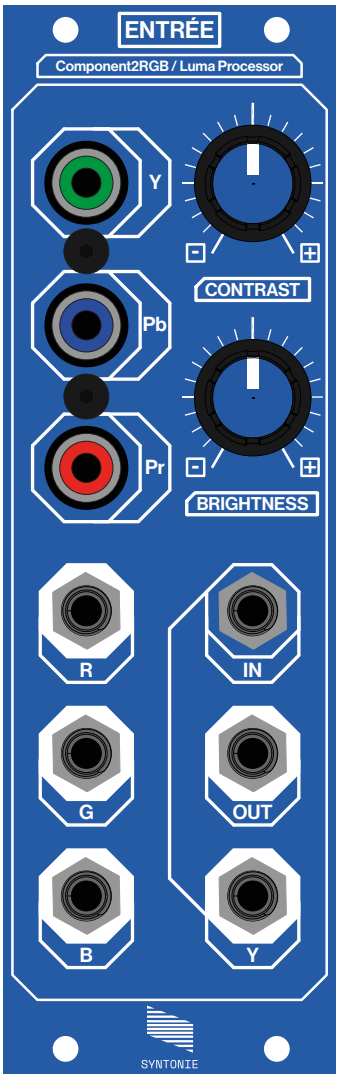
Entrée

Component2RGB / Luma Processor ¬

User documentation

SYNTONIE

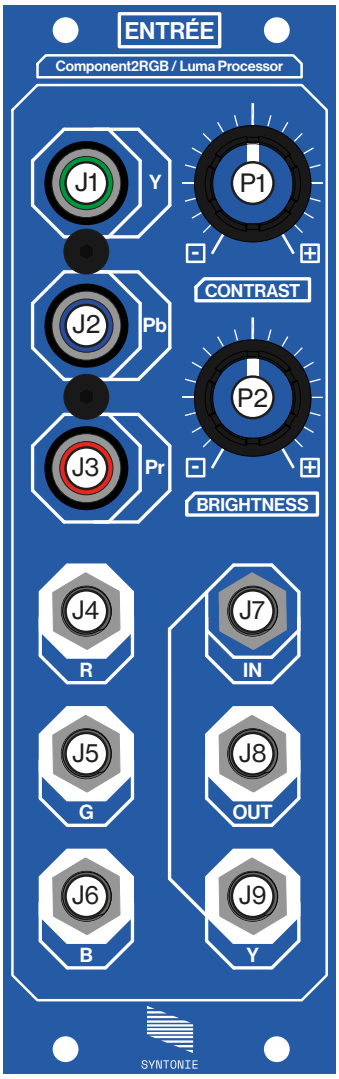


Entrée is a SD/HD Component to RGB decoder/ Luma processor. It takes a Component video input and decodes it into 1V RGBY signals, with the Y signal normaled to the processor input. It is an update of VU003B with low-noise switching power supply, active attenuverter and improved output bandwidth.

Specifications

- 8HP
- 90 mA +12V (16pin or DC)
- 0 mA -12V
- 0 mA +5V
- 42mm depth

Special thanks to: **LZX Team** for the Cadet serie of modules which have been the starting point to develop this module. **Lorenzo Ferronato** for the documentation design // And of course, **everyone who has supported Syntonie until now & those who will support it in the future.**



(J1) Y input (RCA, 2Vpp, 75Ω)

(J2) Pb input (RCA, 2Vpp, 75Ω)

(J3) Pr input (RCA, 2Vpp, 75Ω)

(J4) Red output (jack, 0V/+1V, 75Ω)

(J5) Green output (jack, 0V/+1V, 75Ω)

(J6) Blue output (jack, 0V/+1V, 75Ω)

(P1) Processor level (contrast) : unity gain/inverted unity gain

(P2) Processor offset (brightness) : -1V to +1V

(J7) Processor input (jack, 0V/+1V, 100kΩ)

