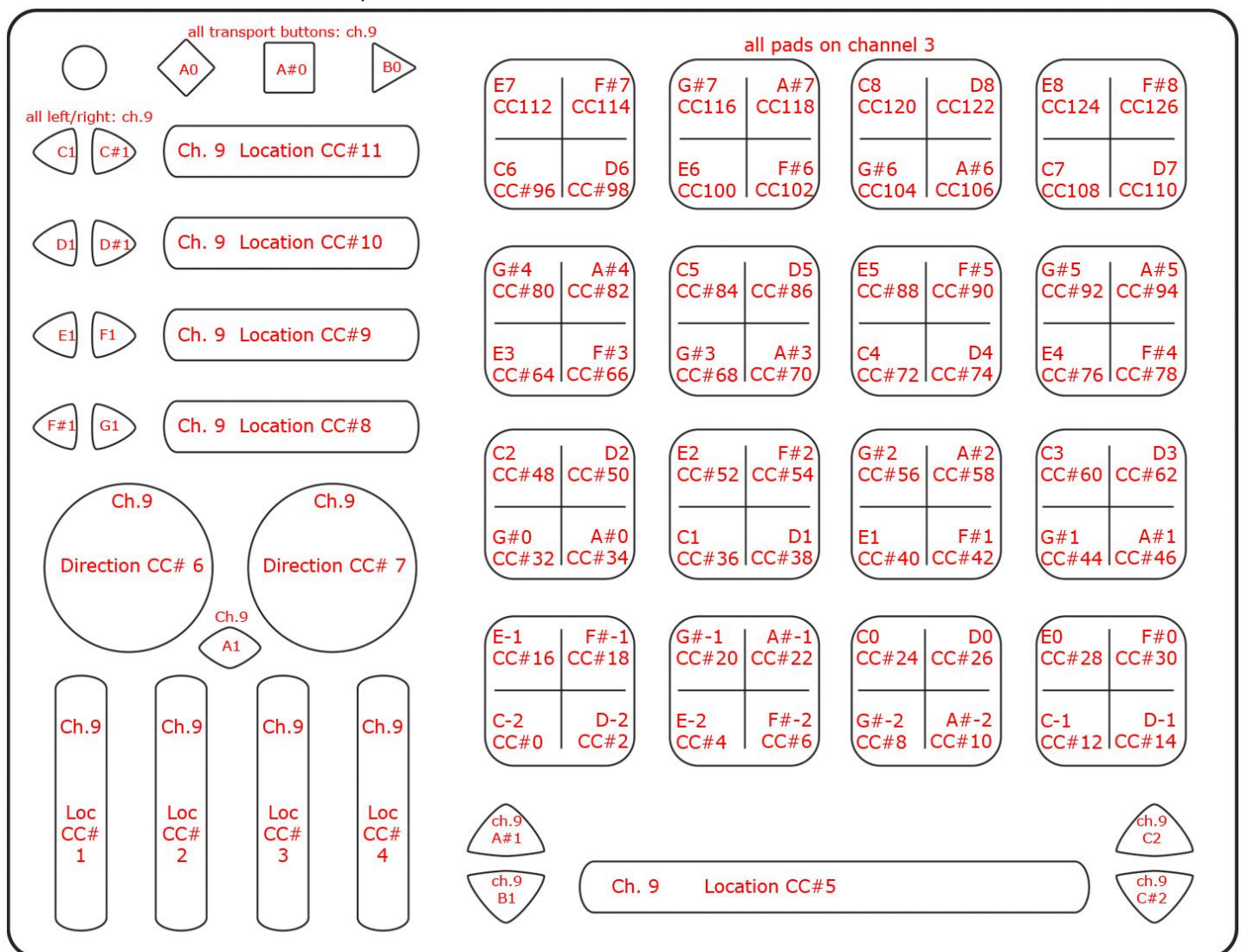


NOTE MODE

Note Mode allows the user to input notes like any standard MIDI controller. If an Instrument or MIDI track is armed, the user can input and record notes with Note Mode. Use the first 4 QuNeo presets to access a range of notes on the Pads from C1-D#6. Return to the Ableton Live presets (9 or 10) to continue using the Ableton Live Template in other modes.

MIDI Output diagram for QuNeo preset 9:

This image shows what MIDI data will output for each sensor in the “Ableton Live Clip Launching” 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.



