

# LED Stroboscope

## With Adjustable Flash Duration

### Model ESL-100

The ESL-100 series 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. Built with an aluminum housing and the latest technology, it's compact size, NiMH rechargeable battery and lifetime LED lights make it a perfect choice for use anywhere on the factory floor. Adjustable flash rate for sharp images at high speed. The ESL-100 is ideal for speed, motion and vibration analysis, such as rotating shafts, fans, cams, etc.

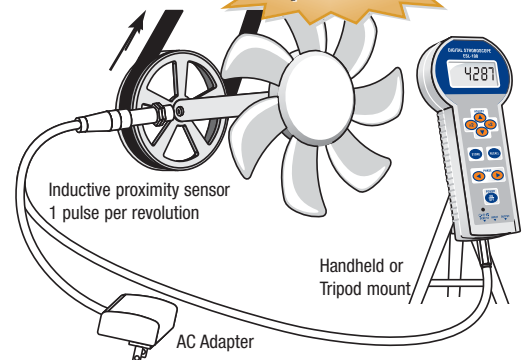
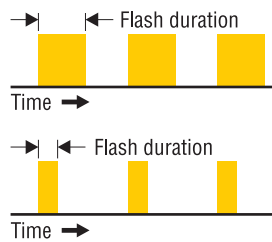
The brightest, fully featured LED stroboscope in a trim, efficient design.

- High efficiency LED solid-state light source – never needs replacement
- Extended battery life of **10 hours** continuous use at 6,000 fpm/rpm
- Highly stable drift free operation
- Auto wide measuring range – up to 120,000 fpm/rpm
- Push button operation with x2 and ÷2 buttons for quick adjustment
- 359° Digital phase shift adjustment by 1° increments
- Store up to 19 flash rates in memory for records or quick retests
- Rugged aluminum housing – compact size – weighs only 1.2 lb (540 g)
- Easy-to-read 5 digit 0.47" (12 mm) high LCD
- External trigger input and output
- Tripod mountable
- Kit includes stroboscope, AC Adapter/charger, and carrying case.

### Adjustable Flash Duration

For most applications standard flash duration works without adjustment. For ultra high rpm or larger objects rotating with high surface speed, ESL-100 features adjustable flash duration.

For ultra high speed applications, objects may move during the brief period of a single flash, resulting in a blurred image. By decreasing flash duration, objects have less time to move and the image will appear sharper.



### Optional ET-1 External Trigger Kit

The External Trigger immediately synchronizes the stroboscope with a rotating object. The sensor is aimed at a ferrous target mounted on the drive shaft and triggers the strobe to flash each time the target passes the sensor. ET-1 is complete with sensor, cables and AC adapter. Ferrous target not-included.

Specifications	
<b>Range</b>	<b>Resolution</b>
6.0 to 9999.9 fpm/rpm	±0.1 fpm/rpm
10000 to 120000 fpm/rpm	±1 fpm/rpm (over 100,000 display flashes)
Accuracy:	±0.007%, ±1 LSD
Display:	12mm high, 5digit LCD
Power:	NiMH rechargeable battery
Battery Life:	10 hours (@6,000 rpm when fully charged)
Operating Temp:	0 to 45° C
Weight:	1.2 lb/540 g

Specifications	
Target Material	Ferrous material
Target Size	4mm Ø (minimum)
Sensing Distance	3mm (based on 10 mm Ø target)
Max Speed	50 m/min (using 10mm Ø target)
Max Frequency	1 KHz
Sensor size	12 mm Ø x 45 mm; M12 connector
Cable Length	1.8 m (6')
Power	AC adapter (up to 240VAC)

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