



Nova-Strobe dbx

Common Applications:

- Non-contact RPM
- Diagnostic Inspection
- Bent blades/shafts
- Slipping/worn belts
- Printing Press
- Stop-action Inspection
- Textiles

Nova-Strobe x - The standard for high intensity multi-function portable stroboscopes. Models are available with digital displays, battery or AC power, and a useful range of features which provide unmatched performance and value. Four models range from the Nova-Strobe **dbx** Deluxe the most versatile battery powered digital stroboscope with internal phase shifting, down to the Nova-Strobe **bax** Basic, the most cost effective AC powered digital stroboscope.

Both the battery powered Nova-Strobe **dbx** and AC powered Nova-Strobe **dax** provide a range of 30 to 20,000 flashes per minute and an accuracy of ± 0.002 of setting. Flash rates are easily adjusted to fractional RPM by a coarse/fine control knob. Individual TTL compatible input and output jacks are provided for 'daisy chaining' of multiple strobes, triggering from an external source, or providing a trigger signal to external equipment.

Both dbx and dax provide internal phase shifting to keep the target precisely in view. Both provide x2 and $\div 2$ capability for distinguishing actual RPM from harmonic frequencies. In addition, 9 user presettable memory flash rates for repetitive measurements and storage of the last flash rate measured are included.

Features All Nova-Strobes, Deluxe and Basic:

- Internal rechargeable batteries or AC powered models
- Weighs less than 2.0 Lbs. for easy handling
- More than 20% brighter Xenon light than competitors
- Electronic switching provides continuous cool operation
- Tripod mounting bushing in handle

In addition, Nova-Strobe **dbx** and **dax** Plus models have:

- N.I.S.T. Traceable Certificate of Calibration included
- Internal phase shifting for easy reference target viewing
- Tachometer mode, speed measurement up to 250,000 RPM
- Power for optional sensors
- Low battery indicator

Nova-Strobe dbx
Deluxe

Select optional sensors for
tachometer mode (see page 9)

TTL compatible input/output
1/8" (3.5mm) phone plugs

Nova-Strobe bbx/bax Basic
Digital LCD Display

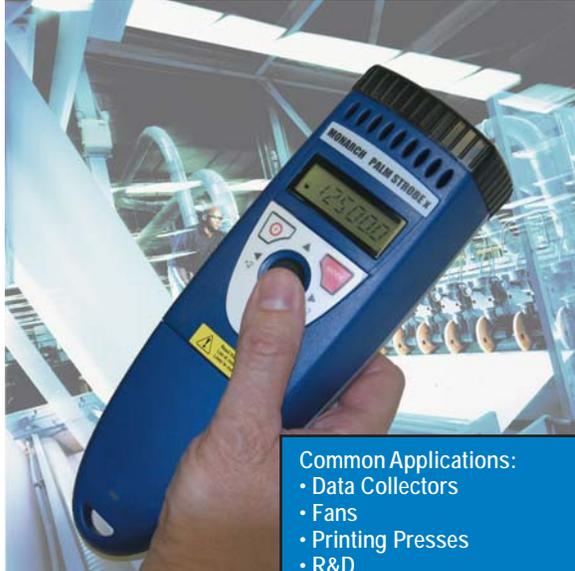


Nova-Strobe dbx Kit

Ordering Information

Nova-Strobe bax 115 Stroboscope, AC powered
 Nova-Strobe bax 230 Stroboscope, AC powered
 Nova-Strobe dax 115 Stroboscope, AC powered
 Nova-Strobe dax 230 Stroboscope, AC powered
 Nova-Strobe bbx 115/230 Stroboscope, battery
 Powered, universal PSC-2U (115/230 VAC)
 recharger (USA, UK, AUS, EURO plug)
 Nova-Strobe dbx 115/230 Stroboscope, battery
 powered, universal PSC-2U (115/230 VAC) recharger
 (USA, UK, AUS, EURO plugs)
 Also available in Kit form including: Stroboscope
 Recharger, spare lamp and carrying case.

