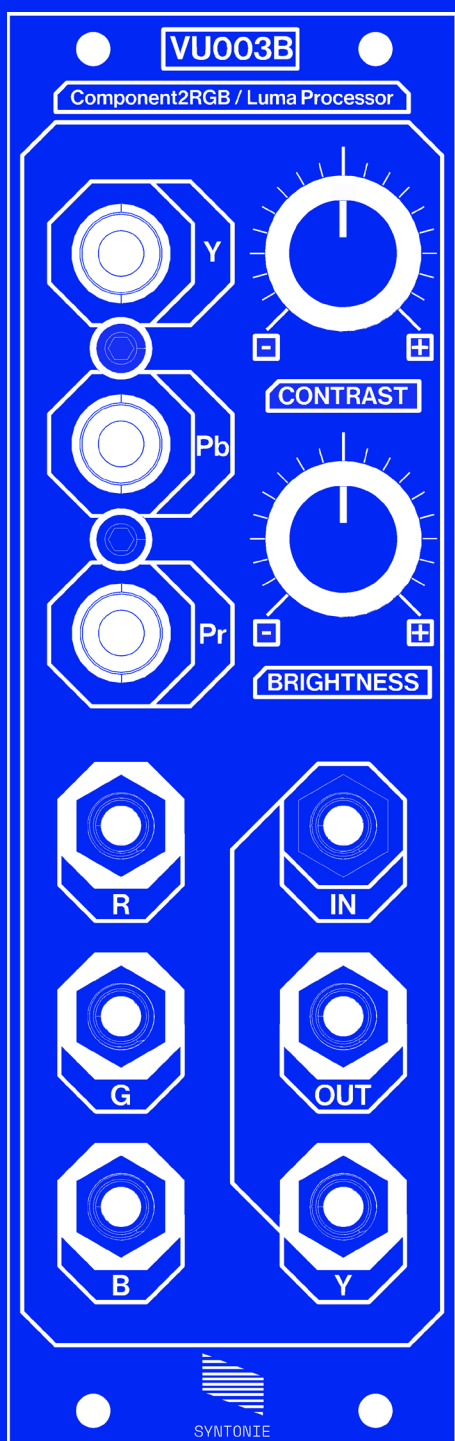
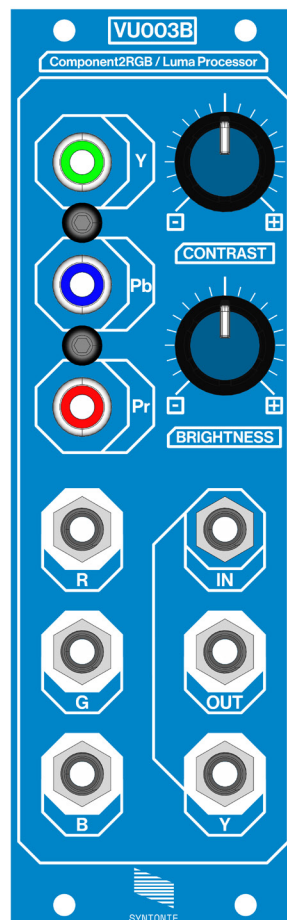


