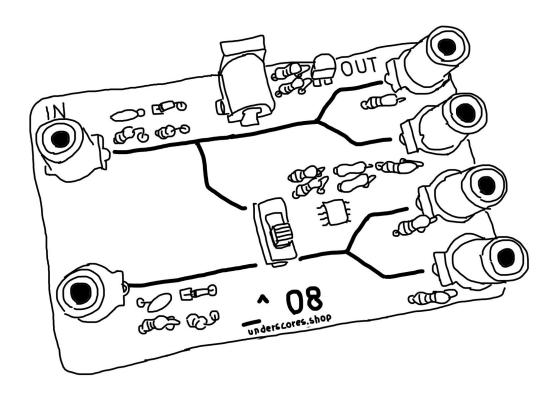
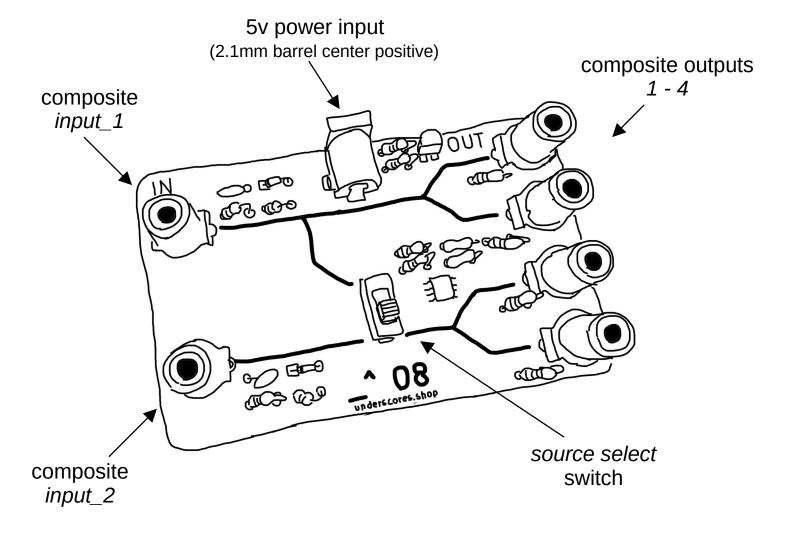
bisect

a card-shaped video distribution amplifier



> View this project online at underscores.shop/_bisect_

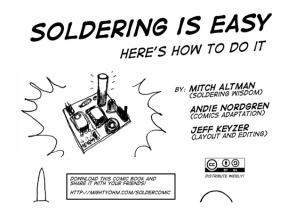
FEATURES



- active splitting of composite video no lose in signal strength
- powered from a single **5v** supply, ie any usb wall charger
- can be configured to either distribute 1x input to 4x output
 or two stages of 1x input to 2x output
- doubles as an underscores.shop business card

BUILD INSTRUCTIONS

Use the Interactive BOM to help place parts - kutt.it/03z2Ds



remember to heat pad first (2-3seconds), add solder, then continue to heat (1-2seconds)

Checkout the web-comic soldering is easy for more soldering advice.

- start with the smd ic if its not placed already use lots of flux and drag-solder over the pins – if you are not comfortable with this find someone who can help – the rest is very beginner friendly
- next place resistors, capacitors and diodes take note of the direction of diode - black bar on component matching black bar on footprint
- finally place the pots and jacks make sure to use plenty of solder here for structural support

OPERATING GUIDE

- To set up using the circuit plug an active video source into one of the composite video inputs on the board.
- Next connect a composite video output of the device to your display/tv
- Now plug in a 5v center-positive power supply into the 2.1mm barrel jack connector — I like to use a usb wall charger for this
- with the source select switch pointing up, the signal on input_1 will be distributed to all four output stages
- with the source select switch pointing down the signal on input_1 will be distributed to output_1 and output_2 and the signal on input_2 will be distributed to output_3 and output_4

CREDITS AND MORE INFO

This circuit is distributed through UNDERSCORES - open video hardware label - visit underscores.shop for more info

The pcb was designed using KICAD , this booklet was created in LibreOffice Draw

Everything from gerbers, cad files, panels and documentation is freely available online and distributed under CC-BY-SA / opensource licenses — help us contribute to the commons!

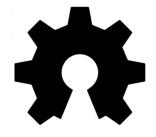
Ask any questions or start discussions related to this project on the *scanlines.xyz* forum — an online community space dedicated to diy av / electronic media art

You can contact me directly at *tim* (at) cyberboy666 (dot) com Please get in touch if you are interested in hosting a workshop!











Thanks to Bastien Lavaud for circuit advice, always. To Ben Caldwell for project advice. To everyone who has or will contribute ♥♥♥