

The DT-311A stroboscope provides the illusion of “stopped motion”: by adjusting the strobe’s flash rate, equipment appear to be standing still or in slow motion. The DT-311A also measure rotational (RPM) or reciprocating (strokes per minute) speeds with the same precision as an electronic digital tachometer.



A **Nidec** Group Company
SHIMPO

Manufacture: Shimpo

SKU: DT-311A

Weight: 4.00 lb

Free Ground Shipping within the
 48 continental US States

Please Call
(800)832-0055

Features

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FEATURES

- 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

Specifications

Model	DT-311A	DT-311A-230V
Power Requirement	115 VAC ±10 % 60/50 Hz	220 VAC ±10 % 60/50 Hz
Battery Life	1 – 2 hours depending on flash rate	
Flash Rate Range	40.0 – 35,000 fpm (flashes per minute)	
Accuracy	±0.01 % of reading 0.1 fpm: 40.0 – 5,000 fpm	
Resolution	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 KO impedance	
Rate Multiplier/Divider	Multiply by 2, divide by 2	
Flashing Range	0.0 to 35,000 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 KO to 12 V / 6.8 KO 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 8" (20 cm) Distance = 4500 lx @ 1500 fpm, 3375 lx @ 6000 fpm with 4.5" (110 mm) irradiation diameter.	
Lux Rating	20" (50 cm) Distance = 1300 lx @ 1500 fpm, 930 lx @ 6000 fpm with 10" (250 mm) irradiation diameter.	
Operating Temperature	32° – 104°F (0 – 40°C)	
Dimensions	7.28" L x 4.72" W x 4.72" H (185 mm x 120 mm x 120 mm)	
Product Weight	3.35 lbs (1.52 kg)	

Package Weight	4.4 lbs (2 kg)
Warranty	2-year
Certification	CE
Included Accessories	Handle, flash tube removal tool

i81u812

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