

# SHIMPO Handheld Stroboscopes

## DT-315A Rechargeable Stroboscope

The DT-315A heavy duty, rechargeable 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 at its high intensity flash rate. The DT-315A provides power flexibility by utilizing either its rechargeable internal battery 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-charging rechargeable battery supply
- Aluminum construction provides exceptional durability
- Highly polished 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 tripod or permanent mounting with 1/4-20 UNC x 5/16 in. deep integral mounting thread
- 2-year warranty

\* Requires additional cables and / or accessories not available from AutomationDirect. Contact Shimpo Instruments at (800) 237-7079 or [www.shimpoinst.com/contact-us](http://www.shimpoinst.com/contact-us)



DT-315A

DT-315A Rechargeable Stroboscope		
Part Number	Description	Price
DT-315A	Heavy-duty digital stroboscope, battery powered with 120VAC charger, 5-digit LED display	

### Accessories

DT-315A Series Accessories		
Part Number	Description	Price
DT-CARRYING-CASE	Carrying case for DT-311A or DT-315A stroboscopes	
FLASHTUBE311-2	Replacement flashtube for DT-311A or DT-315A stroboscopes	
DT-SG-300	Rubber strobe guard for DT-311A or DT-315A stroboscopes	
BAT-DT315A-P	Replacement internal battery for DT-315A stroboscope	
DT-315CHARGER	Replacement AC adapter / charger for DT-315A stroboscope, 100-240 VAC	

DT-315A Specifications	
Flashing Range	40 - 35,000 FPM (flashes per minute)
Accuracy	$\pm 0.01\%$ 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
Display Update Time	0.2 seconds approximate
Output Signal	Synchronous, 400 $\mu$ sec Pulse output, 0 to +12 VDC amplitude (approx.), 4.7 K $\Omega$ impedance
Rate Multiplier / Divider	Multiply by 2, Divide by 2
External Mode Accuracy	$\pm 0.01\% \pm 1$ 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 $\mu$ sec min.
Input Impedance	4.7 K $\Omega$ to 12 V / 6.8 K $\Omega$ to 0 V
Display	5 digit, 0.4 in. (10 mm) high, LED
Flashtube Power/Life	Xenon, 10 W max. (100 million flashes)
Flash Duration	10 - 40 $\mu$ sec
Sensor Power Supply	12 VDC (40 mA)
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)
Weight	4.4 lbs (2 kg)
Dimensions	9.84 in. L x 4.72 in. W x 4.72 in. H (250 mm x 120 mm x 120 mm)
Agency Approvals	CE
Construction	Aluminum



DT-CARRYING-CASE

DT-315CHARGER