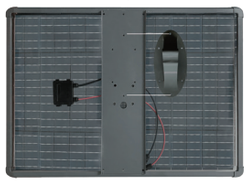
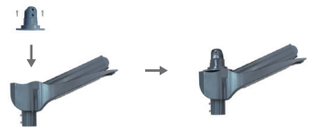
Installation

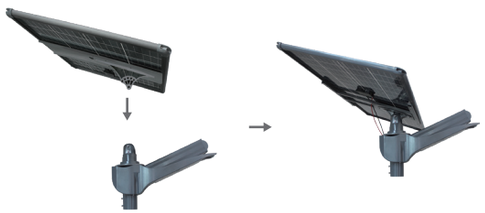
1. **Elliptical bracket:** Use Φ5mm wrench and 6pcs M6x16 screws to fix the elliptical bracket on the solar panel.



2. Rotating platform: Use 5mm wrench to loosen 6 screws, fix the 360° rotating platform on the lamp according to the direction of the road, and fix the screws



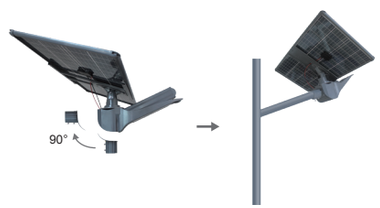
3. **Combination:** Use Φ6mm wrench and 1set M8x100 screws and 2pcs M8x30 screws to fix the multi-angle bracket buckles after adjust the suitable angle, make sure the solar panel will absorb max sunshine.



4. **Install the light:** Use Φ6mm wrench to loosen the 6pcs screws, install the lamp into the pole and fix screws **(Horizontal installation:** Use Φ6mm wrench loosen the screws of universal wheel and then turn to Horizontal 90° angle, after that fix it.)



Vertictal installation



Horizontal 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 activate the lamp after receiving the goods?

* If you receive the goods in the daytime, connect the waterproof cable between solar panel and lamp body, press the remote " ON" button, the lamp will turn on for one minute and then turn off, that's activate the lamp successful (no matter the solar panel receiving sunlight or not)
* If you receive the goods in the daytime, connect the waterproof cable between solar panel and lamp body, take whole set lamp out for absorb the sunlight and wait for 3 minutes. When the sensor indicator light appear red flash, the activation is successful.
* If you receive the goods at night, connect the waterproof cable between solar panel and lamp body, press the remote " ON" button, the lamp will turn on for 12hrs, you can press “OFF” button if you want it turn off.



HINERGY



User Manual-SN Series

All In One Solar Street light

Installation Height and Distance

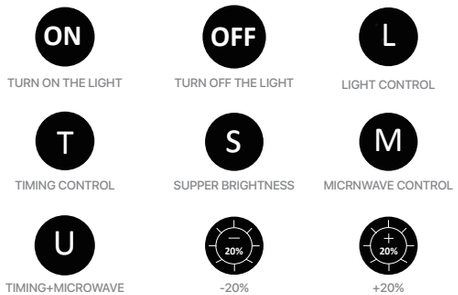
Model	Height of pole	Distance between pole
HNL50W-SN	5-7m	25-28m
HNL60W-SN	6-8m	28-30m
HNL80W-SN	7-9m	30-35m
HNL100W-SN	8-10m	35-40m
HNL120W-SN	9-11m	40-45m

Packing List

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

Components	Quantity	Images
Light body	1pc	
Multi-angel bracket buckles Rotating Platform	1pc	
Solar panel	1pc	
Bracket support	1pc	
M8x100 screw	1set	
M8x30 screw	2pcs	
Φ6mm Allen key	1pc	
M6x16 screws	6pcs	
Φ5mm Allen key	1pc	
User Manual	1pc	
Remote control	1pc	

Humanize Intelligent Remote Control Technology



Working Modes

- ON: Turn on the light
- OFF: Turn off the light
- L: 2hrs-100%, 2hrs-70%, 8hrs-20%
- T: 1hrs-50%, 4hrs-100%, 3hr-50%, 4hr-25%
- S: 6hrs-100%, 6hrs-50%
- M: 100% when detect any movement, 30% no movement
- U: 2hrs-100%, 2hrs-70%, 2hr-50%; sensor start working, when detect movement 50% , 20% no movement.
- -20%: decrease 20% brightness based on original working mode
- + 20%: increase 20% brightness based on original working mode

Remark:

* The lamp will turn on at night automatically after installation and activation, turn off automatically when it receive sunshine.
* 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