

### Series ST-1000 LED Stroboscope Tachometer

**The Shimpo Series ST-1000 is a Stroboscope-Tachometer with LED flash technology.** This velocity analyzing and measuring device is ideal for rotational machine inspection. The stroboscope is capable of flashing the light in a synchronous frequency to the operating machinery, creating the illusion of viewing stopped or slowed images. Utilizing this phenomenon of slowing or stopping the motion with the adjusted rate of the ST-1000's flashing light, machine parts and processes may be inspected for defects. Plus, the rotational speed of the machinery and systems may be recorded for further performance analysis.

The ST-1000 is adjustable in either coarse or fine step flash-rate tuning. The backlit display shows the current flash rate, 10 user-stored pre-set flash rates, as well as a low battery warning. The backlit feature can be switched off to save battery life if desired. The ergonomic, hand held device is made of sturdy ABS plastic and comes with batteries and protective carrying case. The LED technology extends operation due to the low energy requirement of the light diodes compared with xenon stroboscopes. Typical applications for using the ST-1000 is to inspect rotors, meshing gears, vibration diagnostic equipment, textile equipment, printing production lines, power tools, speaker acoustical analysis, fan balancing and many more.



#### Easy Operation Control

**Flash Rate  
Storage Button**



Power/Stored Rate Retrieval Button

UP

Flash Rate Value Increase Button

DOWN

Flash Rate Value Decrease Button

FINE  
ADJUST

Coarse/Fine Tuning Button



Flash Rate Storage Button - 10 user defined flash rates for later retrieval

## ST-1000 Specifications

Range	60-40,000 Flash Rate Per Minute (RPM)
Accuracy	+/-0.05% FS
Lux Rating	1400 Lux @ 3000 RPM & 3.9 in (10 cm); 1180 Lux @ 3000 RPM & 7.9 in (20 cm); 860 Lux @ 3000 RPM & 11.8 in (30 cm)
Display	5 digits with backlight 40000 maximum reading
Resolution	<1000 RPM: 0.1 RPM; >1000 RPM: 1 RPM
Tuning	<1000 RPM: Coarse=10 RPM increments; Fine= 0.1 RPM increments. >1000 RPM: Coarse=100 RPM increments; Fine= 1 RPM increments
Rate Storage	10 stored user-defined flash rates. Factory Defaults: 4000, 8000, 12000, 16000, 20000, 24000, 28000, 32000, 36000, 40000.
Power Supply	4 AA batteries. Approx. 10 hours use with backlight on; 12 hours when off.
Housing	ABS Plastic
Dimensions	7.7 x 2.9 x 1.5" (195 x 73 x 38 mm)
Product Weight	Approx. 7 oz. (200 g)
Package Weight	Approx. 1.5 lb (680.4 g)
Included Accessories	Protective carrying case, 4 AA batteries
Certification	CE

## Ordering Details

ST-1000	LED Stroboscope Tachometer with Included Protective Carrying Case
NIST-LEDSTROBE	NIST Traceable certificate for LED Stroboscopes, includes data

## Accessories

PBH-900	Padded Belt Holster
---------	---------------------



Checking Fan Speed and Balance



Quiet Operation Allows  
Acoustical Speaker Analysis