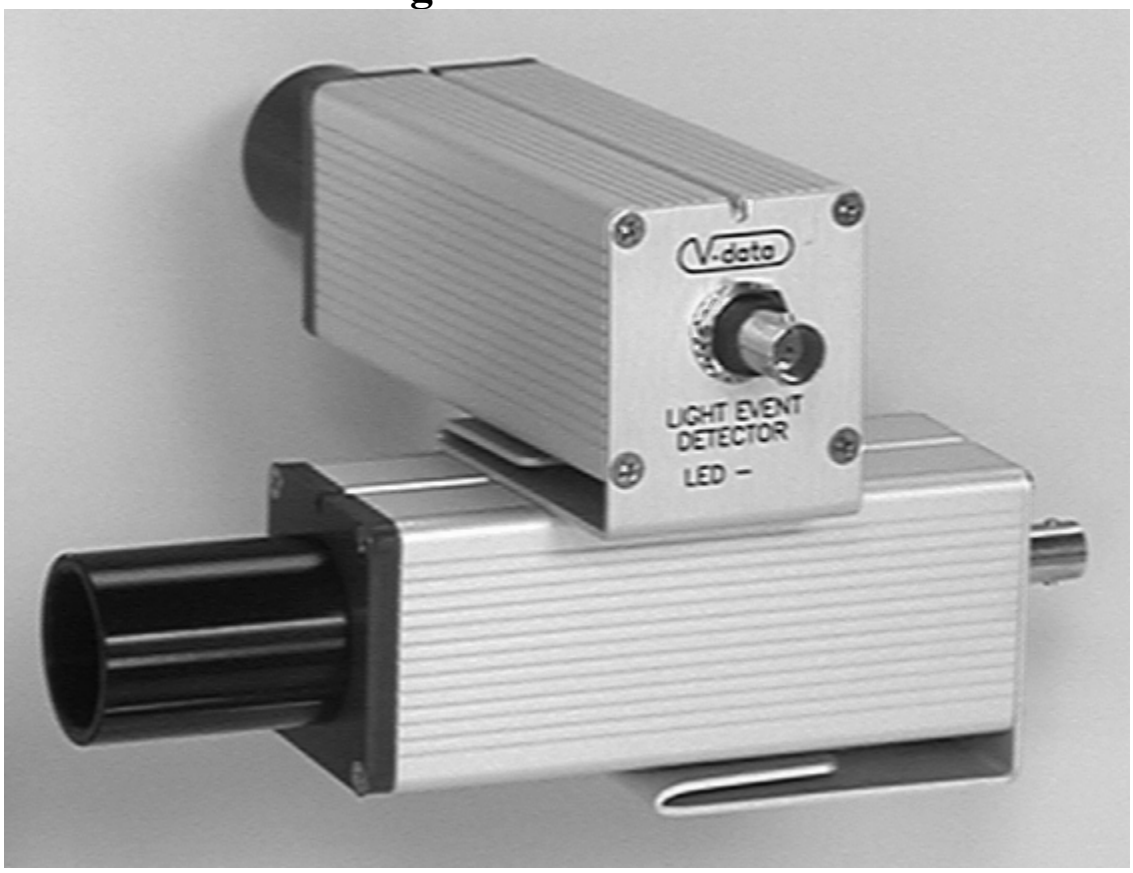
Light Event Detector



Light Sensitive Detectors Trigger on Transient Events

General

The Light Event Detector (LED) is designed to provide a trigger to high speed cameras and event time capture equipment. A single BNC connector on the LED serves as both power input and signal output when connected to the input of a CMOS Schmidt trigger with 10k ohm pull-up to 5VDC in the user equipment. The LED has a C-mount faceplate for lens versatility, and a ¼-20 captive nut for tripod mount. A sighting groove allows easly alignment with target. The LED is 3 ½ L x 1 ¾ W x 2 H and weighs ½ pound.

See Reverse Page for LED Versions and Prices

Ordering Information

Terms: Net 30 or MasterCard/Visa, Shipping Prepaid in USA

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V-data

Light Event Detector (LED) Versions and Prices

LED-1 (as shown)

The LED-1 is optimized for detection of infra-red light pulses of wavelengths up to 1.4 micro-meters. Use for muzzle flash, ignition, lightning, and laser pulse detection. Includes IR lens and sun shield. Field of View is 20 degrees.

Price:$1025.00

LED-2

The LED-2 is used for contrast detection of projectiles as they pass the vertical centerline of the LED field-of-view. Normal operation is with projectiles against a lighter background, but the LED-2 can be configured for front-lighted projectiles as well. A standard 8mm video lens is included.

Price:$1025.00

LED-3

The LED-3 is used for scoring projectile impacts on a virtual target, providing projectile velocity, and defining projectile trajectory. Used in pairs with orthogonal intersecting fields-of-view. Requires a processor and software. Uses C-mount video lens.

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Other Related V-data Products

Signal Conditioning Unit, Model SCU

Provides power to the Light Event Detector (LED) and converts the raw signal from the LED to a selectable variety of pulses for compatibility with any user device. The SCU has a Event indicator and Automatic and Manual reset modes.

Video Encoder/Decoder, Model VED-I

Annotates video with precision time from either IRIG-B timecode or GPS input. Captures and displays event times to milli-second accuracy. Directly compatible with the Light Event Detectors.

IRIG-B Timecode Generator, Model GTP

Generates IRIG-B timecode synchronized to internal GPS receiver. Directly compatible with the VED-I.