# LED Fixed-Mount Inspection Stroboscope
# Model LS-3-LED

## LED Lightsource

40 Super-Bright LEDs
(*arranged in a 10 x 4 array*)

## Flash Range

30 to 300,000 FPM
(*flashes per minute*)

- 40 High Power LEDs produce 5000 Lux Peak Brightness

- Flash range of 30 – 300,000 fpm (0.5 – 5000 Hz) with user-selected units of Hz, FPM, 1/MIN

- Adjustable flash duration allows for optimal tuning of brightness and image sharpness

- External trigger input for flash control via external sensor

- Designed for fixed-mounting using 1/4"-20 Tripod Mount or 2 M5 Threaded Inserts

- Supplied with AC-Adapter (100 – 265V AC)

- Screw-on handle, rubber strobe guards and carrying case (*optionally available*)

- CE Certified with 1-Year Warranty

**High-performance LEDs produce a bright/sharp image and uniform light distribution for web widths up to 10" (*25cm*).**

**LS-3-LED**

The new LS-3-LED is a high-performance LED stroboscope designed for process and narrow web inspection. It is ideal for use with webs up to 10" *(25cm)* in width.

The LS-3-LED features a rugged aluminum housing with forty, high performance LEDs providing a peak brightness of 5000 Lux and convenient adjustment of flash duration to easily select the optimal balance of brightness and image sharpness. It is supplied with a universal battery charger (100 – 240VAC) with USA, Euro and UK plug adapters. Its convenient tripod mount allows for easy installation on a range of equipment.

*Built-in strobe control allows for easy adjustment of flash rate, brightness, phase and more. External input allows syncing the strobe with a remote sensor*
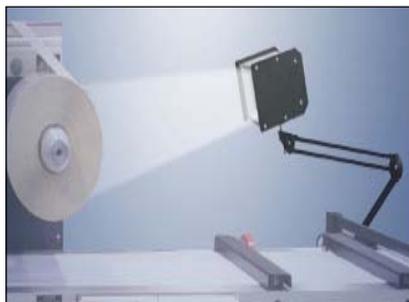
# LS-3-LED Specifications

| | | | |
|---|---|---|---|
| **LEDs** | 40 Hi-Powered LEDs in a 5x8 array | **Housing Protection** | IP30 |
| **Frequency Range** | 30 - 300,000 FPM (0.5 - 5000Hz) | **Dimensions** | 6.0" x 5.1" x 4.4" *(150 x 130 x 112mm)* |
| **Flash Duration** | Adjustable (1 usec up to 2000 usec) | **Weight** | 2.09 lbs. *(0.95 Kg)* |
| **Accuracy** | ± 0.02% (± 1-digit/±0.025usec) | **Ambient Temperature** | 32° to114°F *(0° to 40℃)* |
| **Resolution** | ± 0.1 FPM (30 – 999)<br>± 1 FPM (1000 – 9999)<br>± 10 FPM (10,000 – 300,000) | **Storage Temperature** | –10° to125°F *(–25℃ to 70℃)* |
| | | **Humidity** | Max. 95% not condensing |
| **Brightness** | 5000 Lux @ 6000 FPM / 12 inch *(30cm)* - and 3° Sharpness | **Certifications** | Certificate of CE conformity |
| | | **Warranty** | 1 Year |
| **Flash Color** | Approx. 5,000 - 8000 K | **Mounting Holes** | Located on underside of housing:<br>(1) 1/4 - 20UNC in center<br>(2) M5 Threaded Inserts (60 mm c:c) outer |
| **Display** | LCD, multiple lines | | |
| **External Trigger Input** | 3 to 30 V / max. 5 mA<br>Potential-free optocoupler<br>DIN 41524 5-pin standard plug<br>Uout = Uin, max. 200 mA<br>switchable trigger input | **Power** | 24V DC supplied via Universal AC Wall Plug Adapter (100 – 240V AC), included |
| | | **Default Settings** | FREQUENCY=1000 FPM, BRIGHT=1°/166usec, PHASE=0, TRIGGER=INT, Display Units=FPM, Miltiplier=x1, Bright Units=deg, Delay=0msec, Divider=1, Slow=0, Trigger=0(rising) |
| **Trigger Output** | Not available | | |
| **Material** | Aluminum | | |

## Complete Kit

The LS-3-LED is supplied as a complete kit including the strobe, universal AC adapter with USA, EURO and UK plugs, DIN Connector (for use when externally triggering from sensor), traceable calibration certificate and instruction manual with Quick-Start Guide.

*Shown with optional, foam-fitted, plastic carrying case.*

## Optional Accessories

**SAS-DT300 Articulating Swing Arm** permits flexible and secure mounting of our digital stroboscopes. It includes a surface mount swivel bracket for mounting to horizontal surface and mounting screws. Capacity of approx. 3.5 Lbs *(1.6 Kg)*.

## LED Strobe Models Comparison

| Model | LEDs | Array Size | Brightness (peak) | Housing Width |
|---|---|---|---|---|
| LS-3-LED | 40 | 10 x 4 | 5000 Lux | 150mm (6 inch) |
| LS-5-LED | 80 | 10 x 8 | 6000 Lux | 150mm (6 inch) |
| LS-9-LED | 120 | 15 x 8 | 7500 Lux | 230mm (9 inch) |
| LS-9-LED-WB | 120 | 5 x 8 (3X) | 7500 Lux | 440mm (17 inch) |
| LS-18-LED | 200 | 25 x 8 | 9000 Lux | 440mm (17 inch) |
| LS-36-LED | 480 | 60 x 8 | 14000 Lux | 948mm (37 inch) |