

PBX Phaser Strobe

The **Phaser-Strobe PBX** incorporates the unique design features of the Nova-Strobe DBX with an increased operating range of 30 to 50,000 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 pbx** allows nine flash rates to be stored - displayed in flashes per minute or flashes per second. **Phaser-Strobe PBX** operates with internal rechargeable batteries or continuously from AC line power with the power supply/recharger.

Features:

- Phase Shift adjustable as phase angle or time
- Virtual RPM mode provides slow motion viewing for high speed events
- Store and recall nine memory settings
- TTL compatible input/output jacks
- NIST traceable certificate included

Specifications

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|-----------------------------|---|
| Flash Range: | 30-50,000 FPM (flashes/minute) 0.5-830 FPS (flashes/sec.) (Hz) |
| Accuracy: | ±0.002% of setting ± least significant digit |
| Digital Adjustment Knob: | 36 detents per revolution and blinking decade selection |
| Flash Rate Resolution: | 0.01 to 1.0 FPM (menu selectable) |
| Operating Time: | 2 hours typical @ 1800 FPM or continuous AC power |
| Phase Delay: | 0.1 to 359.9 degrees |
| 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 µsec |
| Average Power: | 11W @ 3000 FPM; > 13W @3450 FPM |
| Tachometer Mode: | 5-250,000 RPM from external trigger |
| External Input: | Input pulse - 0.5 µsec min, TTL to 24V max (1/8" phone plug) |
| Trigger Output/Remote Sync: | 3.3V TTL compatible 40 µsec pulse positive/negative |
| Power: | Internal rechargeable NiMH batteries with AC power supply/recharger |
| Weight: | 1.9 lbs. (0.85 kg) including batteries |



Ordering Information

| Item | Description | Part No. |
|-----------------|---|----------|
| PBX 115/230 | Strobe with PSC-pbxU 115/230 power supply/recharger, manual and NIST certificate. | 6210-020 |
| PBX 115/230 Kit | Same as above with deluxe water tight foam lined carry case. | 6210-021 |

VBX Vibration Strobe

The **VBX 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 portable applications, the **VBX** is the perfect lightweight phase analysis tool. **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. **VBX** can power and be triggered by accelerometers with or without data collectors.

Features:

- Compatible with CSI and SKF analyzers
- Tracking filter maintains phase lock
- Direct triggering from accelerometers
- NIST traceable certificate included

Specifications

| | |
|-----------------------------|--|
| Flash Range: | 30-50,000 FPM (flashes/minute) 0.5-830 FPS (flashes/sec.) (Hz) |
| Accuracy: | ±0.002% of setting ± least significant digit |
| Digital Adjustment Knob: | 36 detents per revolution and blinking decade selection |
| Flash Rate Resolution: | 0.01 to 1.0 FPM (menu selectable) |
| Operating Time: | 2 hours typical @ 1800 FPM or continuous AC power |
| Phase Delay: | 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 µsec |
| Average Power: | 11W @ 3000 FPM; > 13W @3450 FPM |
| Tachometer Mode: | 5-250,000 RPM from external trigger |
| External Input: | Input pulse - 0.5 µsec min, TTL to 24V max (1/8" phone plug) |
| Trigger Output/Remote Sync: | 3.3V TTL compatible 40 µsec pulse positive/negative |
| Power: | Internal rechargeable NiMH batteries with AC power supply/recharger |
| Weight: | 1.9 lbs. (0.85 kg) including batteries |



Ordering Information

Please visit www.monarchinstrument.com or contact us directly for complete part number and pricing information.