

### DT-735 Portable, Stroboscope with Rechargeable Battery

**The DT-735 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.

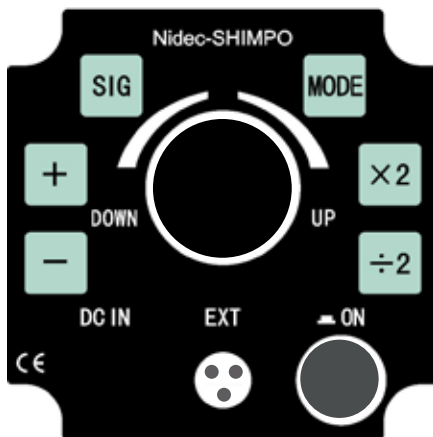
Constructed with a rugged, metal enclosure, the DT-735's withstand harsh industrial usage. The internal rechargeable battery and included top and bottom handles aid in portability and usage flexibility. The control adjustment settings allow the flash rate to be readily altered by the user to visually inspect rotating or reciprocating machinery such as gear teeth, rotors, shafts, rewinders, printing presses, etc. all without stopping production. These features make the DT-735 ideal for quality inspection and preventive maintenance of automated motion equipment.



#### Features

- *Bright LED Display aids viewing in poorly lit areas.*
- *Light Weight, compact design.*
- *Easy adjustment with flash dial combined with x2/divide 2 and fine tuning +/- buttons enables precise flash setting.*
- *Internal, fast-charge rechargeable battery supply.*
- *Includes top and bottom handle to allow user operation preference.*

#### Easy Operation Control



**+/-**

Increase/Decrease the flash rate in FPM or Hz

**X2**

Doubles the flashing rate

**1/2**

Decreases by half the flashing rate

**SIG**

Switches between internal control panel operation and external sensor input

**MODE**

Switches between flashes per minute (FPM) and Hertz (Hz)

## 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 ≤ 45 W / 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 Vdc pulse signal input (high level trigger) from sensor                                                                                                                                            |
| <b>Sensor Power Supply</b>    | 12 V dc up to 50 mA                                                                                                                                                                                            |
| <b>Input Pulse Width</b>      | Over 50 $\mu$ sec                                                                                                                                                                                              |
| <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>Battery</b>                | Ni-MH                                                                                                                                                                                                          |
| <b>Battery Life</b>           | 1.5 to 2 hours depending on settings                                                                                                                                                                           |
| <b>Time to Charge Battery</b> | 5 hours to full charge                                                                                                                                                                                         |
| <b>Power Requirement</b>      | 100-240 VAC 50/60 Hz                                                                                                                                                                                           |
| <b>Operating Temperature</b>  | 32 - 104°F ( 0 - 40°C )                                                                                                                                                                                        |
| <b>Dimensions</b>             | 9.8 x 4.7 x 4.7" (250 x 120 x 120 mm)                                                                                                                                                                          |
| <b>Product Weight</b>         | 2.75 lb (1.25 kg)                                                                                                                                                                                              |
| <b>Package Weight</b>         | 4.1 lbs (1.86 kg)                                                                                                                                                                                              |
| <b>Warranty</b>               | 1 year                                                                                                                                                                                                         |
| <b>Certification</b>          | CE, RoHS                                                                                                                                                                                                       |
| <b>Included Accessories</b>   | Upper and Lower Handle, AC charger with cable, 3 pin female M16 threaded connector                                                                                                                             |

## Ordering Details

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| <b>DT-735</b>      | Portable, Light Weight Stroboscope with Rechargeable Battery       |
| <b>DT-735-KIT</b>  | Same as DT-735, spare flash tube, protective carrying case         |
| <b>NIST-STROBE</b> | NIST traceable certificate for digital stroboscopes, includes data |

## Accessories

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| <b>CARRY-CASE735</b>  | Protective carrying case for DT-735                     |
| <b>DT-CHRG-735</b>    | Universal Power Charger/Adapter. 100-240 VAC, 50/60 Hz. |
| <b>DT-CBL-2-EU</b>    | Power cable with EU plug connection                     |
| <b>FLASHTUBE735</b>   | Replacement flashtube for DT-735                        |
| <b>BAT-735</b>        | Replacement Battery for DT-735                          |
| <b>735-EXTSIG-CBL</b> | 3 Pin External Signal Input Cable for DT-735            |
| <b>SG-735</b>         | Rubber Strobe Guard for DT-735                          |

DT-735-KIT with  
Protective Carrying Case

