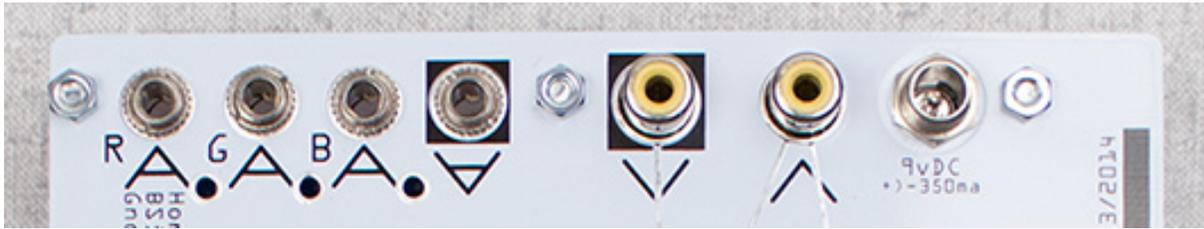
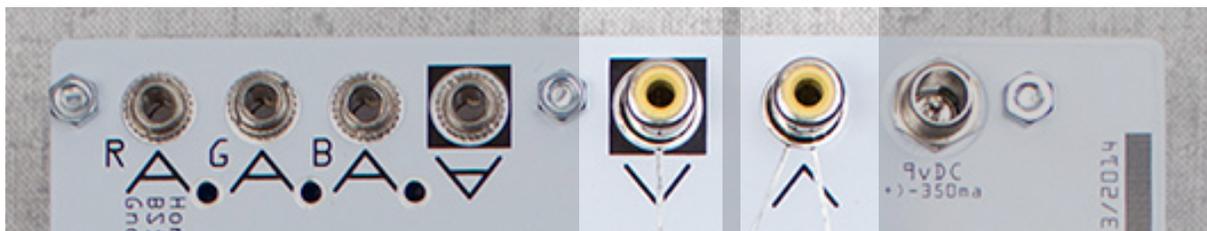


Power:

Accepts a standard 9v, center positive power supply. 350mA minimum.

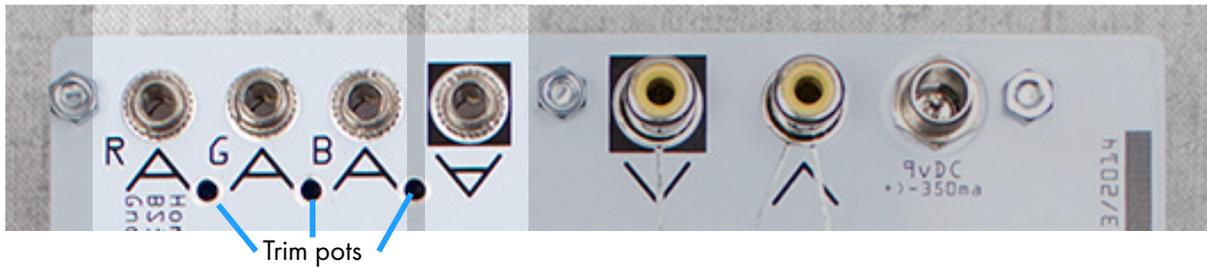


VIDEO OUT VIDEO IN



The composite video in and out can be switched between PAL and NTSC using the three jumper switches. Two below the power switch, one between the blue and white buttons on the front edge.

CV / AUDIO INPUTS AUDIO OUT



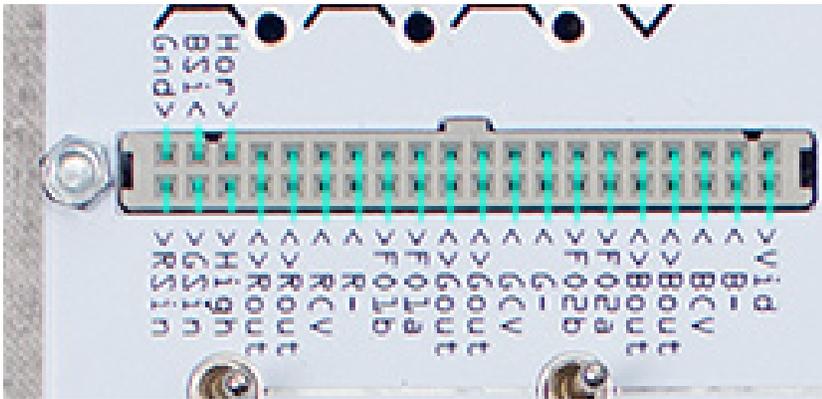
The audio out can be used if you want to listen to the internal oscillators. It makes some great drones but is not the main use of the device. If you're not hearing anything it might be that the oscillators are over 20kHz.