QuNeo Preset 10 "Ableton Live Drum Rack":

GLOBAL CONTROLS

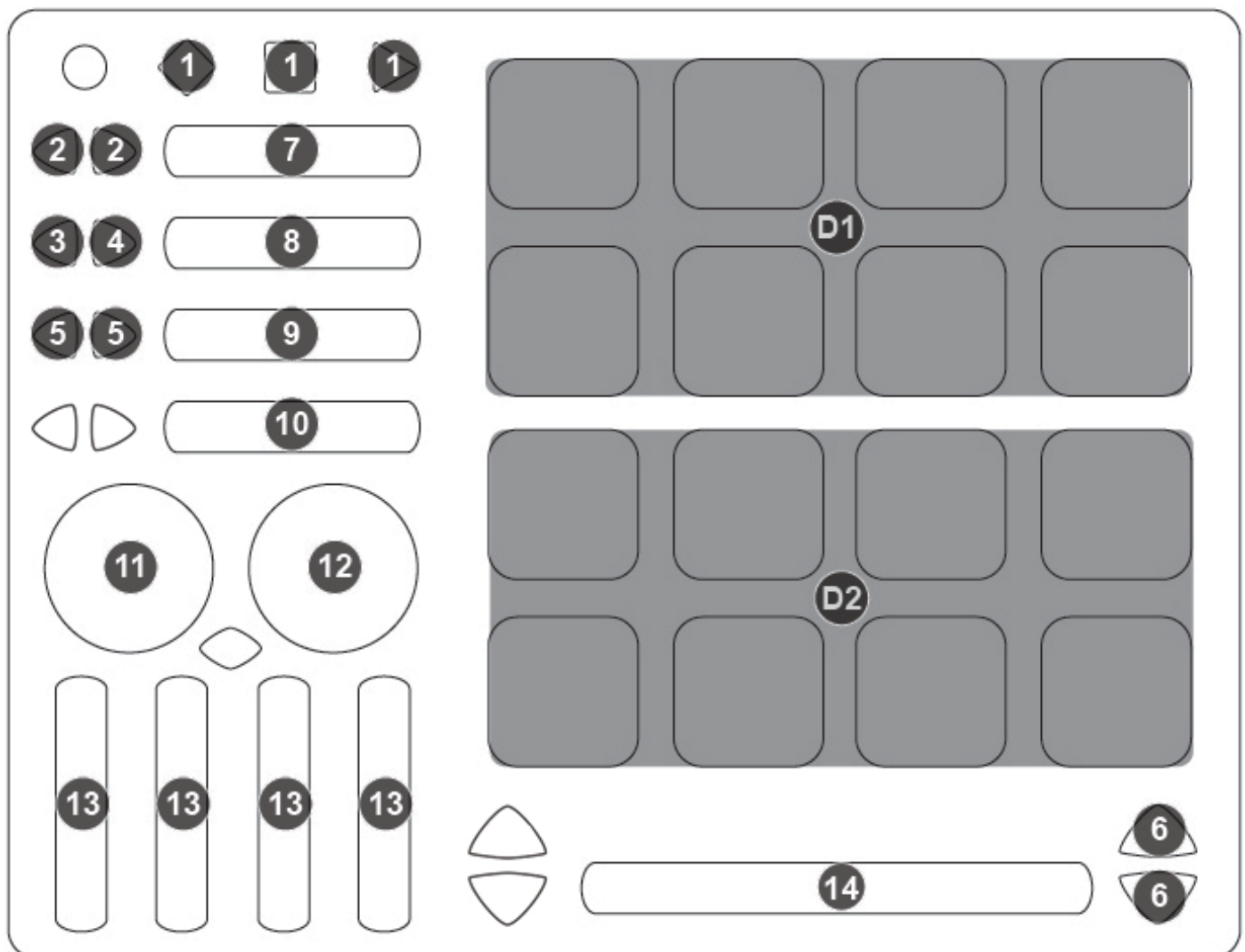
1. **TRANSPORT** - The Record, Stop, and Play buttons correspond to the Transport Controls within Live
2. **TEMPO** - LEFT ARROW steps the tempo down 1.0 BPM. RIGHT ARROW steps the tempo up 1.0 BPM
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13. **VOLUME FADERS** - This controls Live's first four volume faders within the highlighted bounding box
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Preset 10

