

VIBRATION-STROBE (VBX) PORTABLE STROBOSCOPES

For Vibration Analysis and Predictive Maintenance

The **Vibration-Strobe (vbx)** kit has an operating range of 30 to 50,000 flashes per minute. 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, the **vbx** is the perfect lightweight phase analysis tool. The **vbx** 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. Unique "Tracking Filter" maintains phase lock to input pulse. The **vbx** can power and be triggered by accelerometers with or without data collectors.

Kit includes: Strobe, interface cable, universal power supply/recharger, spare lamp and carry case.



Features

- vbx 115 Kit (shown above) includes carry case, spare lamp and 3 hour fast charger along with cable to specified vibration data collector. **(consult factory)**
- Flash rates from 30 to 50,000 flashes per minute, adjustable in 1 FPM increments. The all digital, crystal controlled microprocessor keeps readings rock steady.
- Selectable tracking filter allows for solid phase reading.
- Individual input and output TTL jacks for providing signals to remote data collectors from accelerometer.
- Relative Phase Adjustment is user selectable allows reference mark to positioned at a convenient visual location.
- Backlit alphanumeric LCD display shows flash rate in flashes per minute.

Specifications	Vibration-Strobe vbx CE
Flash Range	30-50,000 FPM (Flashes/Minute) 0.5-830 FPS (Flashes/Sec. or Hz)
Accuracy	±0.002% of Setting ± least significant digit
Digital Adjustment Knob	36 detents per revolution and blinking decade selection
Flash Rate Resolution (Internal Triggering)	0.01 to 1.0 FPM (Menu Selectable)
Indicators	Battery Level, On Target, Time, Auto, Alt, Tach, Lock, and EXT icons
Operating Time	2 hours typical @1800 FPM (operates continuously on AC power)
Phase Delay - Degrees	0.1 to 359.9 degrees
Tracking Filter	Selectable Wide and Narrow Bandwidths. Filter may not lock below 100 FPM
Time Delay	0.01 to 1000 msec.
Virtual RPM (Slow Motion)	0-200 VRPM
Flash Energy (Typical)	230 mJoule up to 3450 FPM
Flash Duration (Typical)	8-20 microseconds
Average Power - Watts	11Watts @ 3000 FPM; >13Watts @ 3450 FPM
Tachometer Mode	5-250,000 RPM from external trigger
External Input (1/8" phone plug)	Input Pulse - 0.5 usec min, TTL to 24V max (1/8" phone plug)
Trigger Output/Remote Sync (Typical)	3.3V TTL Compatible 40 usec pulse-Positive/Negative
Power	Internal rechargeable NiMH batteries
Weight	1.9Lbs. (0.852 kg) including batteries