

## Nova-Strobe LED Portable Stroboscopes

### Adjustable brightness control in a lightweight industrial design

- Energy efficient with long battery life—up to 10 hours
- Twelve-button keypad makes entering flash rates quick and easy (DBL, PBL series)

These rugged industrial LED stroboscopes offer an extremely bright, uniform light output for performing stop motion diagnostic inspection and rpm measurements. The twelve LED light source design provides an extremely efficient light source resulting in continuous cool operations leading to a long battery life. With a wide operating range of 30 to 500,000 flashes per minute, these units cover most applications.

**BBL Series (53502-00, -01)** is designed for simple stop motion inspection and rpm measurement applications.

**DBL Series (53502-02, -03)** offers all the standard features of the BBL series with the addition of internal phase shifting, memory for up to five preset flash rates, and tachometer mode for speed measurements up to 500,000 rpm using optional remote sensors or TTL pulse input/output.

**PBL Series (53502-04, -05)** has all the features of the DBL series with the addition of external phase delay, time delay, virtual rpm mode, and a power supply/recharger that allows for 24/7 continuous operation.

**What's included:** NIST calibration certificate supplied by the manufacturer (DBL and PBL series only). Kits for BBL and DBL series add a plastic latching carrying case. Kit for PBL series adds a deluxe watertight, foam-lined carrying case.



53502-00

**NEW**



53502-00



53502-02



53502-04

### Specifications

**Range:** 30 to 500,000 fpm

**Resolution:** 0.002% of setting

**Accuracy:** ±0.01 fpm

**Flash duration:** adjustable

**Flash color:** 6300 K

**Display:** 6-digit numeric, 5-digit alphanumeric LCD

**Battery life:** 8 to 10 hours typical at 1800 fpm

**External triggers (DBL and PBL series):**

TTL (24 VDC max) input; 3.3 VDC TT output

**Dimensions (W x H x D):** 3 3/8" x 9" x 3 1/2" (9.2 x 22.8 x 8.9 cm)



Series	Power source	Stroboscope only		Stroboscope kit	
		Catalog number	Price	Catalog number	Price
BBL	Internal NiMH batteries and 115/230 VAC, 50/60 Hz recharger with US, UK, AUS, and Euro adapter plugs	<a href="#">TW-53502-00</a>		<a href="#">TW-53502-01</a>	
DBL	Internal NiMH batteries and 115/230 VAC, 50/60 Hz recharger with US, UK, AUS, and Euro adapter plugs	<a href="#">TW-53502-02</a>		<a href="#">TW-53502-03</a>	
PBL	Internal NiMH batteries and 115/230 VAC, 50/60 Hz power supply/recharger with US, UK, and Euro adapter plugs	<a href="#">TW-53502-04</a>		<a href="#">TW-53502-05</a>	

[TW-53502-06](#) Remote optical laser sensor

[TW-17050-10](#) NIST-traceable calibration with data for stroboscopes

## LED Stroboscope

### High-efficiency LED light source never needs replacement like traditional xenon lamps

- Provides extended battery life of 10 hours continuous use at 6000 fpm/rpm
- Auto wide measuring range up to 120,000 fpm/rpm

This LED stroboscope is designed to measure the speed of rotating or cycling linear motion objects without contact or reflective tape, as well as freeze motion visually. The rugged aluminum housing, latest LED technology, and NiMH rechargeable battery make it a perfect choice for use anywhere on the factory floor. Unit is ideal for speed, motion, and vibration analysis, such as rotating shafts, fans, cams, and more. The pulse width modulation provides sharp images at high speeds, and highly stable drift-free operation. Additional features include push-button operation with x2 and ÷2 buttons for easy and precise adjustment, external trigger input and output, digital phase shift, and memory storage for records or quick restarts.

**What's included:** AC adapter/charger, wrist strap, and carrying case.

### Specifications

**Range:** 6.0 to 120,000 fpm/rpm

**Resolution:** ±0.1 fpm/rpm

**Accuracy:** ±0.007%, ±1 LSD

**Display:** 5-digit LCD

**Power:** NiMH rechargeable battery

**Dimensions (W x H x D):** 3" x 7 1/2" x 1 1/4" (7.6 x 19 x 3.2 cm)



Catalog number	Description	Price
<a href="#">TW-53565-50</a>	LED stroboscope	

[TW-17050-10](#) NIST-traceable recalibration with data for stroboscopes



53565-50