VU007B

Sync Generator / RGB Encoder ¬
User documentation

VU007B
Sync Generator/RGB Encoder

50Hz I
60Hz P

R
G
B

480/576
720
1080

CVBS
Y
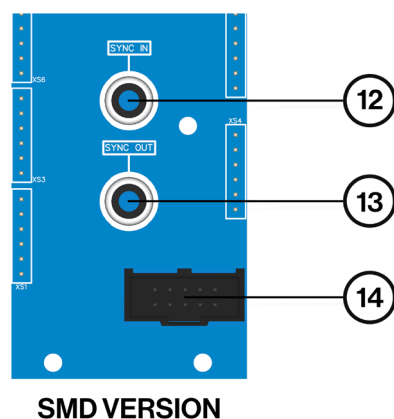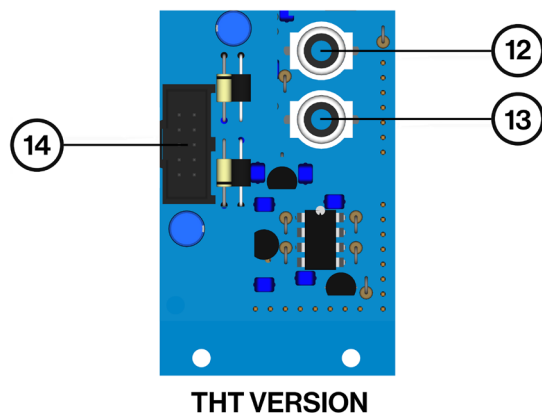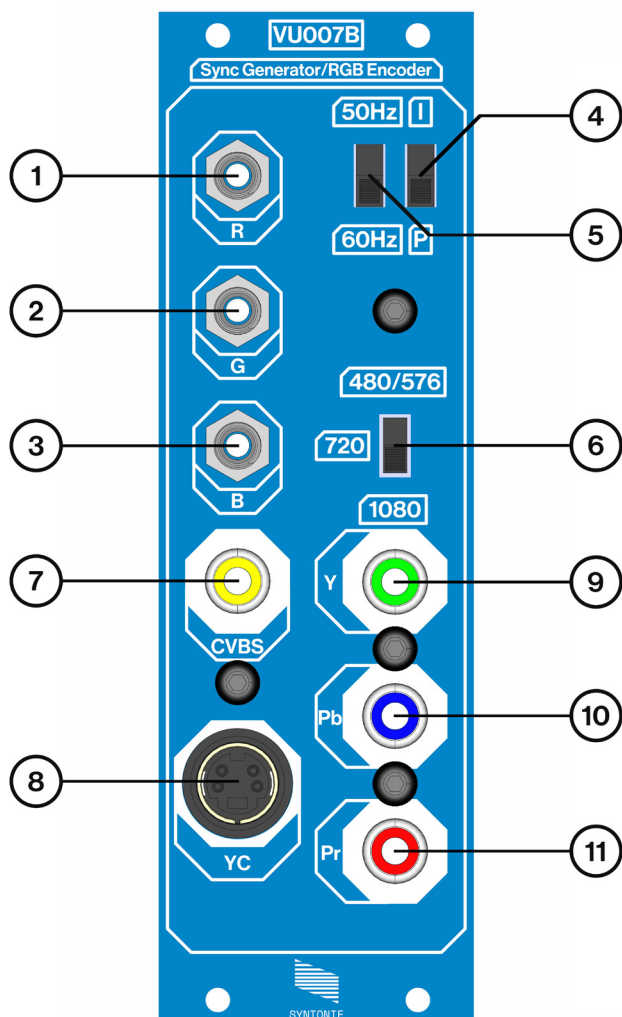
YC
Pb

Pr

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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.
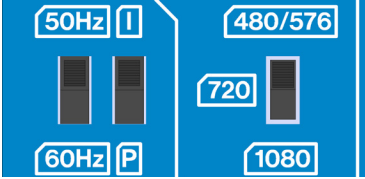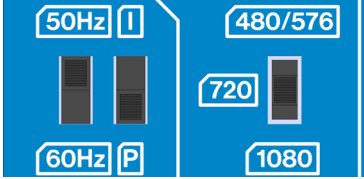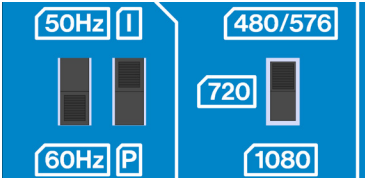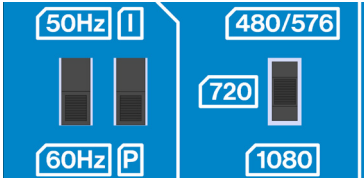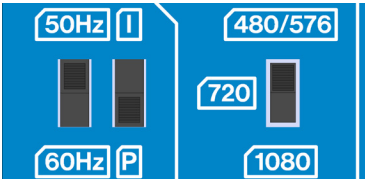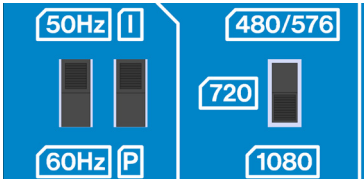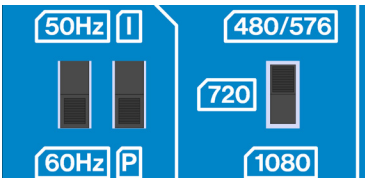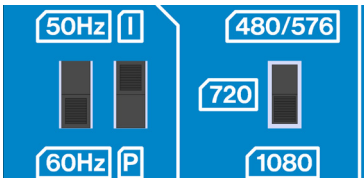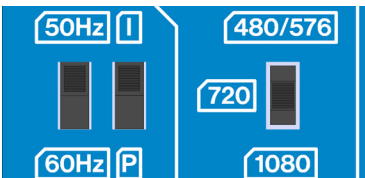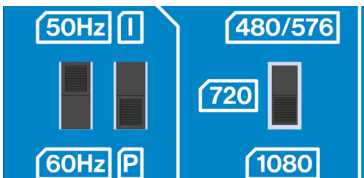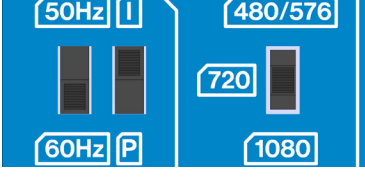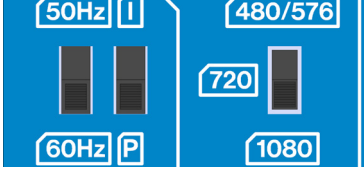
Specifications

