

Hypno



Hypno is an “all-in-one” semi-modular video generator. The panel is organized into mirrored sides for 2 shapes A&B. The centered controls are global. Hypno outputs video with a composite jack, HDMI or NDI.

Epilepsy Warning!

Hypno's video output may trigger seizures in individuals with photosensitive epilepsy.



Polarization / Y Offset



Case Module-Lock

The **(non kit)** enclosure features module locking tabs. Pull and flex out a side of the case at the point indicated with the lock icon below to pull Hypno out of the enclosure.

USB / IO

Video Looping via USB Drive
Stream to Computer via NDI
MIDI Host Capable
UVC compliant Video Input

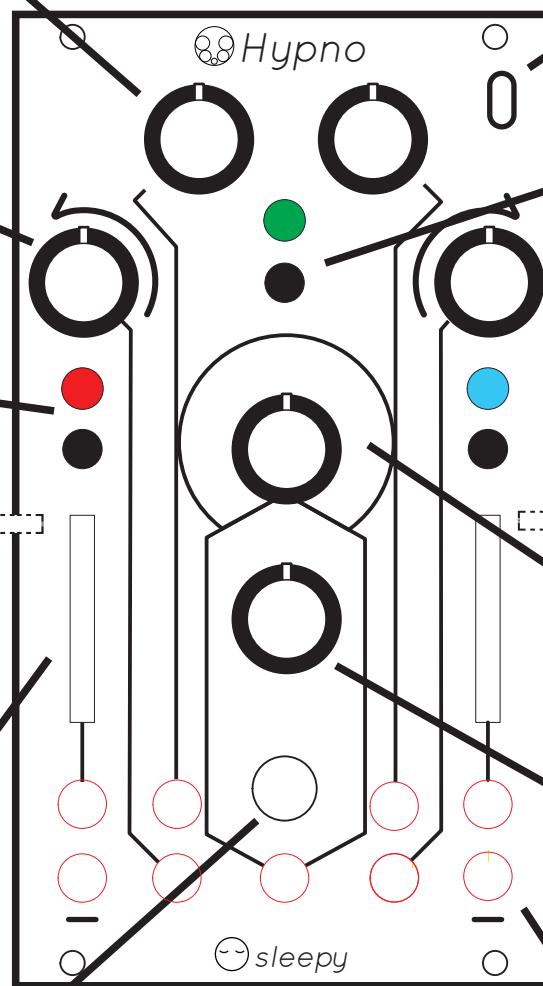
Note: IO May Differ for Hypno Kit based on Raspberry PI used.

Rotation



Shape A

- Sin
- Tan
- Poly
- Circle/Oval
- Fractal Noise



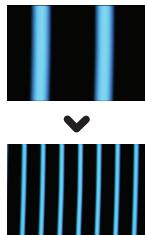
Feedback

- Regular
- hyper_digital
- Edgy
- Stable Glitch
- Inverted Stable

Gain

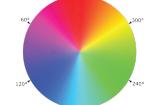
Master value of both shapes A&B. Bi-Polar control with blackness at 12 o'clock.

Frequency



Hue

Color selection shifts color relationship for both shapes A&B at once.



Video Output

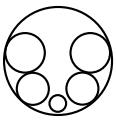
Composite output. PAL or NTSC switchable via config file.
Default output unless HDMI is detected on power-up. Hypno Kit requires adapter.

CV Control (-5V to 5V)

Knobs are connected with a line to their corresponding modulation jack. Subtle smoothing is applied to inputs by default.