The inputs are tied to the rate control of the three oscillators. You can use a small screwdriver to adjust the trim pot and reduce the level of the incoming signal but it is recommended that they be left in the middle and adjusted from the source.

All the way left is for low signals (no attenuation) and all the way right is for high signals (10V peak to peak-modular).

The Header

Note that the final device might differ slightly in appearance



The 2x20 pin gray header can be used to make patches using jumper cables.

Do not connect any external signals directly to this header. If you do want to connect external gear use the mono mini jack RGB inputs.

You can also power circuits on a breadboard from the "High" and "Gnd" points. More info about making your own "pluggin" circuits is available at bleeplabs.com/store/3trinsrgb/

An arrow towards the header means Input, away is output. Both means it acts as both.

Hor : Input to scroll adjustment (see scroll description below)

Gnd : Ground (used for powering header plugins).

BSi,RSi,GSi : Sync signals for the three colors. Most used for plugin devices.

High : Voltage source with 22ohm impedance. Can be used to set a RGB channel to full solid.

The rest of the connections use the top and bottom rows. For example a wire in the bottom hole of "Vid" is also connected to the one above it as shown with the blue lines.

Rout, Gout, Bout : Output for color signal. This can be used to directly send a signal, like an LFO to the red channel output or use the output to cut another signal.

RCV, GCV, BCV : These are the same as the 1/8" input jacks. They control of the oscillators frequency. Try connecting them together to link colors.

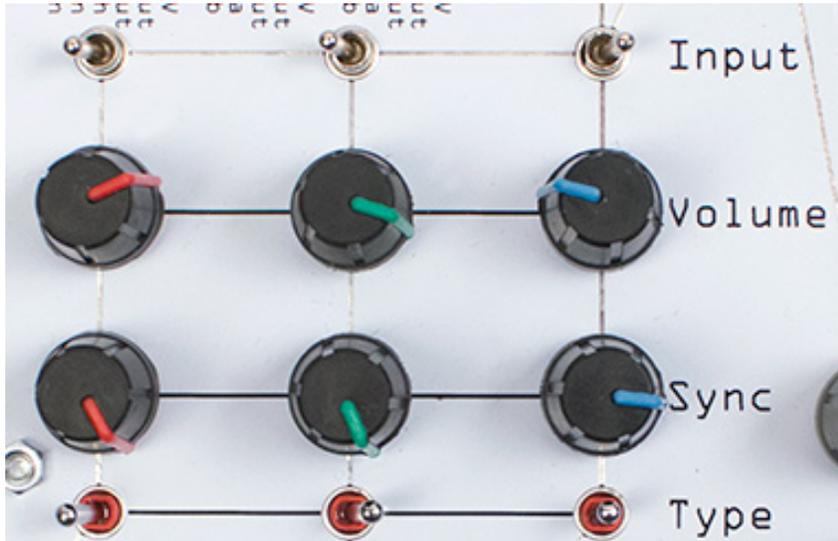
R-, G-, B- : Used to cut another signal. Great for attaching to the vid in or a color's output.

FO1a, FO1b : LFO 1 outputs. Controlled by the grey knob on the left (more info below) and the the switches above it. "a" and "b" are the same signal but buffer so connecting the to different sources does not mix those sources.

This is the basic method of animation. Can be tied to any input.

FO2a, FO2b : LFO 2 outputs. Grey knob and switches on the right.

Vid : Incoming video signal. Can be tied to any input for great effects.



The 3Trins is layed out in three coloums, one for the each of the oscillators attached to the red, green, and blue channels.

INPUT

When switched right the color channel is coming from the black and white video coming in. The oscillator is still running but not attached to that output channel. For example if blue is switched to thr right you'll see the input video tinted blue. When all inputs are right you only see the black and white input singal.

