

## 1. Features

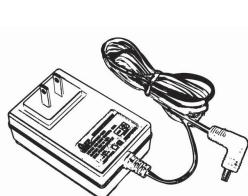
Mighty Strobe X-1 is a compact and lightweight portable strobe producing excellent high-brightness output. Based on the xenon flash lamp FX-6S (5W) that has a long-standing performance record, this product is designed to achieve more than three times the high-brightness (15W) of FX-6S. It can be used for more than two hours (emission of 10W) with a high capacity battery or with an AC adapter.

- High brightness (maximum emission power 15W)
- Compact and lightweight (900 g)
- Satin-finish mirror prevents any unevenness in the irradiation light
- Wide range of emission frequency: 30FPM-36,000FPM (0.5Hz-600Hz)
- Can be used with a battery or with an AC adapter. Charging is possible even while using the strobe.
- Uses a high capacity battery. Runs for more than 2 hours (emission of 10 W)
- Adjustable brightness (5W /10W /15W)  
Keep brightness low to reduce consumption of battery and flash lamp.
- Multifunctional (Internal oscillation emission, external synchronization emission, tachometer function, external synchronization angle / time delay function).
- The external trigger input terminal has a power supply output (12 V) for the sensor.  
This allows easy connection of commercially available proximity sensors and photoelectric sensors.
- Equipped with both external input and external output terminals separately.
- Can be fixed to a tripod (1/4-20 UNC).

## 2. Package contents



Mighty Strobe X-1



AC Adaptor



Hand Strap



Operation Manual

## 12. Main Specifications

● Operating Modes	Internal oscillation mode, external synchronization mode, tachometer mode	
● Emission frequency range	Internal oscillation mode: 30-36000 FPM External oscillation mode: 0-36000 FPM	
● Tachometer function	30-120000 rpm	
● Display	8-character 2-line OLED display	
● Flash lamp used	FX-6SP	
● Setting accuracy	$\pm 0.01\%$	
● External measurement accuracy	$\pm (0.01\%+1\text{digit})$	
● Resolution	0.1 FPM	
● Lamp input power	Max continuous: LOW ■ 5W, MID ■ 10W, HIGH ■ 15W switchable Max single: 300 mJ / flash (at 15W) 2.4μs (at 3000FPM, 15W, half width) $1 \times 10^8$ flashes typical (at 10W)	
● Flash duration		
● Lamp life		
● External trigger	1. Voltage input Rated input voltage 12V / 24V Input impedance Approx. 2.1kΩ H level / L level 5V-26.4V / 0-3.6V Pulse width 10μsec min.	
	2. No-voltage input (non-contact input) Short-circuit impedance 500Ω max. Current outflow at 0Ω Approx. 25mA Short-circuit residual voltage 0.5V max. Open circuit impedance 10kΩ min.	
	3. No-voltage input (contact input) Use contact points in which 12V, 20mA can be adequately opened and closed	
	4. No-voltage input (applicable 2-wire sensor) Leakage current 1.5mA max. Load current 20mA min. Residual voltage DC3.6V max. Supply voltage Operates with DC10.2V	
	5. TTL input Rated input voltage 5V H level / L level 2V-5V / 0-1V Pulse width 10μsec min.	
● Power output for sensors	DC12V, 40mA	
● Synchronization signal output	Open collector output (photocoupler) DC 30V, 8 mA open collector ON / OFF switchable	
● Delayed emission function	Angle delay 0-359 ° Resolution: 1 ° Time delay 0-2000ms Resolution: 1ms (There is trigger delay of approximately 40μs even in the case of 0 ° or 0 ms delay.)	
● Battery	Lithium-ion battery (built-in)	
● AC adapter	Input: AC100-240V ± 10%, 50-60Hz Output: DC18V	
● Battery runtime	5W: approx. 4 hours, 10 W: approx. 2 hours, 15W: approx. 1.5 hours	
● Charging method	Connecting the AC adapter to the main body	
● Charging time	Approx. 2 hours (when power is turned OFF)	

- Casing Polycarbonate
- Mass Approx. 900 g
- External dimensions 182mm (L)×122mm (W)×294mm (H)
- Use environment Operating temperature : 0°C to +35°C  
Operating humidity : 30% to 90% RH (no condensation)
- External view

