

VBS-700

Frame Grabber for one Image

The **VBS-700** is a universal frame grabber for one frame or two fields. Video signals of the following standard are processed:

CCIR 625 lines/50 Hz

EIA 525 lines/60 Hz

- Frame store resolution: 680 x 580 pixels
- 256 gray levels (8-bit)
- Sampling rate: 13 MHz
- Video bandwidth: ≥ 5.5 MHz
- *Option:* In housing with power supply unit

The frame grabber can be used to continuously digitize a video signal (for example X-ray images) and to store the last image (LIH).

The **VBS-700** is controlled via a parallel port, to which a triggering device (for example a foot switch) can be easily connected via opto-coupling devices. As the trigger moment is freely selectable, an image can be stored immediately after the signal is given or only after the next vertical sync signal.

It is not necessary to adjust the frame grabber to the CCIR or EIA standard, as it automatically provides the same signal on the output as available on the input.

Technical data

- Video standard:
625 lines, 50 Hz (CCIR) or
525 lines, 60 Hz (EIA)
- Video input/output:
Composite video signal 1 V_{p-p}/75 ohms
- Storage of:
1 frame with 680(H) x 580(V) pixels or
2 fields with 680(H) x 290(V) pixels
- Gray levels: 256 (8-bit)
- Opto-coupling input for storage
Sampling rate: 13 MHz
- Video bandwidth: 5.5 MHz (- 3 dB)
- Air humidity: 80 % non-condensing
- **VBS-700 PCB:**
 - Power consumption:
+ 12 V \pm 5 % / 0.6 A
- 12 V \pm 5 % / 0.2 A
 - Operating temperature: 0° to 50 °C
 - Dimensions: 100(w) x 160(l) mm
- **VBS-700G in housing with power supply:**
 - Power consumption:
220 V \pm 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