

CTRL4 & CTRL8

MIDI Control for the Griffin PowerMate + PureData

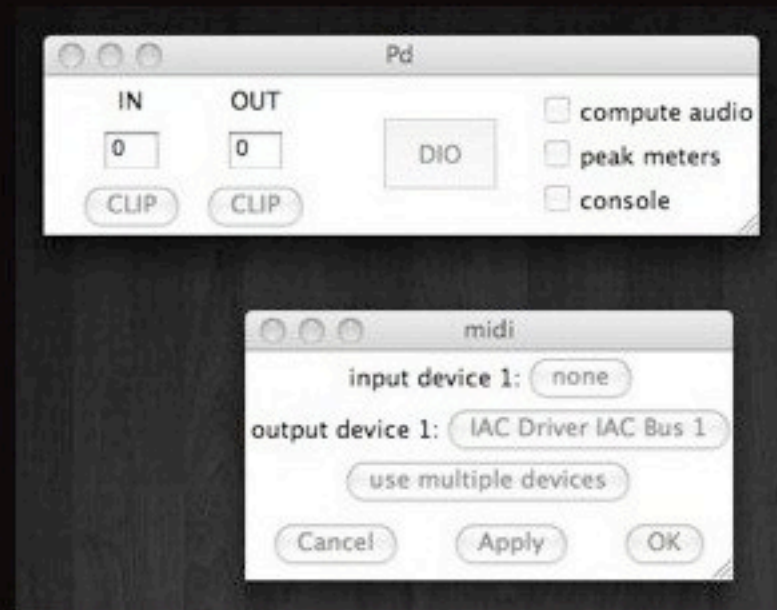
setup notes

1. set up the PowerMate in the OSX control panel as shown below



note: the control panel makes it look like the letters are in caps. they should be assigned as lower-case letters. also note that the repeat rate is cranked to 10 for each control.

2. open PureData and go to PureData Extended - Preferences - MIDI settings. For Mac OSX, select the IAC driver for MIDI output, assuming you plan to send your control data to other software, such as Ableton Live.



CTRL4 is designed to respond to turning the PowerMate, or pressing and turning the PowerMate. There are four "channels" of controls.

The image shows two windows from a Pure Data patch. The top window is titled 'Pd' and contains 'IN' and 'OUT' meters with '0' values, 'CLIP' buttons, a 'DIO' button, and checkboxes for 'compute audio', 'peak meters', and 'console'. The bottom window is titled 'PowerMate_CTRL4_v1_d' and contains a sub-window 'PowerMate CTRL4 v1'. This sub-window has a 'midi cc:' label, four pairs of vertical faders labeled with MIDI CC numbers (42 43, 44 45, 46 47, 48 49), an 'off' label, and a row of five buttons labeled '~', '1', '2', '3', and '4'. Annotations with orange arrows point to these elements: one arrow points to the MIDI CC numbers 42 43; another points to the second pair of faders; a third points to the '1' button; and a fourth points to the MIDI CC numbers 44 45.

These numbers tell you what MIDI CC parameters are being sent

Turning the PowerMate will affect the first fader

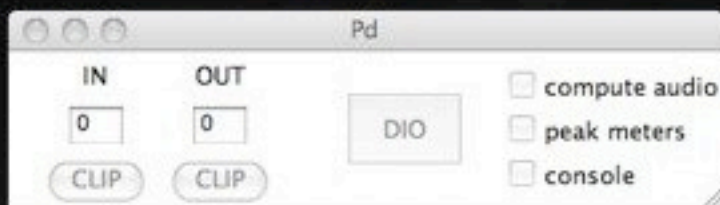
Pressing and turning will affect the second fader

Note that the second fader sends a lower "resolution" of data than the first.

Values sent jump in groups of 5, to prevent twisting one's wrist in strange ways to travel the full 0-128 range of data.

Pressing 1, 2, 3 or 4 will select which "channel" is active. Pressing the ` or ~ key will select no channel, and will send no data when the PowerMate is turned or pressed.

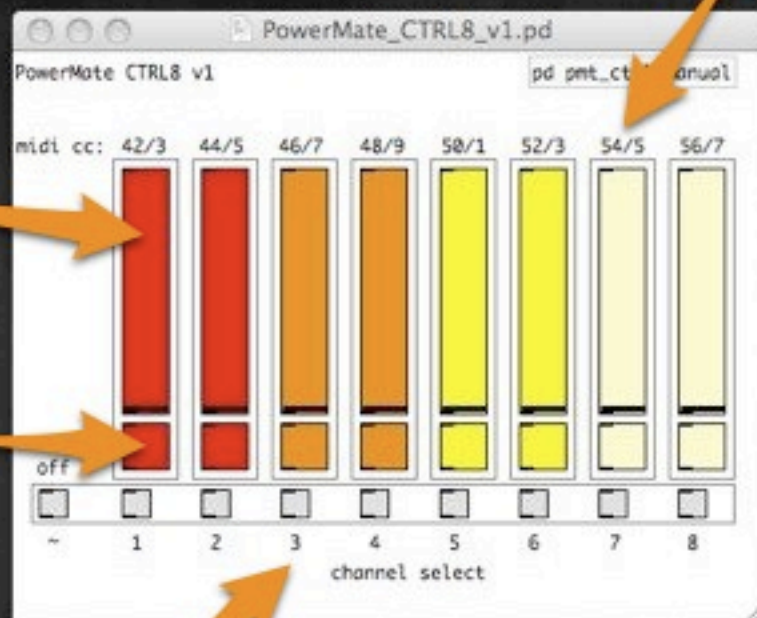
CTRL8 is designed to respond to turning the PowerMate, or pressing (but not pressing + turning, like CTRL4). There are 8 "channels" of controls.



These numbers tell you what MIDI CC parameters are being sent. For the first channel, the fader sends CC42, and the toggle sends 1 or 127 on CC43.

Turning the PowerMate will affect the selected "channel" fader

Pressing the PowerMate will activate or deactivate the "toggle" box.



Pressing 1 through 8 on the keyboard will select which channel is active for the PowerMate. Pressing the ` or ~ key will select no channel. The PowerMate will send no data when it is turned or pressed.