

# Nova-Strobe LED Stroboscopes

## Description

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, N.I.S.T. 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.



## Standard Features

- Diagnostic inspection and RPM checks
- Digital LCD backlit display
- Tripod mounting bushing (1/4"-20) in handle
- CE marked and RoHS compliant
- NIST certificate included with DBL and PBL
- Lightweight industrial design
- 12 button keypad makes entering flash rates extremely quick (DBL, PBL models).
- Brightest portable LED strobes available
- Continuous, 24/7 operation (PBL)

## Benefits of LED's

- Energy efficient with long battery life
- Extremely bright, uniform light output
- Completely silent
- Cool operation
- No lamp replacements
- Extremely high flash rates (to 500,000)

# Nova-Strobe LED Stroboscopes



## Specifications



	<b>BBL Basic</b>	<b>DBL Deluxe</b>	<b>PBL Phaser</b>
<b>Flash Range (FPM/RPM):</b>	30-500,000		
<b>Display:</b>	6 Digit Numeric and 5 Digit Alphanumeric LCD		
<b>Accuracy/Resolution:</b>	.002% of setting or +/- 1 lsd/ 0.01 FPM		
<b>Light output:</b>	3000 Lux @ 6000 FPM, 8 inches (20cm), 1% duty cycle		
<b>Flash Duration:</b>	Adjustable to 14 degrees /3000µsecs max		
<b>Light Source:</b>	12 LED Array		
<b>Color Temperature:</b>	6300°K		
<b>External Triggers in/out:</b>	N/A	TTL (24Vdc Max) Input. Provides 3.3 Vdc TT output	
<b>Tachometer Mode:</b>	N/A	0-500,000 RPM use with optional remote sensor	
<b>Programmable Memory:</b>	N/A	Yes	
<b>Internal Phase Shift:</b>	N/A	Yes	
<b>Phase Delay - Degrees:</b>	N/A	0.1 to 359.9 degrees	
<b>Time Delay - milliseconds:</b>	N/A	0.01 to 1000 msec.	
<b>Virtual RPM (Slow Motion):</b>	N/A	0-200 VRPM	
<b>Operating Time:</b>	8-10 hours typical @ 1800 FPM		8-10 hours typical @ 1800 FPM with batteries or continuous using power supply
<b>Power Supply:</b>	Internal NiMH rechargeable batteries with 115/230 50/60Hz recharger		Internal NiMH rechargeable batteries or continuous using 115/230 50/60 Hz Vac power supply/recharger
<b>Weight:</b>	1.9 Lbs (860g)		
<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) dia.; Handle: 4.254" (108 mm long)		

## Ordering Information

<u>Item</u>	<u>Description</u>	<u>Part No.</u>
Nova-Strobe BBL	BBL Strobe, universal 115/230 recharger with interchangeable wall plugs and manual	6230-010
Nova-Strobe BBL Kit	Same as above with plastic latching carry case	6230-011
Nova-Strobe DBL	DBL Strobe, universal 115/230 recharger with interchangeable wall plugs, manual and NIST Cal	6231-010
Nova-Strobe DBL Kit	Same as above with plastic latching carry case	6231-011
Nova-Strobe PBL	PBL Strobe, universal 115/230 power supply/recharger with USA and Euro cables, manual and NIST Cal	6232-010
Nova-Strobe PBL Kit	Same as above with Deluxe water tight plastic carry case	6232-011

## Accessories

<u>Item</u>	<u>Part No.</u>
1. Remote Optical Laser Sensor	6180-029
2. Splash Proof Cover	6280-041
3. Protective Rubber Cover	6280-048
4. Reflective Tape, 5" roll x 1/2"	6180-070
5. Pulse input/output cable (BNC)	6280-037
6. Standard latching Carry Case	6280-040
7. Deluxe Water Tight Carry Case	6280-049

