

# SHIMPO INSTRUMENTS

**The DT-361 High-Intensity LED Stroboscope is a velocity analyzing and measuring device that is ideal for machinery process inspection.** The DT-361 Stroboscope is capable of flashing its LED lights in a synchro-

of viewing slowed or frozen images. Utilizing this phenomenon of slowing or stopping the motion with the adjusted flash rate of its LED lights, machine parts and processes may be inspected for defects, aiding in preventative maintenance programs. The DT-361's LED technology extends operation due to the low energy requirement of the light diodes compared with xenon stroboscopes. Maintenance time and down time is reduced since there is no need to replace the bulb typical of xenon lit stroboscopes. The light output (Lux) of the LED array is far brighter than not only xenon powered stroboscopes, but all comparable LED stroboscopes on the market.

The DT-361 has a vibrant red LED display that is ideal for viewing in dark locations. The simple to use keypad plus rate adjustment dial aids in making quick changes of the flash rate to coincide with changes in the speed of your process. The dial allows fine-tune altering of the flash rate while the x2/÷2 keys enable large spanning over the entire flash range.

The DT-361 has the added feature of modifying the flash duration or on time which aids in picture clarity often necessary in printing processes. The phase shift function is ideal for rotating equipment where the user needs to change the focus on different blades, gears, or section of the machinery. The DT-361 is also capable of being synchronized with an input signal. To complete the system, the DT-361 has a power output to supply an input sensor if desired. The robust aluminum housing is NEMA4X (IP65) protected allowing usage in many harsh plant environments.

Typical applications for using the DT-361 is to determine speeds, inspect rotors, meshing gears, vibration diagnostic equipment, textile equipment, printing production lines, industrial fan inspection and many more.

## Easy Operation Control



LED Display

Dial

Input Signal

## Measuring Quality

### DT-361 High Intensity LED Stroboscope AC Power



## Features

- Extraordinary durability with extruded aluminum, NEMA 4X (IP65) construction.
- Bright LED display and simple controls aid in user operation.
- Phase shift (in degrees of delay time) enables visual analysis of rotating or reciprocating objects through all points of motion/time/angle
- Flash controller dial permits accurate adjustments to the flash rate
- LED technology greatly extends operation life and eliminates need to replace burned out bulbs.
- Capable of being synchronized with input signal from sensor or controller.

MEM

SIG

MODE

X2/÷2

+/-

UNIT

## DT-361 Specifications

<b>Range FPM (RPM)</b>	60-120,000 ; From Input Signal 40-35,000
<b>Accuracy</b>	±0.02% of reading
<b>Lux Rating</b>	@ 6000 FPM & 3.6° (100us): 8" (20 cm) Distance= 3047 Lux with 4.7"(120mm) irradiation diameter 20"(50 cm) Distance = 2444 Lux with 9" (230mm) irradiation diameter
<b>Lamp Lifetime</b>	Typ. 50,000 hours. Varies depending on usage.
<b>Display</b>	6 digit Red LED
<b>Resolution</b>	Internal Mode 1 FPM. External Mode 0.1 FPM
<b>Flash Duration</b>	0.1 to 3.6° (0.14 μsec to 400 μsec)
<b>Phase Shift</b>	0 to 999 msec; 0 to 359°
<b>Power Requirement</b>	100 to 230 VAC
<b>Synchronization Input Signal</b>	H level: 2.5 - 12V; L level: 0 - 0.4V
<b>Input Signal Range FPM (RPM)</b>	40 - 35,000
<b>Input Signal Flash Delay FPM (RPM)</b>	60-10,000
<b>Power Supply Output</b>	DC12V 40mA for sensor input
<b>Temperature Limits</b>	32 to 104°F (0 to 40°C)
<b>Humidity Limits</b>	35 to 85% RH
<b>Protection Class</b>	NEMA 4X (IP65)
<b>Product Weight</b>	4 lbs (1.8 kg)
<b>Package Weight</b>	6 lbs (2.72 kg)
<b>Approvals</b>	RoHs
<b>Included Accessories</b>	Input Signal Connector, flash-light style attachable handle
<b>Warranty</b>	2 year

## Ordering Details

<b>DT-361</b>	High Intensity LED Stroboscope with AC Power
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