RAS-800

Frame Store with Recursive Noise Reduction for the Conversion to 100/120 Hz

The **RAS-800** is a universal frame grabber with adjustable noise reduction which has available two separate outputs.

- Resolution: 832 x 580 pixels
- Noise filtering: 4 levels adjustable
- 100/120 Hz output
- Sampling rate: 16 MHz
- Video bandwidth: ≥ 6.8 MHz

The board is equipped with two separate video outputs. One output provides the stored image with the same video norm as at the input. The other one provides a converted video signal for a completely flickerless display.
A flickerless display can be effected by an increase of the doubled field rate from 50 Hz to 100 Hz or from 60 Hz to 120 Hz.

The insertable, recursive filter makes possible to considerably improve noisy video signals. Up to 4 filter levels can be selected.

Options:

- In housing with power supply unit
- EIA input (525 lines/60 Hz)
- Right/left image swap at the 100 Hz output (mirror image)

Technical Data

- Video standard:
  625 lines, 50 Hz (CCIR) or
  Option: 525 lines, 60 Hz (EIA)
- Videoinput/output:
  Composite video signal 1 Vp-p/75 ohms
- Video output 1:
  625 lines/50 Hz (525 lines/60 Hz)
- Video output 2:
  625 lines/100 Hz (525 lines/120 Hz) or
  Display mode 100/120 Hz: ABAB
- Recursive noise filter with 4 levels
  (a = 0.5 / 0.25 / 0.125 / 0.0625 / off)
- Storage of:
  1 frame with 832 x 580 pixels
- Gray levels: 256 (8-bit)
- Sampling rate: 16 MHz
- Video bandwidth: ≥ 6.8 MHz (- 3 dB)
- Opto-coupling input for storage
- **RAS-800 PCB:**
  - Power consumption:
    + 5 V ± 5 % / 1.5 A
    + 12 V ± 5 % / 80 mA
  - Operating temperature: 0° to 50 °C
  - Dimensions: 100(w) x 160(l) mm
    (euro PCB)
- **RAS-800G**
  in housing with power supply unit:
  - Power consumption:
    220 V ± 15 % / 20 VA
  - Fuse: 2 A slow-blow
  - Operating temperature: 0° to 40 °C
  - Dimensions: 260(w) x 80(h) x 240(d) mm
  - Standards: DIN, VDE801, VDE871, CE

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