



UNIBLITZ®

Electro-Programmable Shutter Systems

UNIBLITZ® N-CAS® VDM1000 Shutter Driver Specifications (CE, UL, CSA)

Overview



The VDM1000 shutter driver device complies with CE, UL, CSA standards for laboratory equipment. The VDM1000 is the optimal driver for the new **UNIBLITZ® N-CAS®**, NS series shutters. The driver has user-selectable function switchers allowing it to handle a variety of shutter configurations. It will operate a **N-CAS** shutter equipped as uni-stable mode (normally open or normally closed) or bi-stable mode where no power is required to hold the shutter open or closed. In addition to this capability, the **N-CAS** return driver circuit can be disabled, allowing the VDM1000 to operate standard LS, VS, CS, and the DSS series shutters.

Simple and straightforward controls allow the VDM1000 to be easy to use and configure. LED indicators reveal shutter status at a glance. A toggle switch allows easy selection of normally open or closed operation. Addressable RS-232 control is also available via the 8-pin RJ45 connectors. Daisy chain additional VDM1000 units by connecting the RJ45 output of one controller to the RJ45 input of the next controller in the chain. The unit's specific address in the chain is selected via the ADDRESS rotary octal switch. The rear panel contains BNC connectors for the pulse input as well as output for the electronic synchronization. The BNC connectors allow for quick termination of TTL command signals.

Power is supplied to the VDM1000 via 2.0 mm male jack from an external power supply (included). Shutter output is a female 5-pin push-lock Switchcraft connector. A bank of user selectable function switches are accessible on the right side of the enclosure.

Features

- CE/UL/CSA Certification
- RoHS Compliant
- Microprocessor controlled
- Operates the N-CAS® in a bi-stable or uni-stable mode
- 5-pin Switchcraft locking shutter interface connector.
- 510A shutter interconnect cable included for NS25 and NS45 series shutters. (5-pin male Switchcraft to 5-pin female Switchcraft, 3 meters.)
- Operates existing UNIBLITZ® shutters such as LS, VS and the CS series, 710A interconnect cable required, not included. Will also operate the new bi-stable DSS series (special interconnect cable required).
- Normally open or normally closed shutter operation in uni-stable mode
- Indicators for power, driver active, and sync active indication
- Exposure determined by external pulse (BNC, TTL) or switch contact closure to PULSE INPUT BNC
- SYNC OUTPUT BNC can be selected for either active-low or active-high
- PULSE INPUT BNC can be selected for either active-low or active-high
- RS-232C input and output connection accessible via dual RJ45 connector
- Input and output controllable via RS-232 interface
- RS-232C input addressable via 8 selectable addresses
- Up to 8 units can be controlled independently from one computer serial port
- Units can be easily daisy chained with optional RJ45 cable, 810RJ, not included
- Status of electronic sync available from SYNC OUTPUT BNC (TTL) and can be read back from RS-232 interface
- Synchronization system can be disabled via user-selectable Function switch.
- Selectable pulse energy for operation of large aperture shutter devices, which require additional high-energy pulse for their operation.
- Selectable pulse high current duration for specific shutters via 8-position select switch.
- Black painted aluminum enclosure with slots for ventilation.

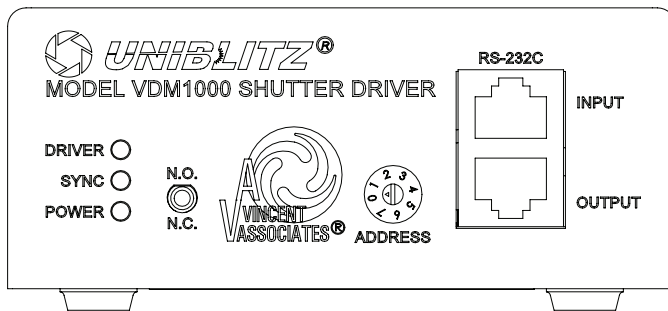
Features Continued

- Internal fuse protection for all DC output voltages (including shutter)
- Operates on +36VDC, Fuse protected.
- Power input to controller via 2.0mm jack, on/off control with rocker switch
- +36V DC, 1.83A, external power supply, PS36, included.
- Power input to supply 100-240 VAC. Power supply is UL/CE certified
- Size (HWD) 1.83 x 4.342 x 6.506 in (46.4 x 110.3 x 165.3 mm) controller
- Size (HWD) 1.80 x 3.00 x 5.8 in. (45.7 x 76.2 x 147.3 mm) power supply
- Weight 1.20 lbs (0.54 kg) controller
- Weight 1.10 lbs (0.50 kg) power supply

Options

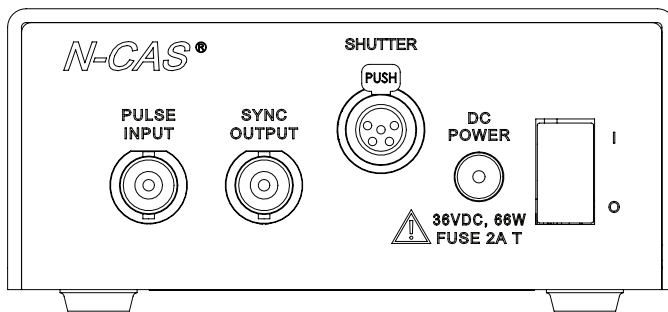
- **5103C** shutter cable (5-pin male SWC to 3-pin female Positronic)
- **710A** shutter cable (7-pin female WPI to 5-pin male SWC)
- **710R** remote hand-held trigger cable (used with active-low BNC)
- **710R/F** remote foot-switch trigger cable (used with active-low BNC)
- **810RJ RS-232C** interconnect serial cable (RJ45 connections)
- **910RJF** female DB9 to RJ45 adapter (used with 810RJ and PC)
- **910RJM** male DB9 to RJ45 adapter (used with 810RJ & VMM driver)

VDM1000 – Drawings



FRONT PANEL

Simple and straightforward controls allow the VDM1000 to be easy to use and configure. LED indicators reveal shutter status at a glance. A toggle switch allows easy selection of normally open or closed operation. Addressable RS-232 control is also available via the 8-pin RJ45 connectors. In addition, it is possible to daisy chain additional units through the RJ45 input/output on each unit. Chain up to eight units, and choose each specific address via the ADDRESS rotary octal switch.



REAR PANEL

The rear panel of the VDM1000 contains BNC connectors for Pulse Input as well as output of the electronic synchronization (Sync Out). The BNC connectors allow for quick termination of the TTL command signals. Power is supplied via a 2.0mm male jack from the external 36VDC power supply. The shutter output is a female 5-pin Switchcraft connector. Additionally, the right side of the case houses a bank of user selectable function switches to further expand the capabilities of the device.



803 Linden Avenue
Rochester, NY 14625
www.Uniblitz.com

585-385-5930 tel
800-828-6972 toll-free
585-385-6004 fax

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