

### Series ST-1100 LED Stroboscope

**The Shimpo Series ST-1100 is a Stroboscope** 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-1100'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-1100 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-1100 is to inspect rotors, meshing gears, vibration diagnostic equipment, textile equipment, printing production lines, power tools, belt timing, fan balancing and many more.



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#### 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-1100 Specifications

<b>Range</b>	60-40,000 Flash Rate Per Minute (RPM)
<b>Accuracy</b>	+/-0.05% FS
<b>Lux Rating</b>	950 Lux @ 3000 FPM & 3.9 in (10 cm), 600 Lux @ 3000 FPM & 7.9 (20 cm), 370 Lux @ 3000 FPM & 11.8 (30 cm)
<b>Display</b>	5 digits with backlight
<b>Resolution</b>	<40,000: 1 RPM; <4000: 0.1 RPM; <400: 0.01 RPM
<b>Rate Storage</b>	10 stored user-defined flash rates. Factory Defaults: (RPM): 200, 400, 1000, 2000, 3000, 4000, 10000, 20000, 30000, 40000.
<b>Power Supply</b>	4 x 3.7V (14500) AA Lithium ion rechargeable batteries
<b>Battery Life</b>	Approximately 20 hrs.
<b>Housing</b>	ABS Plastic
<b>Dimensions</b>	7.7 x 2.9 x 1.5" (195 x 73 x 38 mm)
<b>Product Weight</b>	Approx. 7.8 oz. (220 g)
<b>Package Weight</b>	Approx. 2.1 lb (952 g)
<b>Warranty</b>	1 Year
<b>Included Accessories</b>	Case, 4 Lithium Batteries, Battery Charger

## Ordering Details

<b>ST-1100</b>	Compact LED Stroboscope with Included Protective Carrying Case and Rechargeable Batteries
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Checking Fan Speed and Balance



ST-1100 with included rechargeable batteries and carrying case.

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**Instruments Division**