

## Nova-Strobe x Series

RoHS NIST CE



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  $\pm 0.002$  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, 6 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
- Battery charge indicator (**dbx** only)

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 Stroboscope, Battery  
 Powered, Universal PSC-2 (115Vac) recharger  
 Nova-Strobe bbx 115/230 Stroboscope, battery  
 Powered, universal PSC-2U (115/230 VAC)  
 recharger (USA, UK, AUS, EURO plug)  
 Nova-Strobe dbx 115 Stroboscope, Battery  
 Powered, Universal PSC-2 (115 Vac) recharger  
 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
<b>Range Flashes/Minute</b>	30-20,000 FPM (Flashes Per Minute)		30-10,000 FPM (Flashes Per Minute)	
<b>Display</b>	6 Digit Numeric and 5 digit Alphanumeric LCD			
<b>Accuracy/Resolution</b>	0.002% of setting or +/- 1 lsd /0.01 FPM			
<b>Flash Energy/Duration</b>	230 mJoule up to 3450 FPM / 8-20 $\mu$ sec			
<b>Average Power-Watts</b>	>13W above 3450 FPM			
<b>Flash Tube &amp; Life</b>	High Power Xenon - 100 million flashes typical			
<b>External Triggers - in/out</b> 1/8" (3.5mm) Phone Jacks	TTL (24Vdc Max) Input. Provides 3.3 Vdc TTL output			N/A
<b>Tachometer Mode</b>	5-250,000 RPM - Use with Optional Remote Sensor			N/A
<b>Programmable Memory</b>	Yes	Yes	N/A	
<b>Internal Phase Shift</b>	Yes	Yes	N/A	
<b>Operating Time</b>	2 hours typical @ 1800 FPM	Continuous	2 hours typical @ 1800 FPM	Continuous
<b>Power Supply</b>	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
<b>Weight</b>	1.9 Lbs. (.86 kg)	1.5 Lbs. (.68 kg)	1.9 Lbs. (.86 kg)	1.5 Lbs. (.68 kg)
<b>Size (L x W x H)</b>	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			