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## Appendix E: dmx input/output using the Enttec DMX usb pro

There is an add-on module to VPT 7 that lets you either control DMX equipment from VPT or use DMX to control VPT.

The module is made to support the Enttec DMX usb pro only, which can receive or send DMX, but not both at the same time.

It is based on the max object developed by [Olaf Matthes](#).

Windows users need to install [Virtual COM Port](#) drivers for FTDI chips to get the dmx interface to show up.

[Mac version](#)

[Windows version](#)

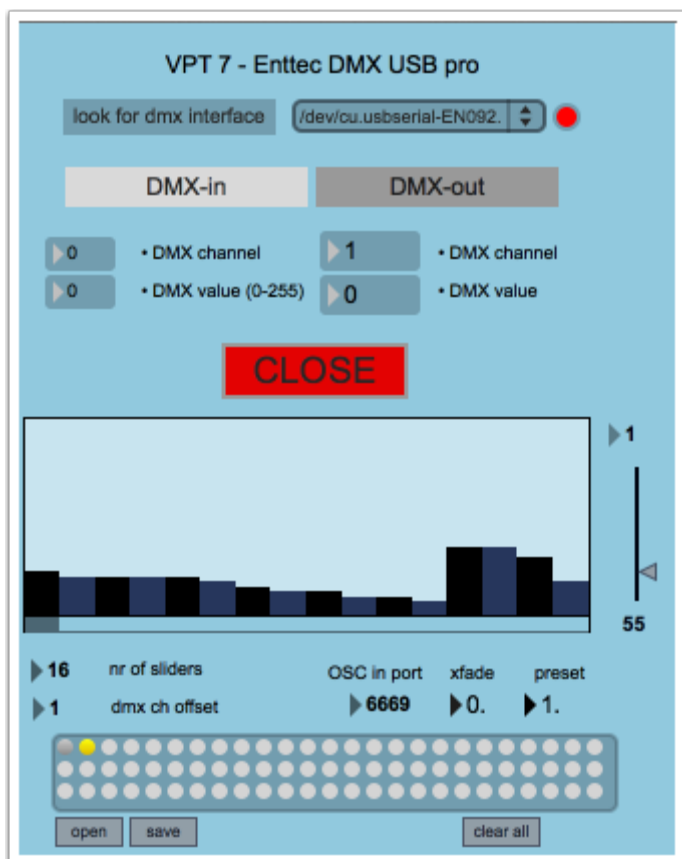
The DMX module can either be opened from inside VPT or from MAX Runtime.

If you don't see the interface listed in the menu, click on "look for dmx interface"

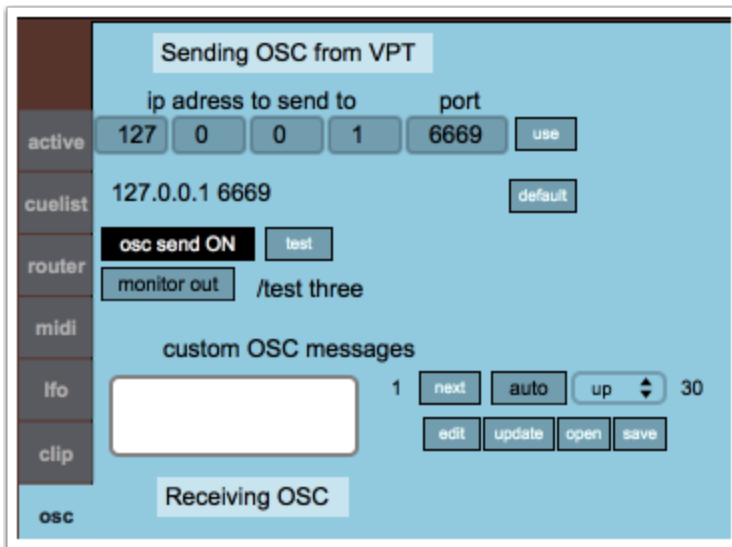
Sending DMX out

You need to make sure the module is set to sending DMX by clicking on the DMX-out button.

You can either send dmx values directly using the sliders. Slider values can be saved in presets by shift-clicking on the preset circles below the sliders. To retrieve a preset click on a circle. You will be asked to save your presets when you quit VPT (the module can't be closed by itself).



To use VPT to send DMX values out you need to set up OSC communication first. The default OSC in port for the DMX module is 6669. Make sure that the OSC out port in VPT matches the DMX port, and remember to activate "osc send ON".



You communicate with the dmx module from the cuelist, using the x command, which let's you send osc commands outside VPT itself.

The available commands are

/dmx/out dmxchan(normally 1-512) i (0-255)

this can either be a single dmx channel-value, or multiple dmx channels at once:

/dmx/out 1 255 2 30 3 0

/dmx/preset i

this triggers one of the presets you made in the dmx module

alternatively

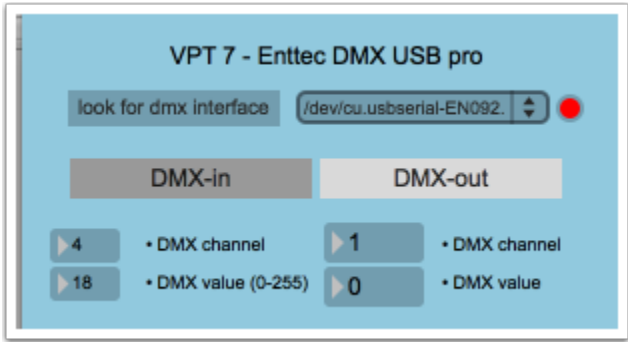
/dmx/preset i i let's you specify the infade time of the preset you want to activate (if xfade value hasn't been set before it might jump the first time instead of fading)

/dmx/preset 1 4. would fade in preset 1 in 4 seconds.

/dmx/xfade i let's you specify the xfade time in seconds.

cuelist	x /dmx/out 1 255
	x /dmx/preset 1
router	x /dmx/preset 1 4
	x /dmx/xfade 3

To use DMX to control VPT you need to make sure DMX-in is selected.



The incoming dmx values are treated like any other controller, so you set up the mapping of controllers to VPT parameters in the router section. So in the example below dmx channel 1 controls fade level of layer 3, dmx channel 3 controls fade level of layer 4

	ctrl-nr	destination		parameter		range (min-max)
active	▶ 1	layer	↕ ▶ 3	fade	↕ ▶ 0.	▶ 1.
	▶ 3	layer	↕ ▶ 4	fade	↕ ▶ 0.	▶ 1.
cuelist	▶ 3	OFF	↕ ▶ 0	—	↕ ▶ 0.	▶ 1.
router	▶ 4	OFF	↕ ▶ 0	—	↕ ▶ 0.	▶ 1.