Shape Trig Inputs

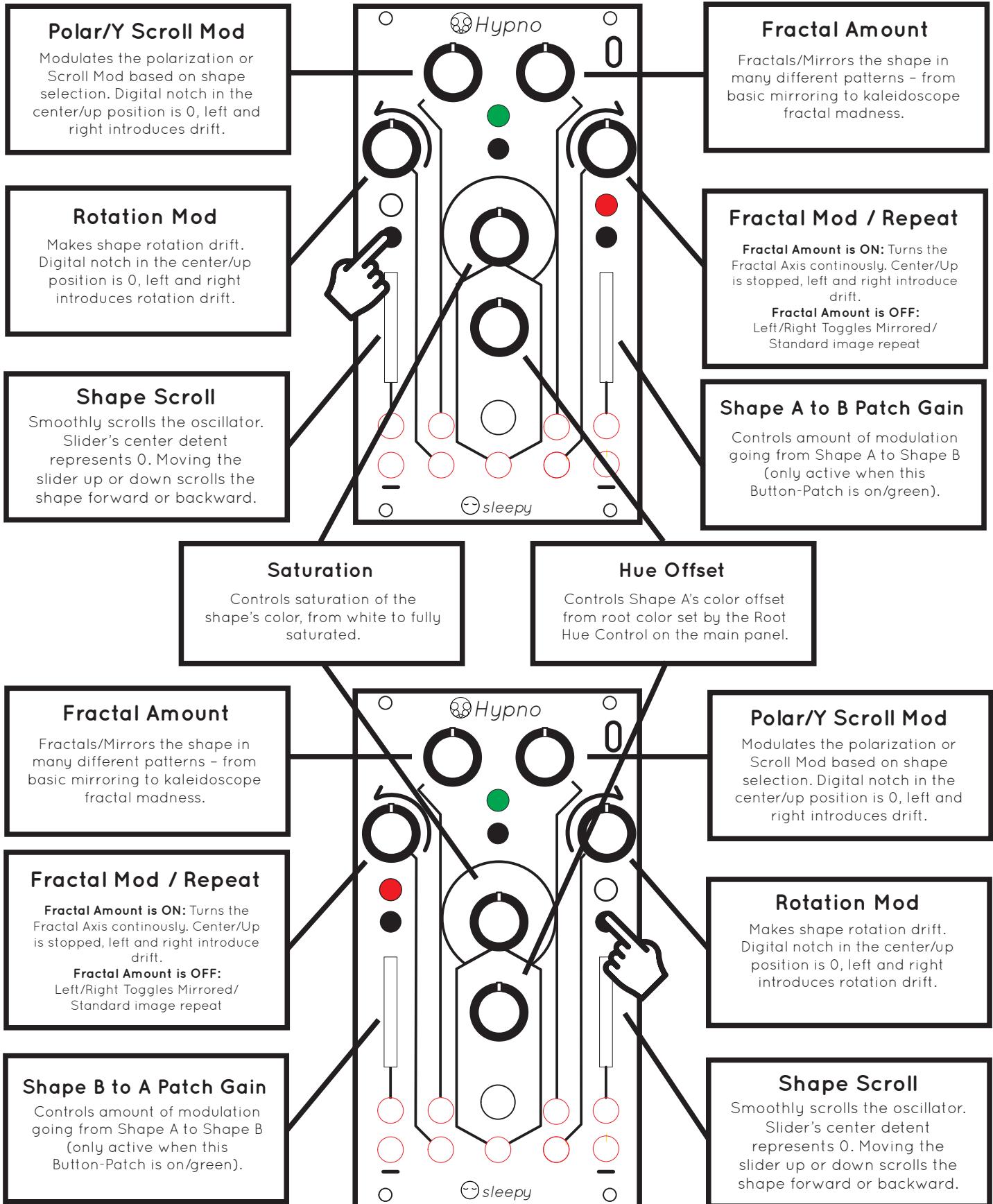
Triggers on underlined jacks step through the shapes of the corresponding oscillator.

