

## Low Cost STROBOSCOPE

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

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

**40 – 12,500 RPM/FPM**

and higher using harmonics

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*

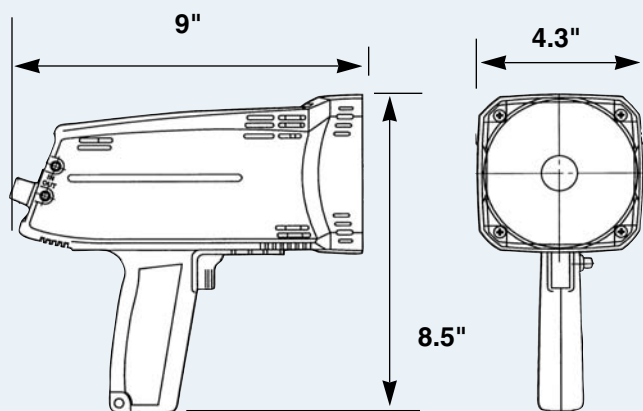


### FEATURES

- 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 movement of objects to desired position for convenient observation
- Extremely lightweight and rugged

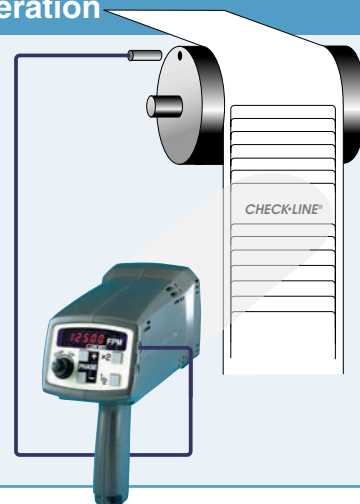
# DT-721/725

## Dimensions



## External Trigger Operation

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



## Specifications

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| <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<br>(0.2) 5,000.0 – 7,999.8<br>(0.5) 8,000.0 – 9,999.5<br>(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.<br>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)<br>Model 725 2.75 lbs. (1.25 Kg)                             |
| <b>Power Requirements</b>    | Model 721 115 VAC ± 10%, 50/60 Hz<br>Model 725 Internal Battery (Lead Acid Rechargeable) |

*Specifications subject to change without notice.*

## External Trigger Input Signal

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

## Ordering Guide

| For use in countries with 115 VAC | DT-721     | For use in countries with 230 VAC | DT-721-2     |
|-----------------------------------|------------|-----------------------------------|--------------|
|                                   | DT-725     |                                   | DT-725-2     |
|                                   | DT-721-KIT |                                   | DT-721-2-KIT |
|                                   | DT-725-KIT |                                   | DT-725-2-KIT |

**CHECK·LINE®** – PRECISION QUALITY CONTROL INSTRUMENTS