

SHIMPO INSTRUMENTS

Measuring Quality

DT-315A Portable Stroboscope with Rechargeable Battery

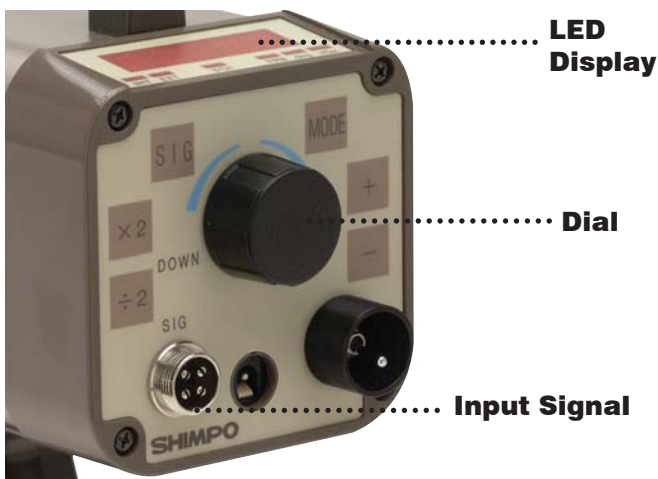
DT-315A Heavy Duty, Portable Stroboscope with Rechargeable Battery. The DT-315A heavy duty, battery powered stroboscope possesses the same great features of the DT-311A with the added convenience of total portability via its own internal power supply. The quick recharge battery lasts up to two hours of full continuous usage with its high intensity flash rate. The DT-315A provides power flexibility by utilizing either its rechargeable internal, batteries or AC line-power when plugged into the included AC adapter/charger unit. These features make the DT-315A ideal for quality inspection and preventive maintenance of automated motion equipment.



Features

- Internal, fast-charge rechargeable battery supply
- Aluminum construction provides exceptional durability
- High polish and focused reflector eliminates "blind" viewing areas
- External trigger allows unit to be automatically synchronized with equipment
- Continuous duty cycle eliminates need to shut down for cooling
- Phase shift allows visual analysis of rotating/reciprocating objects
- High accuracy ($\pm 0.01\%$ of reading) is ideal for QC inspection and process control
- Synchronous output enables strobe to drive other strobes
- Flash timer control conserves flash tube life
- Easy tri-pod or permanent mounting with integral mounting thread

Easy Operation Control



LED
Display

Dial

Input Signal

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-315A Specifications

Flashing Range	40.0 - 35,000 fpm (flashes per minute)
Accuracy	±0.01 % of reading
Resolution	0.1 fpm: 40.0 - 5,000 fpm / 0.2 fpm: 5,001 - 8,000 fpm / 0.5 fpm: 8,001 - 10,000 fpm / 1 fpm: 10,001 - 35,000 fpm
Phase Shift	Use +/- push buttons (360° in 6 seconds)
Display Update Time	0.2 sec approx
Output Signal	Synchronous, 400 μsec. Pulse output, 0 to +12 VDC amplitude(approx.), 4.7 KΩ impedance
Rate Multiplier/Divide	0.0 to 35,000 fpm
Flashing Range	Synchronous Mode: 60.0 ~ 3,000FPM / Delay mode:200 ~ 3,000 FPM
External Mode Accuracy	±0.01 % ±1 digit
Phase Shift	0 to 359° with 1° resolution
Delay Time	0 to 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 μsec min.
Input Impedance	4.7 KΩ to 12 V / 6.8 KΩ to 0 V
Display	5 digits, 0.4" (10 mm) high, LED
Flashtube Power/Life	Xenon, 10 W max. (100 million flashes)
Flash Duration	10 to 40 μs automatically adjusts with flash rate
Lux Rating	8" (20 cm) Distance = 4500 lx @ 1500 fpm, 3375 lx @ 6000 fpm with 4.5" (110 mm) irradiation diameter. 20" (50 cm) Distance = 1300 lx @ 1500 fpm, 930 lx @ 6000 fpm with 10" (250 mm) irradiation diameter.
Sensor Power Supply	12 VDC (40 mA)
Low Battery Indicator	Display shows all L's
Battery Life	1 - 2 hours depending on flash rate
Power Requirement	Rechargeable Battery or AC Line Power with included AC adapter
Operating Temperature	32 - 104°F (0 - 40°C)
Product Weight	4.4 lbs (2 kg)
Package Weight	5.5 lbs (2.49 kg)
Dimensions	9.84" L x 4.72" W x 4.72" H (250 mm x 120 mm x 120 mm)
Warranty	2-Year
Included Accessories	AC charger/adapter, flash tube removal tool, handle



**DT-315A
Viewing
Labeling
Machine**

DISTRIBUTED BY:

Ordering Details

DT-315A	Heavy duty, rechargeable battery powered stroboscope
DT-315A-230V	Same as DT-315A except with 230V power
NIST-STROBE	NIST traceable certificate for digital stroboscopes, includes data

Accessories

BAT-DT315A/P-ASSY	Internal, rechargeable battery assembly for DT-315A
DT-315CHARGER	AC adapter/charger for DT-315A
CARRYING-CASE	Carrying Case for DT-315A
FLASHTUBE-311-2	Replacement flash tube for DT-315A
CABLE-311-10FT	Input/output cable for DT-315A
SAS-DT300	Permanent mount swing arm
SG-300	Rubber strobe guard for DT-315A
LS-S50MLR-DT311	Laser sensor with NPN/PNP (NO,NC) outputs, 1.5 kHz frequency, LED indication, DT-315A Connector Cable, NEMA 6 (IP67) rating