

### DT-311D Xenon Stroboscope - Universal Power

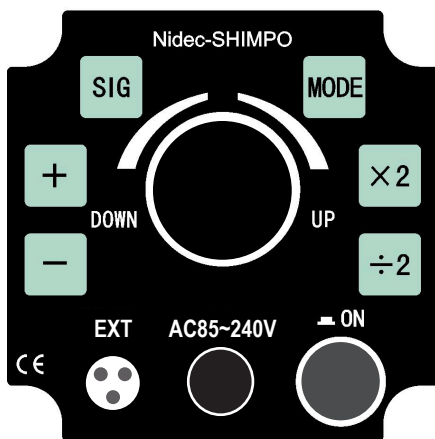
**The DT-311D is a portable, highly stable, industrial-quality stroboscope** for non-contact inspection and observation of moving parts by providing the user the illusion of stopped or slowed down equipment movement. Constructed with a rugged metal enclosure, the DT-311D's withstand harsh, industrial usage. The universal power range (85-240 VAC) allows one model to be utilized on various power voltages in a multitude of countries. The included top & bottom handles aid in portability and usage flexibility. The control adjustment settings allow the flash rate to be readily altered by the user to visually inspect rotating or reciprocating machinery such as gear teeth, rotors, shafts, rewinders, printing presses, etc. all without stopping production. External trigger mode with connected remote sensor input enables the flash rate to be synchronized to the speed of the process. These features make the DT-311D universally-powered stroboscope ideal for quality inspection and preventive maintenance of automated motion equipment.



#### Features

- Heavy-duty construction enclosure provides exceptional durability
- Highly focused reflector eliminates "blind" viewing areas
- External trigger input allows unit to be automatically synchronized with equipment
- Universal power capability from 85-240 VAC allows one model to handle a multitude of local power requirements.
- Easy tri-pod or permanent mounting with integral mounting thread

#### Easy Operation Control



**+/-**

Increase/Decrease the frequency  
(Internal trigger mode only)

**X2**

Multiplies the flash rate/frequency by a factor of 2 (Internal trigger mode only)

**÷2**

Divides the flash rate/frequency by a factor of 2 (Internal trigger mode only)

**SIG**

Signal selection. Press this key to switch between internal and external signal operation

**MODE**

Switches between Hz and FPM

## DT-311D Specifications

|                               |                                                                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flashing Range</b>         | 60-12,000 fpm (flashes per minute)                                                                                                                                                                              |
| <b>Accuracy</b>               | ±0.01% F.S.                                                                                                                                                                                                     |
| <b>Resolution</b>             | 0.1 from 60-6,000; 1 from 6,001-12,000                                                                                                                                                                          |
| <b>Display</b>                | 5 digits 0.4" (10 mm) height                                                                                                                                                                                    |
| <b>Flashtube Power/Life</b>   | Xenon ≤ 45W / 50,000,000                                                                                                                                                                                        |
| <b>Flash Duration</b>         | 10-30 $\mu$ s automatically adjusts with flash rate                                                                                                                                                             |
| <b>External Trigger Input</b> | 5 V dc ~ 12 V dc pulse signal input (high level trigger) from sensor                                                                                                                                            |
| <b>Sensor Power Supply</b>    | 12 V dc up to 50 mA                                                                                                                                                                                             |
| <b>Lux Rating</b>             | 8" (20 cm) Distance = 1550 lx @ 1500 fpm, 2350 lx @ 6000 fpm with 15.5" (400 mm) irradiation diameter.<br>20" (50 cm) Distance = 650 lx @ 1500 fpm , 580 lx @ 6000 fpm with 23.5" (600 mm) irradiation diameter |
| <b>Power Requirement</b>      | 85-240 VAC 60/50 Hz                                                                                                                                                                                             |
| <b>Operating Temperature</b>  | 32 - 104°F ( 0 - 40°C )                                                                                                                                                                                         |
| <b>Dimensions</b>             | 8.3 x 4.7 x 4.7" (210 x 120 x 120 mm)                                                                                                                                                                           |
| <b>Product Weight</b>         | 2.2 lb (1.0 kg)                                                                                                                                                                                                 |
| <b>Package Weight</b>         | 2.6 lb (1.2 kg)                                                                                                                                                                                                 |
| <b>Warranty</b>               | 1 year                                                                                                                                                                                                          |
| <b>Certification</b>          | CE, RoHS                                                                                                                                                                                                        |
| <b>Included Accessories</b>   | Top & bottom handles, 9.8'(3 m) power cable, 3 pin female M16 threaded connector                                                                                                                                |

## Ordering Details

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| <b>DT-311D</b>     | Heavy duty, universally powered (85-240 VAC) xenon stroboscope     |
| <b>DT-311D-EU</b>  | Same as DT-311D with EU power plug                                 |
| <b>NIST-STROBE</b> | NIST traceable certificate for digital stroboscopes, includes data |

## Accessories

|                       |                                   |
|-----------------------|-----------------------------------|
| <b>735-EXTSIG-CBL</b> | 3 Pin External Signal Input Cable |
| <b>FLASHTUBE735</b>   | Replacement flashtube             |
| <b>735-HANDLE-TOP</b> | Replacement top handle            |