Specifications	Nova-Strobe dbx, Deluxe Battery Powered	Nova-Strobe dax, Deluxe AC Powered	Nova-Strobe bbx, Basic Battery Powered	Nova-Strobe bax, Basic AC Powered
Range Flashes/Minute	30-20,000 FPM (Flashes Per Minute)		30-10,000 FPM (Flashes Per Minute)	
Display	6 Digit Numeric and 5 digit Alphanumeric LCD			
Accuracy/Resolution	0.002% of setting or +/- 1 lsd /0.01 FPM			
Flash Energy/Duration	230 mJoule up to 3450 FPM / 8-20 μ sec			
Average Power-Watts	>13W above 3450 FPM			
Flash Tube & Life	High Power Xenon - 100 million flashes typical			
External Triggers - in/out 1/8" (3.5mm) Phone Jacks	TTL (24Vdc Max) Input. Provides 3.3 Vdc TTL output		N/A	
Tachometer Mode	5-250,000 RPM - Use with Optional Remote Sensor		N/A	
Programmable Memory	Yes	Yes	N/A	
Internal Phase Shift	Yes	Yes	N/A	
Operating Time	2 hours typical @ 1800 FPM	Continuous	2 hours typical @ 1800 FPM	Continuous
Power Supply	Internal NiMH rechargeable batteries	115 Vac, 50-400 Hz or 230 Vac, 50-400 Hz	Internal NiMH rechargeable batteries	115 Vac, 50-400 Hz or 230 Vac, 50-400 Hz
Weight	1.9 Lbs. (.86 kg)	1.5 Lbs. (.68 kg)	1.9 Lbs. (.86 kg)	1.5 Lbs. (.68 kg)
Size (L x W x H)	Body: 9" x 3.66" x 3.56" (229 x 93 x 90 mm); Reflector Housing: 4.8" (122 mm) diameter; Handle: 4.25" (108 mm) long			



Palm Strobe x

Common Applications:

- Data Collectors
- Fans
- Printing Presses
- R&D
- Utilities
- Felt Belts/Conveyor
- Vibration Studies
- Textiles

PALM STROBE x Offers excellent brightness, exceptional features and extra long battery life. Unique one-touch joystick-type button allows single hand operation for fast fractional RPM tuning. Select mode of operation for internal tuning, external TTL input, tachometer display and $\times 2 \div 2$ functions. Eight memory positions provide rapid recall of user defined frequencies.

Features:

- Removable Plug-in Battery Pack
- Easy One Hand Operation
- Light weight, Pocket Size
- Flash Rates to 12,500 FPM
- Tachometer Mode from Remote Sensors
- TTL Compatible Input/Output



Palm Strobe x Deluxe Kit



Unlimited Power
World's First Stroboscope with removable, rechargeable battery pack (patented).



Remote Trigger

Supports optional SPSR (self-powered sensor) trigger. See page 10.



Universal Power 115/230Vac

Universal Power Supply allows you to recharge anywhere in the world.



Portable Inspection Light

Unique Field Holster gives you true mobility.



TTL Pulse input/Output Cable

Input/output cable with BNC connector.

Ordering Information

Palm Strobe x 115/230 - Stroboscope with PSC-2U (115/230Vac) recharger *

Palm Strobe x Pak 115/230 - Same as above with spare battery and holster

Palm Strobe x Kit 115/230 - Stroboscope with PSC-2U (115/230 Vac) recharger *, Spare Lamps and Latching Carrying Case

Palm Strobe x Deluxe Kit - Stroboscope and Battery with PSC-2U (115/230 Vac) recharger *, Spare Lamps & Battery, Holster and Latching Carrying Case

* Includes USA, Australian, UK and Euro plug adapters.

Specifications	Palm Strobe x Series
Internal Mode Range	100 - 12,500 FPM (Flashes per Minute)
Light Power	7.9 watts @ 6000 FPM, 150 mJoules up to 3100 FPM
Flash Lamp Life	100 million flashes typical
Flash Duration	10 - 30 microseconds typical
Display	6-digit alphanumeric backlit LCD display
Flash Rate Resolution	0.1 FPM
Flash Rate Accuracy	Greater of $\pm 0.01\%$ of reading or ± 0.5 FPM
Tachometer Mode	5 to 250,000 RPM
External Input	0 to 5 Vdc (12 Vdc max.) TTL compatible, positive edge triggered
Output Pulse	0 to 5 Vdc typical- 350 μ sec positive pulse
Run Time	2 Hours typical @ 1800 FPM >1 Hour typical @ 6000 FPM
Memory	8 programmable flash rates and last flash rate at power down
Adjustment	Four quadrant tuner button with blinking decade select for flash rate up and down, multiply by 2 and divide by 2
Modes	Internal, External, Tachometer, Preset, x or $\div 2$, Locked On
Battery Power	Removable 6Vdc rechargeable battery pack
Recharger(s)	PSC-2U Recharger, 100-240Vac, 50/60Hz, includes 4 adapters
Weight	1.2 lbs. (0.55 kg) including battery
Strobe Dimensions	3.04 x 9.34" (77 x 237 mm)