

### DT-3015N Portable Stroboscope with Rechargeable Battery

**DT-3015N Heavy Duty, Portable Stroboscope with Rechargeable Battery.** The DT-3015N heavy duty, battery powered stroboscope possesses the same great features of the DT-3011N with the added convenience of total portability via its own internal power supply. The quick recharge battery lasts up to three hours of full continuous usage with its high intensity flash rate. The DT-3015N provides power flexibility by utilizing either its rechargeable internal, batteries or AC line-power when plugged into the included AC adapter/charger unit. These features make the DT-3015N ideal for quality inspection and preventive maintenance of automated motion equipment.



#### Features

- Internal, fast-charge rechargeable battery supply
- Aluminum construction provides exceptional durability
- High polish and focused reflector eliminates "blind" viewing areas
- External trigger allows unit to be automatically synchronized with equipment
- Light emission auto-off feature from 1 - 120 min enables extended battery operation
- Phase shift, set in degrees or ms, allows visual analysis of rotating/reciprocating objects
- Save up to 5 user configurations to enable switching quickly between machinery
- Synchronous output enables strobe to drive other strobes
- Easy tri-pod or permanent mounting with integral mounting thread

#### Easy Operation Control



**POWER** Turns power ON/OFF

**DIAL** (Lamp Power) Turn clockwise or counterclockwise to change the emission frequency and some setting values. Press and hold the center to turn the lamp ON/OFF.

**MODE** Press this to switch the LED display as follows: Flashes Per Minute mode (FPM mode) > Phase Shift mode (PHA mode DEG = delay angle) > Phase Shift mode (PHA mode ms = delay time)

**LOAD** Press to load the saved settings. Also Press and hold to save the current display and mode settings.

**SIG** Select Internal or External parameter modes. Internal flash emission changes with DIAL; External flash rate is synchronized with external sensor signal

**UNIT** Each press switches the delay type as follows: delay angle (DEG) > delay time (ms)

**x2** Press in INT to double the current set emission count (frequency).

**÷2** Press in INT to halve the current set emission count (frequency).

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## DT-3015N Specifications

|                             |                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flashing Range</b>       | 40.0 - 35,000 fpm (flashes per minute)                                                                                                                                                                     |
| <b>Accuracy</b>             | ±0.05 % of reading                                                                                                                                                                                         |
| <b>Resolution</b>           | 30.0 to 5000.0 : 0.1 fpm; 5001.0 to 8000.0 to 0.2 fpm; 8001.0 to 10000.0 : 0.5 fpm; 10001.0 to 35000.0 : 1.0 fpm                                                                                           |
| <b>Lux Rating</b>           | 8" (20 cm) Distance = 1950 lx @ 1500 fpm, 2000 lx @ 6000 fpm with 8" (203 mm) irradiation diameter.<br>20" (50 cm) Distance = 725 lx @ 1500 fpm, 850 lx @ 6000 fpm with 12" (305 mm) irradiation diameter. |
| <b>Lamp Lifetime</b>        | Typ. 1200 hours at 1500 fpm                                                                                                                                                                                |
| <b>Display</b>              | 6-digit, 7 segment red LED                                                                                                                                                                                 |
| <b>Flash Duration</b>       | 30 $\mu$ sec                                                                                                                                                                                               |
| <b>Phase Shift</b>          | 0 to 359° set by 0.1° resolution; 0.00 to 999.99 msec set by 0.01 msec resolution, 1000.0 to 1994.4 msec set by 0.1 msec resolution                                                                        |
| <b>Power Requirement</b>    | 100 to 240 VAC 50/60Hz                                                                                                                                                                                     |
| <b>Battery</b>              | NiMH battery- Approximate 2 hour time to full charge                                                                                                                                                       |
| <b>Battery Life</b>         | Approx. 3 hours (when the emission count is 1500 FPM)                                                                                                                                                      |
| <b>Input Signal</b>         | H level: 2.5 – 12 V; L level: 0 – 0.5 V Pulse width : 50 $\mu$ s or more<br>Input impedance : 10 k $\Omega$ or more                                                                                        |
| <b>Input Signal Range</b>   | 27 to 35,020 fpm (1 fpm resolution) with available delay setting in degree or msec                                                                                                                         |
| <b>Sensor Power Supply</b>  | DC 12 VDC 40 mA                                                                                                                                                                                            |
| <b>Temperature Limits</b>   | 32 to 104°F (0 to 40°C)                                                                                                                                                                                    |
| <b>Humidity Limits</b>      | 35 to 85% RH (Non- condensing)                                                                                                                                                                             |
| <b>Product Weight</b>       | 4.2 lbs (1.9 kg)                                                                                                                                                                                           |
| <b>Package Weight</b>       | 7.35 lbs (3.3 kg)                                                                                                                                                                                          |
| <b>Approvals</b>            | RoHS                                                                                                                                                                                                       |
| <b>Warranty</b>             | 1-Year                                                                                                                                                                                                     |
| <b>Included Accessories</b> | Input Signal Connector, Charger Adapter with cable.                                                                                                                                                        |

## Ordering Details

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| <b>DT-3015N</b>    | Heavy duty, rechargeable battery powered stroboscope               |
| <b>DT-3015N-EU</b> | Same as DT-3015N except with 230V power                            |
| <b>NIST-STROBE</b> | NIST traceable certificate for digital stroboscopes, includes data |

## Accessories

|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| <b>SG-300</b>         | Rubber strobe guard for DT-315A                                              |
| <b>CABLE-361-10FT</b> | Daisy chain syncing connection cable for DT-3015N stroboscopes, 10 ft length |

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