PALM STROBE x
Handheld Stroboscope with NIST

Features:

- **Removable, rechargeable battery pack (US Patent 6,945,666)**
- **Unique joystick tuning button for single-hand operation**
- **Lightweight design**
- **Flash rate to 12,500 FPM**
- **Tachometer Mode from optional remote sensors**
- **TTL compatible input/output**
- **NIST Traceable Certificate included**

Typical Uses:

- **Speed measurement**
- **Virtual stop motion inspection for quality control and quality assurance**
- **Predictive maintenance**

The PALM STROBE x is a sophisticated stroboscope with many features, yet remains simple to operate. It is a lightweight, industrial strength, single-handed operation instrument that fits in the palm of your hand. A four-quadrant Tuner Button adjusts the flash rate, and provides multiply/divide by 2 functions. A large, bright, backlit, 6-digit alphanumeric LCD shows the flash rate and mode of operation. The strobe can store and recall eight programmable flash rate settings and the last used setting in nonvolatile memory so that the unit "remembers" all the flash rates when the power is turned off.

The strobe has a removable, rechargeable Battery Pack which provides up to 2 hours of continuous use depending on the flash rate. This Battery Pack clips in and out with no tools required. An optional second Battery Pack allows for longer operation in the field. A ¼-20 UNC thread bushing on the underside of the strobe allows for tripod mounting.

The input/output phone jack will accept an external input up to the maximum FPM and can be used with an external Self-Powered Sensor to measure RPM or the input/output phone jack can be used to provide TTL output pulses for each flash.

PALM STROBE x Stroboscope

Specifications*	PALM STROBE x
Internal Mode:	
Flash Range	100 - 12,500 FPM (Flashes per Minute)
Flash Rate Accuracy	The greater of ±0.5 FPM or ±0.01% of reading
Flash Rate Resolution (Setting)	0.1 FPM
Display Update Rate	Continuous
External/Tachometer Mode:	
Flash Range and Display	5.0 to 12,500 FPM - External flash rates to 0 are acceptable
Tachometer Measurements	5 to 250,000 RPM - No flash
Accuracy	The greater of ±0.1 FPM or ±0.01% of reading
Display Update Rate	1 second typical
Trigger to Flash Delay	< 5 μsec
External Input	0 to 5 V TTL Compatible (12 V pk max) 1 μsec min pulse width; Positive edge triggered
General:	
Time Base	Stable crystal oscillator
Display	6-digit alphanumeric backlit LCD with 0.3 inch [7.62 mm] high digits
Indicators	Low Battery, On-Target Indicator, Locked On, External Mode, Tachometer Mode, ÷2 ×2
Adjustment	Four Quadrant Tuner Button with decade select for flash rate up or down, multiply by 2 and divide by 2
Memory	Saves eight programmable flash rates and last flash rate at power down
Output Pulse	350 μsec positive pulse, 5 Vdc typical
Power	Removable 6 Vdc Rechargeable Battery Pack with Integral Electronics Charge Control for rechargers (PSC-3U Recharger)
Light Power	150 mJ/Flash up to 3000 FPM, 7.9 Watts @ 6000 FPM
Flash Duration	10 - 30 microseconds typical
Run Time	2 hours at 1800 FPM and 1 hour at 6000 FPM typical with fully charged batteries
Charge Time	About 4 hours
Weight	1.2 lbs (544 g) including Battery Pack
Dimensions (LxWxH)	9.34 in. x 3.20 in. x 3.04 in. [237.34 mm x 81.20 mm x 77.16 mm]
Safety	This product is designed to be safe for indoor use under the following conditions (per IEC61010-1):
Operating Temperature	32-104 °F (0-40 °C)
Humidity	Maximum relative humidity 80% for temperature up to 88 °F (31 °C) decreasing linearly to 50% relative humidity at 104 °F (40 °C)

*Specifications are subject to change without notice.

Ordering Information

Model	Description	Part No.
PALM STROBE x	Strobe with battery and PSC-3U 115/230 Vac recharger	6205-050
PALM STROBE x Pak	Strobe with battery, PSC-3U Vac recharger, spare battery, and holster	6205-051
PALM STROBE x Kit	Strobe with battery, PSC-3U 115/230 Vac recharger, and spare lamps	6205-052
PALM STROBE x Deluxe Kit	Strobe with battery, PSC-3U 115/230 Vac recharger, spare lamps and batteries, and holster with NIST Traceable Certificate	6205-053

Accessories available on website

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