Nidec

Measuring Quality

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



PHASE +/-	Advance or Retard viewed motion in degrees or milliseconds
X2	Doubles the flashing rate
1/2	Decreases by half the flashing rate

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DT-725 Specifications

Flashing Range	40.0 - 12,500 fpm (flashes per minute)
Accuracy	±0.02 % of reading
Resolution	0.1 fpm: 40.0 - 4,999.9 fpm / 0.2 fpm: 5,000 - 7,999.9 fpm / 0.5 fpm: 8,000.0 - 9,999.5 fpm / 1 fpm: 10,000 - 12,5000 fpm
Phase Shift	Use +/- push buttons (360° in 6 seconds)
Display Update Time	Ext. mode : varies with flashing rate
Output Signal	NPN open collector (24 VDC max., 50 mA), 150 μsec typical
Rate Multiplier/Divider	Multiply by 2, divide by 2
External Trigger Input Signal	a) 12 - 24 VDC thru a 3-wire NPN output sensor (requires external power b) 12 VDC thru a 2-wire proximity sensor (leakage current 1 mA max., load current 8 mA min.) c) Switch or relay contact
Display	5 digits, 0.3" (8 mm) high, LED
Flashtube Power/Life	Xenon, 10 W max. (100 million flashes)
Flash Duration	10 to 15 μs automatically adjusts with flash rate
Lux Rating	8" (20 cm) Distance = 5500 lx @ 1500 fpm, 8400 lx @ 6000 fpm with 4.5" (110 mm) irradiation diameter. 20" (50 cm) Distance = 1650 lx @ 1500 fpm, 2200 lx @ 6000 fpm with 7" (178 mm) irradiation diameter.
Low Battery Indicator	Flashing LED
Battery Life	1 - 2 hours depending on flash rate
Power Requirement	100 to 240 VAC; 50/60 Hz
Operating Temperature	32 - 104°F (0 - 40°C)
Product Weight	2.75 lbs (1.25 kg)
Package Weight	4.45 lbs (2.02 kg)
Dimensions	7.28" L x 4.72" W x 4.72" H (185 mm x 120 mm x 120 mm)
Warranty	2-Year
Included Accessories	Power Adapter; Kit models: Power Adapter, Spare Flash Tube, Carrying Case

Ordering Details

DT-725	Portable, Light Weight Stroboscope with Re-chargeable Battery; 100-240 Vac Power Adapter
DT-725-230V	DT-725 with EU Power Adapter, 230 Vac input
DT-725KIT	DT-725 with added protective carrying case & spare flash tube
DT-725KIT-230V	DT-725KIT with EU Power Adapter, 230 Vac input
NIST-STROBE	NIST traceable certificate for digital stroboscopes, includes data

Accessories

CARRY-CASE721	Protective carrying case for DT-725
DT-725UNPS	Universal Power Charger/Adapter. 100-240 Vac, 50/60 Hz.
DT-12V230	Power Charger/Adapter, 230 Vac with EU plug connection
FLASHTUBE721	Replacement flashtube for DT-725
SAS-DT300	Flexible swing arm



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

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