

# Monarch LED Stroboscopes

**NEW**

## Nova-Strobe

- Brightest portable LED strobes available
- For diagnostic inspection and RPM checks
- Digital LCD backlit display (DBL, PBL models)
- Lightweight design with tripod mount bushing (¼-20) in handle
- 12 button keypad for quick entry of flash rates (DBL, PBL)
- NIST certificate included with DBL and PBL models
- Continuous, 24/7 operation (PBL)



**Nova-Strobe DBL**

NOVA-STROBE SPECIFICATIONS			
	BBL Basic	DBL Deluxe	PBL Phaser
Flash Range (FPM/RPM):		30-500,000	
Display:	6 digit numeric and 5 digit alphanumeric LCD		
Accuracy/Resolution:	0.002% of setting or ±1 least significant digit/ 0.01 FPM		
Light Output:	3000 Lux @ 6000 FPM, 8 inches (20cm), 2% duty cycle		
Flash Duration:	Adjustable to 14 degrees /3000µsecs max		
Light Source:	12 LED Array		
Color Temperature:	6300°K		
External Triggers in/out:	N/A	TTL (24Vdc Max) Input. Provides 3.3 Vdc TTL output	
Tachometer Mode:	N/A	0-500,000 RPM (Use with optional remote sensor)	
Programmable Memory:	N/A	Yes	
Internal Phase Shift:	N/A	Yes	
Phase Delay - Degrees:	N/A		0.1 to 359.9 degrees
Time Delay (milliseconds):	N/A		0.01 to 1000 msec.
Virtual RPM (Slow Motion):	N/A		0-200 VRPM
Operating Time (AC power):	N/A		continuous
Operating Time (battery power):	8-10 hours typical @ 1800 FPM		
Batteries:	Internal NiMH rechargeable (120/240V charger included)		
Size (L x W x H)/Weight:	Body: 9" x 3.66" x 3.56" (229 x 93 x 90 mm); Reflector Housing: 4.8" (122mm) dia.; Handle: 4.254" (108 mm long) / 1.9 Lbs (860g)		

Nova-Strobe industrial stroboscopes provide a bright, uniform light output. The twelve LED source is extremely efficient, which means long battery life & 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 measurements. The Deluxe DBL adds internal phase shifting, memory for 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. The top of the line Phaser PBL has all the features of the DBL plus external phase delay, time delay & virtual RPM mode. The PBL will also run continuously with the power supply/recharger.

## Pocket LED Strobe

- Intuitive one hand operation
- Extremely bright, uniform light
- Quiet/Cool operation
- Digital LCD backlit display
- Compact size, long battery life
- Tripod mounting bushing (¼-20)
- No lamp replacements
- NIST Certificate included



PLS SPECIFICATIONS	
Light Source:	7 LED Array
Avg. Light Output:	1800 Lumens at 6000 FPM 8" from lens
Color Temp:	5600°K
Power:	Li-Ion rechargeable batteries 3.6Vdc
Run Time:	5-6 hours typical at 6000 FPM
Charge Time:	4-5 hours typical with supplied charger
Memory:	5 user settable memory locations
Flash Duration:	Adjustable 0.5 to 2500 µsec or 0.1 to 18 deg. of rotation (auto adjusts with flash rate)
Internal Mode:	
Flash Range:	30-300,000 FPM (Flashes per minute), 0.5 to 5000Hz
Accuracy:	0.005% of setting or ± last digit
Resolution:	0.01 to 1 FPM (menu selectable), 0.1 FPM resolution above 9,999.99 FPM, 1 FPM resolution above 99,999.9
External Modes:	
Flash Range:	0-300,000 FPM, 0 to 5000Hz
Tachometer Mode:	30 to 300,000 RPM
Accuracy:	±0.005% of reading or ± last digit
Display Update:	0.5 second typical above 120 RPM
Trigger to Flash:	~15 µsec delay
External Input:	2.5-12V peak pulse, 500ns min pulse width, pos. or neg. edge triggered (menu selectable)
Pulse In to Out Delay:	<0.2µsec
Output Pulse:	3V pulse. One pulse per flash in internal mode. Mimics input pulse in external mode
LCD Display:	6 digit numeric plus 5 digit alpha-numeric
Indicators:	Battery level, On Target, Select, TACH, EXT icons
Dimensions:	7.75" x 2.75" x 2.3" (197 x 70 x 58 mm)

ORDERING INFORMATION		
Catalog No.	MODEL	DESCRIPTION
MN/6230-010	Nova-Strobe BBL	BBL Strobe, universal 115/230 recharger with interchangeable wall plugs & manual
MN/6230-011	Nova-Strobe BBL Kit	Same as above with plastic latching carry case
MN/6231-010	Nova-Strobe DBL	DBL Strobe, universal 115/230 recharger with interchangeable wall plugs, manual & NIST Cert
MN/6231-011	Nova-Strobe DBL Kit	Same as above with plastic latching carry case
MN/6232-010	Nova-Strobe PBL	PBL Strobe, 115/230 power supply/recharger with USA and Euro cables, manual & NIST Cert
MN/6232-011	Nova-Strobe PBL Kit	Same as above with Deluxe water tight plastic carry case
MN/6235-010	PLS	Pocket LED Strobe, 115/230 VAC recharger with interchangeable wall plugs, manual & NIST Cert
MN/6235-011	PLS Kit	Same as above with latching carry case
<b>Accessories</b>		
MN/6180-029	ROLS-P	Remote optical laser sensor with 8 ft cable, 1/8" phone plug & 12" reflective tape
MN/6280-048		Protective rubber cover for Nova-Strobes
MN/6280-040		Standard latching carry case for Nova-Strobes
MN/6280-073		Protective carry pouch with belt hook for PLS
MN/6180-070	T-5	Reflective Tape 5 foot roll, 0.5" wide

Test Equipment

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