

DT-315AEB Portable Stroboscope

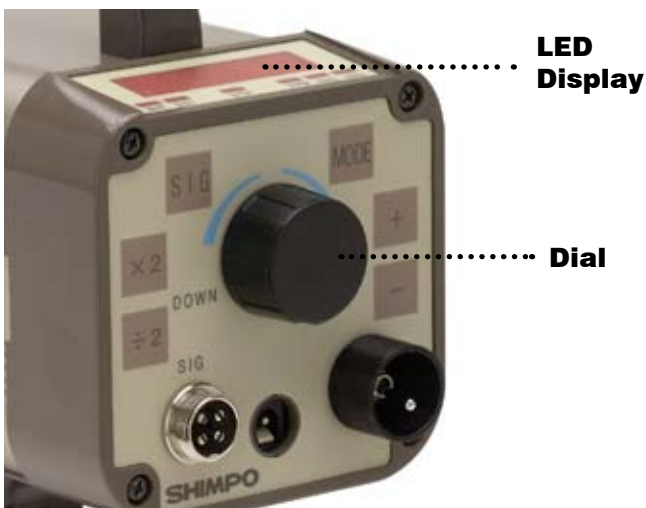
The DT-315AEB Portable Stroboscope with Rechargeable Battery incorporates a robust, extruded aluminum housing with a precise, repeatable accuracy allowing it to be the solution for the most demanding applications. A truly portable unit, the DT-315AEB operates independent of line power via an exterior battery pack that can be carried with a convenient shoulder harness or set down to allow the operator full movement for visual inspection. When fully charged, rechargeable batteries power the strobe for approximately four continuous hours.



Features

- *Extruded aluminum construction: Extraordinary durability yields long service life*
- *External battery supply: Lightweight; enables easy portability*
- *Repeatable accuracy ($\pm 0.01\%$ of reading): Fully meets the strictest tolerances*
- *Phase shift (in degrees of delay time): Enables visual analysis of rotating/reciprocating objects through all points of motion/time/angle*
- *Flash timer control: Prolongs flash tube life*
- *Manual flash controller knob: Permits easy/accurate adjustments to flash rate*
- *External trigger: Allows synchronization of the flash rate with the motion of the rotating machinery*
- *Continuous duty cycle: Eliminates downtime waiting for unit to cool*
- *Highly polished focused reflector: Prevents "blind" viewing areas*

Easy Operation Control



LED
Display

Dial

SIG

Change Operation from INTERNAL to EXTERNAL flash control

MODE

Internal Signal "MODE" (Flash) or External Trigger Control LED Changes to Indicate FPM (flash/min.), flash delay in degrees and flash delay in milliseconds

X2 / ÷2

Adjust Flash Rate Settings Increase 2 times or decrease by 2 the flash rate setting when in "Internal" mode

+/-

Phase "SHIFT" Advance or Retard viewed motion in degrees or milliseconds

DT-315AEB Specifications

Internal Mode	Flashing Range	40.0 - 35,000 FPM (flashes per minute)
	Accuracy	±0.01% of reading
	Resolution	0.1 FPM: 40.0 - 4,999.9 FPM 0.2 FPM: 5,000 - 7,999.8 FPM 0.5 FPM: 8,000 - 9,999.5 FPM 1 FPM: 10,000 - 35,000 FPM
	Phase Shift	Use +/- push buttons (360° in 6 seconds)
	Display Update Time	0.2 sec approx
	Output Signal	Synchronous, 400 msec. Pulse output, 0 to +12 VDC amplitude(approx.), 4.7 KΩ impedance
	Rate Multiplier/Divider	154 mJoules per flash
External Mode	Flashing Range	0.0 - 35,000 FPM
	Accuracy	±0.01% ±1 digit
	Phase Shift	0 - 359° with 1° resolution
	Delay Time	0 - 2,000 msec from 40 - 10,000 FPM
	External Trigger Input Signal	LO level: 0 - 0.8 VDC, HI level: 2.5 - 12 VDC or open collector (NPN), pulse width 50 msec min.
	Input Impedance	4.7 KΩ at 12 V / 6.8 KΩ at 0 V
General	Display	5 digits, 0.4" (10 mm) high, LED
	Flash Tube Power/Life	Xenon, 10 W max. (100 million flashes)
	Flash Duration	10 - 40 msec
	Sensor Power Supply	12 VDC (40 mA)
	Low Battery Indicator	Display shows all L's
	Power Requirement	Internal Battery Pack
	Operating Temperature Range	32 - 104°F (0 - 40°C)
	Product Weight	2.5 lb (1.1 kg)
	Package Weight	8.5 lbs (3.86 kg) includes external battery pack
	Dimensions	7.28"L x 4.72"W x 4.72"H (185 mm x 120 mm x 120 mm)
	Warranty	1 year
	Included Accessories	AC charger/adaptor, external battery pack, flash tube removal tool, handle

Ordering Details

DT-315AEB	Heavy duty, external rechargeable battery powered stroboscope
NIST-STROBE	NIST traceable certificate for digital stroboscopes, includes data

Accessories

BP-100	Replacement external battery pack
FLASHTUBE-311-2	Replacement flash tube
CABLE-311-10FT	Input/output cable
SG-300	Rubber strobe guard



DT-315AEB
Viewing Machinery

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