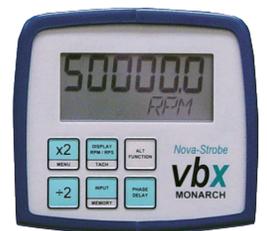




Nova-Strobe™ vbx Vibration Xenon Stroboscope Kit with NIST

Features:

- Several internal and external operational modes: standard strobe, internal “phase” delay/jog, tachometer frequency generator, external input, external input tachometer, external delay (phase shifting), accelerometer vibration signal lock
- Special “tuning” circuit allows tracking of vibration transducer (accelerometer) signals; narrow and wide bandwidth filter selection to discriminate fundamentals from harmonics
- Individual input and output TTL jacks (1/8” phone) for synchronization (daisy-chaining), providing signals to remote data collectors from the accelerometer, or external triggering and can power remote sensors
- Flash rates range from 30 to 50,000 flashes per minute, adjustable in 0.01 step increments, the coarse/fine adjustment knob makes it quick and easy to set the exact flash rate you want; the ALT knob function multiplies the initial flash rate by 2, 3, 4, 5, etc.
- Backlit alphanumeric LCD shows flash rate in flashes per minute (FPM) or flashes per second (Hz) and delays in degrees or milliseconds. Memory can store and recall up to 9-user selectable values
- Tachometer mode allows accurate speed measurement up to 250,000 RPM using external sensors/trigger
- Runs on internal, rechargeable batteries or continuously with plug-in power supply/recharger provided
- NIST Traceable Certificate included



The Nova-Strobe™ vbx Vibration Xenon Stroboscope is the most versatile strobe on the market! The vbx is uniquely designed to provide precise, instantaneous synchronization to a number of data collectors and FFT analyzers triggered by an accelerometer. Built for portable applications with top of the line features, the vbx is the perfect lightweight vibration and phase analysis tool. Applications include using the stroboscope to measure RPM, balancing and phase measurement, phase analysis, and motion studies.

Available in 3 different kit variations!

Order the vibration strobe with just the accelerometer interface cable or add a specialty interface cable for CSI 2120 or SKF CMVA data collectors. Each vbx model comes in a deluxe watertight carry case with die-cut foam insert with the CA-4046-6 accelerometer input cable, a spare xenon flashtube (lamp), and NIST Calibration Traceable Certificate.



Nova-Strobe™ vbx Vibration Xenon Stroboscope Kit

Specifications*	Nova-Strobe™ vbx Vibration Xenon Stroboscope
Internal Modes:	
Flash Range (FPM)	30 - 50,000 FPM, 0.5-830 FPS (Hz)
Flash Rate Accuracy	±0.004% of setting or ± least significant digit
Flash Rate Resolution	0.01 to 1 FPM (menu selectable), 0.1 FPM max resolution above 9,999.99 FPM
Display Update Rate	Instantaneous
External Modes:	
Flash Rate and Display	Same as internal mode; External flash rates to 0 are acceptable
Tachometer Measurements	5 to 250,000 RPM from external trigger Accuracy: ±0.001% of reading or ± last digit
Display Update Rate	0.5 second typical
Trigger-to-Flash Delay	5 µsec typical
Phase Delay	Phase: 0.1 to 359.9° Time: 0.01 to 1000 milliseconds Auto: 0 to 200 VRPM
External Input (1/8" phone plug)	TTL compatible (24 V pk max), 0.5 µsec min. pulse width, positive or negative edge-triggered (menu selectable)
Tracking (Accelerometer) Mode:	
Flash Range	100 - 50,000 FPM (Flashes Per Minute)
Tachometer Measurements	100 to 50,000 RPM Accuracy: ±1 RPM
Display Update Rate	0.5 second typical
Trigger to Flash Delay	5 µsec typical
Phase Delay	Phase: 0.1 to 359.9° Time: 0.01 to 1000 ms Auto: 0 to 200 VRPM
Tracking Filter	Selectable Wide and Narrow Bandwidths. The filter may not lock below 100 FPM
External Input	Input pulse - 0.5 µsec min., TTL to 24 V max (1/8" phone plug)
Accelerometer Power	18 Vdc ±10% @ 2 mA (menu selectable: on=yes, off=no)

For a complete list of specifications, [consult product's webpage](#).

*Specifications are subject to change without notice.

Ordering Information

Models	Part Number
Nova-Strobe vbx 2120 (for 2120 Data Collector)	6220-031
Nova-Strobe vbx SKF (for SKF CMVA Data Collector)	6220-032
Nova-Strobe vbx Kit (no data collector cable)	6220-033



vbx 0326

15 Columbia Drive, Amherst NH 03031
800-999-3390 // 603-883-3390 // Fax 603-886-3300
sales@monarchinstrument.com

www.monarchinstrument.com