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

THT VERSION

SMD VERSION

(1) Red input : 0-1V, 100kΩ, minijack

(2) Green input : 0-1V, 100kΩ, minijack

(3) Blue input : 0-1V, 100kΩ, minijack

(4) Scan type switch : Interlaced/Progressive

(5) Frame rate 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) Pr output : 0-700mV, 75Ω, RCA

(12) Sync input : 0-700mV, 75Ω, RCA

(13) Sync output : 0-700mV, 75Ω, RCA

(14) Power input : +12V/-12V, IDC 10pin

50Hz / 60Hz / I / P / 480/576 / 720 / 1080		50Hz / 60Hz / I / P / 480/576 / 720 / 1080	
	576i50 **(PAL)**		720p50
	480i59.94 **(NTSC)**		720p60
	576p50		1080i50
	480p59.94		1080i60
	288p50		1080p25
	240p59.94		1080p30

¬   Note: Composite and S-Video outputs only work in 576i50/480i59.94/288p50/240p59.94
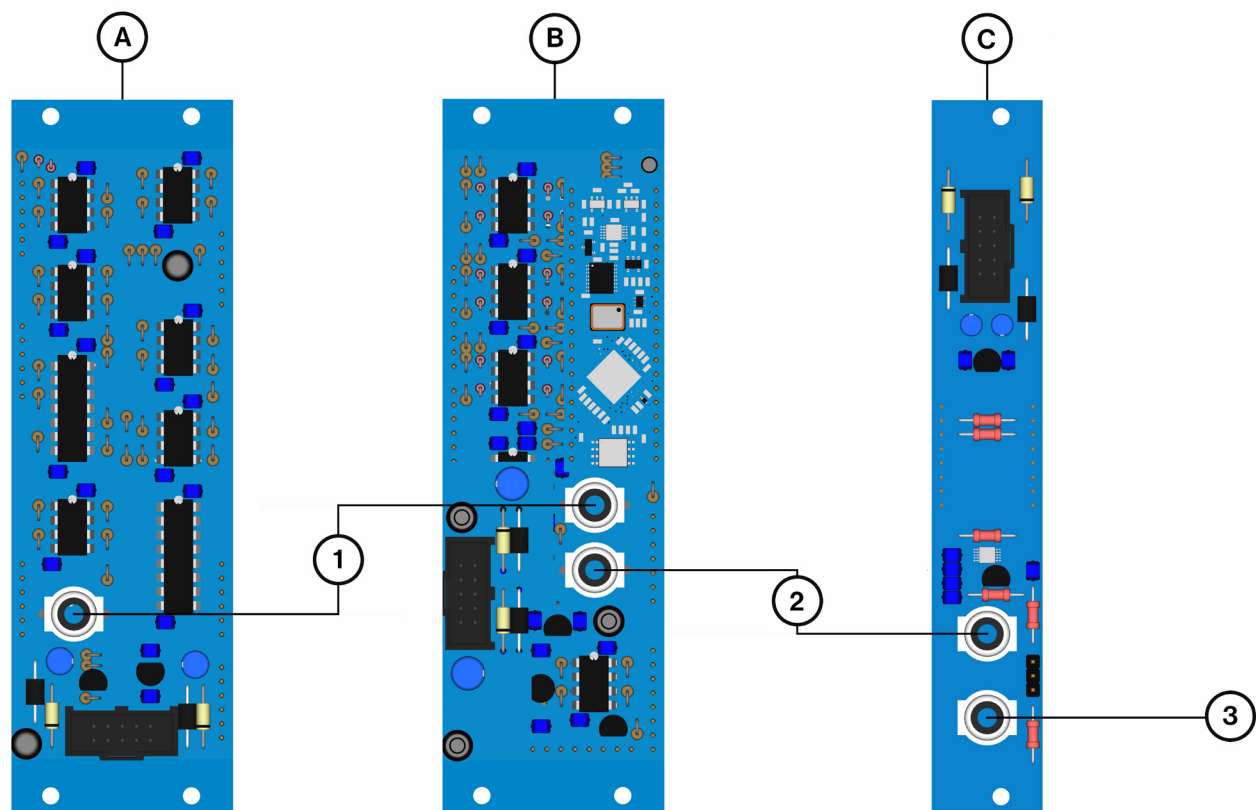
(A) VU003B Component2RGB/Luma Proc   (1) External video signal to sync generator
                                                (RCA cable)

(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 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 VU003B is duplicated 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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