

**Phaser-Strobe Series**



**Phaser-Strobes** incorporate the unique design features of the Nova-Strobe DB Plus family with an increased operating range of 30 to 32,500 flashes per minute, as well as external phase shifting. The unique digital adjustment knob can select the decade for adjustments, so coarse and fine adjustments of flash rates are made quickly and with significantly better resolution than competitive units. The memory feature of the Phaser-Strobe allows three flash rates to be stored - displayed in flashes per minute or flashes per second. **Phaser-Strobe** operates with internal rechargeable batteries or continuously from AC line power with the optional power supply/recharger.

**Features**

- Phase Shift adjustable as phase angle or time with resolution to 0.1° and 0.0001sec
- Auto step mode provides slow motion viewing for high speed events
- Backlit alphanumeric LCD shows flash rate, degrees, time.
- Store and recall three memory settings
- TTL compatible input/output jacks, power for optional sensors
- Tachometer mode from external trigger



- Common Applications:**
- Calibration of Tachometers
  - Diagnostic Inspection
  - Engine R&D
  - Textiles



Phaser-Strobe PB 115

Specifications	Phaser-Strobe PB
<b>Flash Range</b>	30-32,500 FPM (Flashes/ Minute) 0.5-533.33 FPS (Flashes/sec) (Hz)
<b>Accuracy</b>	±0.01% of reading
<b>Digital Adjustment Knob (All ranges and modes)</b>	Decade change push mode enables any value to be changed in decade steps (power of 10) from 0.0001 per detent to 10,000 per detent
<b>Flash Rate Resolution</b>	±0.05 FPM from 30 to 2,999 FPM, ±0.5 FPM from 3 to 32.5K FPM
<b>Flash Rate (External Triggering)</b>	5-32,500 FPM 0.5000-541.66 FPS
<b>Phase Delay - Degrees</b>	0-359 ±0.1 100-3,499.0 FPM 0-355 ±0.1 3,500-9,999.9 FPM 0-350 ±0.1 10,000-32,500 FPM
<b>Time Delay - Seconds</b>	0 to 6.500 seconds ±0.0001 seconds
<b>Auto Step Mode (Range)</b>	Step Size 0-180° Step Rate 0.0001-6.50 seconds per step
<b>Flash Energy (Typical)</b>	150 mJoule < 10,000 FPM, 50 mJoule > 10,000 FPM
<b>Flash Duration (Typical)</b>	10-30 microseconds
<b>Average Power - Watts</b>	10W
<b>Tachometer Mode</b>	5-200,000 RPM from external trigger (flash inhibited above 33,000 FPM)
<b>External Input</b>	Input Pulse - 5 microseconds min, TTL to 24V max (1/8" phone plug)
<b>Trigger Output/Remote Sync</b>	5V TTL compatible negative edge, 500 microseconds pulse (Typical)
<b>Power</b>	Internal rechargeable batteries or AC power supply/recharger
<b>Weight</b>	2.5 Lbs. (1.2 kg) including batteries

**Ordering Information**  
**Phaser-Strobe PB 115** Stroboscope, R-5 (115Vac) recharger  
**Phaser-Strobe PB Kit 115** Same as Above with PSC-3 (115 Vac) power supply/recharger and spare lamp in latching case  
**Phaser-Strobe PB 230** Same as Phaser-Strobe PB 115, but with R-6 (230 Vac) recharger  
**Phaser-Strobe PB Kit 230** Same as Phaser-Strobe PB Kit 115, but with PSC-4 (230 Vac) power supply/recharger

PORTABLE STROBOSCOPES (for use with Vibration Data Collectors)

**Vibration-Strobe Series**



**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. **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. Unique "Tracking Filter" maintains phase lock to input pulse. Kits include: Strobe, interface cable, fast recharger and spare lamp in latching carrying case.

Specifications	Vibration Strobe
<b>Flash Range</b>	100-12,000 Flashes Per Minute (FPM)
<b>Display</b>	5-Digit Backlit Liquid Crystal Display
<b>Accuracy</b>	± 1 FPM
<b>Flash Energy</b>	180 mJoule
<b>Flash Duration</b>	30 µSec.
<b>Lamp Life (typical)</b>	100 million flashes
<b>External Trigger</b>	TTL (24V max) provides 5V out
<b>Tracking Filter</b>	Selectable Wide and Narrow Bandwidths
<b>Operating Time</b>	60 minutes at 6,000 FPM
<b>Relative Phase Adjustment</b>	Selectable -90° to +90°
<b>Power</b>	6 Vdc, Internal Rechargeable Batteries, 115Vac, 50-400 Hz or 220-240 Vac, 50-400 Hz Fast Charger
<b>Weight</b>	2.5 lbs. (1.1 kg)



Vibration Strobe VB-115

**Ordering Information**  
 Contact Factory for available Models