VU003B

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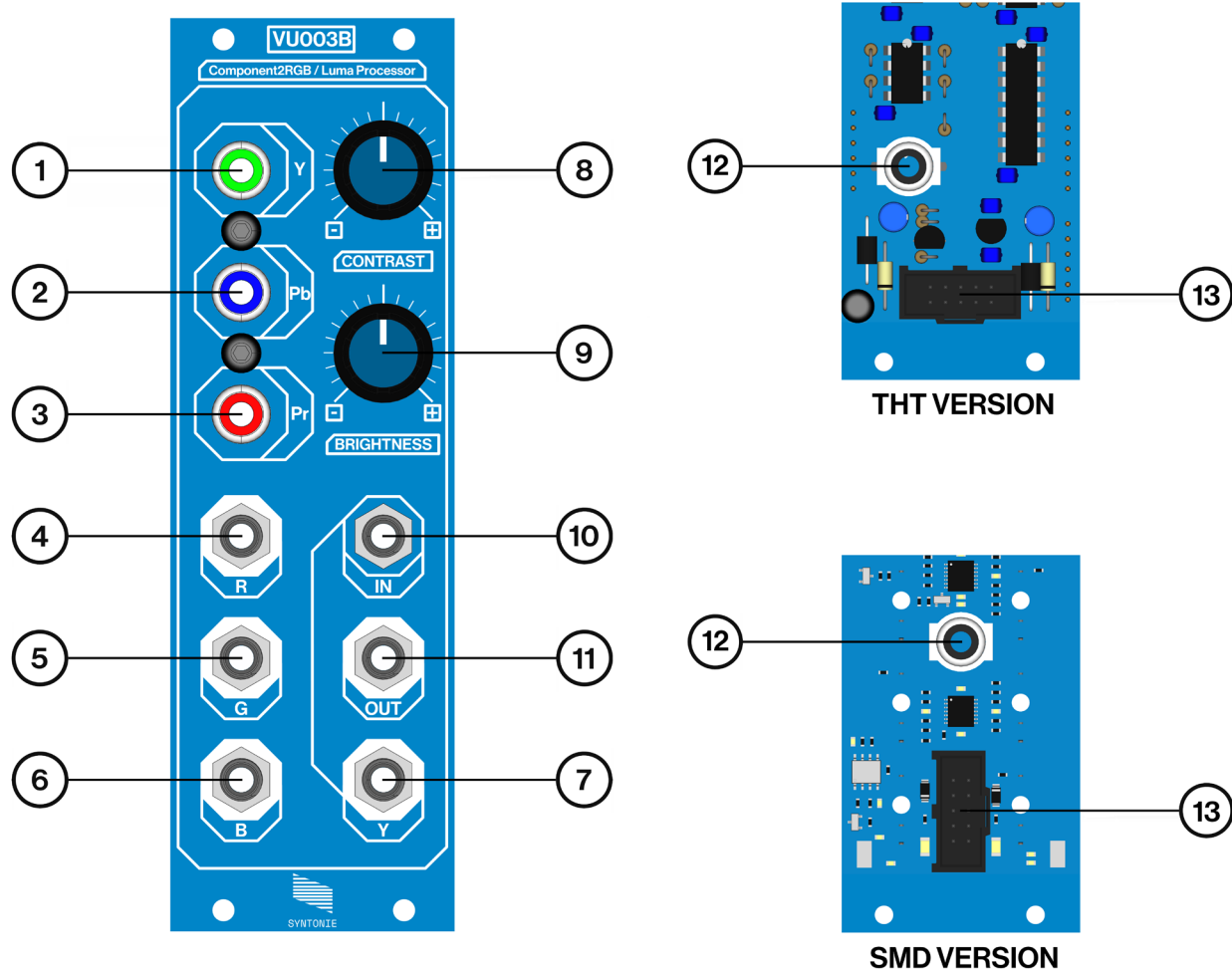
VU003B is a SD/HD Component to RGB decoder/ Luma processor. It takes a Component video input and decodes it into 1V RGBY signals, with the Y signal normaled to the processor input.

