# PORTABLE LED STROBOSCOPE

## PCE-LES 350

» **Frequency 50 ... 12000 FPM**

» **Doubling/division of FPM at a keystroke**

» **Light source 144 LEDs**

» **Flash frequency units: FPM, Hz, m/min**

» **Integrated Li-ion battery**

» **Adjustable flash duration 1 ... 250 min**

» **Quick one-hand operation**

» **Illuminance: 6270 lux @ 12000 FPM / 20 cm**

Our portable LED stroboscope offers the possibility of precisely recording and analysing fast movements. With a measurement range of 50 to 12000 FPM and a high accuracy of 0.01 %, movements at different velocities can be analysed with high precision.

Our portable LED stroboscope uses 144 high-performance LEDs to generate short, intense flashes of light that are emitted at regular intervals. These flashes are synchronised with the movement or machine being examined, giving the impression that the movement is frozen or extremely slow. This phenomenon is based on the proven principle of stroboscopy, in which the eye only perceives intermittent images of fast-moving objects through discrete flashes of light. The illuminance is 6270 lux at 12000 FPM and a distance of 20 cm. Measurements are simplified by the auto-scan function which gradually increases the flash frequency to quickly establish synchronisation.

For easy adjustment of the flash frequency, our portable LED stroboscope offers options in increments of 1 as well as the possibility to double or halve the flash frequency. Depending on your requirements, the flash frequency can be selected in FPM, Hz or m/min. To save energy and extend battery life, it is equipped with an automatic power-off function and an adjustable flash duration of 1 to 250 minutes. Our handy and portable LED stroboscope can be used in various fields such as industry, science and research as well as in the music industry.

## Specification

| Frequency | |
|---|---|
| Measurement range up to | 50 ... 12000 FPM |
| Resolution | 0,1 FPM |
| Accuracy | ±0.01 % v.Mw. |
| **Frequency** | |
| Measurement range up to | 1 ... 200 Hz |
| Resolution | 0,01 Hz |
| Accuracy | ±0.01 % v.Mw. |

| General technical data | |
|---|---|
| Units | Hz, f/m, m/min |
| Display type | Graphic LCD |
| Operating time | 4 h |
| Automatic power-off from...to | 1 ... 250 min. |
| Luminous intensity | 6270 Lux @ 12000 FPM / 20 cm |
| Pulse width | 8 ... 50 µs ( ±1µs ) |
| Light source | 144 LED's |
| Menu language | English, Chinese |
| Protection class (device) | IP20 |
| Power supply | 100 ... 240 V AC | 50 ... 60 Hz, 0.5 A |
| Connector type | Device-europlug |
| Weight | 435 g |
| Operating conditions | 0 ... 50 °C , 0 ... 95 % r.F |
| Storage conditions | 0 ... 50 °C , 0 ... 95 % r.F |
| Capacity | 2600 mAh |
| Dimensions ( L x W x H ) | 203 x 80 x 85 mm |

PCE INSTRUMENTS