



## modules for VCV Rack





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## Poly XBender

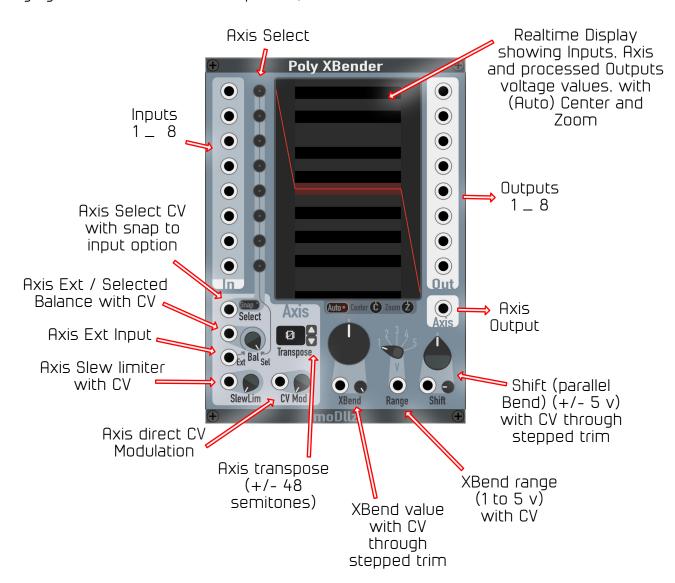
## **Multi Signal Axis Modulator**

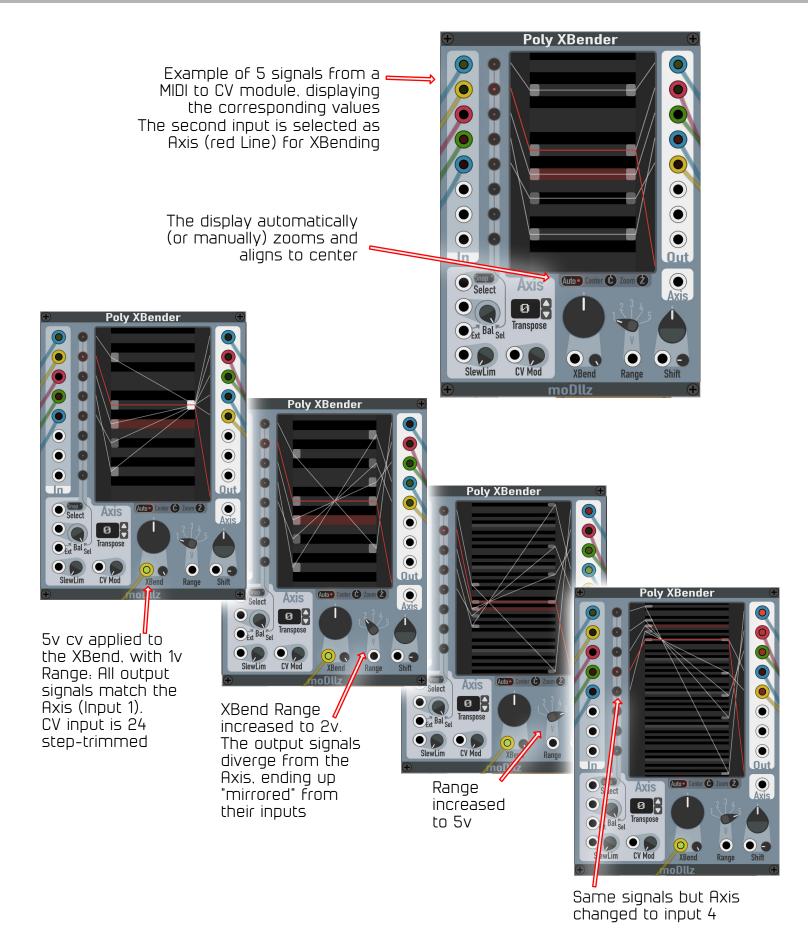
In this module all the input signals are processed according to an Axis signal and a XBend value. The XBend value is a factor of the difference between the Axis and the Input Signal.

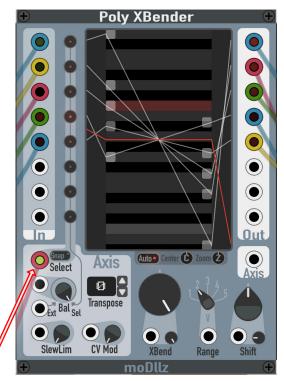
At 0 xBend there is no change. From >0 to <1 all signals converge to the Axis. At 1 all signals match the Axis. After that (XBend >1) the signals diverge from the Axis (they double their difference every 1v).

On negative XBend values the signals also diverge (to the other way) from the Axis doubling their difference every -1v.

The Axis can be selected from any of the inputs, or from a dedicated input (with balance mixing between the two options). It also can be modulated, transposed and slew-limited (gradually changing to its new value when updated)



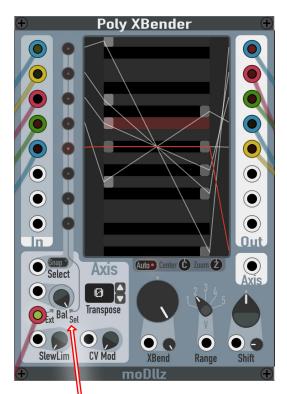




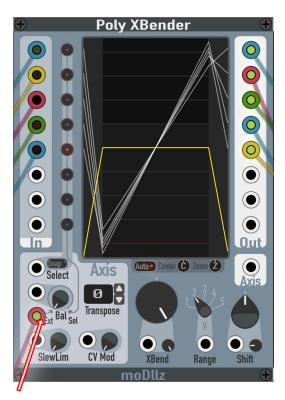
Axis can be selected from CV continuously (crossfading inputs) or snapped to inputs



Here the Axis Balance is close to 50% (Axis line color is blended accordingly)



Axis can be balanced (with Knob or CV) between Selected (from inputs) and External (from dedicated input)



Axis Balance at 100% External (Axis Line turns Yellow). External is 4v so outputs get stretched up. Autozoom zooms out.



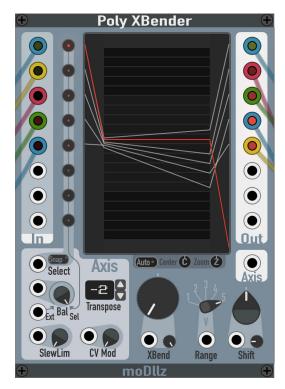
The Axis can be shifted with stepped Transpose and direct CV Modulation



Example of XBending to negative value (5v Range). The outputs diverge from the Axis (input 3)



Outputs can also be directly shifted (regular Pitch Bend) with dedicated Knob or CV with stepped trim



Example of full Zoom out to +/- 12v (Auto-Zoom off)