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Product Name :

Xenon Stroboscope

Product Code :

SLE/PHY/322



Science Lab
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Description :

Xenon Stroboscope (Product Code: SLE/PHY/322) is a stroboscopic lamp, also called a revolution calibration meter, used to freeze fast rotating or vibrating motion and calculate itsspeed in physics labs, engineering workshops and industrial settings. Its xenon flash is triggeredfrom 0.2 to 300 Hz, internally or externally, and a 7-segment LED display shows the flashingfrequency in real time, making it a practical test and measuring instrument. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Light source	Xenon flash tube, instantaneous intense flash
Flash tube intensity	Approximately 10000 lux
Triggering frequency range	0.2–300 Hz (internal and external)
Recommended triggering frequency	0.2–180 Hz
External trigger signal	5–12V pulse signal
Frequency adjustment	Rotating encoder for rapid frequency changes
Processing and display	Microcontroller processing unit; display chip driving a 7-segment LED showing real-time flash frequency
Power supply	AC220V ± 5%, 1.2A
Power consumption	Less than 8W maximum
Dimensions (L × W × H)	215mm × 140mm × 150mm
Net weight	2 kg
Documentation	Complete operating instructions supplied
Product code	SLE/PHY/322
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Xenon Stroboscope Used For?

When the flash rate matches the speed of a rotating or vibrating object, the object is lit in the same position each time and appears to stand still; set the rate slightly off and it seems to move slowly forwards or backwards. Turning the encoder until a fan blade, motor shaft or vibrating string appears frozen lets students read the frequency from the display and work out the rotational speed of an object whose speed was unknown.

In physics lessons the stroboscope freezes ripple-tank waves, standing waves on strings and falling water drops, and the frozen motion can be photographed with a standard digital camera. Work
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