

# Nova-Strobe™ *bbx, bax, dbx, dax* Xenon Stroboscopes

## Features:

- 30-10,000 FPM - *bbx* and *bax*  
30-20,000 FPM - *dbx* and *dax*
- Internal rechargeable batteries or AC powered models
- Lightweight (less than 2.0 pounds) for easy handling
- Continuous cool operation
- Tripod mountable

## Nova-Strobe *dbx* & *dax* add:

- NIST Traceable Calibration Certificate
- Internal phase shifting for easy reference target viewing
- Tach mode, speed measurement up to 250,000 RPM
- Power for optional external plug-in sensors
- Pulse repeater output

## Typical Uses:

- Visual “stop-motion” inspection of running fan blades, motors, shafts, gears, rollers, webs, belts, sheaves, chains, sprockets, and much more without having to shut down your process
- Diagnose alignment issues
- Determine speed of rotating equipment using strobe and external plug-in sensors



*bax* and *dax*  
AC-Powered Models  
are AC mains powered (115/230 Vac)



## 4 Models to Choose From

Nova-Strobe™ xenon models are the standard for high-intensity multi-function portable stroboscopes. Models are available with internal rechargeable battery or AC main power, and a useful range of features that provide unmatched performance and value. Four models range from the **Nova-Strobe *bax* Basic**, the most cost-effective AC-powered digital strobe, up to the **Nova-Strobe *dbx* Deluxe**, the most versatile battery-powered digital strobe with internal phase shifting.

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  $\pm 0.004\%$  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 multiple stroboscopes, triggering from an external source, or providing a trigger signal to external equipment.

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



# Nova-Strobe™ Xenon Stroboscopes



Specifications*	bbx Basic Battery	bax Basic AC	dbx Deluxe Battery	dax Deluxe AC
Range Flashes/Minute	30-10,000 FPM		30-20,000 FPM	
Display	6-digit numeric and 5-digit alphanumeric LCD			
Accuracy/Resolution	±1 FPM/1 FPM		0.004% of setting or ± last digit/ 0.01-1 FPM	
Flash Energy/Duration	230 mJoule up to 3450 FPM / 8-20 µsec			
Average Power (Watts)	> 13W above 4000 FPM			
Flash Tube & Life	Higher power xenon, 100 million flashes typical			
External Triggers - in/out (1/8" [3.5 mm] phone jack)	N/A		Input: TTL (24 Vdc max) Output: provides 3.3 Vdc TTL	
Tachometer Mode	N/A		5-250,000 RPM (use with optical remote sensor)	
Programmable Memory	N/A		Yes	Yes
Internal Phase Shift	N/A		Yes	Yes
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. (0.86 kg)	1.5 lbs. (0.68 kg)	1.9 lbs. (0.86 kg)	1.5 lbs. (0.68 kg)
Dimensions (L x W x H)	Body: 9 x 3.66 x 3.56 in. [229 x 93 x 90 mm]; Reflector housing: 4.8 in. [122 mm] dia.; Handle: 4.25 in. [108 mm] long			

\*Specifications are subject to change without notice.

## Ordering Information

Model	Description	Part No.
bax 115	Basic 115 Vac powered xenon Strobe	6206-010
bax 115 Kit	Same as bax 115 plus latching carry case and spare lamp	6206-011
bax 230	Basic 230 Vac powered xenon Strobe	6206-012
bax 230 Kit	Same as bax 230 plus latching carry case and spare lamp	6206-013
bbx 115/230	Basic xenon Strobe, battery powered, with 115/230 Vac recharger with interchangeable plugs	6207-012
bbx 115/230 Kit	Same as bbx 115/230 plus latching carry case and spare lamp	6207-013
dax 115	Deluxe 115 Vac powered Strobe with NIST Traceable Certificate	6203-010
dax 115 Kit	Same as dax 115 plus latching carry case and spare lamp	6203-011
dax 230	Deluxe 230 Vac powered Strobe with NIST Traceable Certificate	6203-012
dax 230 Kit	Same as dax 230 plus latching carry case and spare lamp	6203-013
dbx 115/230	Deluxe Strobe, battery powered, with 115/230 Vac recharger with interchangeable plugs and NIST Traceable Certificate	6204-012
dbx 115/230 Kit	Same as dbx 115/230 plus latching carry case and spare lamp	6204-013

Accessories available on website

Nova-Strobe Xenon 0525



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