

### DT-725 Portable, Light Weight Stroboscope with Rechargeable Battery

**The DT-725 portable, light weight stroboscope with rechargeable battery** possess many of the same features as the famous DT-300 Series Stroboscopes, but are lighter in weight. Constructed of strengthened high impact plastic, these rugged units are exceptionally reliable and withstand the same harsh conditions as more expensive units. Employing its unique phase shifting feature, the DT-725 "freezes" rotating or reciprocating machinery for visual inspection of covered gear teeth, shafts, oil/fuel/ink injector patterns, and print media; all without stopping production.

These features make the DT-725 ideal for quality inspection and preventive maintenance of automated motion equipment. Units can be ordered separately or as a convenient kit.



#### Features

- Bright LED Display Aids viewing in poorly lit areas
- Light Weight Design
- External trigger allows unit to be automatically synchronized with equipment
- Continuous duty cycle eliminates need to shut down for cooling
- Phase shift allows visual analysis of rotating/reciprocating objects
- Easy adjust flash rate controller dial
- Synchronous output enables strobe to drive other strobes
- Easy tri-pod or permanent mounting with integral mounting thread
- Internal, fast-charge rechargeable battery supply

#### Easy Operation Control



LED  
Display

Flash Rate  
Adjustment  
Dial

PHASE  
+/-

Advance or Retard viewed motion in degrees or milliseconds

X2

Doubles the flashing rate

1/2

Decreases by half the flashing rate

## DT-725 Specifications

|                                      |   |
|--------------------------------------|---|
| <b>Flashing Range</b>                | 40.0 - 12,500 fpm (flashes per minute)  |
| <b>Accuracy</b>                      | ±0.02 % of reading  |
| <b>Resolution</b>                    | 0.1 fpm: 40.0 - 4,999.9 fpm / 0.2 fpm: 5,000 - 7,999.9 fpm /<br>0.5 fpm: 8,000.0 - 9,999.5 fpm / 1 fpm: 10,000 - 12,5000 fpm  |
| <b>Phase Shift</b>                   | Use +/- push buttons (360° in 6 seconds)  |
| <b>Display Update Time</b>           | Ext. mode : varies with flashing rate   |
| <b>Output Signal</b>                 | NPN open collector (24 VDC max., 50 mA), 150 $\mu$ sec typical  |
| <b>Rate Multiplier/Divider</b>       | Multiply by 2, divide by 2  |
| <b>External Trigger Input Signal</b> | a) 12 - 24 VDC thru a 3-wire NPN output sensor (requires external power<br>b) 12 VDC thru a 2-wire proximity sensor (leakage current 1 mA max.,<br>load current 8 mA min.)<br>c) Switch or relay contact      |
| <b>Display</b>                       | 5 digits, 0.3" (8 mm) high, LED   |
| <b>Flashtube Power/Life</b>          | Xenon, 10 W max. (100 million flashes)  |
| <b>Flash Duration</b>                | 10 to 15 $\mu$ s automatically adjusts with flash rate  |
| <b>Lux Rating</b>                    | 8" (20 cm) Distance = 5500 lx @ 1500 fpm, 8400 lx @ 6000 fpm with 4.5" (110 mm) irradiation diameter.<br>20" (50 cm) Distance = 1650 lx @ 1500 fpm, 2200 lx @ 6000 fpm with 7" (178 mm) irradiation diameter. |
| <b>Low Battery Indicator</b>         | Flashing LED  |
| <b>Battery Life</b>                  | 1 - 2 hours depending on flash rate   |
| <b>Power Requirement</b>             | 115 VAC or 220 VAC $\pm$ 10 % 60/50 Hz / Internal battery pack  |
| <b>Operating Temperature</b>         | 32 - 104°F ( 0 - 40°C )   |
| <b>Product Weight</b>                | 2.75 lbs (1.25 kg)  |
| <b>Package Weight</b>                | 4.45 lbs (2.02 kg)  |
| <b>Dimensions</b>                    | 7.28" L x 4.72" W x 4.72" H (185 mm x 120 mm x 120 mm)  |
| <b>Warranty</b>                      | 2-Year  |
| <b>Included Accessories</b>          | AC adapter  |

## Ordering Details

|                       |   |
|-----------------------|---|
| <b>DT-725</b>         | Portable, Light Weight Stroboscope with Rechargeable Battery                          |
| <b>DT-725-230V</b>    | Same as DT-725 with 230 VAC power   |
| <b>DT-725KIT</b>      | Same as DT-725 with added battery charger, spare flash tube, protective carrying case |
| <b>DT-725KIT-230V</b> | Same as DT-725KIT with 230VAC power   |
| <b>NIST-STROBE</b>    | NIST traceable certificate for digital stroboscopes, includes data                    |

## Accessories

|                      |   |
|----------------------|---|
| <b>CARRY-CASE721</b> | Protective carrying case for DT-725       |
| <b>DT-12V120</b>     | Charger/Adapter for DT-725, 120 VAC power |
| <b>DT-12V230</b>     | Charger/Adapter for DT-725, 230 VAC power |
| <b>FLASHTUBE721</b>  | Replacement flashtube for DT-725          |
| <b>SAS-DT300</b>     | Flexible swing arm                        |

DISTRIBUTED BY:



**DT-725KIT Includes Protective Carrying case, spare flash tube and Battery Charger**