CHECK·LINE®

DS-2000LED
LED Stroboscope

- **Measuring Range:** 30 – 300,000 FPM (5000Hz, max)

- **Flash Brightness:** 1500 Lux (@ 6000 FPM)

- Produces the brightest flash and sharpest image over the entire range to 300,000 FPM.

- Lifetime LEDs never need replacement.

- Intuitive controls allow user to quickly adjust flash rate and shift phase.

- Three AA-batteries provide six hours of continuous use operation.

- User-selected units of Hz or FPM (Flashes Per Minute)

- NIST-Traceable Calibration Certificate provided.

- External trigger input/output is optionally available. Specify DS-2000LED-OT.
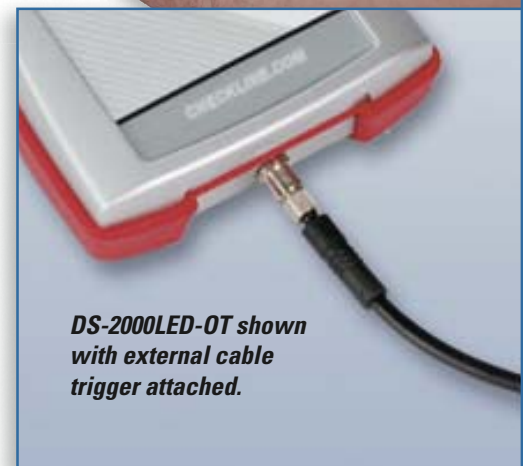
- 2-year warranty.

Designed for maximum performance, portability and ease of use.

DS-2000LED-OT shown with external cable trigger attached.

Designed for maximum performance, portability and ease of use, the DS-2000LED is a hand-held, battery powered LED Digital Strobe for use in speed measurement as well as for motion analysis. It is fitted with seven state-of-the-art, super-bright LEDs mounted in a precision-machined aluminum head with optimized optics, providing the highest light output of similar strobes on the market.

The DS-2000LED strobe can operate at the highest flash rates for up to six hours continuously on a single set of three standard AA-batteries. Keypad controls adjust the flash rate in single increments as well as special keys for 2X and ÷2 functions. Other user-programmable settings include flash duration, phase shift, delay and more.

The DS-2000LED features a high impact plastic case with rubber sleeve that provides additional protection and improves the operator's grip. Lifetime LEDs never need replacing, which makes the strobe ideal for use on the factory floor, in the field or the laboratory. Applications include speed, motion and vibration analysis on rotating shafts, fans, cams high-speed motion analysis for speakers or ink-jet printing and more.

Specifications

Frequency Range	30 – 300,000 FPM
Flash Duration	Adjustable (1 μsec up to 8522 usec)
Accuracy	0.02% (+/- 1 digit)
Resolution	± 0.1 FPM (30 - 999) ± 1 FPM 1000+
Brightness	1500 Lux @ 6000 FPM / 20cm (7.9 inch)
Protection Class	IP65 (Protection from Dust and Water Jets)
Display	LCD, multiple lines
Certification	CE (as per EU norms)
Flash Color	Approx. 6.500 K
Power Supply	3x AA size batteries or 3x NiMH rechargeable batteries
Housing Material	Aluminum / ABS Heavy duty design
Dimensions	7.5 x 3.2 x 2.4 inch *(191 x 82 x 60mm)*
Weight *(Approx)*	0.88 lbs. *(400g)* — including batteries
Temperature Range	32 – 113 °F *(0 – 45 °C)*
Battery Life	*NiMH:* approx 11h at 6.000 FPM *Disposable:* approx 6 h at 6.000 FPM
Warranty	2 Years

TRIGGER INPUT

Principle	Optocoupler, voltage-free
Low Level	< 1 V
Level	3 - 32 V, NPN + PNP

TRIGGER OUTPUT

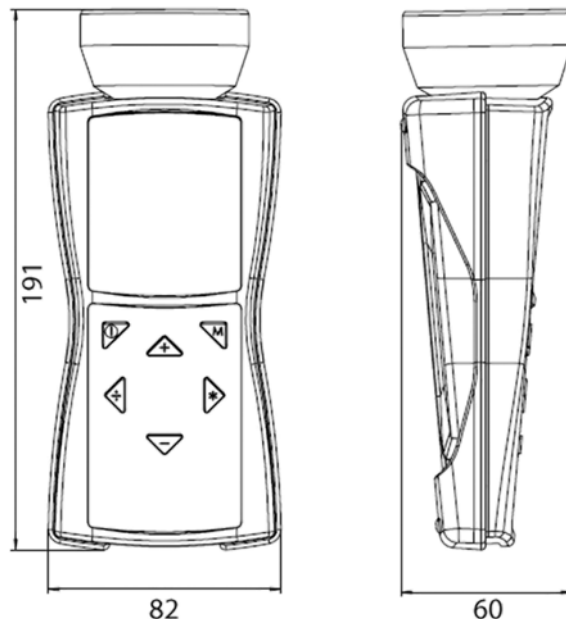|	
Principle	Short-circuit and overvoltage proff transistor output to the optocoupler control, non-isolated
Level max.	NPR, max 32V
Pulse Length	Adjustable
Maximum current	50mA
Reverse voltage protection	Yes

Complete Kit

DS-2000LED Strobe is supplied in a foam-fitted carrying case with six AA batteries, Traceable Calibration Certificate and Operating Instructions.

DS-2000LED-OT Strobe also includes connector for external trigger signal and 10 foot *(3 meter)* trigger cable.

Dimensions *(in mm)*

191

82

60

CHECK•LINE® – PRECISION QUALITY CONTROL INSTRUMENTS

For additional information or to place an order CALL TOLL FREE 1-800-645-4330