



**OCTAGON
SOLUTIONS**

Octagon Solutions

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U-Tube PORTABLE STROBOSCOPE (M-TARA)

A U-tube stroboscope is a specific type of stroboscope that uses a xenon lamp as its light source. The xenon lamp emits short, intense bursts of light, which are used to create the stroboscopic effect. When combined with the U-shaped tube design, the xenon lamp can produce precise and adjustable flashes of light at specific frequencies. This makes it particularly useful for observing and analyzing fast motion or periodic motion in a variety of scientific and industrial applications.



A U-tube stroboscope is a specialized instrument used primarily in industries such as manufacturing, printing, and motion analysis. Here are typical specifications and uses:

Key Features

- Light in weight
- 230V AC, 50Hz Supply
- High Operating Temperature
- Accurate Speed Control
- Easy to move

- Long life of Xenon lamp

Specifications

- **Light Source:** Utilizes a high-intensity xenon flash tube for bright, short-duration pulses of light.
- **Flash Rate:** Adjustable flash rates typically range from a few flashes per second to several thousand.
- **Power Supply:** Often powered by AC mains with internal power conditioning for stable operation.
- **Controls:** Includes knobs or digital controls for adjusting flash rate and intensity.
- **Housing:** Lightweight and durable enclosure with ergonomic design for ease of handling.



Uses in Industries:

Manufacturing:

- **Quality Control:** Used to inspect moving machinery parts for defects or wear.

- **Synchronization:** Helps in timing and synchronizing processes on production lines.

Printing:

- **Web Inspection:** Ensures print quality and registration on high-speed printing presses.
- **Color Registration:** Helps align multiple colors accurately during printing.

Motion Analysis:

- **Speed Measurement:** Calculates rotational speeds of machinery components.
- **Vibration Analysis:** Identifies and measures vibrations in rotating equipment.

Research and Development:

- **Experimental Analysis:** Used in scientific experiments to observe and measure periodic motion.
- **Prototyping:** Assists in fine-tuning mechanical designs and prototypes.

Automotive and Aviation:

- **Engine Analysis:** Checks timing and operation of internal combustion engines.
- **Rotor Balancing:** Helps balance and analyze propeller or rotor systems.

Why Choose Us?

- **Expertise:** Over 25 years of experience in the printing industry.
- **Innovation:** Commitment to modern technology and continuous improvement.
- **Quality Assurance:** Rigorous quality control processes to ensure product reliability.
- **Global Presence:** Serving clients worldwide with 24/7 customer support.

[Read More](#)



STROBOSCOPE

FIXED MODEL
Size 300mm, 600mm,
900mm, 1000mm, 1200mm



- Light Source: High-intensity LED
- Flash Rate: 60-120,000 flashes per minute (FPM)
- Accuracy: $\pm 0.01\%$
- Power Supply: Rechargeable battery Up to 8 hours
- Weight: 500 grams
- Dimensions: 200mm x 100mm x 50mm
- Applications: Industrial inspection, motion analysis, quality control



- Light Source: U-Tube / Xenon Flash Rate: 60-120,000 flashes per minute (FPM)
- Power: 230V AC 50hz Supply
- Accuracy: $\pm 0.01\%$
- Weight: 500 grams
- Easy to Move
- Light in weight
- Applications: Industrial inspection, motion analysis, quality control



Flash Range: 150-6000 flash/min
Accuracy (+/-) 1%..
Flash Duration: 5 to 10 micro sec
Flash Tube hard Glass Xenon Long Life
Power Supply 230 V AC, 50hz



For more information or to place an order, contact us at:

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Feel free to adjust the specifications and features according to the actual product details provided by your manufacturing team.