

Nova-Strobe BBL, DBL and PBL LED Stroboscopes

Features:

- 30-500,000 FPM
- Energy-efficient with long-life battery
- Digital backlit LCD display
- Tripod mounting bushing (1/4-20) in handle
- CE marked and RoHS compliant
- NIST Traceable Certificate included with DBL and PBL
- Lightweight industrial design
- 12 button keypad makes entering flash rates extremely quick (DBL, PBL models)
- DBL and PBL Tachometer Mode: 0-500,000 RPM (use with optional remote sensor
- Continuous, 24/7 operation (PBL)

Typical Uses:

- Visually "stop-motion" of running inspections of 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 or external plug-in sensors
- Virtual slow motion created to troubleshoot highspeed automation processes
- Print quality inspection
- Textile processing inspection
- Phase reference for balancing



3 Models to Choose From

The Monarch Nova-Strobe LED family of rugged industrial stroboscopes provide an extremely bright, uniform light output for performing stop motion diagnostic inspection and RPM measurements. The twelve LED light source is extremely efficient which means long battery life and continuous cool operation. A wide operating range of 30-500,000 flashes per minute covers all applications. The **Basic BBL** is designed for simple stop motion inspection and RPM measurement applications. The **Deluxe DBL** adds internal phase shifting, memory for up to 5 preset flash rates, NIST calibration certificate and tachometer mode for speed measurements up to 500,000 rpm using optional remote sensors or TTL pulse input/output. The top of the line **Phaser PBL** has all the features of the DBL and adds external phase delay, time delay and virtual RPM mode. The PBL will also run continuously, 24/7 with the power supply/recharger. Each unit is available stand alone or as a kit.





Nova-Strobe LED Stroboscopes

5000	100 RPM
x2 csr	BBL
+2 mon	Nova-Strobe





Specifications*	Basic BBL	Deluxe DBL	Phaser PBL	Ordering Informa	ition	
Internal Mode:				Nova-Strobe BBL	623	
Flash Range	30-500,000 FPM)					
Flash Rate Accuracy	0.01%	0.004% of setti	ng or ±1 last digit	Basic BBL strobe, universal 115/230 recharger with		
Flash Rate Resolution	0.01 to 1 FPM (menu selectable), 0.1 FPM resolution above 9,999.99 FPM, 1 FPM resolution above 99,999.9			interchangeable wall plugs	623	
Display Update Rate		Instantaneous			023	
External Mode:				Same as above; ships with standard carry case		
Flash Range	N/A	0 - 500,000 FPN	1 0.5 to 8333.33Hz	· · ·	623	
Tachometer Mode	N/A 5 to 500,000 RPM (use with optional remote sensor)		Nova-Strobe DBL Deluxe DBL strobe,			
Display Update Rate		0.5 second typical		universal 115/230		
Trigger to Flash Display		< 5 µsec		recharger with interchangeable wall plugs,		
External Input	N/A	TTL (24 V dc max) input; p	provides 5.0 V dc TTL output	and NIST Certificate		
Output Pulse	5 V pulse – positive or negative (menu selectable) one pulse per flash			Nova-Strobe DBL Kit	623	
Time Base	Ultra-stable crystal oscillator		Same as above; ships with			
Knob Adjustment	Digital rotary switch with 36 detents per revolution; velocity sensitive			standard carry case		
Memory	N/A	. .	r down is remembered and next power up	Nova-Strobe PBL 62		
Input Power	Battery-powered: Internal rechargeable batteries 6 V dc, external AC power supply PBL only (100 V ac to 240 V ac, 50/60 Hz)		Phaser PBL strobe, universal 115/230 recharger with			
Light Output	4200 lux @ 6000 FPM, 12 in. [30.48 cm], 2° duty cycle; Max light output: 27,000 lux		interchangeable wall plugs, and NIST Certificate			
Flash Duration	Adjustable to 14°/3000 µsecs max Note: Flash duration is limited to 10° when running PBL continuously from the external power supply/charger (PSC-pbxU) powered by the AC mains (115-230 V ac).			Nova-Strobe PBL Kit Same as above; ships with deluxe watertight carry	623	
Run Time	12 hours typical at 6000 FPM, and 2.8° pulse width with fully charged batteries		case			
Charge Time	4-5 hours typical with supplied recharger			To order, see product's webpage.		
Power Supply	_	ole batteries with 115/230 recharger	Internal NiMH rechargeable batteries with 115/230 50/60 Hz recharger or continuous using 115/230 50/60 HZ V ac power supply/recharger			
Operating Time	8-10 hours typical @ 1800 FPM 8-10 hours typical @ 1800 FPM continuous w/ power supply		1800 FPM w/ batteries or continuous			
Weight		1.9 lbs. (860 g)				
Dimensions (LxWxH)	Body: 9 in. x 3.66 in. x 3.56 in. [229 mm x 93 mm x 90 mm]; Reflector Housing: 4.8 in. [122 mm] dia.; Handle: 4.254 in. [108 mm long]					

*Specifications are subject to change without notice.

Nova-Strobe LED 0523

6230-010

6230-011

6231-010

6231-011

6232-010

6232-011

