

# VIBRATION STROBOSCOPE

*Nova Strobe Vibration Stroboscope*



Stroboscope designed for use with portable vibration data collectors/FFT Analyzers

- **Internal Tracking Filter of your accelerometer**
- **TTL Output and Input**
- **100-12,000 RPM**
- **Selectable Tracking Bandwidths**
- **Remote Triggering**
- **Adjustable Relative Phase Reference**
- **Lightweight-Self Contained**
- **Rechargeable Batteries**
- **Powerful Xenon Lamp**
- **CE Marked**

Phase Analysis is a powerful tool in troubleshooting rotating machinery. Monarch's Vibration Strobe is uniquely designed to provide precise, instantaneous synchronization to a number of data collectors and FFT Analyzers triggered by an accelerometer. Built for rugged, portable applications, the Vibration Strobe is the perfect lightweight phase analysis tool. The Vibration Strobe allows for the measurement of phase without stopping the machinery to install reflective tape.

Phase analysis is quick and accurate using the Filter Bandwidth Selector and the Relative Phase Adjustment. The Vibration Strobe is totally self contained, weighting only 2.5 lb (1.1 kg). It is battery powered making it easily hand-held or ideal for mounting on a tripod. The powerful Xenon lamp ensures the Vibration Strobe is bright enough for use in fully lighted areas. An optional vinyl Splashproof Cover is available for moist environments.



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 **Made in USA**

vbstrob1.p65

# VIBRATION STROBOSCOPE

## Specifications



*Vibration Strobe Kit 115 includes Vibration Strobe, fast recharger, spare lamp, data collector cable and carrying case.*

Flash Range	100-12,000 Flashes Per Minute (FPM)
Display	5-Digit Backlit Liquid Crystal Display
Accuracy	$\pm 1$ FPM
Flash Energy	180 mJoule
Flash Duration	30 mSec.
Lamp Life (typical)	100 million flashes
External Trigger	TTL (24V max) provides 5V out
Tracking Filter	Selectable Wide and Narrow Bandwidths
Operating Time	60 minutes at 6,000 FPM
Relative Phase Adjustment	Selectable $-90^\circ$ to $+90^\circ$
Operating Temperature	0-40°C
Power	6 Vdc, Internal Rechargeable Batteries 115Vac, 50-400 Hz or 220-240 Vac, 50-400 Hz
Weight	2.5 lbs. (1.1 kg)
Size (LxWxH)	Body: 9 x 3.66 x 3.56" (229 x 93 x 90 mm) Reflector Housing: 4.8" (122 mm) diameter Handle: 4.25" 9108 mm) long

### Typical Operation with a Data Collector:

1. Dial in RPM to stop motion of rotor (INT. Mode)
2. Select LOCK/TRACK Mode (*strobe locks to external signal from data collector*)
3. Select Filter (Wide tracks changes better, Narrow provides stablization)
4. Adjust Relative Phase Knob to view reference mark.

### LCD DISPLAY PANEL

**Relative Phase Adjustment Knob**-allows position of reference mark

**Trigger Mode Selector** allows for switching between: external, internal and lock/track. Use the strobe as a tach or locked to the highest signal from the data collector.



**LCD display**

**Filter Bandwidth Selector** provides the ability to optimize the signal in the tracking mode.

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