



USER MANUAL (application instruction)

- MODEL No.: TEA-1B02 • Storage Component : Ni-MH Battery

1. PERFORMANCE AND CHARACTERISTICS

1.1. This is a solar energy powered, new generation of signal and decoration light. It transforms solar energy into electric energy, which lights the built-in ultra-bright LED. High quality and high capacity Ni-MH batteries are used to store energy at the day time, and lights the LED at night by auto-controller.

1.2. The product is self-powered, economical and environmental protect, working under the safe voltage.

1.3 Cordless, easy to install; fully sealed, suitable for outdoor, bridge, building outline etc. need not maintenance.

1.4. Automatically controlled: turn on and off according to the ambient light intensity.

1.5. Applied advanced technology and high quality raw material are used for main parts, which improve photoelectricity transform efficiency and lengthen the working hours after fully charged.

1.6. Long life span, average life is 4 years, or above.

1.7. Good caution and decoration effect: more than 1,000 meters visible distance at night under normal weather condition.

2. TECHNICAL DATA

Lighting Mode

1	Flash	① f=75±5 T/min, ② f=250±10 T/min, ③ specified by buyer
2	Gradual flash	① f=20±5 T/min
3	Constant	
4	Recycle	① f=120±10 T/min, ② f=250±10, T/min, ③ specified by buyer
5	Colorful: Gradual+Leap	① f=30±5 T/min, ② f=75±5 T/min, ③ specified by buyer

Technical Data

Storage component			Solar cell			continuously working hours after fully charged (h)					Average life (years)	Housing material	Part number
			Power (mWp)	current (mA)	vol (V)	1	2	3	4	5			
Comp.	Capacity	Vol											
Ni-MH	8000mAh	3.6V	2250	380	6.0	120	80	80	80	60	4	PC	TEA-1B02-BH
Battery	3300mAh	3.6V	1500	250	6.0	60	40	40	40	30	4	PC	TEA-1B02-B

Other Data

Light Source			
Name	Ultra-bright LED	Turn On/Off	Automatically turn on at:50±20 lx,
Optional color	R, B, G, Y, W M:colorfull(R.G.B inside)		Automatically turn off at:350±50 lx
Highest luminous intensity	≥20000mcd	Protection Level	IP66
Qty	32pcs (Ø10mm)	Ambient temperature	-40°C ~70°C (-40F~158F)
		Outline dimension	L×W×H= 650mm×98mm×240mm
		Weight	2000g

3. APPLICATION:

3.1.The product is suitable for the areas with long direct sunlight time. For those areas with shorter direct sunlight time, foggy or opposite the sun, it is better to choose super capacitor as storage component.

3.2.Various lighting modes and colors are available to meet customers' different demands.(i.e. constant or flash frequency = $75\pm 5T/\text{min}$ is suitable for common area, while high frequency($=250\pm 10T/\text{min}$) flash or recyly is more suitable for a special area.)

3.3 The product can be used as decoration or caution or direction for bridge railings, structures rail, structures outline, overpass, viaduct, expressway, urban road etc.

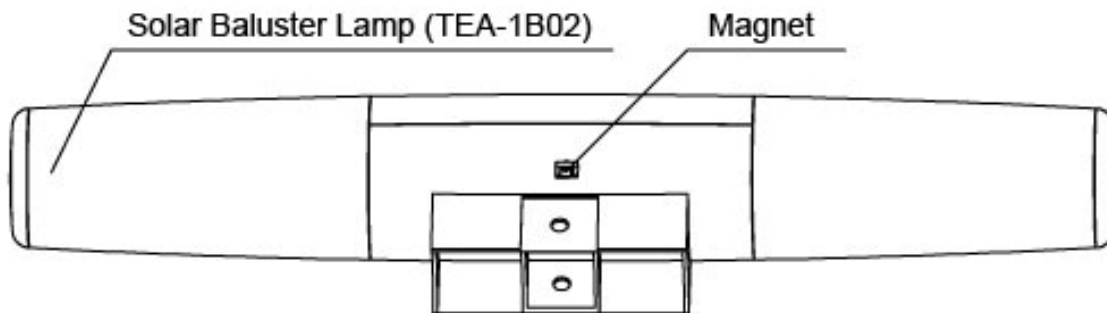
4. INSTALLATION INSTRUCTIONS

4.1. When installation, please make the solar panel face up or face to the sun as possible as it can, otherwise the photovoltaic transform efficiency will be affected in a certain range.

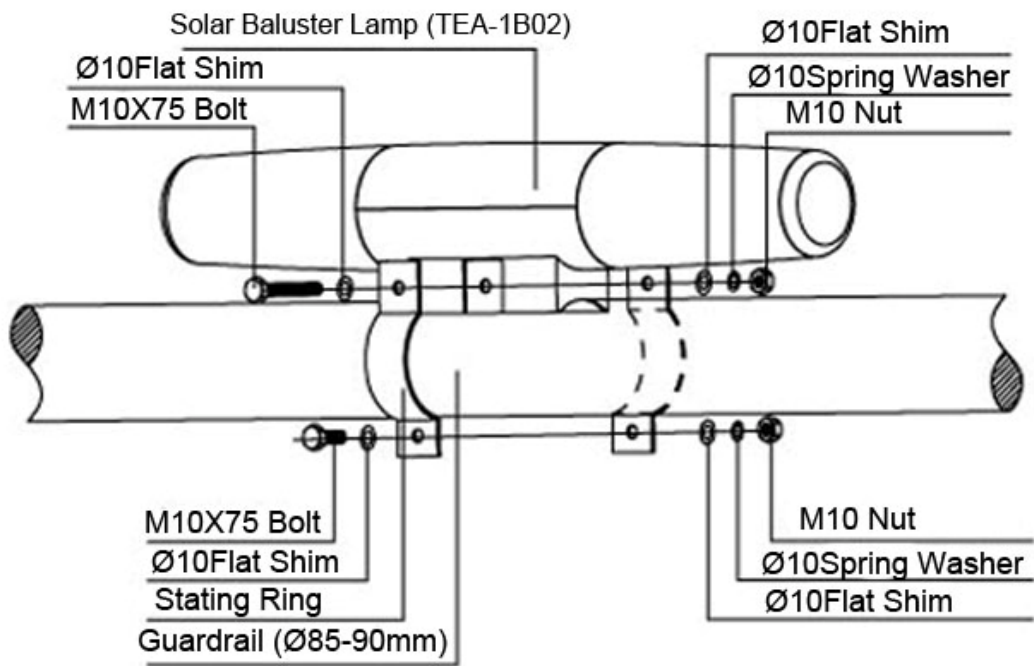
4.2. If the product has not been used for a long time, recommend to charge it in the sun for about 2-3days every 3 months in order to protect the Ni-MH battery.

4.3 Please make sure to take off the magnet from the back of the product before installation(please see pic. 1) to make it to working status.

4.5. Installation method please refer to pic. 2.



Picture 1



Picture 2