

## 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 ( $\div 2$ ) 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 &  $\div 2$  adjustment
- Simple LCD user interface
- Phase shift mode for full inspection of gears and rolls
- External trigger & clock output

### Easy Operation Control



Optional DT-900-PR  
Professional Kit with  
Included Case



Dial

MODE

**Select between internal or external** trigger modes and tachometer mode

PHASE

**Adjust** the angular delay or advancement in degrees

$\div 2$

**Flash Rate** slowed by a factor of 2

PWR

**On/Off Button**

x 2

**Flash Rate** increased by a factor of 2

## DT-900 Specifications

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

## Ordering Details

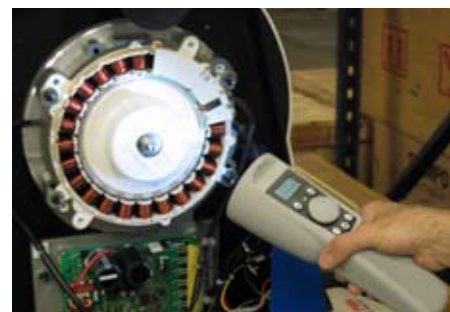
<b>DT-900</b>	Portable Stroboscope with rechargeable battery, 120 VAC charging adapter
<b>DT-900-U</b>	Same as DT-900 except with universal AC charging adapter
<b>DT-900-TR</b>	Traveler Kit: Same as DT-900 with additional padded belt holster and protective carrying case, spare flash tube
<b>DT-900-UT</b>	Universal Traveler Kit: Same as Traveler Kit with universal 120/240V charger
<b>DT-900-PR</b>	Professional Kit: Same as DT-900 with additional padded belt holster, protective carrying case, spare rechargeable battery, spare flash tube
<b>DT-900-UP</b>	Universal Professional Kit: Same as Professional Kit with universal 120/240V charger
<b>NIST-STROBE</b>	NIST traceable certificate for digital stroboscopes, includes data

## Accessories

<b>BAT-900</b>	Spare rechargeable battery pack for DT-900
<b>CH-900</b>	120 VAC charging adapter for rechargeable batteries
<b>CHU-900</b>	Universal AC charging adapter for rechargeable batteries
<b>FT-900</b>	Flash tube replacement for DT-900
<b>PBH-900</b>	Padded belt holster for DT-900
<b>CASE-900</b>	Protective carrying case with padded inserts for DT-900 and accessories

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