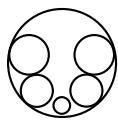


Shape Pages

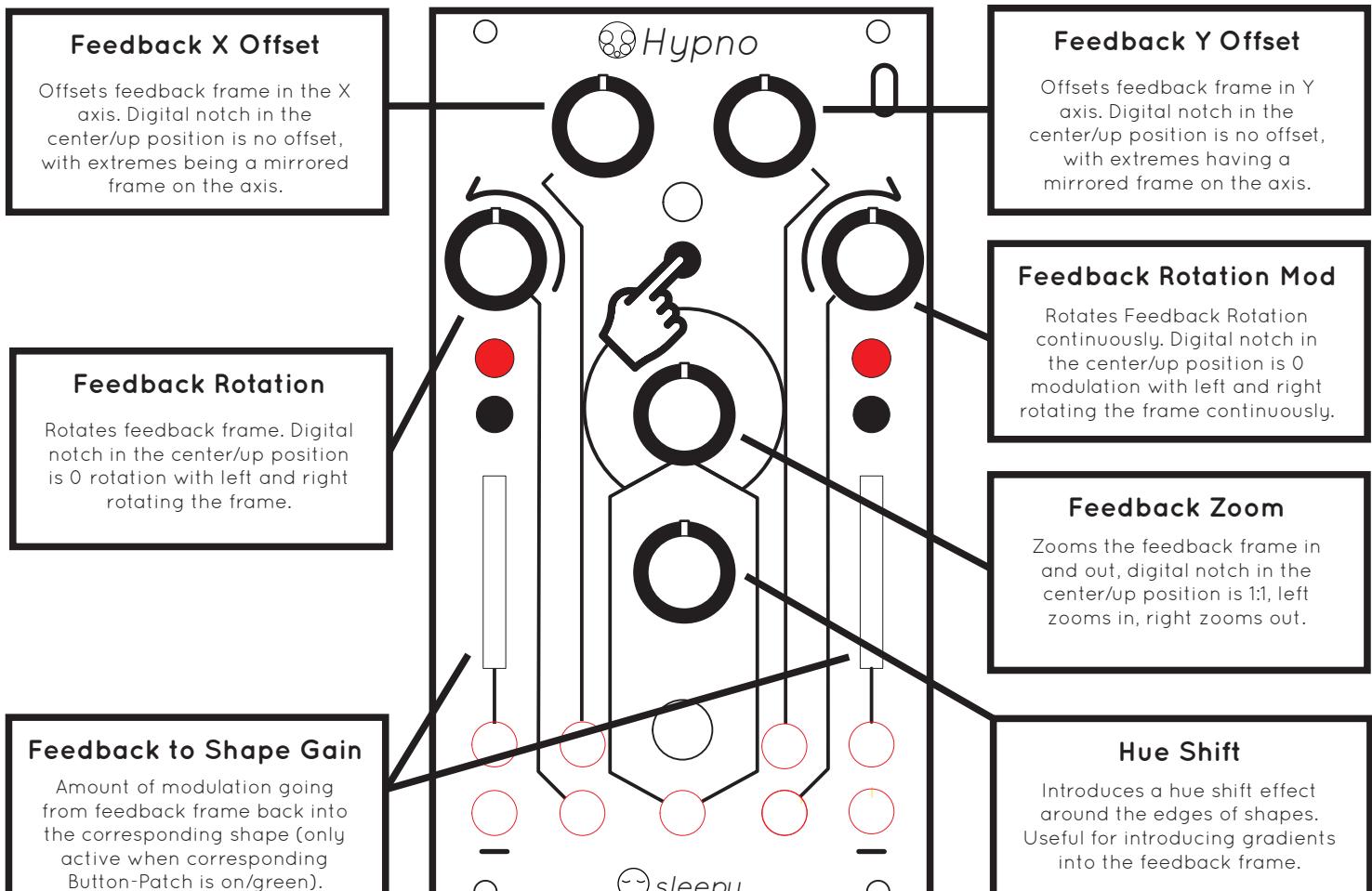


Holding one of the side buttons on Hypno enters the UI into an alternate state, allowing more detailed control of the Shapes.





Feedback Page



Feedback to Shape Gain

Amount of modulation going from feedback frame back into the corresponding shape (only active when corresponding Button-Patch is on/green).

