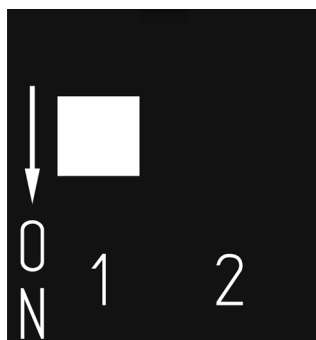


- Addition of 5 new formats not supported by the previous sync generator board:

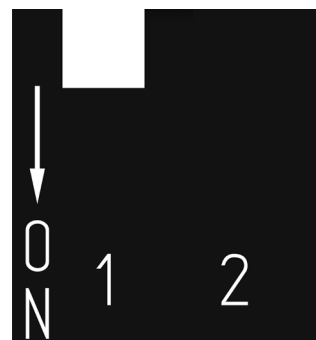
- 720p59.94
- 1080i59.94
- 1080p29.97
- 1080p23.98
- 1080p24

To select those formats, a DIP switch (position 2) has been added to the sync generator board, check the format selection page for details.

- Format autodetection feature: the previous sync generator board asked to set the format of the module to be the same as the format of external video. Format autodetection allows the sync generator to detect the external video format and automatically switch the internal format accordingly. The autodetection can be turned on or off with the DIP switch (position 1).



Autodetection OFF

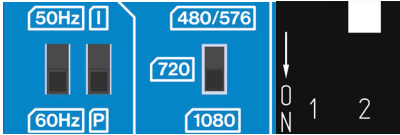
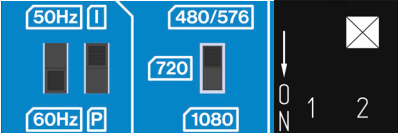
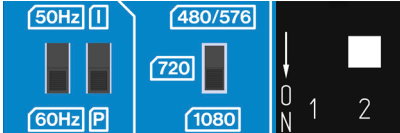
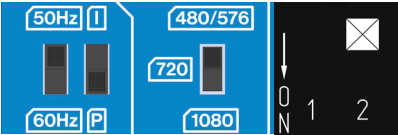
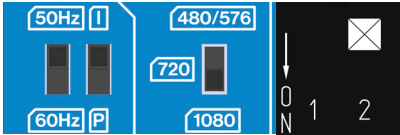
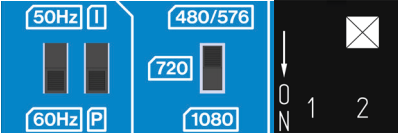

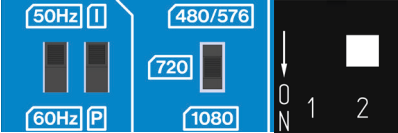
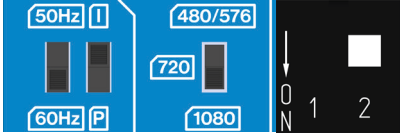

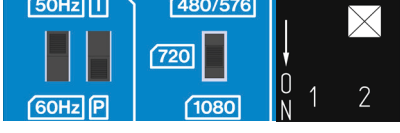
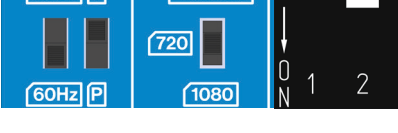
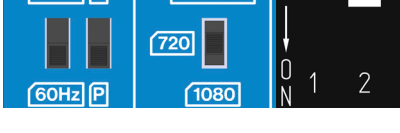

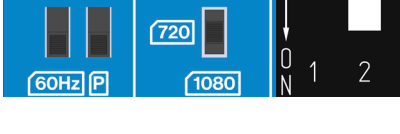

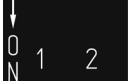


Autodetection ON

You can leave the autodetection on, as there is no particular issues after testing it for a couple months. When no external signal is present, the sync generator reverts to the format set by the front panel switches + DIP switch (position 2), until an external video signal is connected to the rear sync input on VU007B.

- Improved genlock: the previous sync generator board could take some time to fully lock to the external video signal, resulting in the external video slowly hovering left and right. It now locks (virtually) instantaneously.

Note : Assembled VU007B up to serial number **75** included are equipped with the previous sync generator board.

	<p>576i50 (PAL)</p>		<p>1080p29.97</p>
	<p>480i59.94 (NTSC)</p>		<p>1080p30</p>
	<p>576p50</p>		<p>1080i50</p>
	<p>480p59.94</p>		<p>1080i59.94</p>
	<p>288p50</p>		<p>1080i60</p>
	<p>240p59.94</p>		<p>720p50</p>
	<p>1080p23.98</p>		<p>720p59.94</p>
	<p>1080p24</p>		<p>720p60</p>
	<p>1080p25</p>		<p>This indicates that the position of the DIP switch is irrelevant for this format</p>

The updated sync generator board is a drop-in replacement of the existing board.

→ **VU007B SMD/Production version:**

- 1) Unscrew the module from the case and disconnect the power cable.
- 2) Locate the sync generator board (top right when looking at the module from the rear).
- 3) Remove the old sync generator board by lifting it up. Since only one side of the board is accessible, it may ask to use something long and thin in order to lift it on the side that isn't accessible.
- 4) Insert the new sync generator board and make sure the DIP switch located on the sync generator board is accessible from the top of the module. This will ensure that the sync generator board is oriented correctly.
- 5) Connect the power cable and screw the module back in place.

→ **VU007B THT/DIY version:**

- 1) Unscrew the module from the case and disconnect the power cable.
- 2) Locate the sync generator board (top right when looking at the module from the rear).
- 3) Remove the old sync generator board by lifting it up.
- 4) Desolder R77, R78 and R79 resistors, and solder them on the other side of the board, or replace them with 0805 or 0603 SMD 100ohm resistors, otherwise, they'll be in the way of the DIP switch.
- 5) Insert the new sync generator board and make sure the DIP switch located on the sync generator board is accessible from the top of the module. This will ensure that the sync generator board is oriented correctly.
- 6) Connect the power cable and screw the module back in place.