

*Digital synthesis, High intensity light, 32,000 RPM  
AC Power, Recharge battery power*

# STROBOSCOPE

Model : DT-2349

*ISO-9001, CE, IEC1010*



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**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

*Digital synthesis, high reliability, Xenon tube*


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Model : DT-2349

## FEATURES

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| * The Digital Stroboscope is used the microprocessor circuit design, high accuracy, digital readout, light duty, that is ideal for inspecting and measuring the speed of moving gears, fans, centrifuges, pumps, motors and other equipment used in general industrial maintenance, production, quality control, laboratories and as well as for schools and colleges for demonstrating strobe action. |
| * Digital synthesis circuit, high stability and high adjusting resolution, easy operation.   |
| * Crystal time base to offer high accuracy measurement & fast measuring time.  |
| * Xenon flash tube, high intensity.  |
| * Wide range : 60 to 32,000 RPM.   |
| * Adjustment resolution : 0.1 RPM ( < 1,000 RPM ), 1 RPM ( $\geq$ 1,000 RPM ).   |
| * High intensity light.  |
| * Setting buttons : Digital adjust button, x 2 button, $\div$ 2 button, + button, - button, easy operating.  |
| * Xenon flash tube with plug and socket, easy to make the tube replacement.  |
| * Compact and heavy duty housing case.   |

## GENERAL SPECIFICATION

|                    |   |
|--------------------|---|
| Display            | 5 digits ( 0 to 99999 ) LCD display.  |
| Flash adjust range | 60 to 32,000 RPM/FPM.<br>* RPM : round per minute.<br>* FPM : flash per minute.   |
| Resolution         | 0.1 RPM :<br>< 1,000 RPM.<br>1 RPM :<br>$\geq$ 1,000 RPM  |
| Function buttons   | Digital rotate knob,<br>x 2 button, $\div$ 2 button,<br>+ button, - button,   |
| Accuracy           | $\pm$ (0.05 % + 1d)<br>* Spec. tested under the environment<br>RF Field Strength less than 3 V/M &<br>frequency less than the 30 MHz only.  |
| Power Supply       | 110 Vac $\pm$ 10%, 50/60 Hz.<br>or<br>220 Vac $\pm$ 10%, 50/60 Hz.<br>or<br>230 Vac $\pm$ 10%, 50/60 Hz.<br><br> * A " Voltage rating label " is affixed under the bottom case to show the voltage rating of power supply. When use the stroboscope, make sure to identify the power supply voltage exactly. |

|                      |  |
|----------------------|--|
| Circuit              | Microcomputer LSI circuit & crystal control time base.<br>Digital synthesis circuit for the signal adjusting.  |
| Signal Stability     | The signal adjusting circuit is used the digital synthesis circuit, the output signal will existing high stability and not change.   |
| Power Supply         | AC( 100V to 240V ) to DC 9V ( 3A ) adapter, included.<br>Build in battery compartment, power can be used the optional DC 1.2 V Ni-MH recharge battery ( UM-1, D size ) x 4 PCs.  |
| Power Consumption    | DC 2.4 A ( 3600 FPM )  |
| Operating Temp.      | 0 to 50 °C ( 32 to 122 °F ).   |
| Operating Humidity   | Less than 80% R.H.   |
| Dimension            | 21 x 12 x 12 cm ( 8.3 x 4.8 x 4.8 inch ).  |
| Weight               | 1Kg/2.2 LB.  |
| Housing              | Compact and impact plastic injection case with plastic mirror type reflector.  |
| Calibration          | Crystal time base and microprocessor circuit, don't necessary take any external calibration process.   |
| Accessories Included | Operation manual.....1 PC.<br>AC( 100V to 240V ) to DC 9V adapter .....1 PC.   |
| Optional Accessory   | Flash Xenon tube....Model : TBXE-2289<br>DC 1.2 V Ni-MH recharge batteries, UM-1/D size ( BAUM-1 ) x 4 PCs.<br>DC 1.2 V Ni-MH batteries charger with AC adapter, complete set.<br>Model: BACH-110 ( AC 110V power )<br>Model: BACH-220 ( AC 230V power ) |

## FLASH TUBE SPECIFICATION

|                        |   |
|------------------------|---|
| Flash tube             | Xenon lamp.   |
| Flash Duration         | Approximately 60 to 1,000 microseconds.   |
| Flash color Temp.      | Xenon white 6,500 K degree.   |
| Flash energy           | 4 Watts-seconds (joules).   |
| Beam Angle             | 80 degrees.   |
| Flash tube replacement | It is required to change the flash tube when the instrument start to flash irregularly at speeds > 3600 RPM/FPM.  |
| Operating duty Cycle   | For prolong life and safety, please adhere to the following operation duty cycle:<br>< 2000 RPM - 2 hours<br>2001 to 3600 RPM - one hour<br>3601 to 8000 RPM - 30 minutes<br>> 8000 RPM - 10 minutes.<br>* 10 min. cooling off period between cycles. |

\* Appearance and specifications listed in this brochure are subject to change without notice.

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