Button-Patching

Holding a button and then pressing another toggles a connection. Each button represents a part of Hypno, left button is Shape A, right button is Shape B, middle button is Master Output. When a patch is on or off, the corresponding LED is green or red. Patch Gain sliders control connection magnitude.

Preset System

Each of Hypno's buttons represent a preset slot. Holding 2 buttons lets you access the slot on the 3rd button. Presets save the state of all of Hypno's controls in all of the pages.

Save: Hold the 3rd button, you will see the LEDs light up from left to right. When all the LEDs turn green, the preset has been saved.

Load: Tap the 3rd button to recall the last stored preset.

Safety Instructions



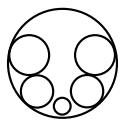
Water is lethal for electric devices. Hypno is NOT intended for use in a humid or wet environment. Liquids or other conducting substances must not get into the module. Should this happen, the module should be disconnected from power immediately, dried, examined and cleaned by a qualified technician.



Do not expose the module to temperatures above +50° C or below -20° C. If you have transported the module in extreme low temperatures, leave it in room temperature for an hour before plugging it in.



This device complies with EU guidelines and is manufactured RoHS conforming without use of lead, mercury, cadmium or chrome. This device is electronic waste. **DO NOT DISPOSE WITH HOUSEHOLD WASTE.** For proper disposal procedure contact your local electronic waste disposal service or contact us at support@sleepycircuits.com.



Video/Advanced Shape Page



1. Getting Input

Hypno's front USB port supports **USB Drives & USB 2.0 UVC compliant devices that support a MJPEG output mode**. You can plug in a variety of cameras and capture cards into the front USB via a Micro-USB to USB-A adapter (or directly with Hypno DIY)

- Plug in the USB via the front/back USB port
- Plug the UVC device into the adapter.
- After a short delay, you will see Shape A light up in a new color. Now you have a video feed!

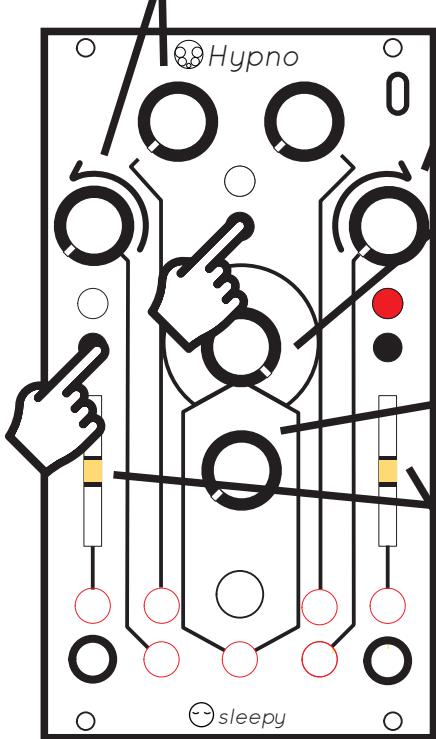
Note: Live Video input into Hypno has a slight delay. Give the lil friend a break, it's doing a lot!!!

These pages are also active for all of the shapes! The controls do similar adjustments to the built in shapes as described below, where those do not apply new shaping features are introduced. These pages are only partially mapped for shapes where documented.

A Input Page

Video Index and Folder

Choose your file, left knob is index and the right is the folder.



Aspect Correct

Performs X/Y stretching on the video to correct for aspect ratio. Center detent is no correction. Up and Down squash and stretch the video.

Lumakey Max

High bound for selecting a brightness range out of the input image.

Lumakey Min

Lower bound for selecting a brightness range out of the input image. When min is higher than max the luma range is inverted.

X Crop

Performs a center relative crop of the input on the X axis.

Y Crop

Performs a center relative crop of the input on the Y axis.

B Input Page

Video Index and Folder

Choose your file, left knob is index and the right is the folder.

