

# Model QB-LED Battery-Powered Stroboscope

## Features

- **40 LEDs (5 x 8 matrix) produce 5000 LUX Peak Brightness**
- **Flash range of 30 – 300,000 FPM (0.5-5000 Hz).**
- Selectable units: FPM (Flashes Per Minute), Hz, or 1/MIN.
- *Slow Motion Mode* allows user to offset the flash rate to put the frozen image into apparent slow-motion
- *PRO Mode* adds functions including Multiplier, Delay and Memory (5 user-set values)
- Standard features include Phase Shift and Internal/External Trigger.
- Built-in Lithium-Ion battery provides up to seven hours of continuous operation on a single charge.
- Universal battery chargers provide continuous power for field-mounted use.
- Adjustable flash duration allows optimal brightness and image sharpness for every application.
- Traceable Calibration Certificate.
- Ergonomically designed handle, convenient operator controls and backlit LCD display.
- CE Certified with 1-Year Warranty.

**Hand-held LED Stroboscope features forty high-power LEDs to provide a peak brightness of 5,000 LUX.**

The Check-Line® QB-LED provides the highest light output in its class. Designed for machinery observation, visual inspection and motion analysis, its robust design and rugged aluminum housing are ideal for the toughest industrial environments.

The QB-LED is extremely easy-to-use. It features a simple menu structure for accessing common and special functions. Operator controls are conveniently located on the back panel.

**Applications:** Motion and vibration analysis, balancing of rotating shafts, fans, cams, high speed motion analysis of speakers or ink-jet printing and more. The QB-LED is ideal for use in the textile, paper making, sheet metal production, automotive and printing industries.



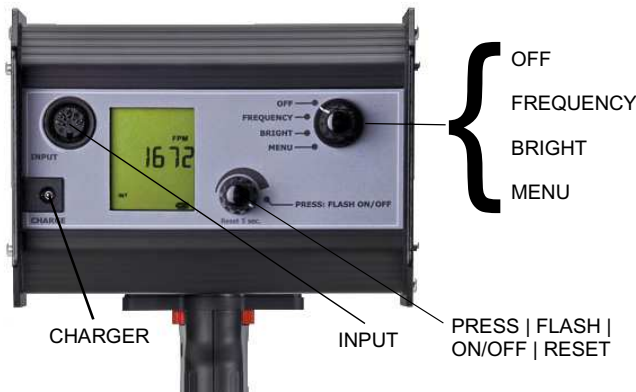
Simple controls and bright, easy-to-read LCD display.

# QB-LED Specifications

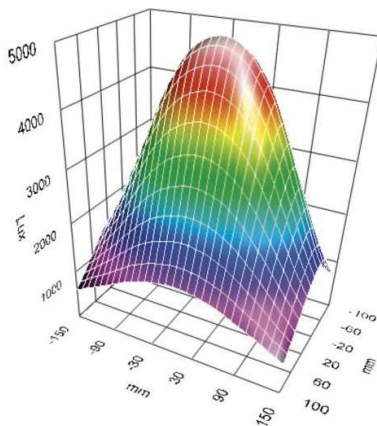
<b>Number of LEDs</b>	40
<b>Flash Rate</b>	30 – 300,000 FPM (0.5 – 5000Hz)
<b>Flash Duration</b>	Adjustable (1 µsec up to 2000 µsec)
<b>Accuracy</b>	± 0.02% (± 1-digit/±0.025µsec)
<b>Resolution</b>	± 0.1 FPM (30 – 999) ± 1 FPM (1000 – 9999) ± 10 FPM (10,000 – 300,000)
<b>Brightness</b>	5000 Lux @ 6000 FPM / 12" (30cm) and 3° Sharpness
<b>Display</b>	LCD, multiple lines
<b>Certification</b>	CE (as per EU norms)
<b>Flash Color</b>	Approx. 5,000 – 8000 K
<b>Power</b>	Built-In Lithium-Ion rechargeable battery
<b>Housing Material</b>	Aluminum
<b>Dimensions</b>	6 x 5.1 x 4.4" (150 x 130 x 112 mm)
<b>Weight</b>	2.2 lbs. (1 Kg)

<b>Temperature Range</b>	0 to 104° F (0 to 40° C)
<b>Battery Life</b>	approx. 7 hours at (@875 Lux) approx. 4 hours at 2000 Lux
<b>Housing Protection</b>	IP30
<b>Mounting Holes</b>	1x 1/4" – 20UNC (in center) 2x M5 Threaded Holes (60 mm c:c)
<b>Trigger Input Signal</b>	1.30 V / max. 5 mA (Isolated optocoupler) DIN 41524 5-pin standard plug Uout = 24V DC, 60 mA switchable trigger input
<b>Trigger Output</b>	not available
<b>Warranty</b>	1 Year
<b>Default Settings</b>	FREQUENCY=1000 FPM, BRIGHT=1°/166µsec, PHASE=0, TRIGGER=INT, Display Units=FPM, Multiplier=x1, Bright Units=deg, Delay=0msec, Divider=1, Slow=0, Trigger=0(rising)

## Controls



## Light Output (LUX) vs Distance



**Distance:** 12(300.0mm)  
**Frequency:** 6000.0 FPM  
**Flash Duration:** 3.0°  
**Max. Brightness:** 5045.9 LUX

## Related Products

### QBS-LED

#### Battery-powered LED Stroboscope

- Peak brightness of 10,000 LUX
- 118 high-powered LEDs
- Provides a Non-Contact Tachometer Mode
- Auto-Sync instantly freezes rotating motion without adjustment



### LS-9-LED

#### Fixed Mount LED Linear Stroboscope

- 120 Hi-Powered LEDs for Peak brightness of 7,500 LUX
- Covers web widths to 16" (400mm) & more
- Adjustable brightness & sharpness



### DS-2000-LED

#### Splash-Proof LED Stroboscope

- Advanced features with 7 over-sized LEDs
- Small, lightweight for maximum portability



## Complete Kit

The QB-LED is supplied as a complete kit including the strobe, removable handle, universal AC adapter with USA, EURO and UK plugs, DIN connector when using external trigger signal from sensor, traceable calibration certificate in a foam-fitted plastic carrying case.