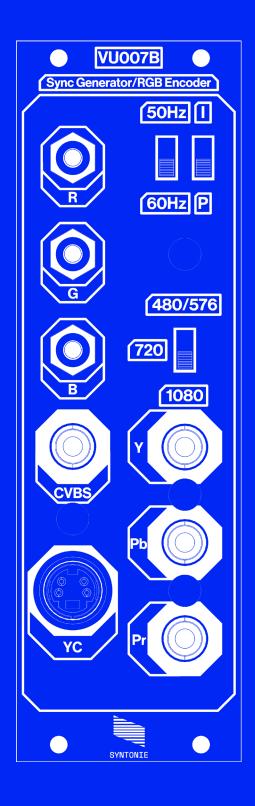
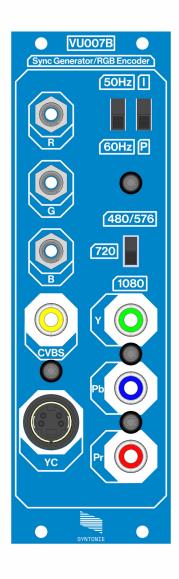
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VU007B

Sync Generator / RGB Encoder ¬ User documentation







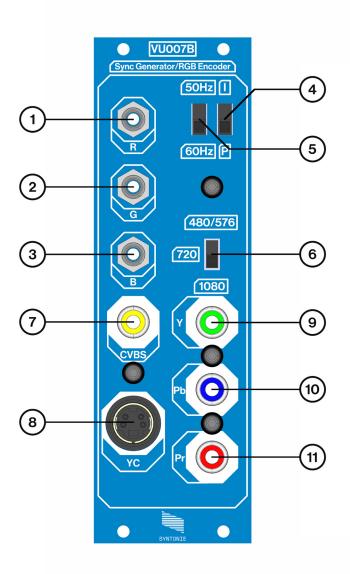
VU007B is a SD/HD sync generator/RGB encoder. It takes 1V RGB inputs and encodes them into Composite, S-Video and Component video signals.

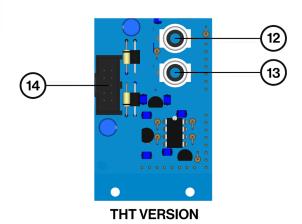
Specifications

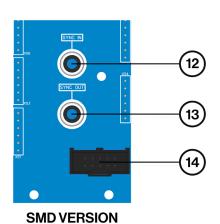
- 8HP
- 120 mA +12V
- 60 mA -12V
- 0 mA +5V
- 50mm (THT)/30mm(SMD) depth

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

VU007B Interface syntonie.fr ¬ 2022



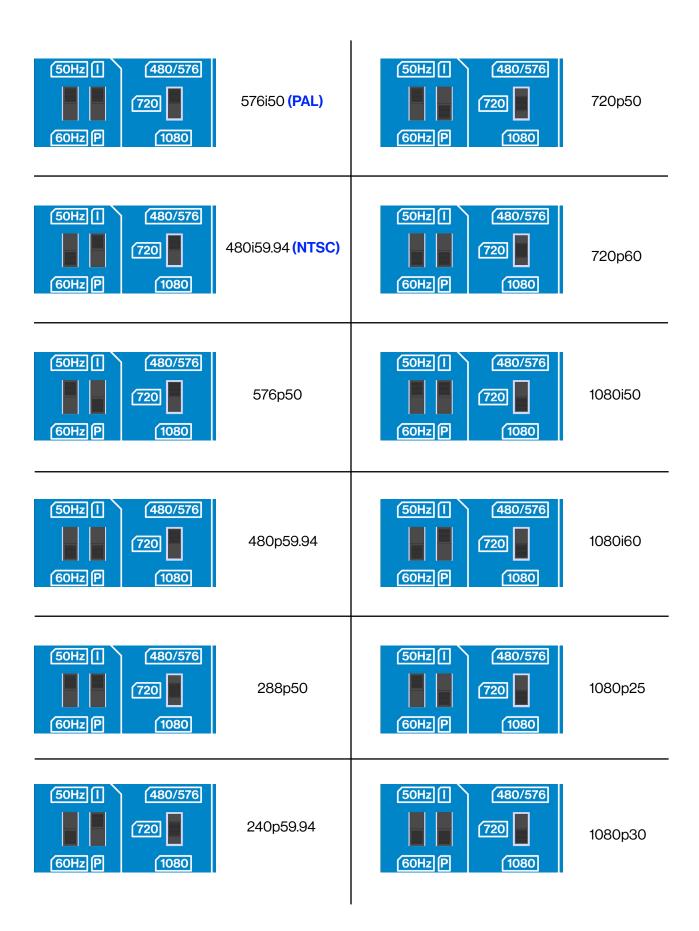


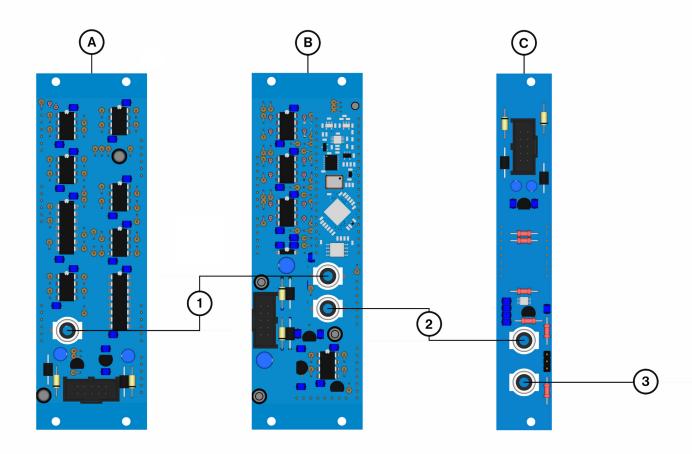


- (1) Red input: 0-1V, $100k\Omega$, minijack
- (2) Green input: 0-1V, $100k\Omega$, minijack
- (3) Blue input : 0-1V, 100kΩ, minijack
- (4) Scan type switch: Interlaced/Progressive (11)
- (5) Framerate switch: 50Hz/60Hz
- (6) Resolution switch: 480 or 576 lines / 720 lines / 1080 lines
- (7) Composite output: 0-700mV, 75Ω, RCA

- (8) S-Video output: 0-700mV, 75Ω, Mini Din-4
- (9) Y output: 0-700mV, 75Ω, RCA
- (10) Pb output : 0-700mV, 75Ω, RCA
- (11) Proutput: 0-700mV, 75 Ω , RCA
- (12) Sync input: 0-700mV, 75Ω, RCA
- (13) Sync output: 0-700 mV, 75Ω , RCA
- (14) Power input: +12V/-12V, IDC 10pin

VU007B Formats syntonie.fr ¬ 2022





- (A) VU003B Component2RGB/Luma Proc
 (B) VU007B Sync Generator / RGB Encoder
 (C) External video signal to sync generator (RCA cable)
 (B) VU007B Sync Generator / RGB Encoder (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.

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