

The **PLS Pocket LED Stroboscope** is a compact, rugged, light weight device that provides a super bright, uniform light output for performing visual diagnostic inspection and RPM measurements. The silent cool running LED's are extremely energy efficient providing up to 5 hours of operation on a single charge. The **PLS** has a wide operating range of 30-300,000 flashes per minute which covers most industrial applications. Additional features include external input for remote triggering or tachometer mode, pulse output, memory for up to 5 preset flash rates, NIST calibration certificate, tachometer mode for speed measurements up to 300,000 RPM using optional remote sensors and TTL pulse output.

Features

- Energy efficient with long battery life
- Extremely bright, uniform light
- Quiet/Cool operation
- No lamp replacements
- Diagnostic inspection and RPM checks
- Compact size
- Lightweight
- Digital LCD backlit display
- Tripod mounting bushing (1/4"-20)
- CE marked, RoHS compliant
- NIST certificate included
- Intuitive one hand operation



7 LED Array



Specifications

Display:	LCD display with 6 numeric 0.506 inch (12.85mm) high digits and 5 alphanumeric 0.282inch (7.11mm) high digits
Indicators:	Battery level, On Target, Select, TACH, and EXT icons
Memory:	Last setting before power down is remembered and restored on next power up. 5 user settable memory locations
Flash Duration:	Adjustable 0.5 to 2500 microseconds or 0.1 to 14 degrees of rotation (auto adjusts with flash rate)
Power:	Battery powered: Internal Li-Ion rechargeable batteries 3.6Vdc
Light Source:	7 LED Array
Light Output:	2000 Lux at 6000 FPM 12" (30.48cm) from lens 2" duty cycle Max light output: 8300 Lux
Color Temp:	approx. 6200°K
Run Time:	5-6 hours typical at 6000 FPM, and 2" duty cycle with fully charged batteries
Charge Time:	4-5 hours typical with supplied charger
Weight:	0.6 lbs. (0.27kg) including batteries
Dimensions:	7.75" x 2.75" x 2.3" (197 x 70 x 58 mm)

Internal Mode:	
Flash Range:	30-300,000 FPM (Flashes per minute) 0.5 to 5000Hz
Flash Rate Accuracy:	0.005% of setting or ± last digit
Flash Rate Resolution:	0.01 to 1 FPM (menu selectable), 0.1 FPM resolution above 9,999.99 FPM, 1 FPM resolution above 99,999.9
External Modes:	
Flash Range:	0-300,000 FPM (Flashes per minute) 0 to 5000Hz
Tachometer Mode:	30 to 300,000 RPM
Accuracy:	±0.005% of reading or ± last digit
Display Update Rate:	0.5 second typical above 120 RPM
Trigger to Flash Delay:	~15 µsec
External Input:	2.5V to 12V peak pulse 500 nanosec min pulse width, positive or negative edge triggered (menu selectable)
Pulse In to Out Delay	<0.2µsec
Output Pulse:	3V pulse. One pulse per flash in internal mode. Mimics input pulse in external mode

Ordering Information

Description	Part No.
PLS Pocket LED Stroboscope, universal 115/230 VAC recharger with interchangeable wall plugs, manual and NIST calibration certificate	6235-010
PLS Kit Same as above with die cut foam lined latching carry case	6235-011
PLS Kit Plus Same as PLS Kit above. Also includes ROLS-P Remote Optical Sensor for triggering flash or for use as a laser tachometer	6235-012
Accessories	
Pouch Protective carry pouch with belt hook	6280-073
LBC-U Lithium Battery Charger 115/230 VAC recharger with interchangeable wall plugs	6280-027
BAT-PLS Replacement Li-Ion battery pack	6280-074
ROS-P Remote Optical Sensor with 1/8" phone plug connector, 8 foot cable and 12 inches of reflective tape	6180-057
ROLS-P Remote Optical Laser Sensor with 1/8" phone plug connector, 8 foot cable and 12 inches of reflective tape	6180-029
T-5 T-5 reflective tape, 5 foot roll x 1/2" wide	6180-070
CC-13 Latching carry case for PLS	6280-072