# PORTABLE LED STROBOSCOPE

## PCE-LES 500




- **frequency: 50 ... 50,000 FPM**
- **light source 28 LEDs**
- **illuminance: 2439 lux @ 50,000 FPM / 20 cm**
- **phase shift: 0 ... 359 °**
- **external trigger input**
- **ergonomic handle**
- **2 removable rechargeable batteries**
- **measurement on coils and flat trajectories**

Our extremely powerful portable LED stroboscope is unrivalled in terms of light intensity, operation and technology. This very robust and precise hand-held stroboscope is used for measurements in demanding industrial environments and is specially designed for maintenance, commissioning and inspection. The way it works is very simple: fast-moving parts are optically "frozen" and thus made visible to the human eye. In this way, defective components or sub-optimal settings can be detected and corrected during operation.

With its wide measurement range of 50 to 50,000 FPM, it is versatile and offers precise measurements for a broad range of applications. Its compact size and low weight make it extremely handy and ensure that it can be taken anywhere. Equipped with 28 energy-saving and long-lasting LEDs as a light source, the portable LED stroboscope guarantees reliable performance and a long service life. With a resolution of 0.1 FPM and an accuracy of 0.01%, it delivers extremely precise measurement results that fulfil even the highest demands. It is used, for example, for measuring steel and aluminium coils, flat trajectories or other rotating objects.

In addition, the portable LED stroboscope impresses with an appealing illuminance of 2439 lux at 50,000 FPM and a distance of 20 cm. The adjustable phase shift from 0 to 360 degrees enables precise synchronisation with other devices or processes and makes it an extremely versatile tool.

## Specification

| Frequency | |
|---|---|
| Measuring range | 50 ... 50000 FPM |
| Resolution | 0,1 FPM |
| Accuracy | ±0.01 % of Rd |

| Frequency | |
|---|---|
| Measuring range | 1 ... 1000 FPS |
| Resolution | 0,01 FPS |
| Accuracy | ±0.01 % of Rd |

| General technical data | |
|---|---|
| Display type | 7-segment display |
| Operating time | 4 h |
| Light source | 28 LED's |
| Luminous intensity | 2439 Lux @ 50.000 FPM / 20 cm |
| Phase shift | 0 ... 359 ° |
| Pulse width | 8 ... 100 µs |
| Trigger input | greater than + 2.5 V peak, 20 µs min. Pulse width<br>Sensor supply: 12 V, 50 mA |
| Protection class (device) | IP20 |
| Power supply | 14.4 V DC |
| (Rechargeable) battery | 2 x 14,4 V internal , Nickel-metal hydride battery |
| Capacity | 3000 mAh |
| Operating conditions | 0 ... 50 °C , 0 ... 95 % RH |
| Storage conditions | 0 ... 50 °C , 0 ... 95 % RH |
| Dimensions ( L x W x H ) | 270 x 130 x 140 mm |
| Weight | 903 g |