

# DT-700 Series

## Low-Cost Digital Stroboscopes

### Models

**DT-721 (AC-Powered)**

**DT-725 (Battery-Powered)**

- 40–12,500 RPM/FPM and higher using harmonics
- AC or battery-powered models
- Highly accurate speed control with drift-free operation
- Bright flash intensity with life of 100 million flashes
- Easy-to-use controls with bright LED display
- Instant double (2X) and half-rate ( $\div 2$ ) flash selection
- Accepts input from sensor for external flash triggering
- Phase shift adjustment permits moving objects to desired position for convenient observation
- Extremely lightweight and rugged

The CHECK•LINE® DT-721 and DT-725 Digital Stroboscopes are highly stable, industrial-quality instruments for non-contact RPM measurement as well as for inspection and observation of moving parts by “freezing” or “slowing down” the action.

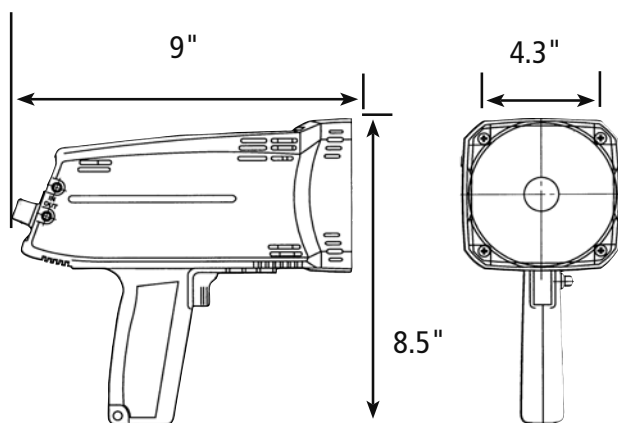
A “Kit” option is offered for both models which also includes a carrying case and spare flash tube at minimal additional cost



Optional Complete Kit

# DT-700 Series

## Dimensions

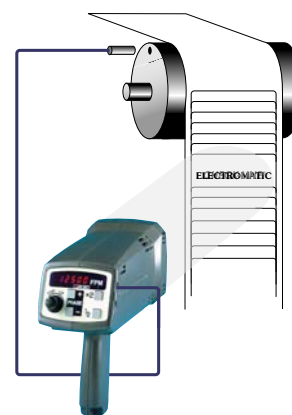


## External Trigger Options

Suitable for applications requiring external control of the flash rate using a sensor or other input device. An external power source may be required.

### External Trigger Input Signal

- 12–24 VDC thru a 3-wire NPN sensor (requires external power supply)
- 12 VDC thru a 2-wire proximity sensor (Leakage Current 1 mA max. Load current 8 mA min.)
- Switch or Relay Contact



## Specifications

<b>Models</b>	DT-721 (AC-powered version) DT-725 (Battery-powered version)
<b>Flash Range</b>	40 – 12,500 FPM
<b>Accuracy</b>	± 0.02% of reading
<b>Resolution</b>	(0.1) 40.0 – 4,999.9 (0.2) 5,000.0 – 7,999.8 (0.5) 8,000.0 – 9,999.5 (1.0) 10,000.0 – 12,500.0
<b>Display</b>	5-Digit LED, 8 mm high
<b>Flash Tube</b>	Xenon, 10 watt
<b>Tube Life</b>	100 million flashes
<b>Flash Duration</b>	10 – 15 µs
<b>Signal Output</b>	NPN Open Collector, 24 VDC max. at 50 mA (150 µs typical)
<b>Phase Shift</b>	0 – 359° (Internal Mode)
<b>Duty Cycle</b>	Continuous
<b>Battery Life</b>	1 hour (Model 725 only)
<b>Re-charging Time</b>	12 hours (4 hours with optional Fast Charger)

<b>Low Battery Indicator</b>	Model 725 only
<b>Operating Temperature</b>	32 to 105 °F (0 to 40 °C)
<b>Weight</b>	
Model 721	1.50 lbs. (680 g)
Model 725	2.75 lbs. (1.25 Kg)
<b>Power Requirements</b>	
Model 721	115 VAC ± 10%, 50/60 Hz
Model 725	Internal Battery (Lead Acid Rechargeable)

## Ordering Information

### For countries with 230 VAC

DT-721-2, DT-721-2-KIT  
 DT725-2, DT-725-KIT-2

### For countries with 115 VAC

DT-721, DT-721-KIT  
 DT725, DT-725-KIT