

BVS-II Wotan



Features BVS-II Wotan:

- High pulse-to-pulse-stability
- Burst-mode
- Easy to use with keypad and RS232
- Various trigger inputs
- UL listed / CE conform

Machine Vision Stroboscope

The Polytec stroboscopes are specially designed for machine vision. They provide a source of short duration, high intensity light pulses. When combined with a suitable fiber optic component, the object is set into the right light.

The heart of the stroboscope is an ultra stable pulsed Xenon flash lamp whose light output is focused by an elliptical reflector into the fiber optic.

The BVS-II Wotan has a maximum pulse frequency of 200 Hz. Through the integrated microprocessor an excellent pulse-to-pulse stability of between 1.5 % and 2.5 % can be achieved. The desired intensity can be achieved by an analogue signal, from the computer interface, or by setting the default value from the control panel. The triggering is possible via a TTL signal (5 V), SPS (24 V), or PAL/CCIR-video signal. In burst mode with one trigger signal several pulses can be delivered.

BVS-II Wotan Specifications

Flash lamp

Maximum energy	2.16 J electrical (approx.)
Maximum frequency	200 Hz (internal triggering adjustable from 1.0 to 200.0 Hz)
Pulse length	< 6 μ s FWHM (>25 % intensity) and < 5 μ s FWHM (>50 % intensity)
Spectrum	Approx. 300 nm to 1000 nm
Lamp lifetime	10 ⁸ Pulses with maximum energy (to 70 % remaining intensity)
Pulse-to-pulse intensity stability	Typical 2.5 %

Electronic

Intensity regulation via the control panel, computer or analogue input (1.4 - 6 V: BNC jack)
 Supervision against inadmissible adjustment
 Delay: min. approx. 10 μ s; adjustable to max. 3 ms in 0.01 % steps
 Burst mode (producing several flashes from one trigger signal)
 Pulse count (up to 999) and pulse interval (1 ms - 1 s) adjustable
 Supply voltage 85 V – 265 V/50 Hz – 60 Hz, Performance reception max. 75 VA

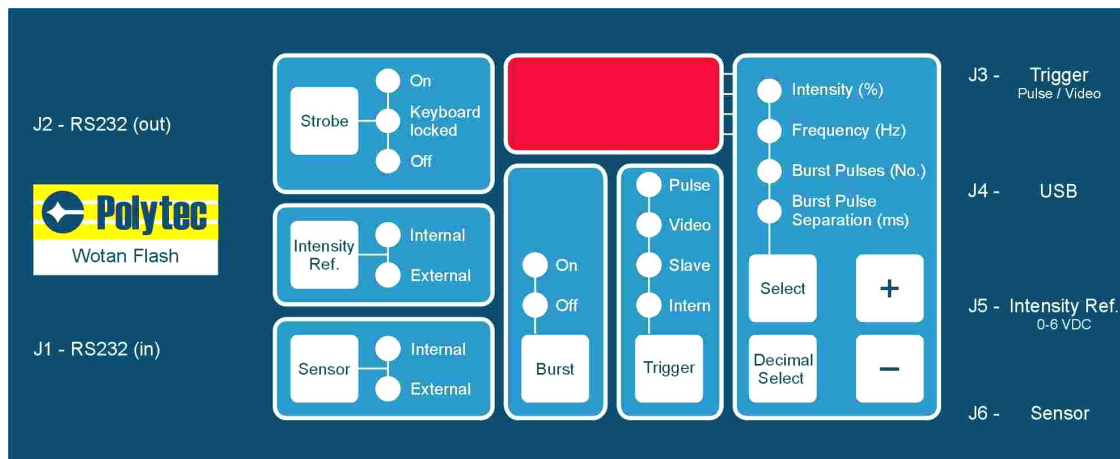
Interfaces

ColdVision (Schott North America) fiber optics connector with stopper
 Trigger input for TTL (5 V), SPS (24 V) and PAL-video signal (BNC-jack)
 Computer interface RS232 to control the stroboscope and to update the micro controller
 Up to 9 stroboscopes in RS232 network connection

Miscellaneous

Optional adapter kit with cable to interface with BVS-connector and base plate with BVS-dimensions
 Lock against misuse on control panel (hidden switch)

Control panel



Dimensions / weight / environmental conditions

Cabinet: Width x Depth x Height	106 x 166 x 182 mm ³
Base Plate: Width x Depth	110 x 190 mm ²
Weight	2 kg (approx.)
Operating temperature	0 °C to 43 °C
Humidity	0 – 80 %, non-condensing
Maximum altitude	3000 m above sea level (regarding flash lamp)
Industrial protection	IP 40

Ordering Information

BVS-II Wotan	Industrial Stroboscope 0 – 200 Hz for fiber optic illumination
BVS-II Adapter	Adapter box with cable and base plate Input: BVS-trigger Output: BVS-II-trigger
SA232535	Replacement lamp

Fiber optic components

The BVS-II is typically used with ColdVision fiber optics from Schott North America. Polytec offers a wide range of standard products (bundles, goosenecks, light lines, ring lights, backlights etc.) for different applications as well as specially designed custom solutions. Fiber optics from other companies may be used with adapters.



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