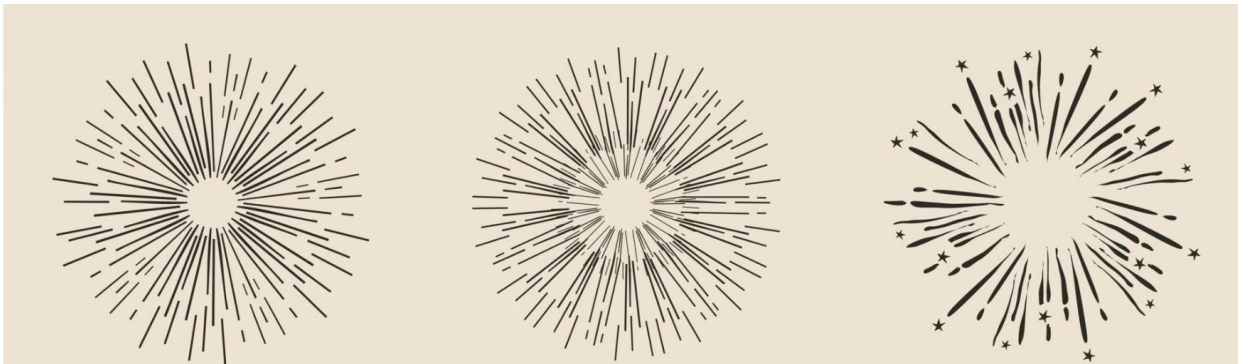


## DISTORTED LIGHT



**DISTORTED LIGHT** is a dual, stereo resonator and reverb using 2 BTDR reverb bricks. It's a huge mess of feedback honestly. In the heart of the modules is a "resonator" where the two bricks influence each other using white LED's, basically ping-ponging between them.

### Build guide:

Building this is pretty straight forward since all SMD components are pre-soldered:

I usually start with the backside of the pcb: Place the power connector according to the silk screen and solder it in. Make sure no joints are touching. I then solder the 2 vactrols, make sure that the + on the vactrol fits the + on the pcb. Then the headers for the two bricks.

I then usually place the potentiometers first and solder only one pin from the top of the board, That way they will not fall off when we turn the PCB. Watch out touching the SMD components with your iron in crowded areas. Then I do the same with all jacks, just soldering the ground connector (the one that is sticking out form the jack and has a square pad). Double and triple check that all solder joints on the connectors look good and that all pins are properly soldered in. If you have some type of magnification that usually helps.

I then place the switch but don't solder any pads on those, let them wiggle but don't fall out. Fit the 4 white 3mm leds but don't solder them in.

Mount the panel, align the switch so everything is straight, pots and jacks as well. LEDs peeping out from behind the panel. Solder everything in. Double check, plug it in, voila! Fit the two bricks into its headers and power on.



Designator	QTY	INFO	Product link
J1-J11	11	Thonkiconn jacks	<a href="https://www.thonk.co.uk/shop/thonkiconn/">https://www.thonk.co.uk/shop/thonkiconn/</a>
RV1	1	Dual 100k LIN Pot	<a href="https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/">https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/</a>
RV5-RV6, Rv10-rv11	4	10K lin pot t18	<a href="https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/">https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/</a>
RV4	1	1M dual lin pot	<a href="https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/">https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/</a>
RV2-RV3, RV7-RV8	4	100k Lin Pot T18 9mm Alpha	<a href="https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/">https://www.thonk.co.uk/shop/alpha-9mm-pots-vertical-t18/</a>
SW1	1	ON-ON DPDT	<a href="https://www.taydaelectronics.com/mini-toggle-switch-dpdt-on-on.html">https://www.taydaelectronics.com/mini-toggle-switch-dpdt-on-on.html</a>
knoobs dual gang pots	2	Davies Bold - Small Skirted	<a href="https://www.thonk.co.uk/shop/davies-skirted-knoobs/">https://www.thonk.co.uk/shop/davies-skirted-knoobs/</a>
knoobs	8	Must be Black	<a href="https://www.thonk.co.uk/shop/micro-knoobs/">https://www.thonk.co.uk/shop/micro-knoobs/</a>
SV1	1	10pin eurorack header	
IU1-IU2	2	BTDR-3H	<a href="https://www.musikding.de/Accu-Bell-BTDR-3H-Reverb_1">https://www.musikding.de/Accu-Bell-BTDR-3H-Reverb_1</a>
U1-U2	2	Vactrol VTL5C3	<a href="https://www.thonk.co.uk/shop/vactrols-vtl5c/">https://www.thonk.co.uk/shop/vactrols-vtl5c/</a>
D1,D2, D7, D9	4	White Leds 3mm	<a href="https://www.taydaelectronics.com/led-3mm-white-water-clear-ultra-bright.html">https://www.taydaelectronics.com/led-3mm-white-water-clear-ultra-bright.html</a>
Headers	2	1x10	<a href="https://www.taydaelectronics.com/10-pin-2-54-mm-single-row-female-pin-header.html">https://www.taydaelectronics.com/10-pin-2-54-mm-single-row-female-pin-header.html</a>