

## Series ST-320BL Black Light LED Stroboscope

**The ST-320BL is a portable or permanent mount stroboscope.** Utilizing super bright high-powered black light CREE LED lamps, these stroboscopes are perfect for UV ink printing applications. The ST-320BL's LED array provides a bright, stable strobe light over a wide measurement range with a lifetime far exceeding xenon lit stroboscopes. Operation is simple with the 8 button keypad and quick rate adjustment dial, combined with large, backlit LCD display. Phase shift, flash duration, plus flash rate are all quickly adjustable. The unit can work off user adjusted flash frequency or from a remote sensor's signal which will automatically adjust to corresponding process fluctuations.

The ST-320BL is designed for speed and frequency measurements in the printing, packaging, textile, automotive, cable, mining, steel, chemical, optical and medical industries in various applications.



ST-320BL Black Light LED Stroboscope

### Features

- *Wide Flash Range 60 – 120,000 Flashes/min. (1-2000 Hz) can be adjusted to meet almost any high-speed application*
- *Long-life Black Light LED operation for UV ink applications*
- *Adjustable Flash Pulse duration achieves sharper images for detailed inspection*
- *Phase Shift Advances or retards flash timing for viewing gear teeth, cutting surfaces, repeats or “drifting” images*
- *Input sensor trigger function allows process machinery to control flash rate*
- *Delay time adjustment combined with leading or trailing edge activation simplifies process set-up when using external signal input*
- *x2 and 1/2 keys for large adjustment rate change or +/- for fine tuning*
- *1/4-20 UNC connection for permanent mount applications (remove trigger handle)*



Operation Panel  
& Flash Adjustment Dial



ST-320BL in Included  
Metal Carrying Case

## ST-320BL Specifications

Flash Rate Range	60 to 120,000 FPM ; 1-2000 Hz
Accuracy	0.01%±1 digit of F.S. @ 77° F (25°C)
Lamp Lifetime	Approximately 3~5 years depending on usage.
Display	Backlit LCD
Resolution	60 ~12,000 FPM = 0.1 FPM; 12,001~120,000 FPM = 1 FPM; 1~200 HZ = 0.01 Hz; 201~2000 = 0.1 Hz
Flash Duration	0.1°- 2.5°
Phase Shift	0-359°
Power Requirement	ST-320BL-1: 100-120 VAC (230V available upon request) ; ST-320BL-2: Rechargeable Battery with 100-240VAC power adapter.
Battery (ST-320BL-2)	Lithium DC 10.8V 2000mA
Battery Life (ST-320BL-2)	Approx. 12 hrs depending on settings
Input Signal	12 V Pulse Input; 3 pin M-12
Input Signal Range	60-120,000 FPM (1-2000 Hz)
Input Pulse Width	Over 50 $\mu$ s
Input Signal Flash Delay	0-999 ms; 0-359°
Temperature Limits	32-95°F (0-35°C)
Humidity Limits	35 to 85% RH
Enclosure	Aluminum & ABS
Mounting	1/4-20 UNC Thread
Enclosure Rating	IP54
Product Weight	ST-320BL-1: 1.85 lb (0.84 kg); ST-320BL-2: 1.98 lb (0.90 kg)
Package Weight	ST-320BL-1: 4.40 lb (2.0 kg); ST-320BL-2: 5.73 lb (2.6 kg)
Approvals	CE
Warranty	1 year
Included Accessories	Carrying Case, ST-320BL-1: 6.5' (2 m) AC power cord; ST-320BL-2: Power Recharging Adapter with cord

## Ordering Details

Model	Description
ST-320BL-1	Portable Black Light LED Stroboscope, 100-120 VAC Line Powered.
ST-320BL-1-230V	Portable black light LED Stroboscope, 220-240 VAC line powered.
ST-320BL-2	Portable Black Light LED Stroboscope, Rechargeable Battery with 100-240VAC power adapter.

## Accessories

Model	Description
SG-320BL	Front Rubber Strobe guard for ST-320BL
ST320HANDLE	Top Handle for ST-320BL
E2E-X5ME1-Z	Proximity sensor with M-12, 3 pin connection



Operation Control Panel

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