

Hand-held stroboscope Nova-Strobe Delux DBX



- mains-independent thanks to battery operation (dbx) or direct 230 VAC connection for continuous operation (dax)
- 30 to 20,000 flashes per minute
- Phase delay
- external triggering and synchronization possible/trigger edge selectable
- backlit, brilliant LCD display with many functions

<https://www.wachendorff-prozesstechnik.de/en/DBX>

Description

The Nova-Strobe stroboscope is used for speed and vibration measurement or for observing movement. Its handy design and low weight make it easy to carry out measurements even in hard-to-reach places. The flash frequency is set using a rotary knob and shown on a display.

The device also has a trigger input and a trigger output, enabling external triggering and synchronization.

The supply voltage is provided by an internal rechargeable battery (dbx) or by direct connection to 230 VAC via mains cable (dax).

Product details

Display:	2-line LCD display 13 mm / 7 mm digit height 6-digit numeric and 5-digit alphanumeric
Operation:	6 buttons on the viewing side and rotary knob on the side for dynamic speed adjustment The knob with an incremental rotary encoder adjusts the speed. The individual decimal places can be selected and changed by pressing the knob.
Frequency range:	Stroboscope: 30.0 FPM to 20,000.0 FPM (flashes per minute) 0.5 FPS to 333.33 FPS (flashes per second) Adjustable via rotary knob, keypad or external triggering. Tachometer: Speed display with external triggering Range: 5.0 rpm to 250,000 rpm with optional sensor
Resolution:	0.01 FPM to 1 FPM (adjustable) 0.1 FPM max. resolution above 9999.99 FPM
Accuracy:	Stroboscope: 0.002% of the display value or \pm last digit Tachometer: $\pm 0.001\%$ of the display value or \pm last digit
Flash duration:	10 μ s to 25 μ s
Lightning energy:	typ. 230 mJ/flash; 13 W on average
Flash tube:	Pluggable xenon tube (type L1903), typ. Lifetime 100 million flashes

Battery:	Internal rechargeable NiMh battery Battery capacity lasts for approx. 120 min at 1800 FPM or 60 min at 6000 FPM Charging time: approx. 4.0 h to 5 h
Input / Output:	Input: Enables external triggering of the stroboscope. Connection via a 3-pin, 3.5 mm jack plug. The input is TTL-compatible (24 volts max.). Minimum trigger pulse width: 500 ns. Delay: typ. 13 μ s between trigger pulse and flash (dbx) or typ. 16 μ s (dax); trigger edge selectable (rising or falling edge). The internal oscillator and the rotary knob for frequency setting are deactivated as long as a jack plug is plugged in. Output: Enables synchronization with other devices. Connection via 2-pin, 3.5 mm jack plug. The output is TTL-compatible and corresponds to the flash frequency of the stroboscope. Trigger edge selectable (rising or falling edge). Pulse duration: 40 μ sec.
Sensor supply:	6 VDC
Supply:	6 VDC via internal, rechargeable NiMH battery (dbx) or direct 230 VAC (35 VA) connection via mains cable (dax).
Ambient conditions:	Operation: 0 °C to +40 °C
Dimensions (W x H x D):	Housing body: 93 mm x 90 mm x 229 mm Reflector housing: Diameter 122 mm Handle: Length 108 mm
Housing:	Robust plastic housing.
Weight:	approx. 850 g
Manufacturer:	Monarch Instrument , USA.

Products Order no.

NOVSDBX0	Nova-Strobe dbx (with power supply unit)
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NOVSDBXK	Nova-Strobe dbx kit (with power supply unit, spare bulb and plastic case)
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Accessories Order no.

L1903000	Replacement flash tube
NOVASPC1	Splash protection cover
NOVSNET0	Universal charger for stroboscope/ PALMSTROBE
OSENP000	Optical sensor (round) with plug, diffuse, Diameter: M16, Switching distance sn: 0.9 m / $\pm 45^\circ$, Scanning frequency: up to 4166 Hz, NPN, 2.4 m cable with 3.5 mm jack plug



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