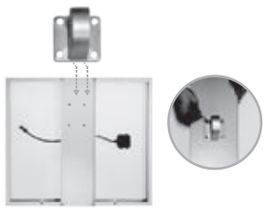
Installation

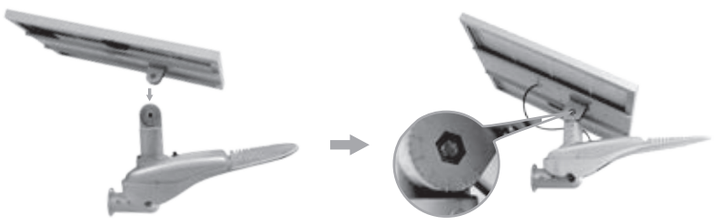
1. **Elliptical bracket:** Use 4pcs NO. 1 screws and 1pc NO.1 wrench to fix the elliptical bracket on the solar panel.



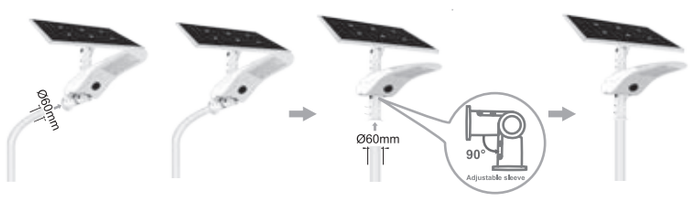
2. **Rotating platform:** Use 3pcs NO.2 screws and 1 pc NO.2 wrench to fix the 360° rotating platform on the lamp according to the orientarion of the road.



3. **Combination:** Use 1pc NO.3 screw and 1pc NO.3 wrench to fix the multi-angle bracket buckles after adjust the suitable angle, make sure the solar panel will absorb max sunshine.
(Verticta installation: Use NO.3 wrench loosen the screws of universal wheel and then turn to vertical 90° angle, after that fix it.)



4. **Install the light:** Use 4pcs NO.2 screws and 1pc NO.2 wrench to fix the whole lamp on the pole.



Horizontal installation

Verticta installation

5. **Connection:** Last step just connect the waterproof cable from solar panel to lamp body.



Using Instructions:

1. Clean surface of solar panel regular such as dirty leaves, oil, ect, ensure high photoelectric conversion efficiency.
2. Set suitable angle towards sun. (≈local latitude)
3. Please avoid solar panel being shielded by buildings, trees, antenna mast or other obstructions, otherwise it will reduce working efficiency of solar panel , resulting in lower system efficiency.
4. Recharge battery every 3 month at least if it is idled.
5. Charge temperature of Lithium battery is from 0°C to 55°C, the discharging temperature is from -20°C to 60 °C, make sure that ambient temperature is in this range when used, avoid damage to lithium battery.
6. Clean snow on solar panel surface timely in winter.

How to turn on our solar street lights ?

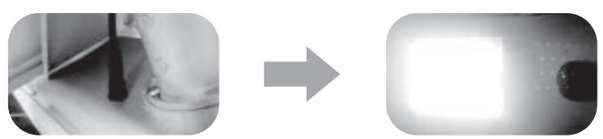
Notice: Please do not need Press ON button of the small blue remoter to turn on the lamp, because our solar lamps have Automatic Activation Function.

Activation:

Remove the FP Series from package box, let the solar panel absorb energy from sun, connect the waterproof cable between solar panel and lamp, then the lighting system can be activated, the FP Series will be lighting automatically at night.

If you want to check whether the FP Series are lighting during the daytime:

Cover the solar panels with shelters, the lamp will be lighting.
Press Demo Button after the lighting system has been activated, the lamp will be lighting for a 1min then turn off automatically.





User Manual-FP Series

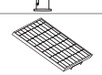
All In One Solar Street light

Installation Height and Distance

Model	Height of pole	Distance between pole
FP-01A / FP-01B	3-5m	8-10m
FP-02A / FP-02B	3-5m	10-13m
FP-03A / FP-03B	5-6m	12-15m
FP-04A / FP-04B	6-7m	14-17m
FP-05A / FP-05B	6-8m	16-19m
FP-06A / FP-06B	7-8m	19-21m

Packing List

When open the package please confirm that all parts are received, the parts are listed below:

NO.	Components	Quantity	Images
1	M6x20 screws	4pcs	
	wrench	1pc	
2	M8x25 screws	7pcs	
	wrench	1pc	
3	M14x45 screws	1set	
	wrench	1pc	
4	Light body	1pc	
5	Solar panel	1pc	
7	360° rotating platform	1pc	
8	Elliptical bracket	1pc	
9	User Manual	1set	
10	Remote control	1pc	

Humanize Intelligent Remote Control Technology



Four Working Modes

DEMO: Test button (light "on" for 1 mintue).

ON/OFF: On/Off button (press the button turn on the light, press again turn off the light, no matter day or night).

L : 100%-1hr, 70%-3hrs, 20% till dawn.

T: 100%-2hrs, 70%-2hrs, 50%-2hrs.

U: 100%-2hrs, 70%-2hrs, 50%-2hrs, sensor working 50%, if people come close, 20% far away.

M: 100% if people come close, 30% far away.

Remark:

* After connected the cables between solar panel and the lamp, the light will turn on automatically when it detect sunshine (there is no need using remoter to turn on the solar light).
* Default is M mode, you can choose the best mode according to different sunshine condition.

Trouble Shooting

No	Situation	Trouble shooting steps	Solution
1	No light at night	Check if the solar panel is blocked from the sunlight by houses, trees and other obstacles	Clear obstructions or change installation location
		Check if there is any artificial light source(s) illuminate on the solar panel at the night	Remove the artificial light source(s) of interference or change the installation location
		Check the battery have power or not(There will be a green light flashing on microwave sensor if the battery have power)	Put the solar lamp in strong sunshine charging 4-6 hours,then observe the lights at night
		If all step above have no problem	Disconnect the cable between the solar panel and lamp, then connect it again, then press M button working mode, then wait for 1 min, lamp will be lighting again
		Test battery voltage	If the battery voltage is lower than 11 V, the battery has been protected automatically. Please use solar panel charge the battery directly (do not through solar charge controller), after full charged, battery voltage shows 14V or above 14V, then observe the lighting situation at night
		Test solar panel voltage	Test solar panel voltage at sunshine.if the volatge of solar panel lower than 10v, please replaced damaged battery
2	A serious shortageof working time	Check if the solar panel is blocked fromthe sunlight by houses, trees and other obstacles	Clear obstructions or change installation location
		Check if the surface of the solar panelis dusty or covered	Clean the surface of solar panels as detailed above
		Confirm the working mode is correct or not	Use the remote control to readjust the working mode to M
		Lighting installation area is a long time cloudy and rainy days (more than 5 days)	Under normal circumstances, sunny day after charging the solar panel to observe the lights at night
3	Lights fail to turn on properly when humans approach	Check the working mode is corret or not	adjust working mode to M or U
		Check if the air temperature close to human body temperature	when the air temperature us close to human temperature, motion detection may slow down. It will return to normal after the air temperature changes
		Check if the installation height is too high	It is out of motion sensor detection range when installation height exceeds 10m. It is recommend to reduce the height or use other operating modes