SHIMPO INSTRUMENTS

Measuring Quality

DT-311J Stroboscope

DT-311J NEMA 4X Stroboscope for Harsh Wet Work Areas

Where powerful illumination and rugged speed measuring accuracy is required for the textile industry, the DT-311J will perform where other stroboscopes will not. The DT-311J is used to set injection timing, injection pressure, timing of shedding and weft running time of weaving machinery. Units combine rugged NEMA 4X (IP65) housing with high performance accuracy, special phase shifting, with shock absorbing components and top mounted handle, allows the equipment operator maximum flexibility when setting the timing of weaving machinery.

Easy Operation Control

Rotary Setter
Flash rate adjustment

Power Switch

Signal Input & Power Connection

LED Operation

MODE	**Internal Signal "MODE" (Flash)** or External Trigger Control Allows manual control and display of flash rate per minute (FPM), deg (flash delay angle in degrees), or automatically synchronizes to an external input signal
LAMP	**Flash Lamp On/Off Switch**
DIV	**Angle division "DIV"** Permits special flash interval ratio settings: 1/1, 1/2, 1/3, 1/4, and 2/4 flashes per rotation
ZERO	**"ZERO" Setting Control** Easy, single touch re-zeroing at any angle
SHIFT	**Phase "SHIFT"** Single touch - changes flash timing, 0-359 degrees

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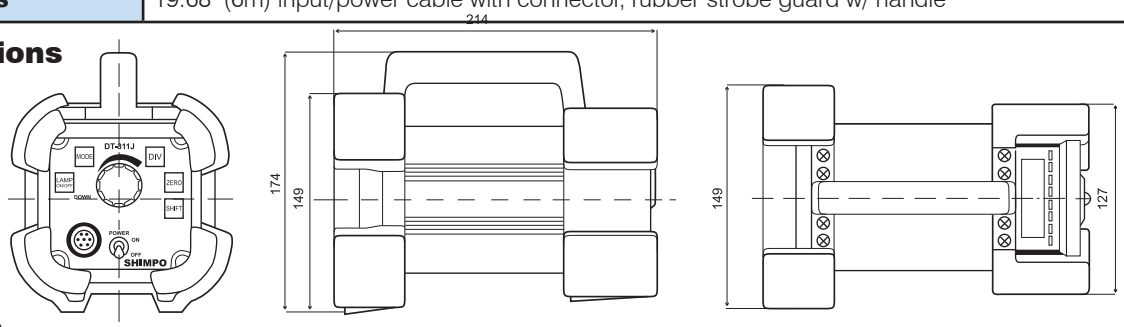
DT-311J Specifications

Phase Shift	0 – 359° / 1° increments
Flash Rate/Phase Angle Setter	Rotary dial
Display	4 digit 0.39 in (10 mm) high red LED
Divide Ratio	1/1, ½, 1/3, ¼, 2/4 with shift
Input Signal	High level: 5-24 V pulse; Low Level: 0-1 V pulse. 2 msec minimum. Impedance less than 10k Ω
Input Impedance	47k
Display Mode	Phase shift (degree), Tachometer
Accuracy	±1 digit
Internal Signal Range	200-1500 FPM
Flash Range	200-1500 FPM
FlashTube	Xenon lamp Max: 10w at 1,500 rpm. Life: 1,200 hours at 1,500 rpm
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.
Power Requirement	115VAC±5% 50/60Hz
Power Consumption	20VA max
Operating Temperature	32 to 104°F (0 to 40°C)
Product Weight	4.2 lbs (1.9 kg)
Package Weight	6.2 lbs (2.81 kg)
Warranty	2-Year
Included Accessories	19.68' (6m) input/power cable with connector, rubber strobe guard w/ handle

DT-311J Dimensions



Ordering Details

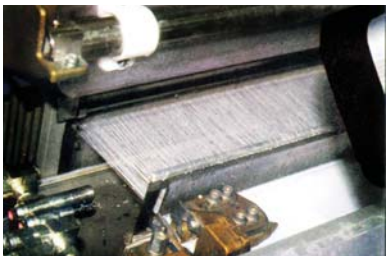
DT-311J	Harsh Environment NEMA 4X (IP65) Stroboscope with Included power 19.68' (6m) cable, rubber strobe guard with handle.
DT-311J-230V	Same as 311J but with 230 VAC power
NIST-STROBE	NIST traceable certificate with data

Accessories

FLASHTUBE311-J	Replacement flash tube for DT-311J
DT-300-SYNC-CABLE	Daisy Chain Cable for DT-311J

DISTRIBUTED BY:

Application: Inspection and timing of shedding and weft running time



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