

POCKET STROBE P-1

Check the motion without stopping it.

Lightweight! Bright! Long Life!

Built-in Ultra-bright White LEDs

Pocket-sized LED Stroboscope



Stroboscopes are being applied in various fields such as, measuring the motor speed, checking rapidly moving machinery parts, surface inspection in steel and printing industries, and study and analysis of high-speed phenomena in R&D.



Brightness can be freely adjusted.

Wide flashing range
30–360,000 FPM

Lightweight 200 g
pocket-sized body



Powered by 2 AA batteries

6 times brighter than our conventional model
Uniform illumination
Saving time and costs of lamp replacement

POCKET STROBE P-1

High brightness from a pocket-sized strobe!

Two ways to set the flash duration

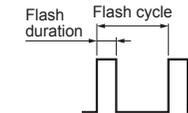
Duty cycle setting mode

Brightness can be adjusted in ten steps from 0.1% to 1%. Since light intensity is constant at the set ratio, brightness of the strobe image is constant even when the flash frequency is increased or decreased. ▶ It is suitable for usual rotational speed measurement.

What is duty cycle?

Duty cycle is the ratio of flash duration to flash cycle.

For example, when the flash cycle is 100 μ sec and the flash duration is 1 μ sec, the duty cycle is 1%.



Time setting mode

Flash duration can be controlled by setting it from 0.1 μ sec to 1% of the flash cycle (up to 500 μ sec) in increments of 0.1 μ sec. Since flash duration is constant at the set time, sharpness of the strobe image is constant even when the flash frequency is increased or decreased. ▶ It is suitable for observing high-speed moving/rotating objects.

Specifications

Flash range	30–360,000 FPM Resolution: 0.1 FPM
Flash duration setting	Duty cycle: 0.1–1% of a flash cycle Time: From 0.1 μ sec to the time equal to 1% of a flash cycle (max 500 μ sec)
Light source	Ultra-bright white LEDs
Battery	Two LR6 (AA) batteries (sold separately) Battery Life (at 6,000 FPM and duty cycle 1.0%, typical) 4 hours with rechargeable Ni-MH batteries 2 hours with alkaline batteries
Weight	200 g
Dimensions (L×W×H)	135 × 76 × 27 mm
Accessory	Silicon cover

⚠ Read the instruction manual before using the device to ensure safety and to avoid damage to the device.

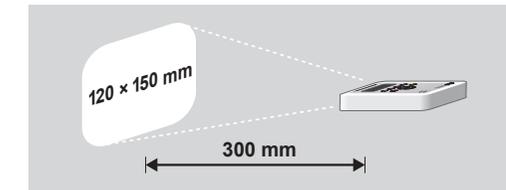
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Uniform and bright illumination

P-1 illuminates a range of 120 × 150 mm uniformly from a distance of 300 mm.

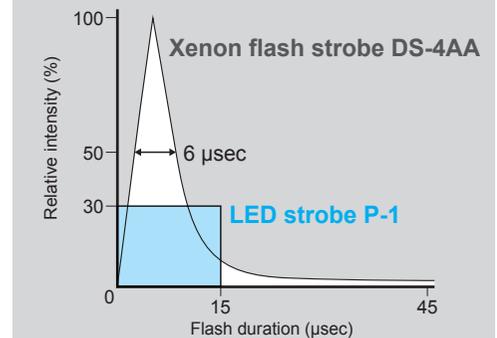


Easy-to-use LED strobe

Xenon lamp strobes have an advantage in ultra-fast rotational speed measurement and extremely small target observation. LED strobes are easier to use for ordinary speed measurement and standard observation.

Flash duration of LED strobe P-1 and xenon flash strobe DS-4AA

(200 mm distance, 6,000 FPM)



Xenon lamp strobes feature instantaneous flash light of high intensity. LED strobes emit a large amount of light by adjusting the flash duration.

● Silicon cover (accessory)

*Suitable for anti-slip and for protection



Equipped with high-intensity, long-life, ultra-bright white LEDs



OEL display easy to see even in bright places

Flash-duration-adjustment mode switching

Flash-duration setting key
Flash duration and brightness can be freely adjusted.

+/- Key

Measuring rotational speed using Pocket Strobe P-1

Draw a mark on the rotating body. Illuminate the mark using Pocket Strobe P-1.

Press the '+/- key'. The value shown when the mark becomes a single stationary image is the rotational speed.

For best results, start with a high flash frequency and gradually lower it to search for the image.

If the mark is hard to see, increase flash duration by pressing the 'Flash-duration setting key'.

The subject appears as a single stationary image either when the flash frequency is equal to the speed or is an integer fraction of it.

When a single stationary image appears, press the '×2' key. If the value is correct, pressing the '×2' key will produce two images.