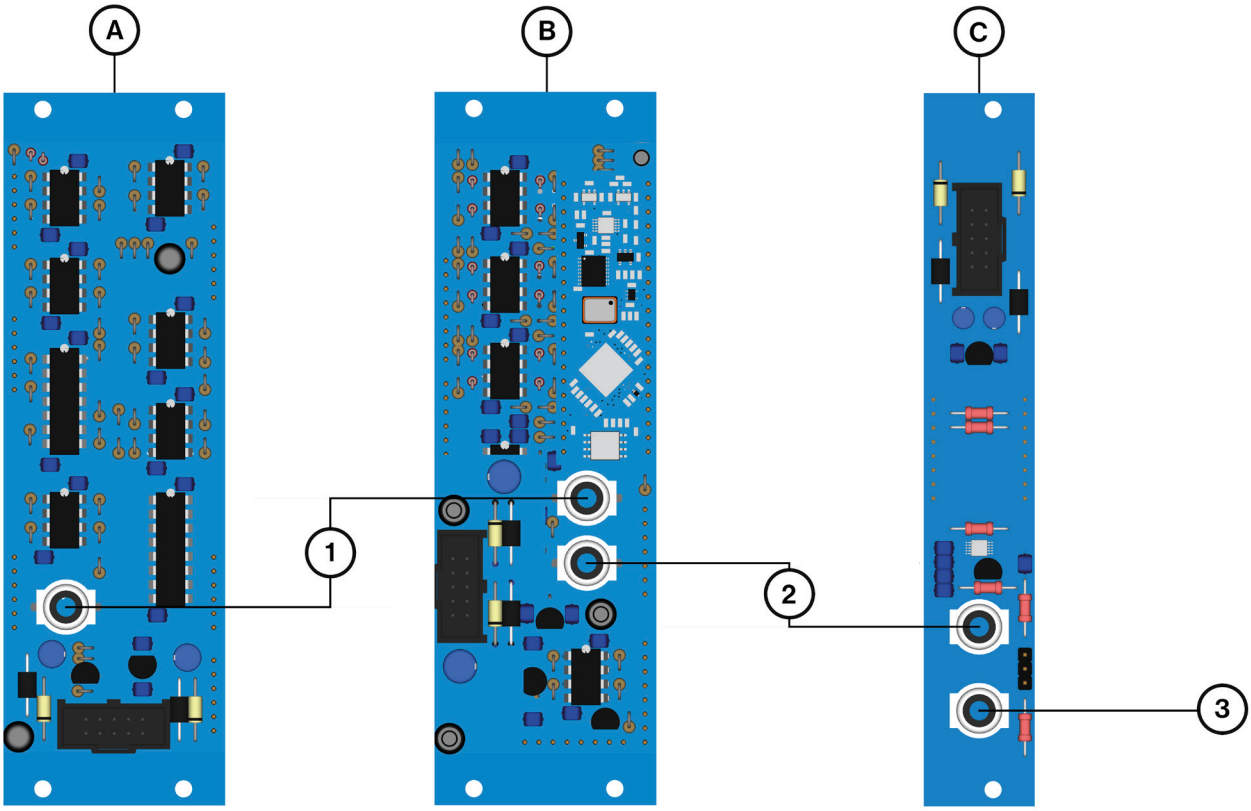
(J8) Pre-processor output (jack, 0V/+1V, 100kΩ)

(J9) Stabilizer input (jack, 0V/+1V, 100kΩ)

Composite can be sent to the Y input, though only black and white information will be extracted, and will be present at Y output, as well as at the R, G and B outputs.

The module being purely analog, it doesn't perform any up/down scaling, the RGB output will have the same frame rate/resolution as the Component source.
Entrée supports all video formats supported by VU007B and other Eurorack sync generators/RGB encoders.

The processor input is normalized to the Y output, making it a luma processor, with the resulting signal available at the processor output. It doesn't affect the R, G, B and Y outputs.



(A) Entrée Component2RGB/Luma Proc

(B) VU007B Sync Generator / RGB Encoder

(C) VU009 Sawtooth Oscillator

(1) External video signal to sync generator (RCA cable)

(2) Generated sync to oscillator (RCA cable)

(3) Generated sync to next modules in the chain (RCA cable)

Displayed here are the basic connections for sync distribution accross a modular system:

- The sync contained in the external video signal plugged into the Y input at the front of Entrée is duplicated at the back of the module at the Sync Out output.
- It is then sent to VU007B Sync Input so the sync generator can lock to the external signal.
- VU007B Sync Output is connected to VU009 Sync Input so the oscillator is in-sync with the sync generator (or external video signal if it is present).

Note: The sync generator needs to be set to the same video format as the external video source (unless the sync generator has format autodetection enabled).

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