

# VCV-1 TouchOSC Mk2 Template

Hexler recently release a major update to TouchOSC – TouchOSC Mk2. The full app now runs on all devices and platforms, and is both the editor and the controller. That makes it possible to create and edit a template on your main computer and use and edit it on your smartphone or tablet. Additionally, widgets in a template can have *Lua* scripts that run from an event-driven model for custom behaviors. Plus, unlike most hardware MIDI controllers, if the TouchOSC template is open on a device when a VCV Rack patch using Stoermelder’s MIDI-CAT is loaded, the controls on the device will be updated to match the patch settings!

Here is a simple, basic template for VCV Rack v1.x. To use it, install TouchOSC on your computer and other device (see [hexler.net](http://hexler.net) for details), then transfer the template to the other device and load the template. All controls in the template use MIDI control change messages (CCs). While there are default OSC messages assigned also, they have **not** been defined for specific use. The template was designed for a 10.5” iPad Pro but should work on other tablets with similar aspect ratios (not sure about smartphones).

The template includes five tabs – Mixer, Envelopes, Filters, Oscillators and General:

Mixer	basic setup to match the main controls of the <i>MindMeld MixMaster Jr</i> mixer module.
Envelopes	sliders for two ADSR style envelopes, including buttons for trigger and loop. The slide switch hides or shows the Decay and Sustain sliders for an AR style option (done with a small <i>Lua</i> script).
Filters	three basic sets of filter controls – frequency (cutoff), resonance and drive or gain (or whatever).
Oscillators	two tabs with eight rotaries each for use with oscillators.
General	a collection of potentially useful controls including eight rotaries, two horizontal sliders, five buttons (three momentary and two latching), an XY controller and a set of four transport related buttons.

The ZIP file contains the template, a LibreOffice spreadsheet with the CC assignments and a PDF of the template tabs with each of the controls labeled with the associated MIDI CC. There is also a sample VCV Rack patch with the mixer and a few other things assigned for checking out the template. Notes on the assignments are included in the patch file.