SHIMPO INSTRUMENTS

Measuring Quality

Series DT-900 TechStrobe

DT-900 TechStrobe: Handheld Stroboscope with Rechargeable Battery

The TechStrobe from Shimpo Instruments is the perfect tool for slow motion or stop action stroboscopic inspection. The Shimpo TechStrobe is the only palm size unit to include a phase shift feature. Phase shifting allows the TechStrobe operator to advance or retard the flash timing by degrees of angle, without changing the actual flash rate (FPM) of the TechStrobe. Employing its unique phase shifting feature, the TechStrobe "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. The TechStrobe is completely portable and operates up to 2.5 hours at 1600 FPM from its detachable, rechargeable battery. The ergonomically designed battery serves as the padded grip area. The battery is quickly detached and recharged while another battery is snapped into place. Designed for right or left hand operation, all TechStrobe functions are intuitive and easy to use. Quality and maintenance professionals will appreciate the rotary and push button controls for internal flash (FPM/RPM) control, external triggering, tachometer mode and phase shift control. The push buttons rapidly increase (x 2), or decrease (÷2) the flashes per minute (FPM) and change by degrees the flash phase. Compact, impact resistant and rugged, with that balanced feeling for one-handed operation, the TechStrobe will quickly become one of the quality and maintenance professionals' favorite tools.

Features

- *Brightest Flash of any strobe in its class*
- *Removable battery with long run time per charge*
- *Easy Adjust Dial for flash rates, quick button push for x2 & ÷2 adjustment*
- *Simple LCD user interface*
- *Phase shift mode for full inspection of gears and rolls*
- *External trigger & clock output*

Optional DT-900-PR Professional Kit with Included Case

Easy Operation Control

Dial

MODE	**Select between internal or external** trigger modes and tachometer mode
PHASE	**Adjust** the angular delay or advancement in degrees
÷2	**Flash Rate** slowed by a factor of 2
PWR	**On/Off Button**
X 2	**Flash Rate** increased by a factor of 2

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DT-900 Specifications

Flash Rate Range	40-12,500 Flashes Per Minute (fpm)
Accuracy	Flash Rate: +/- 0.5 fpm or +/- 0.01% of reading, whichever is greater Tachometer: +/- 0.5 rpm or +/- 0.01% of reading, whichever is greater
Display Resolution	0.1 fpm for 100 to 9,999 fpm, 1 fpm for 10,000 to 12,500 fpm
Tachometer Range	40 - 59,000 rpm
Flash Tube	Xenon, 10W, user replaceable; Life: 100 Million Flashes
Flash Duration	9-15 usec
Light Power	154 mJoules per flash
Battery	NiMH, rechargeable, removable; Capacity: 2.6 AmpHr; Charge Time: 2-4 hours, using supplied AC adapter
Run Time Per Charge	2.5 hours at 1600 fpm, 1.25 hours at 3200 fpm
Battery Charger AC Input	115/220 VAC 50/60 Hz
Display	8 character by 2 line LCD, alphanumeric
Timebase	Crystal oscillator, 100 ppm accuracy
Controls	Power, multiply by 2, divide by 2, phase shift, external trigger
External Trigger Input	0-5V TTL type via stereo phono jack
External Trigger to Flash Delay	5 usec maximum
Clock Output	0-5V TTL type signal via stereo phono jack
Housing	Impact & oil resistant polycarbonate
Product Weight	1.44 lbs (0.65 kg)
Package Weight	3.4 lbs (1.54 kg)
Dimensions	9.63" (244 mm) x 3.25" (82.6 mm) x 3.25" (82.6 mm)
Included Accessories	Rechargeable battery (BAT-900), additional flashtube (FT-900), 120 VAC charging adapter (CH-900)

Ordering Details

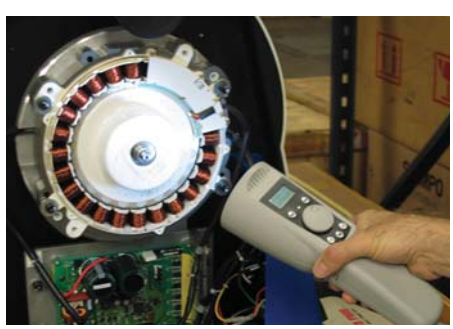
DT-900-U	Portable Stroboscope with removable, rechargeable battery, Universal charging adapter
DT-900-UT	Traveler Kit: Same as DT-900-U with additional padded belt holster and protective carrying case, spare flash tube
DT-900-UP	Professional Kit: Same as DT-900-U with additional padded belt holster, protective carrying case, spare rechargeable battery, spare flash tube
NIST-STROBE	NIST traceable certificate for digital stroboscopes, includes data

Accessories

BAT-900	Spare rechargeable battery pack for DT-900
CHU-900	Universal AC charging adapter for rechargeable batteries
FT-900	Flash tube replacement for DT-900
PBH-900	Padded belt holster for DT-900
CASE-900	Protective carrying case with padded inserts for DT-900 and accessories

DISTRIBUTED BY:

DT-900 Viewing Machinery



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