

# Nova-Pro Stroboscope/Tachometer



Patent Pending



## Features

- Stroboscope and tachometer in one tool
- Super bright LED's
- Integral/removable laser module
- Water and dust resistant IP54 enclosure
- 1/4" x 20 tripod mount
- Ergonomic one handed operation
- Removable rechargeable Li-ion battery
- Continuous AC operation available
- TTL compatible input/output (300, 500)
- NIST certificate included (300, 500)

The **Nova-Pro** is a series of powerful portable visual inspection and speed measurement tools. We have combined all the features of our hand held 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 is made up of twelve LED's which are extraordinarily bright yet extremely efficient allowing cool continuous operation and extremely long battery life (up to 19 hours 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. It includes the integral laser module for tachometer mode or strobe trigger mode and adds a high contrast inverse blue LCD display with backlight and touch sensitive number pad (for setting flash rates quickly), ultra high intensity LED's 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 standard battery pack, remote laser docking station, phase delay, time delay and virtual slow motion.



## Typical Uses

- Visual 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 built in laser tachometer
- Troubleshoot high speed automation processes by placing them in virtual slow motion
- Print quality inspection
- Textile processing inspection
- Phase reference for balancing

## Ordering Information

Item	Description	Part No.
Nova-Pro 100	100 Strobe, standard battery, recharging station with interchangeable wall plugs and manual	6241-010
Nova-Pro 100 Kit	Same as above with plastic latching carry case	6241-011
Nova-Pro 300	300 Strobe, laser module, standard battery, recharging station with interchangeable wall plugs, NIST cert and manual	6243-010
Nova-Pro 300 Kit	Same as above with plastic latching carry case	6243-011
Nova-Pro 500	500 Strobe, laser module with remote laser dock, (2) standard batteries, recharging station with interchangeable wall plugs, NIST cert and manual	6245-010
Nova-Pro 500 Kit	Same as above with deluxe die cut foam lined water tight plastic carry case	6245-011
Nova-Pro 100 AC	100 Strobe, 115/230 Vac adapter with interchangeable wall plugs and manual	6241-020
Nova-Pro 100 AC Kit	Same as above with plastic latching carry case	6241-021
Nova-Pro 300 AC	300 Strobe, laser module, 115/230 Vac adapter with interchangeable wall plugs, NIST cert and manual	6243-020
Nova-Pro 300 AC Kit	Same as above with plastic latching carry case	6243-021

# Nova-Pro Stroboscope/Tachometer



*“Nova-Pro is compact, ergonomic and extremely powerful”*



**Remote Laser Dock** - Remove the laser module from the Nova-Pro and insert it into the remote laser dock with tripod mount. Plug the cable into the external input jack (300, 500 models) and make measurements in hard to reach or unsafe areas.



Specifications	100	300	500
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 $\pm 1$ lsd/6 digits to 0.001		
Light Source:	12 LED Array	12 High Output LED Array	
Flash Duration:	Adjustable to 14 degrees/1000 $\mu$ secs max		
Light output:	3400 Lux @ 6000 FPM, 12 inches (30.48cm), 2° duty cycle, Max light output: 24,000 Lux	5500 Lux @ 6000 FPM, 12 inches (30.48 cm), 2° duty cycle, Max light output: 30,000 Lux	
Color Temperature:	approx. 6200°K		
External Triggers in/out:	N/A	TTL (12Vdc Max) Input. Provides 3.3 Vdc 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	Yes (10 set points)	
Internal Phase Shift:	N/A	Yes	
Phase Delay - degrees:	N/A	-360.0 to 345.0 degrees	
Time Delay - milliseconds:	N/A	-50.000 to 50.000 msec	
Virtual RPM (Slow Motion):	N/A	-60.0 to 60.0 VRPM	
Operating Time:	Standard battery pack: 9.5 hours typical (6000 FPM, 2° duty cycle) Hi-capacity battery pack (optional): 19 hours typical (6000 FPM, 2° duty cycle)		
Power Supply (Battery):	Removable/rechargeable Standard Li-Ion battery pack with 115/230 50/60Hz recharging station		Removable/rechargeable Standard Li-Ion battery packs (Qty. 2) with 115/230 50/60Hz recharging station
Power Supply (A/C):	115/230 Vac 50/60Hz AC adapter with 6 foot (2M) cable and interchangeable outlet adapters (Optional)		
Weight:	1.4 Lbs. (635 grams) with Standard battery 1.5 Lbs. (680 grams) with Hi-capacity battery		
Size (H x W x D):	9.5 x 3.75 x 5.5 in. (241 x 95 x 140mm)		
Housing material/rating:	ABS/IP54		



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



**Battery Recharging Station**

## Accessories

Item	Part No.
1. Standard Li-ion battery pack	6281-010
2. Hi-capacity Li-ion battery pack	6281-011
3. Battery charging station 115/230 Vac, 50/60 Hz	6281-012
4. Laser module	6281-020
5. Remote laser dock and blanking panel	6281-021
6. AC power adapter 115/230, 50/60Hz	6281-015
7. Deluxe water tight carry case	6281-031
8. T-5 reflective tape	6180-070
9. Miniature tri-pod with 1/4" x 20 stud	6180-040