



Nova-Strobe DB Plus

Common Applications:

- Non-contact RPM
- Diagnostic Inspection
- Bent blades/shafts
- Slipping/worn belts
- Printing Press
- Stop-action Inspection
- Textiles



Nova-Strobe DB Plus Kit 115

Nova-Strobe - 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 and benefits to meet every requirement of performance and cost. Four models range from the Nova-Strobe DB Plus, the most versatile battery powered digital strobe with internal phase shifting down to the Nova-Strobe BA, the most cost effective AC powered digital strobe.

Both the battery powered Nova-Strobe DB Plus and line powered Nova-Strobe DA Plus provide a range of 30 to 14,000 flashes per minute and an accuracy of $\pm 0.01\%$ of reading. 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 analysis equipment.

Both DB Plus and DA Plus provide internal phase shifting to keep the target precisely in view. Both provide times 2 and divide by 2 capability for distinguishing actual RPM from harmonic frequencies. In addition, six user presettable memory flash rates for repetitive measurements and storage of the last flash rate measured are included.

Features

All Nova-Strobes, Digital and Basic:

- Internal rechargeable batteries or AC powered models
- Weighs less than 2.5 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 DB Plus and DA 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 200,000 RPM
- Power for optional sensors
- Battery charge indicator (DB Plus only)

Select optional sensors for tachometer mode

TTL compatible input/output
1/8" (3.5mm) phone plugNova-Strobe BB/BA
digital LCD DisplayNova-Strobe DB Plus 

Specifications	Nova-Strobe DB Plus Digital, Battery	Nova-Strobe DA Plus Digital, AC Power	Nova-Strobe BB Basic, Battery	Nova-Strobe BA Basic, AC Power
Range/Flashes/Minute	30-14,000 FPM / RPM		100-8,000 FPM / RPM	
Display	6-Digit Backlit Digital LCD		4-Digit Digital LCD	
Accuracy/Resolution	$\pm 0.01\%$ of reading / 0.1 FPM		± 1 FPM	
Flash Energy/Duration	220 mJoule (20-50 μ sec)	180 mJoule (20-50 μ sec)	133 mJoule (25-50 μ sec)	
Average Power-Watts	10W	15W	7W	
Flash Tube Life (typical)	100 million flashes		50 million flashes	
External Trigger (1/8" Phone Jack)	TTL (24V Max) Provides 5V out		N/A	
Tachometer Mode	5-200,000 RPM		N/A	
Programmable Memory	Yes		N/A	
Internal Phase Shift	Yes		N/A	
Operating Time (fully charged batteries)	60 minutes at 6000 FPM	N/A	60 minutes at 6000 FPM	N/A
Power	6 Vdc internal rechargeable batteries	115 Vac, 50-400 Hz or 220-240 Vac, 50-400 Hz	6 Vdc internal rechargeable batteries	115 Vac, 50-400 Hz or 220-240 Vac, 50-400 Hz
Weight	2.5 Lbs. (1.2 kg)	1.5 Lbs. (0.72 kg)	2.5 Lbs. (1.2 kg)	1.5 Lbs. (0.72 kg)
Size (L x W x H)	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			