DISCRET11 V2.3 User Guide

VIDEO OUT   VIDEO IN   PAL/NTSC   ON/OFF   +15V DC
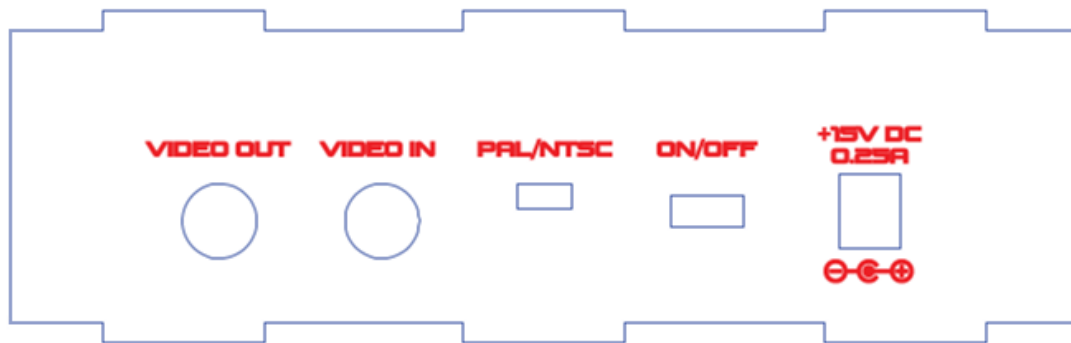   0.25A

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- **VIDEO OUT** : 1Vpp video output

- **VIDEO IN** : 1Vpp video input

- **PAL/NTSC** switch : set both delays to the
 chosen standard*

- **ON/OFF** switch

- **+15VDC** : power input (use a center positive power
supply, with at least 250mA current and a 5.5mm x
2.1mm connector)

*only acts on the delays, the black level needs to be
set up correctly according to the chosen standard. It's
not an issue when using a CRT TV, however video
mixers are quite picky with black level.
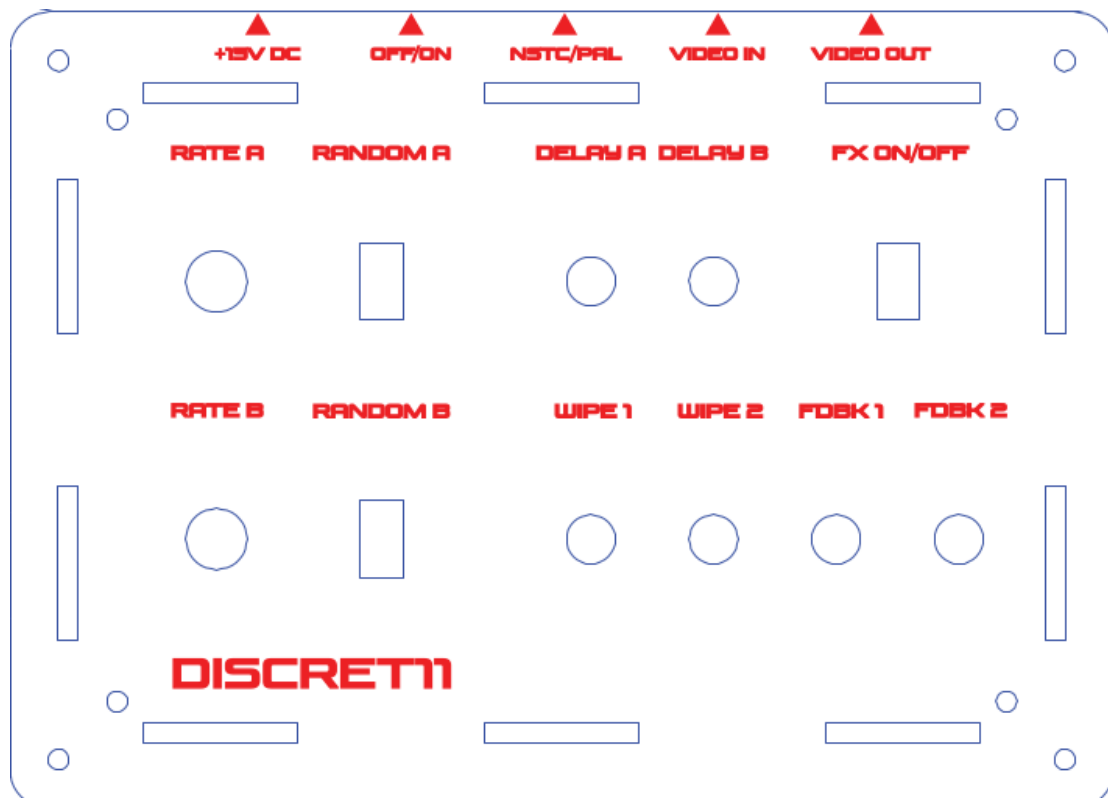
- RATE A : controls the switch between original signal and signal delayed 1 time.

1st position : original signal
2nd position : signal delayed 1 time
3rd position to 8th position : switches at subdivision of line frequency

- RATE B : controls the switch between original signal and signal delayed 2 times.

1st position : original signal
2nd position : signal delayed 2 times
3rd position to 8th position : switches at subdivision of line frequency

- **RANDOM A** : randomize the switching between original and signal delayed 1 time

- **RANDOM B** : randomize the switching between original and signal delayed 2 times.

- **DELAY A** : sets the time of the delay for the signal delayed 1 time.

- **DELAY B** : sets the time of the delay for the signal delayed 2 times.

- **WIPE 1** : wipes between original signal and Discret11 core effect.

- **WIPE 2** : more subtle wipe, changes the speed of the scrolling

- **FX ON/OFF** : turns FDBK1 and FDBK2 on and off

- **FDBK1** : feedback glitch effect

- **FDBK2** : feedback glitch effect

When powering up the device, it might takes 2-3 seconds to get an image at the output, it's because the back porch is generated from the output of the first amplifier, which itself requires the back porch.

The delay times seems to be affected by heat, which means you might need to wait for a few minutes after power up to get the right delay times, however you can compensate that with DELAY1 and DELAY2 knobs.

You'll notice that there is holes on the bottom plate to access the trimmers. Best is to leave them as they are if you got the assembled version, because it requires opening the device and calibrate it using an oscilloscope.