

## DT-366 Battery Powered LED Stroboscope - Data Sheet

**The DT-366 is a portable, battery-powered stroboscope** that utilizes super bright CREE High-Powered LED lamps. The DT-366's LED array provides a bright, stable strobe light over a wide measurement range with a lifetime far exceeding xenon-lit stroboscopes. Combined with large, backlit LCD display, operation is simple with the 8 button keypad and quick rate-adjustment dial. Phase shift, flash duration, plus flash rate all are easily viewed and adjustable. The unit can function by user altered flash frequency or from a remote sensor's signal input which will automatically adjust the stroboscope to the corresponding process fluctuations. Containing a rechargeable lithium battery, a single charge is able to last up to a full 12 hours of operation.

The DT-366 is designed for speed and frequency measurements in motion and vibration analysis applications. It is ideal for predictive and preventive maintenance applications such as: motors, shafts, roto-gravure printing, extruders, blow molding, wire lettering and striping, engraving, pulse jets, water jets, fans, cams, gear teeth, belt inspections, fuel injectors, vibration analysis, spindle spinning, cutting blade timing and sharpness, plus many more in the printing, packaging, textile, automotive, cable, mining, steel, chemical, optical, medical and shipbuilding industries.



### Features

- LED technology greatly extends operation life and eliminates need to replace burned out bulbs
- Backlit LCD display aids usage while operating in dimly lit areas
- Easy adjustment with flash dial combined with x2/÷2 and fine tuning +/- buttons enables precise flash setting
- Fast-charge rechargeable battery provides exceptional, long-term usage reliability
- Adjustable Flash Pulse duration achieves sharper images for detailed inspection
- Phase shift (in degrees of delay time) enables visual analysis of rotating or reciprocating objects through all points of motion/time/angle
- Flash rate may be synchronized with process speed with input from sensor or controller
- 1/4-20 UNC connection for permanent mount applications (remove trigger handle)

DT-366 in Included  
Carrying Case



## DT-366 Specifications

Flash Rate Range	30 to 120,000 FPM ; 1-2000 Hz
Accuracy	0.01% ±1 digit of F.S. @ 77° F (25°C)
Lux Rating (Approx.)	6000 FPM: Distance 8" (20 cm) 6850 lx with 10" (254 mm) irradiation dia., Distance 20" (50 cm) 2325 lx with 14" (355 mm) irradiation dia. 1500 FPM: Distance 8" (20 cm) 3395 lx with 10" (254 mm) irradiation dia., Distance 20" (50 cm) 1350 lx with 14" (355 mm) irradiation dia
Lamp Lifetime	Approximately 3~5 years depending on usage.
Display	Backlit LCD
Resolution	60 ~12,000 FPM = 0.1 FPM; 12,001~120,000 FPM = 1 FPM; 1~200 HZ = 0.01 Hz; 201~2000 = 0.1 Hz
Flash Duration	0.1°- 2.5°
Power Requirement	100-240 VAC 50/60Hz
Battery	Lithium DC 16.8V 2600 mAh
Battery Life	Approx. 12 hrs depending on settings
External Sensor Input	15 V Pulse Input; Mini-USB
Sensor Power Supply	15 V dc up to 50 mAh
Input Pulse Width	Over 50 $\mu$ s
Input Signal Flash Delay	0-999 ms; 0-359°
Temperature Limits	32-95°F (0-35°C)
Humidity Limits	35 to 85% RH
Enclosure	Aluminum & ABS
Product Weight	2.15 lb (0.98 kg)
Package Weight	5.85 lb (2.65 kg)
Dimensions	8 x 4.3 x 7.6" (203 x 110 x 192 mm)
Approvals	CE
Warranty	1 Year
Included Accessories	Carrying Case, Power Charging Adapter with Cord, Bottom and Top Handle

## Ordering Details

DT-366	Portable, High Intensity LED Stroboscope, Rechargeable Battery with 100-240VAC power adapter
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## Accessories

E2E-X5ME1-Z-USB	Proximity Sensor with USB Connection for DT-366 Series Stroboscopes
SG-735	Rubber strobe guard for DT-366
ST320-HANDLE	Top handle for DT-366 Stroboscope
BAT-320BL	Replacement Battery for DT-366
ST-CHRG-2	Charger for use with DT-366 (NO CABLE)
ST-CBL-2	Adapter Cable for use with DT-366, US plug
ST-CBL-2-EU	Adapter Cable for use with DT-366, EU plug