Specifications

- 8HP
- 70 mA +12V
- 41 mA -12V
- 0 mA +5V
- 50mm (THT)/30mm(SMD) depth

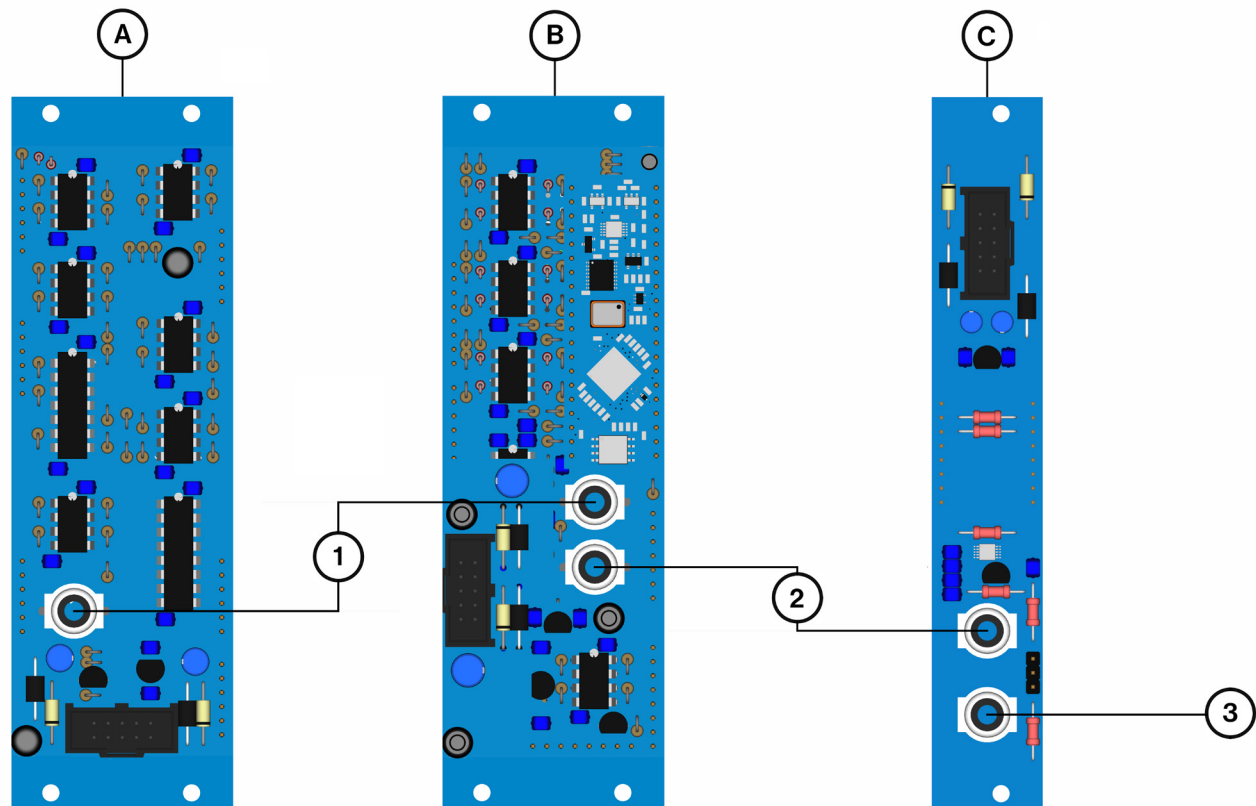
Special thanks to: **LZX Team** for the Cadet serie of modules which have been the starting point to develop this module.

Lorenzo Ferronato for the documentation design // And of course, **everyone who has supported Syntonie until now & those who will support it in the future.**



- | | |
|---|---|
| (1) Y input : 0-700mV, 75Ω, RCA | (9) Processor offset (brightness) : -1V to +1V |
| (2) Pb input : 0-700mV, 75Ω, RCA | (10) Processor input : 0-1V, 100kΩ, minijack (normaled to 1V Y output) |
| (3) Pr input : 0-700mV, 75Ω, RCA | (11) Processor output : 0-1V, 499Ω, minijack |
| (4) Red output : 0-1V, 499Ω, minijack | (12) Y pass-through : 0-700mV, 75Ω, RCA |
| (5) Green output : 0-1V, 499Ω, minijack | (13) Power input : +12V/-12V, IDC 10pin |
| (6) Blue output : 0-1V, 499Ω, minijack | |
| (7) Y output : 0-1V, 499Ω, minijack | |
| (8) Processor level (contrast) : unity gain/inverted unity gain. | |

Note: 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.



- | | |
|--|--|
| (A) VU003B Component2RGB/Luma Proc | (1) External video signal to sync generator (RCA cable) |
| (B) VU007B Sync Generator / RGB Encoder | (2) Generated sync to oscillator (RCA cable) |
| (C) VU009 Sawtooth Oscillator | (3) Generated sync to next modules in the chain (RCA cable) |

Displayed here is the basic connection for sync distribution accross the modular system:

- The sync contained in the external video signal plugged in the Y input at the front of VU003B is retrieved at the back of the module at the Y Thru 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.

VU003B

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