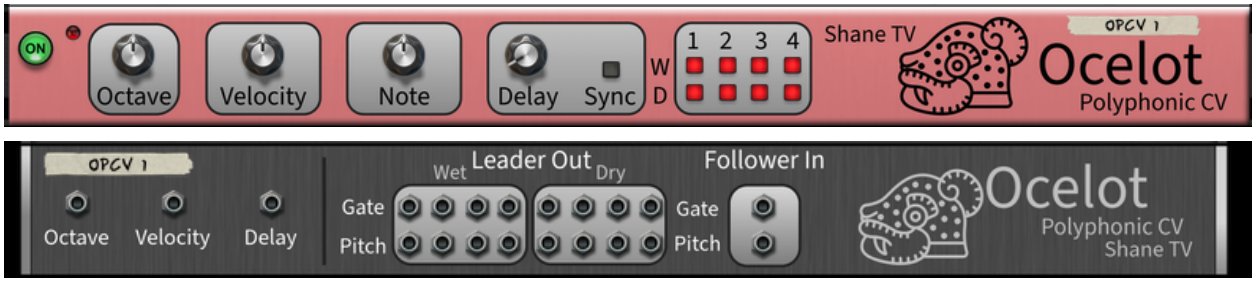
Ocelot: Operation Manual

Shane TV



General Purpose

Ocelot is a versatile, polyphonic MIDI and CV note processor designed to filter, shift, and delay note data within the Reason Rack. Operating as either a standalone Player device or a chained module within a PolyCV ecosystem (such as receiving chord data from Lynx and sending to a Lyra, Centauri, Ursa or any other player device), Ocelot dynamically shapes incoming performances. It has the ability to isolate specific voices from a chord—extracting just the bassline or the lead melody—while applying real-time octave shifting, velocity scaling, and precision note delays. Whether you need to extract a monophonic bass sequence from a complex polyphonic progression, offset a harmony part by a dotted-eighth note, or daisy-chain multiple Ocelots together via PolyCV for intricate modular routing, this device acts as the ultimate utility for connecting your track.

Front Panel Controls

- **Power Button:** Enables or bypasses the device. When turned off, Ocelot ignores its front-panel settings and passes incoming standard MIDI notes through completely unmodified.
- **Note Lamp:** A visual activity indicator that lights up whenever active notes (velocity > 0) are currently being processed and transmitted by the device.
- **Note Knob:** Determines which notes from your input are allowed to pass through the device.
    - **Bass:** Filters out all notes except the lowest pitch currently being held.
    - **Chord:** Polyphonic mode; passes all currently held notes through simultaneously.
    - **Lead:** Filters out all notes except the highest pitch currently being held.
- **Octave Knob:** Shifts the pitch of all outputted notes in strict octave increments. The range allows for sweeping from -3 octaves down to +3 octaves up.

- **Velocity Knob:** A bipolar offset control that scales the velocity of incoming notes. You can subtract up to 64 or add up to 63 to the original velocity values (hard-capped at a minimum of 1 and a maximum of 127).
- **Sync Button:** Toggles the behavior of the Delay circuit between free-running milliseconds (Sync Off) and tempo-synced musical subdivisions (Sync On).
- **Delay Knob:** Delays the transmission of incoming notes.
    - *When Sync is OFF:* Operates as a smooth analog-style dial, delaying notes from 0 to 500 milliseconds.
    - *When Sync is ON:* Operates as a stepped selector, offering 12 distinct tempo-synced subdivisions ranging from 1/4 notes down to 1/64 notes, including triplet (T) and dotted (D) variations.
- **W1, W2, W3, W4**: Toggle on and off the wet CV outputs on the back of the device. These outputs are affected by Octave Velocity, Note, and Delay
- **D1, D2, D3, D4**: Toggle on and off the dry CV outputs on the back of the device. These outputs are not affected by Octave Velocity, Note, and Delay, and are instead bypassed through the device as the original signal

Back Panel Connections

Modulation Inputs These bipolar CV inputs allow you to modulate Ocelot's front-panel parameters using external LFOs, envelopes, or sequencers.

- **Octave CV In:** Dynamically shifts the current Octave knob setting.
- **Velocity CV In:** Modulates the Velocity offset, allowing for expressive, evolving dynamic changes.
- **Delay CV In:** Modulates the Delay time. If Sync is OFF, this sweeps the delay smoothly in milliseconds. If Sync is ON, this CV signal will mathematically step through the 12 synced subdivisions (e.g., modulating from a 1/8 note to a 1/16 note).

PolyCV Follower (Inputs)

These jacks are used to ingest high-resolution polyphonic control voltage from a leader device (like Lynx) instead of standard Reason sequencer MIDI. Connecting cables here establishes a "handshake" that automatically switches Ocelot into Follower Mode.

- **Follower Note In:** Receives multiplexed polyphonic pitch data from the leader device.
- **Follower Gate In:** Receives multiplexed polyphonic gate and velocity data from the leader device.

PolyCV Leader (Outputs)

These jacks allow Ocelot to act as a leader, transmitting its fully processed, shifted, and delayed polyphonic data out to the next compatible module in your rack.

- **Leader Wet Note Outs:** Transmits the **processed** polyphonic pitch data.
- **Leader Wet Gate Outs:** Transmits the **processed** polyphonic gate and velocity data.
- **Leader Dry Note Outs:** Transmits the **unprocessed** polyphonic pitch data.
- **Leader Dry Gate Outs:** Transmits the **unprocessed** polyphonic gate and velocity data.

How to use:

Below is a simple demonstration of one way that Ocelot can be used. Here, the Leader track is wired into both a wet and a dry follower. By playing Midi on the leader track, the follower tracks will follow along with proceeded (wet) or unprocessed (dry) note data. Additional player devices can go **above the leader** Ocelot or **under the follower** Ocelots or additional control.