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

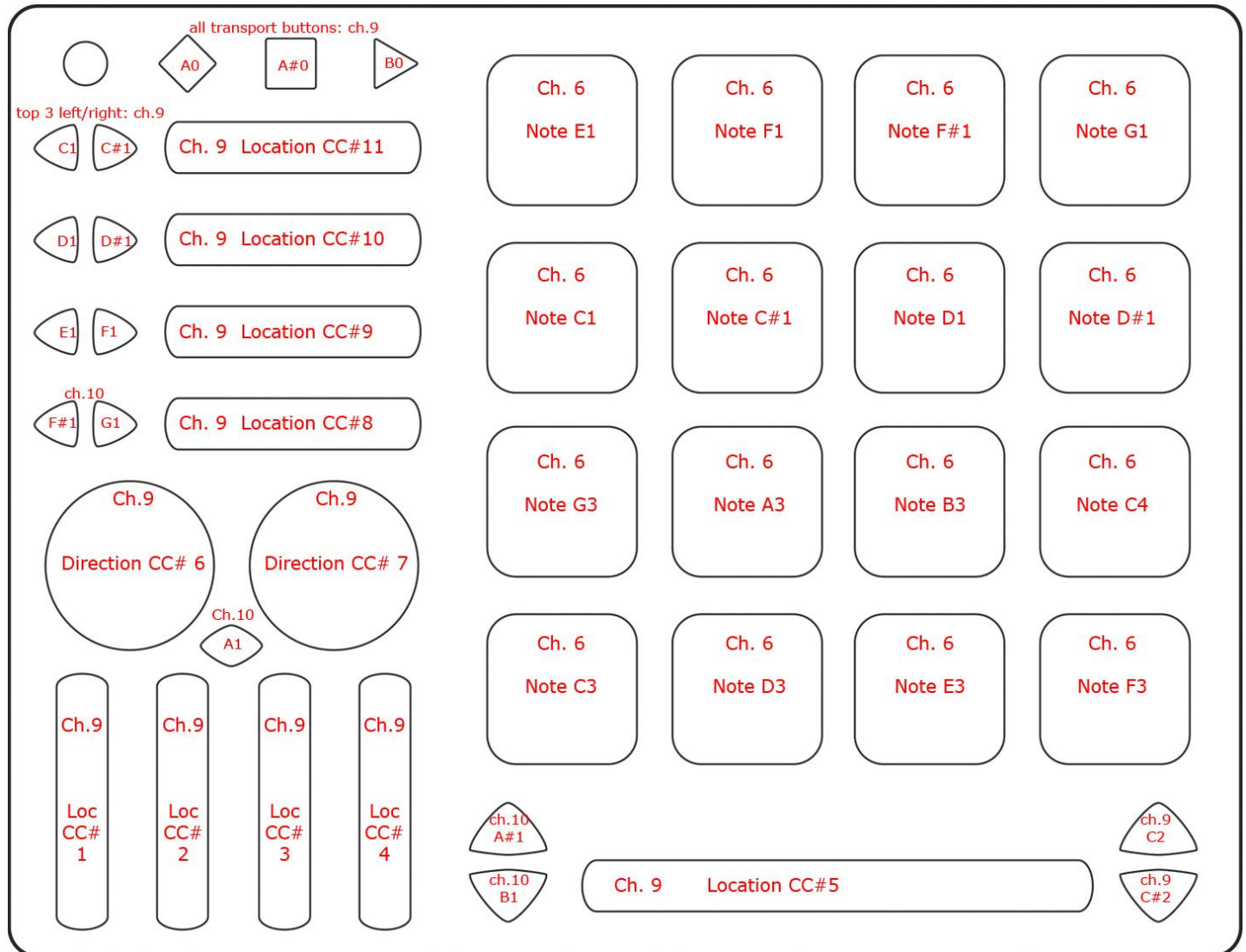
D2. Impulse - These Pads are assigned to Impulses 8 Sample cells.

PRESET 10 - DRUM MODE



MIDI Output diagram for QuNeo preset 10:

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.



TROUBLESHOOTING:

If certain controls on QuNeo aren't working as expected in Ableton Live...

Make sure to plug QuNeo in BEFORE opening Ableton Live or after plugging QuNeo in make sure to re-select QuNeo as the MIDI Control Surface in Ableton Live's MIDI Preferences.