

# Nova-Pro<sup>®</sup> 100, 300 & 500 Stroboscope/Tachometer

### Features:

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

### Typical Uses:

- Visually "stop-motion" of 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
- Virtual slow motion created to troubleshoot highspeed automation processes
- Print quality inspection
- Textile processing inspection
- Phase reference for balancing



## 3 Models to Choose From

The 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 is made up of twelve LEDs which are extraordinarily bright yet extremely efficient allowing cool continuous operation. The Nova-Pros come with a long-lasting rechargeable battery for continuous operation; an AC adapter option is available.



# Nova-Pro<sup>®</sup> Stroboscope/Tachometer

**Unique Features** 





	Nova-Pro Model		
Feature	100	300	500
Reflective LCD	$\checkmark$		
White-on-blue LCD with backlight		$\checkmark$	$\checkmark$
Touchscreen control		$\checkmark$	$\checkmark$
Standard output LEDs	$\checkmark$		
High output LEDs		$\checkmark$	$\checkmark$
Input/output jacks		$\checkmark$	$\checkmark$
Tachometer mode internal*	√*	$\checkmark$	$\checkmark$
Tachometer mode external		$\checkmark$	$\checkmark$
Programmable memory		$\checkmark$	$\checkmark$
Internal phase shifting			$\checkmark$
Phase delay			$\checkmark$
Time delay			$\checkmark$
Virtual RPM mode			$\checkmark$
NIST Calibration Certificate	*	$\checkmark$	$\checkmark$

Laser Module Included with the 300 & 500; optional for the 100

Battery Recharging Station Included with all models



AC Power Adapter Included with the 100 AC, 300 AC and 500 AC models

#### **Remote Laser Dock**

Remove the Laser Module from the Nova-Pro and insert it into the Remote Laser Dock with ¼"-20 bushing for optional tripod mount. Plug the cable into the external input jack (300 & 500 models) and make measurements in hard to reach or unsafe areas.

## **Design Features**

\*Optional on 100

The Nova-Pro represents over 40 years of expertise in manufacturing rugged, reliable, portable test and measurement instruments. This revolutionary product combines the feature sets of Monarch's portable stroboscopes and tachometers into one incredibly powerful ergonomic tool. The Nova-Pro is IP54 designed for use in wet/dusty environments.





12 LEDs for extremely bright, uniform light output

Onboard laser sensor\* for non-contact tachometer mode or triggering strobe (\*Optional on 100)

Input/output jacks for attaching remote sensors and pulse repeater output signal (300, 500)

Trigger activation of strobe and laser

Quick-release rechargeable battery pack; continuous AC also available

# Nova-Pro<sup>®</sup> Stroboscope/Tachometer







Specifications*	100	300	500		
Flash Range (FPM/RPM)	30 to 999,999				
Display	6-digit numeric and6-digit numeric and5-digit alphanumericLCD with touch keypaLCD reflectivebackground/white cha		ad; high-contrast blue		
Accuracy/Resolution	0.001% of setting or ±1 LSD/6 digits to 0.001				
Light Source	12 LED array 12 high-output LED array				
Flash Duration	Adjustable to 14°/2.000 msec max				
Light Output	3400 lux @ 6000 FPM, 12 in. [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			
Color Temperature	Approximately 6200 K				
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	N/A		-360.0 to 345.0°		
Time Delay	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)				
Power Supply - Battery	Removable/rechargeable standard Li-ion battery pack with 100-240 50/60 Hz recharging station		Removable/ rechargeable standard Li-ion battery packs (qty. 2) with 100-240 50/60 Hz recharging station		
No. of Battery Packs	1		2		
Power Supply - AC	100-240 V ac 50/60 Hz AC Adapter with 6-foot [2 m] cable and interchangeable wall plugs (optional)				
Weight	1.4 lbs. (635 g) with standard battery				
Size [H x W x D]	9.5 in. x 3.75 in. x 5.5 in. [241 mm x 95 mm x 140 mm]				
Housing Material/Rating	ABS/IP54				

\*Specifications are subject to change without notice.

**Ordering Information** Nova-Pro 100 6241-010 Includes 100 strobe with Li-ion battery pack, recharging station, interchangeable wall plugs 6241-011 Nova-Pro 100 Kit Same as above; ships with standard carry case Nova-Pro 300 6243-010 Includes 300 strobe with laser module, Li-ion battery pack, recharging station with interchangeable wall plugs, NIST Certificate Nova-Pro 300 Kit 6243-011 Same as above; ships with standard carry case Nova-Pro 500 6245-010 Includes 500 strobe with laser module, 2 Li-ion battery packs, recharging station with interchangeable wall plugs, NIST Certificate Nova-Pro 500 Kit 6245-011 Same as above; ships with deluxe watertight carry case Nova-Pro 100 AC 6241-020 Includes 100 strobe, 115/230 V ac adapter with interchangeable wall plugs Nova-Pro 100 AC Kit 6241-021 Same as above; ships with standard carry case Nova-Pro 300 AC 6243-020 Includes 100 strobe, 115/230 V ac adapter with interchangeable wall plugs Nova-Pro 300 AC Kit 6243-021 Same as above; ships with standard carry case

To order, see product's webpage.

# Monarch's Stroboscopes

Monarch Instrument has been building **handheld stroboscopes** for over 35 years and is recognized as the most popular brand worldwide.

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The **Nova-Pro UV 365 and UV 385** are extremely powerful, portable ultraviolet LED visual inspection instruments built on the all-new Nova-Pro stroboscope platform. Theses strobes are available with 365nm or 385nm wavelength LEDs and are optimized for inspection of UV inks on labels, security tags, anti-counterfeiting marks, UV coatings and more.

The **Nova-Pro IR 850** is a portable handheld infrared (IR) LED stroboscope used for inspection and stop motion. It is available with either 850nm or 940nm LEDs.

# **Stroboscope Accessories**

Each installation and use case of our handheld or fixed mount stroboscopes is unique. That's why we manufacture a full set of accessories to make sure our strobes will exceed your needs. From protective cases and pouches to sensors and batteries, we have the right tool and the perfect accessory for your stroboscope needs. <u>See the Nova-Pro Accessories webpage for details.</u>



Standard Carry Case PN: 6281-030





Input/Output Cable CA-4045-6, 6 ft. PN: 6280-038



Deluxe Carry Case PN: 6281-031



PN: 6280-37



Laser Module PN: 6281-020



Tripod Mini PN: 6280-040





AC Power Adapter

PN: 6281-015

Standard Li-ion Battery Pack PN: 6281-010



Laser Module Dock PN: 6281-021



Universal Recharger PN: 6281-013



Battery Charging Station PN: 6281-012



T-5 Reflective Tape 5 ft., single pack PN: 6180-070 5 ft., 2-pack PN: 6180-069 150 ft. PN: 6180-071

Nova-Pro 1221

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