

Nova-Pro® Stroboscope/Tachometer



Patented Technology



Nova-Pro® is a series of powerful portable visual inspection and speed measurement tools. We have combined all the features of our handheld LED stroboscopes together with a full function laser tachometer to create a compact, ergonomic and extremely powerful two-in-one predictive maintenance tool. The stroboscope light source comprises twelve LEDs that are extraordinarily bright yet extremely efficient, allowing cool continuous operation and extremely long battery life on a single charge. Continuous operation is also possible with the optional AC adapter.

Nova-Pro 100: designed for simple stroboscopic stop motion inspection and RPM measurement applications. The integral laser module is an optional item that can be added to make the 100 a full-featured non-contact tachometer.

Nova-Pro 300: has all the features of the 100 and adds an additional integral laser module for tachometer mode or strobe trigger mode, a high-contrast inverse blue LCD with backlight and touch-sensitive number pad (for setting flash rates quickly), ultra-high intensity LEDs for even more light output, memory for up to 10 preset flash rates, input and output jacks for external sensors or pulse repeater output, and NIST calibration certificate.

Nova-Pro 500: has all the features of the 300 and adds an additional battery pack, remote laser docking station, phase delay, time delay and virtual slow motion.

Nova-Pro UV365 and UV385 Ultraviolet: has all the features of the 500 and comes in two different ultraviolet LED wavelengths for security print inspection, pharmaceutical process manufacturing, and specular inspection of highly reflective textures and transparent poly-films.

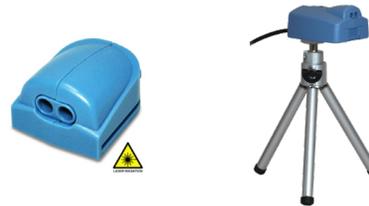
Typical Uses:

- Visually 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 the speed of rotating equipment using strobe or built-in laser tachometer
- Troubleshoot high-speed automation processes creating virtual slow motion
- Print quality inspection
- Textile processing inspection
- Phase reference for balancing

Nova-Pro Models

Unique Features	100	300	500	UV365 UV385
Reflective LCD	✓			
White-on-Blue LCD with Backlight		✓	✓	✓
Touchscreen Control		✓	✓	✓
Standard Output LEDs	✓			
High Output LEDs		✓	✓	
UV LEDs				✓
Input/Output Jacks		✓	✓	✓
Tachometer Mode Internal*	✓*	✓	✓	✓
Tachometer Mode External		✓	✓	✓
Programmable Memory		✓	✓	✓
Internal Phase Shifting			✓	✓
Phase Delay			✓	✓
Time Delay			✓	✓
Virtual RPM Mode			✓	✓
NIST Calibration Certificate	*	✓	✓	✓

*Optional on 100



Remote Laser Dock - remove the **Laser Module** from the Nova-Pro and insert it into the Remote Laser Dock with 1/4 x 20 tripod mount. Plug the cable into the external input jack (300 & 500 models) and make measurements in hard-to-reach unsafe areas. (Miniature Tripod sold separately.)



Battery Recharging Station



AC Power Adapter - The 115/230 adapter allows for continuous operation. Included with certain models or may be ordered separately.

Nova-Pro® Stroboscope/Tachometer



Specifications*	100	300	500	UV365	UV385
Flash Range (FPM/RPM)	30 to 999,999				
Display	6-digit numeric and 5-digit alphanumeric LCD reflective	6-digit numeric and 5-digit alphanumeric LCD with touch keypad; high contrast blue background/white characters with backlight			
Accuracy/Resolution	0.001% of setting or ± LSD/6 digits to 0.001				
Light Source	12 LED array	12 high-output LED array		UV 365nm 12 LED Array	UV 385nm 12 LED Array
Flash Duration	Adjustable to 14°/2.000 msec max				
Light Output	3400 lux @ 6000 FPM, 12 inches (30.48 cm), 2° duty cycle, max light output 24,000 lux	5500 Lux @ 6000 FPM, 12 in. (30.48 cm), 2° duty cycle, max light output 30,000 lux		1700 µW/cm2 @ 12", 1% duty cycle	
Color Temperature	Approximately 6200 K			N/A	
External Triggers Input/Output	N/A	TTL (12 V dc max) input; provides 3.3 V dc TTL output			
Tachometer Mode	0-999,999 RPM with integral laser (optional)	0-999,999 RPM with integral laser or external input			
Programmable Memory	N/A	10 setpoints			
Internal Phase Shift		N/A	Yes		
Phase Delay (degrees)		N/A	-360.0 to 345.0		
Time Delay (milliseconds)		N/A	-50.000 to 50.000		
Virtual RPM - Slow Motion		N/A	-60.0 to 60.0		
Operating Time	Battery pack: 9.5 hours typical (6000 FPM, 2° duty cycle)				
Power Supply - Battery	Removable/rechargeable Li-ion battery pack with 100-240 50/60 Hz recharging station	Removable/rechargeable Li-ion battery packs (qty. 2) with 100-240 50/60 Hz recharging station Note: UV stand-alone includes 1 battery pack; kits include 2 battery packs			
Power Supply - AC (optional)	100-240 V ac 50/60 Hz AC adapter with 6-foot [2M] cable and interchangeable wall plugs				
Weight	1.4 lbs. (635 g) with standard battery				
Dimensions (H x W x D)	9.5 x 3.75 x 5.5 in. / 241 x 95 x 140 mm				
Housing Material/Rating	ABS/IP54				

*Specifications are subject to change without notice.

Ordering Information

Model	Description	Part No.
Nova-Pro 100	100 Strobe, standard battery, recharging station with interchangeable wall plugs	6241-010
Nova-Pro 100 Kit	Same as above with latching carry case	6241-011
Nova-Pro 300	300 Strobe, laser module, standard battery, recharging station with interchangeable wall plugs and NIST Certificate	6243-010
Nova-Pro 300 Kit	Same as above with latching carry case	6243-011
Nova-Pro 500	500 Strobe, laser module w/remote laser dock, (2) standard batteries, recharging station w/ interchangeable wall plugs and NIST Certificate	6245-010
Nova-Pro 500 Kit	Same as above with deluxe die-cut foam lined watertight carry case	6245-011
Nova-Pro 100 AC	100 Strobe, 115/230 V ac adapter with interchangeable wall plugs	6241-020
Nova-Pro 100 AC Kit	Same as above with latching carry case	6241-021
Nova-Pro 300 AC	300 Strobe, laser module, 115/230 V ac adapter with interchangeable wall plugs and NIST Certificate	6243-020
Nova-Pro 300 AC Kit	Same as above with latching carry case	6243-021
Nova-Pro UV365	UV365 Strobe, laser module w/ remote laser dock, standard battery, recharging station w/ interchangeable wall plugs and NIST Certificate	6248-010
Nova-Pro UV365 Kit	Same as above with a second battery and deluxe watertight case	6248-011
Nova-Pro UV385	UV385 Strobe, laser module w/ remote laser dock, standard battery, recharging station w/ interchangeable wall plugs and NIST Certificate	6249-010
Nova-Pro UV385 Kit	Same as above with a second battery and deluxe watertight case	6249-011

Accessories available on website

NIST Certification optional for Nova-Pro 100 (see website).

For details, see Nova-Pro webpages.

www.monarchinstrument.com // sales@monarchinstrument.com // 800-999-3390