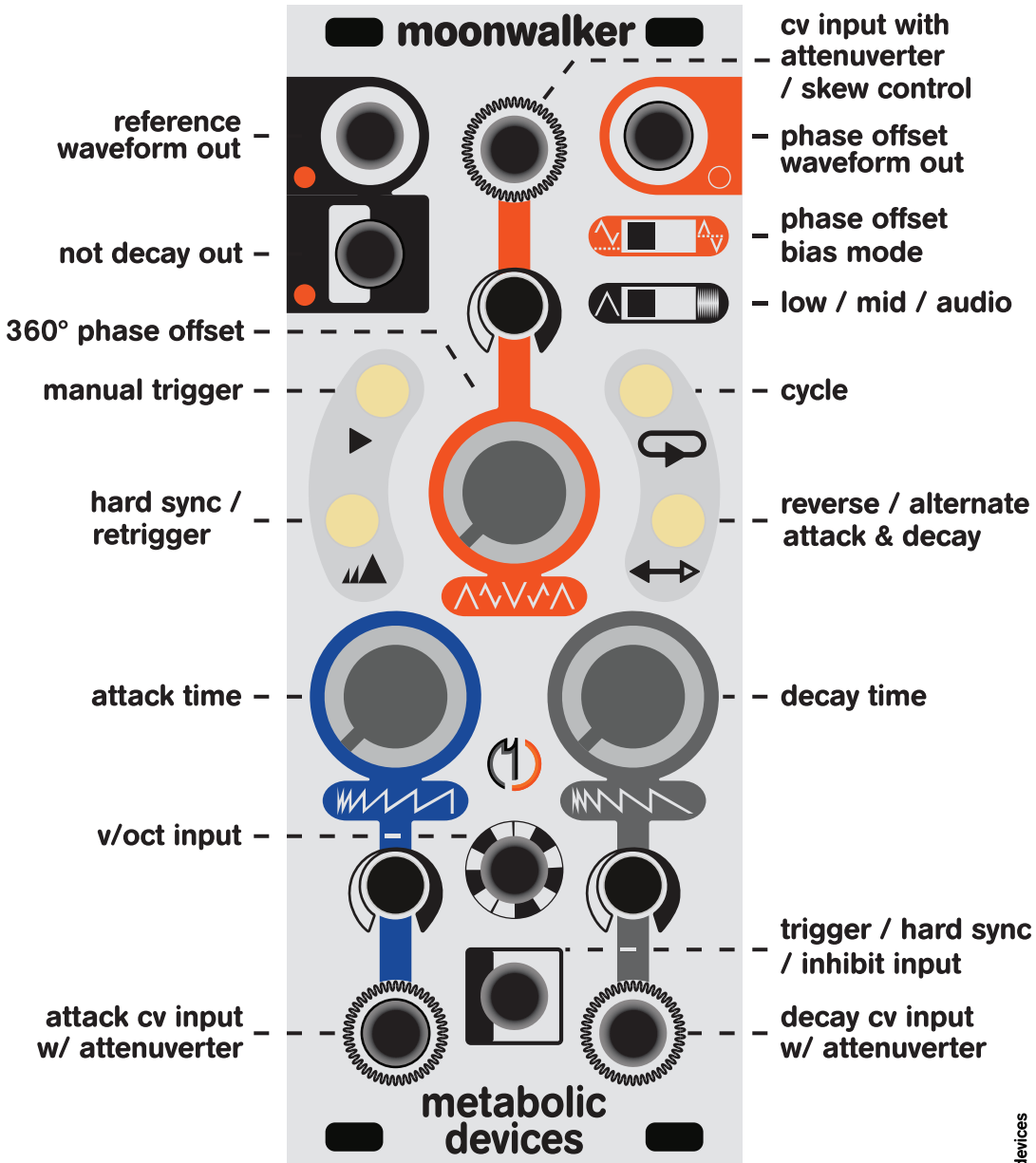


# metabolic devices



phase variable  
attack / decay generator

phase offset

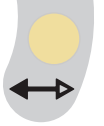


a short press reverses attack & decay

reference waveform



press and hold to alternate



buttons take effect on the next trigger/cycle so timing is preserved



not decay outputs +5v during attack and steady state

reference waveform



the timing of the attack shifts with the phase so pulse width modulation effects can occur when phase offset modulates



trigger input ignores additional triggers until cycle is finished unless hard sync / retrigger is enabled



when cycle is enabled and hard sync is disabled the waveform will be inhibited as long as this input is high

reference waveform



inhibit pulses



the offset output is half normalised to the phase offset cv input, so zero the attenuverter for normal operation

in unipolar mode with attack / decay equal, the attenuverter skews the shifted output from ramp to triangle to saw, without changing the frequency

