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VMM-T1
SHUTTER DRIVER CONTROLLER

Vincent Associates 803 Linden Avenue, Rochester, NY 14625
web www.uniblitz.com **e-mail** vincentassociates@uniblitz.com **toll-free** 800.828.6972

UNIBLITZ® BY VINCENT ASSOCIATES

FEATURES

- Replaces the T132 controller.
- Exposure and delay interval range from .1ms to 2.8hrs.
- Precision crystal controlled exposure and delay timing.
- 0.5% timing accuracy.
- Duty cycle control throughout timing range in the continuous mode.
- .1ms resolution of exposure times.
- Delay timer can be positioned from post-exposure or pre-exposure.
- Continuous or 1-99 exposure selection operation via Exp. Preset control.
- Normally open or normally closed shutter operation.
- Exposure determined by external pulse source (BNC, TTL) or internal timer.
- Internal timer triggered by:
  - External trigger pulse (BNC, TTL)
  - Remote actuate cable
  - Front panel actuate pushbutton switch
- Internal timer reset by:
  - External reset pulse (BNC, TTL)
  - Remote actuate cable
  - Front panel reset pushbutton switch
- All BNC inputs can be controlled from a rising or falling edge.
- Exposure pulse output BNC, TTL.
- Delay pulse output AUX terminal #1.
- Electronic synchronization output BNC, TTL.
- All inputs controllable via RS-232 interface.
- RS-232 interface addressable via 8 selectable addresses.
- Up to 8 units can be controlled independently from one computer serial port.
- Selectable pulse energy for operation of the VS35 and VS45 shutter types.
- Cable included 710C shutter interconnect (7-pin male to 7-pin female. 10 ft.)
- Black aluminum enclosure.
- Operates on both 115 VAC and 230 VAC voltages, manual switching as required.
- Power input 115/230 VAC 3 prong plug.
- Size (HWD) 2.6 x 5.5 x 8.00 in. (6.60 x 13.9 x 20.3 cm).
- Weight 4.0 lbs (1.81kg).

The VMM-T1 is a complete timer/driver system for normally open or closed shutter operation. For precision control, flexibility, accuracy, and repeatability, it incorporates every feature necessary for most applications.

The VMM-T1 offers an exposure and delay interval range from .1ms to 2.8 hours. It also provides three choices for both internal timer activating and resetting. In addition to shutter control from the BNC inputs, these inputs can also be controlled via a computer serial port (RS-232C). By selecting the proper address for each unit, up to 8 devices can be controlled from one serial port.

OPTIONS

- 710R-(BNC male to hand held pushbutton switch.) For remote manual operation of the VMM-T1, this 10' remote activate cable is available. The 710R connects to any VMM-T1 input BNC connector. Upon depression of the hand held switch, the selected input BNC function will be activated. (A foot activated switch can be substituted for the hand held type; please order 710R/F.)
- 910RS-(9-pin D-sub female to 9-pin D-sub male.) For connecting a single VMM unit to a computer's serial port, this 10' interconnect cable is available. The 910RS connects the RS-232 computer serial port to the RS-232C input of the VMM-T1.
- 910RSDC-(9-pin D-sub female to 9-pin D-sub male/male module.) For connecting multiple VMM units to one computer serial port, this 10' interconnect cable is available. This cable effectively connects a number of VMM RS-232C ports to one RS-232 computer serial port, creating a "daisy chain." One cable is required for each unit desired within the chain.
- LVD96 - ("LVDS" Driver/Receiver Adapter.) For applications requiring an interface between LVDS (Low Voltage Differential Signaling) and TTL (Transistor Transistor Logic) signal levels.

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VMM-T1 FRONT PANEL

Timer configuration is easy and straightforward using the VMM-T1. EXPOSURE and DELAY intervals are selected by simple 4-digit push wheel switches, the (+) pushbutton increments a particular digit while the (-) pushbutton decrements. The number of exposures per trigger can be selected from 1-99 via the EXP. PRESET 2-digit push wheel switch. Zero indicates continuous operation. The 5 position rotary switches select the range for each TIME SELECT push wheel grouping. LED indicators reveal shutter status at a glance, while the toggle switches easily configure the VMM-T1 for specific control functions.

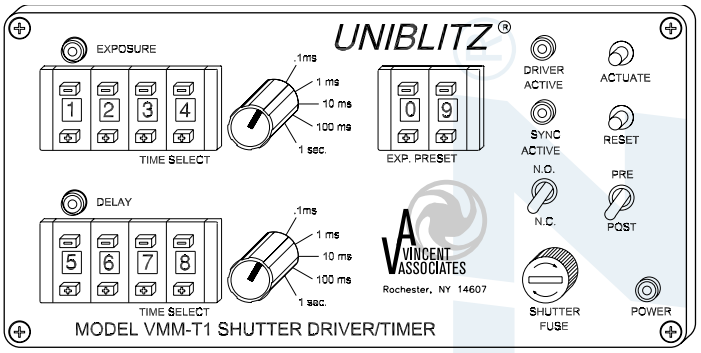


Figure 1

VMM-T1 REAR PANEL

All main input/output functions can be accessed at the VMM-T1 rear panel, including the 115/230VAC input. Manually selectable. Additionally, BNC connectors allow for quick termination of TTL command signals, FUNCTION SWITCHES A-D determine the active state of each of the BNC inputs (high or low level active). FUNCTION switch E selects HIGH/LOW status. Addressable RS-232C control is also available via the DB-9 connector. The unit's specific address is selected via the ADDRESS rotary octal switch.

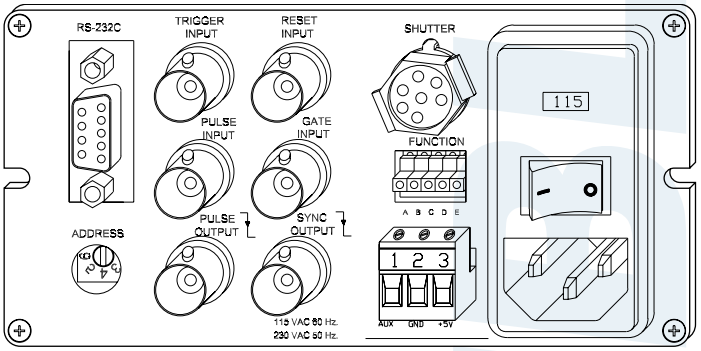


Figure 2

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