

1542-B Strobotac® Stroboscope Series

The 1542-B is an extremely easy to use and low cost solution for Strobe-Inspection operations. It is ideal for timing and observing motion in a variety of situations.

- For machine maintenance
- Real time inspection of moving parts
- Printing press applications
- Motor troubleshooting
- For stopping motion
- Up to 3800 bright-white flashes per minute -to observe motion as fast as 40,000 rpm
- Wide-range continuous flash-rate control
- Low-cost, excellent OEM strobe

The Strobotac 1542-B has been tailored for convenient operation. This strobe was designed specifically for inspection applications and features simple pushbutton control with a single knob to control the flash rate - no range switching is ever necessary. This strobe includes a unique electronically compensated output for visually constant image brightness (as the flash rate decreases, the light intensity hand-held operation and includes a threaded hole for tripod mounting.

All components are industrial grade and the engineering is completely thorough, including exacting environmental testing to ensure reliable operation under extreme conditions.



Model 1542-B Stroboscope

- Simple push-button operation
- Compact, light-weight, rugged

The 1542-B - simple, economical. The 1542-B is as easy to operate as an extension lamp but is considerably more useful. Plug in the attached power cord, push the On-Off button, point the light at the action, and turn one knob until the visual image of the action slows to the desired rate or stops. That's the sum total of the operation - plug, push, point, and turn!



The arm is available as an accessory to position the light conveniently in permanent or semi-permanent installations.



Convenient hand held or optional fixed position operation.

Series 1542-B Electronic Stroboscope

SPECIFICATIONS

Flash Rate: 180 to 3,800 flashes per minute, adjustable over a single range by a 5-turn uncalibrated control.

External Trigger: None.

Trigger Delay: None.

Light Output: Beam width 10° at ½ - intensity points.

Flashes per minute	Duration* (μs)	Energy** (watt-seconds)	Beam intensity*** (candela)
at 180	4	0.25	6 x 10 ⁶
at 3800	3	0.06	1 x 10 ⁶

* Measured at 1/3 peak intensity; for 1538 with -P4 duration is 8 μs.

** Electrical input to lamp, watt-seconds.

*** Measured with silicon photo detector 1 meter from lamp.

Features

Environment: Temperature: 0 to 50°C operating, -40° to +75°C storage.

Humidity: 95% RH at +40°C (MIL E-16400-44.5.4.6).

Vibration: 0.03 in from 10 to 55 Hz.

Bench Handling: 4 in or 45° (MIL-810AVI).

Shock: 50 g, 11 ms (MIL 202C-205C).

Power: 105 to 125 V, 50 to 60 Hz, 9 W max.

Mechanical: Molded plastic case with plastic face plate to protect lamp, diffused-finish and anodized-aluminum reflector, standard 0.25 - 20 threaded hole for tipod mounting.

Dimensions: 10.7 cm H x 10.7 cm W x 19.8 cm D (4.2" x 4.2" x 7.8")

Weight: 0.8 kg (1.8 lb.) net, 0.9 kg (2.1 lb.) shipping

ORDERING INFORMATION

1542-9701 1542-B Strobotac Electronic Stroboscope

INCLUDES:

Calibration Certificate Traceable to NIST
Attached Power Cord

OPTIONAL ACCESSORIES:

Calibration Data
1530-9410 Replacement Flash Lamp for 1542-B
1542-9600 Arm, for 1542-B, to position light conveniently in permanent or semi-permanent installations