VOLUME

This adjusts the intensity of each oscillator.

SYNC

When a video signal is synced with the video rate itself it appears to be stationary or moving slowly. Unsynced and it's chaos. By adjusting the amout that the internal oscillators sync you can make all kinds of glitch visuals. All the way to the right is fully synced.

TYPE

Shape of the oscillator's signal. Left is saw, middle is triangle, right is ramp.



At the bottom of the device there are controls for the pitch and range of the oscillator.

PITCH

Full counter clockwise is off. Left half is very slow. 12 o'clock starts to be visable.

RANGE

Selects between high and low rate. In use this means that the oscillator will be visible horizontally when the light is scscon and vertically when it's off.



Note that the final device might differ slightly in appearance

The LFOs

These oscillators are not connected to anything until you patch them.

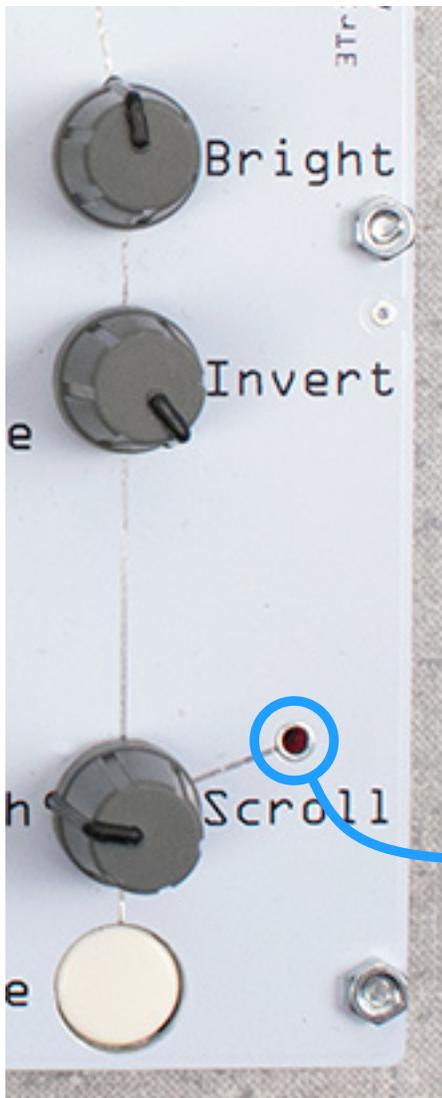
TYPE

Shape of the LFO's signal. Left is saw, middle is triangle, right is ramp.

RANGE

Low left, high right.

The grey knobs control the pitches



BRIGHT and INVERT control the level of the incoming black and white signal.

Brightness all the way right is full on but might not always be the best as it can overpower other elements on screen.

Invert all the way left is normal. Right is inverted. Try putting in around 9 or 3 o'clock and changing the brightness.

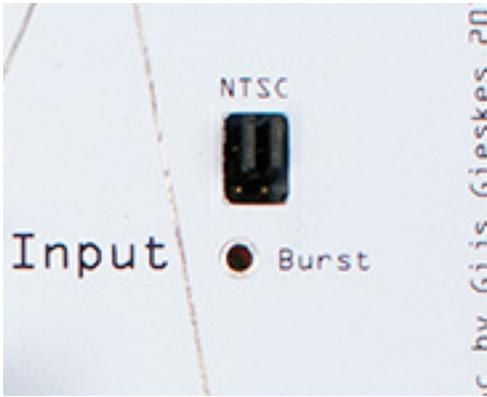
These controls are still useful when no signal is coming in.

Try turning invert all the way to the left, switching one channel's input to the right and turning the brightness knob. This allows you to mix colors in different ways.

Scroll adjusts the rate at which the input signal is moving horizontally.

To set it up properly, turn the knob to the middle then use the tiny screwdriver included to adjust the fine tuning until it is going as slow as possible.

The white button moves the video vertically and locks it in place. Hold it down to shift the video up.



Burst is another fine tune adjustment for the screwdriver. if your input vided is flickering, try fiddling with it.

Move both the jumpers down for PAL and up for NTSC.

Be sure to also move the jumper between the blue and white button underneath the top board.



Email drbleep@bleeplabs.com with any questions about the #TrinsRGB+1c