

# 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.

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### Easy Operation Control



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"

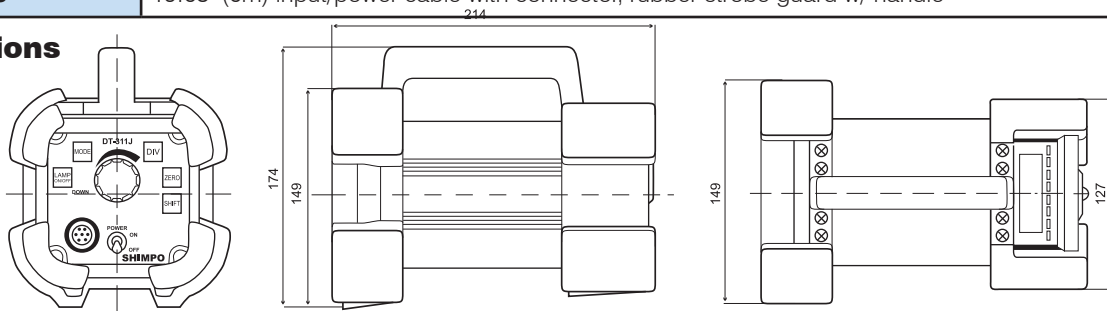
Single touch - changes flash timing, 0-359 degrees

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## DT-311J Specifications

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

## DT-311J Dimensions



## Ordering Details

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

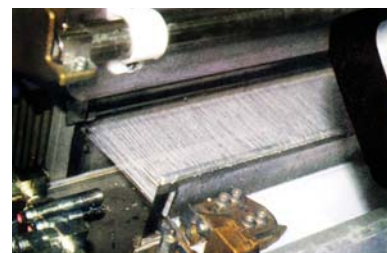
## Accessories

<b>FLASHTUBE311-J</b>	Replacement flash tube for DT-311J
<b>DT-300-SYNC-CABLE</b>	Daisy Chain Cable for DT-311J

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**Application:**  
 Inspection  
 and timing  
 of shedding  
 and weft  
 running time



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