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AN ISO/IEC 17025:2017
ACCREDITED CALIBRATION COMPANY

DALLAS FT WORTH AUSTIN HOUSTON

NICOLSCALES.COM

800.225.8181

CONTACT US

NICOL SCALES & MEASUREMENT IS AN ISO ACCREDITED CALIBRATION COMPANY THAT HAS PROVIDED CALIBRATION, REPAIR AND SALES OF ALL TYPES OF WEIGHING AND MEASUREMENT PRODUCTS SINCE 1931.

SHIMPO INSTRUMENTS

Measuring Quality

# Series DT-362 LED Stroboscope - Univeral Power

***The DT-362 is a portable, line-powered stroboscope*** that utilizes super bright CREE High-Powered LED lamps. The DT-362's LED array provides a bright, stable strobe light over a wide measurement range with a lifetime far exceeding xenon-lit stroboscopes. Combined with a large, backlit LCD display, operation is simple with the 8 button keypad and quick rate-adjustment dial. Phase shift, flash duration, plus flash rate all are easily viewed and adjustable. The universal power range (85-240 VAC) allows one model to be utilized on various power voltages in a multitude of countries. The unit can function by user altered flash frequency or from a remote sensor's signal input which will automatically adjust the stroboscope to the corresponding process fluctuations.



The DT-362 is designed for speed and frequency measurements in motion and vibration analysis. It is ideal for predictive and preventive maintenance applications such as: motors, shafts, roto-gravure printing, extruders, blow molding, wire lettering and striping, engraving, pulse jets, water jets, fans, cams, gear teeth, belt inspections, fuel injectors, vibration analysis, spindle spinning, cutting blade timing and sharpness, plus many more in the printing, packaging, textile, automotive, cable, mining, steel, chemical, optical, medical and shipbuilding industries.

## Features

- *LED technology greatly extends operation life and eliminates need to replace burned out bulbs.*
- *Backlit LCD display aids usage while operating in dimly lit areas.*
- *Easy adjustment with flash dial combined with x2/÷2 and fine tuning +/- buttons enables precise flash setting.*
- *Universal power capability from 85-240 VAC allows one model to handle a multitude of local power requirements.*
- *Adjustable Flash Pulse duration achieves sharper images for detailed inspection.*
- *Phase shift (in degrees of delay time) enables visual analysis of rotating or reciprocating objects through all points of motion/time/angle.*
- *Flash rate may be synchronized with process speed with input from sensor or controller.*
- *1/4-20 UNC connection for permanent mount applications (remove bottom handle).*



**DT-362 in Included Carrying Case**

SEALS USA, Inc.

Instrument Division

www.shimpoinst.com support@seals-usa.com (630)278-2400

## Specifications

| | |
|---|---|
| **Flash Rate Range** | 30 to 120,000 FPM ; 1-2000 Hz |
| **Accuracy** | 0.01% ±1 digit of F.S. @ 77° F (25°C) |
| **Lux Rating (Approx.)** | 6000 FPM: Distance 8″ (20 cm) 6850 lx with 10″ (254 mm) irradiation dia., Distance 20″ (50 cm) 2325 lx with 14″ (355 mm) irradiation dia. 1500 FPM: Distance 8″ (20 cm) 3395 lx with 10″ (254 mm) irradiation dia., Distance 20″ (50 cm) 1350 lx with 14″ (355 mm) irradiation dia |
| **Lamp Lifetime** | Approximately 3~5 years depending on usage. |
| **Display** | Backlit LCD |
| **Resolution** | 60 ~12,000 FPM = 0.1 FPM; 12,001~120,000 FPM = 1 FPM; 1~200 Hz = 0.01 Hz; 201~2000 = 0.1 Hz |
| **Flash Duration** | 0.1°- 2.5° |
| **Power Requirement** | 85-240 VAC 50/60 Hz |
| **External Sensor Input** | Pulse Input; Mini-USB |
| **Sensor Power Supply** | 15 V dc up to 50 mA |
| **Input Pulse Width** | Over 50 $\mu$s |
| **Input Signal Flash Delay** | 0-999 ms; 0-359° |
| **Temperature Limits** | 32-95°F (0-35°C) |
| **Humidity Limits** | 35 to 85% RH |
| **Enclosure** | Aluminum & ABS |
| **Product Weight** | 1.8 lb (0.82 kg) |
| **Package Weight** | 5.3 lb (2.4 kg) |
| **Dimensions** | 8 x 4.3 x 7.6” (203 x 110 x 192 mm) |
| **Approvals** | CE, RoHS |
| **Warranty** | 1 Year |
| **Included Accessories** | Carrying Case, 9.8’ (3 m) power cable, Bottom and Top Handle |

## Ordering Details

| | |
|---|---|
| **DT-362** | Portable, High Intensity LED Stroboscope, Universal 85-240 VAC Power Input |

## Accessories

| | |
|---|---|
| **E2E-X5ME1-Z-USB** | Proximity Sensor with USB Connection for DT-362 Series Stroboscopes |
| **SG-735** | Rubber strobe guard for DT-362 |
| **ST320-HANDLE** | Top handle for DT-362 Stroboscope |