

# PK2X

## Pocket Stroboscope

- Internal rechargeable Lithium Ion battery uses the latest "smart-charge" technology for the longest possible life and 2-hour run-time on a single charge.
- Can be powered directly from an AC power source for continuous operation, or continued use during recharging.
- Includes Traceable Calibration Certificate.
- Resolution of  $\pm 1$  RPM over the entire range with precise flash control and drift-free operation.
- Bright XENON flash intensity (over 1200 Lux) with life of 200 million flashes.
- Accepts input from sensors for external flash triggering.
- Provided with a threaded insert for mounting to articulating arm or other fixture.
- Universal AC-Adapter/Charger (100 – 240V AC) with plug adapters provided for use in North America, Europe, United Kingdom and Australia.

The new PK2X hand-held Pocket Strobe® easily measures RPM of rotating or reciprocating parts without contact. It allows moving parts/machinery inspection by "freezing" or "slowing down" the action using the stroboscopic effect. The PK2X's small size, lightweight design and rugged construction make it perfect for field technicians or maintenance personnel.

The PK2X offers the highest reliability, refined by more than 10-years of continuous design and manufacturing improvements since the original PK1 hand-held Pocket Strobe was introduced in 1996.

The PK2X provides one hand operation, yet delivers performance comparable to much larger and heavier pistol-grip type models. It is an ideal choice for industrial, laboratory, R&D and academic environments.



The new PK2X offers significant improvements over the previous generation model PK2 including:

- 50% increase in **BRIGHTNESS**.
- 200% increase in **BATTERY LIFE** (2 hours).
- Now operates from either **AC POWER** or **internal BATTERY**.

**The PK2X's small size and excellent performance provide superior convenience and value—at a reasonable price.**

# Specifications

<b>Flash Range</b>	30 – 12,500 FPM
<b>Flash Brightness</b>	1200 Lux (8"/20cm distance @ 4500 fpm)
<b>Accuracy</b>	±0.01% over entire range +1 LSD ±0.04 Hz
<b>Resolution</b>	±1 FPM over entire range
<b>Display</b>	5-digit LCD
<b>Display Update</b>	0.5 seconds
<b>Flash Energy</b>	170 mJ
<b>Flash Duration</b>	< 9 µs
<b>Flash Tube Life</b>	200 million flashes (at 6,000 fpm)
<b>Flash Color Temp</b>	6,000K – 6500K
<b>External Trigger</b>	0-5 volt, DTL/TTL compatible 1/8" jack
<b>Optional Trigger Signal Output (PK2X-OT Only)</b>	0-5 volt, DTL/TTL compatible 1/8" jack
<b>Operating Time</b>	<i>Battery</i> , 2 hours <i>AC-Power</i> , continuous

<b>Battery Type</b>	Lithium Ion (Li-Ion)
<b>Battery Charger</b>	<i>AC Power Required</i> , 100-240 VAC, 50/60 Hz <i>DC-Output</i> , 9 VDC @ 2000 mA max <i>Charging Time</i> , 4-5 hours
<b>Overcharge Protection</b>	Yes
<b>CE Certification</b>	Yes
<b>Weight</b>	0.9 lbs (415 grams) including battery
<b>Housing Material</b>	High Impact ABS Plastic
<b>Reflector Material</b>	Aluminum
<b>Tripod Mount</b>	1/4-20, female insert
<b>Operating Temp.</b>	32 to 104° F (0 to 40° C)
<b>Dimensions</b>	9-3/4" x 2-3/4" x 1-3/4" (240 x 65 x 40 mm)
<b>Warranty</b>	1 year

## Stroboscopic Effect



The stroboscopic effect is accomplished by matching the flash rate of the strobe with the repetitive rate (RPM) of motion of the target. If the flash rate and RPM match the object will appear motionless. A slight mismatch of the relative speeds will create a slow motion effect.

## Complete Kit

Includes: Stroboscope, Universal AC Adapter/Charger (with plug adapters for North America, Europe, United Kingdom and Australia), external input/output jack, Traceable Calibration Certificate and instruction manual, all supplied in a hard-shell carrying case.



## Available Models

- PK2X** Includes Strobe, Universal AC-adapter/charger and external trigger jack in carrying case with Traceable Calibration Certificate.
- PK2X-OT** Same as above with optional trigger output signal.
- PK2X-AC** Includes Strobe *without battery* for operation on AC power ONLY. Includes universal AC-adapter, external trigger jack in carrying case with Traceable Calibration Certificate.