FIRST TEAM, INC.

COURTVISION SOLAR LIGHT LAMP INSTRUCTIONS

40W / 80W / 120W

IP66 CE RoHS

Please read and follow all instructions for operation. Save this manual for future reference.

Working Modes

Operation Instructions for Single-sided Solar Street Light 40W / 80W / 120W

BEFORE INSTALLING THE LIGHTS, READ THIS MANUAL.

1. **Determine the optimal angle to face the light fixture/solar panel.** The optimal angle for the solar panel is your latitude and facing south. Then attach the light onto the pole.

2. **Press the Power Button button on the light.** The fixture will light up for 3 seconds and then turn off, which indicates that the light and remote control are successfully activated.

3. To turn the system completely off, press the Power Button button again, and the light will flash 3 times and then turn off.
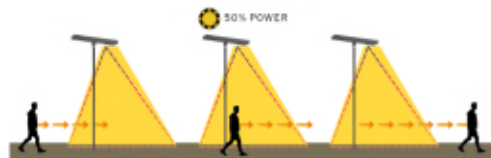
FIXTURE LIGHTING OPTIONS

Press the button on the light to select the preferred working mode as shown below. The light bar will light up for 3 seconds then turns off when each button is pressed.

Power Button

Constant Lighting Mode
Automatically operates at 50% brightness from dusk to dawn or until power is off.

50% POWER

Sensor Mode
Automatically operates at 30% brightness. When motion is detected, light increases to 100% until no motion is detected for 30 seconds, then returns to 30% brightness. Detection up to 50 feet.

30% POWER   100% POWER   30% POWER

Customized Working Mode
Automatically turns on at dusk and remains at up to 100% brightness for 4 hours, then it automatically turns to 30% brightness until dawn.

100% POWER FOR 4 HOURS   THEN TURNS ON 30% BRIGHTNESS UNTIL DAWN

Specification

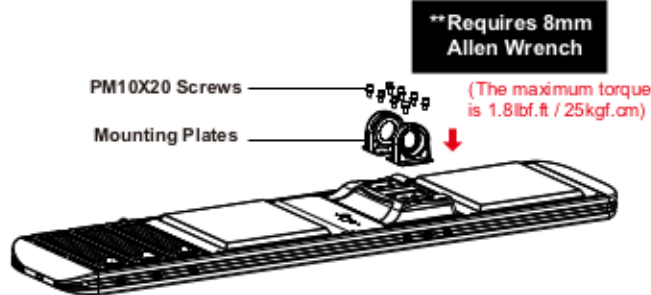| Product Model	STEALTH II 40W-23	STEALTH II 80W-23	STEALTH II 120W-23	STEALTH II 120W-23-O
Power	40W	80W	120W	120W
Lumen/ LED Type	7,400 Lumens (Phillips 5050)	14,800 Lumens (Phillips 5050)	22,200 Lumens (Phillips 5050)	22,200 Lumens (Phillips 5050)
Color Temperature	4000K /5000K	4000K / 5000K	4000K / 5000K	4000K / 5000K
BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
Battery	LiFePO$_4$ 24AH,12.8V / 307.2Wh	LiFePO$_4$ 48AH,12.8V / 614.4Wh	LiFePO$_4$ 36AH,25.6V / 921.6Wh	LiFePO$_4$ 48AH,25.6V / 1228.8Wh
Solar Panel	Mono-crystalline | 48 Watt	Mono-crystalline | 65 Watt	Mono-crystalline | 100 Watt	Mono-crystalline | 100 Watt
Light Dimensions	34.1"×16.2"×3.94"	45.9"×16.2"×3.94"	65.6"×16.2"×3.94"	65.6"×16.2"×3.94"
Working Time	Up to 14 Hrs if fully charged, Alternate working modes and working times, ranges from 3 - 6 nights.			Up to 16 Hrs if fully charged, Alternate working modes and working times, ranges from 3 - 6 nights.
Charging Time	Requires 6 hours of direct sunlight at optimal angle. Optimal direction is magnetic south and the optimal angle equals the latitude of the installation. Performance is reduced if product is installed different than the optimal angle or non-South facing.			
Beam Angle	150x75 Type III *			
PIR Sensor	2 PIR Sensors | Detection angle: 150° | Detection distance: up to 8 Meters / 26 Feet			
IP Class	IP66			
Working Temp	-10°F - 140°F			
Housing Material	Powder Coated Aluminum | Salt Spray Coating			
Weight N.W./G.W.	41 lbs. | 49 lbs.	57 lbs. | 71 lbs.	71 lbs. | 84 lbs.	86 lbs. | 102 lbs.
Box Dimensions	43.9"×19.5"×7.1"	55.7"×19.5"×7.1"	75.4"×19.5"×7.1"	75.4"×19.5"×7.1"
Installation Height	10' - 15'	15' - 25'	20' - 30'	20' - 30'
Installation Spacing	32' - 50'	50' - 100'	100' - 150'	100' - 150'
EPA	2	4	6	6
Warranty	5 years**			

* Default lens is Type III, other options available.
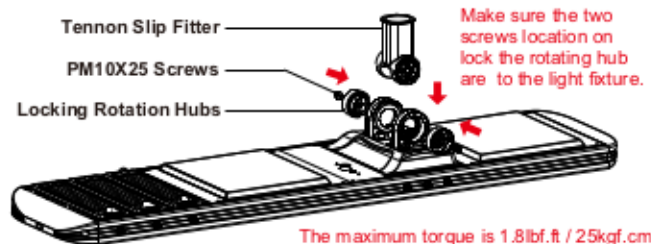** Prorated if not installed per optimal instructions.

Installation

Please prepare tools and accessories before installation. Each box includes:

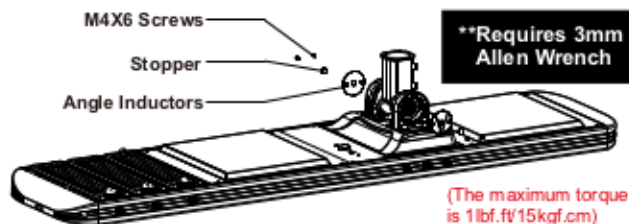|					
Solar Light	1pc	PM10x25 Screws	2pcs	Mounting Plates	2pcs
Remote Control	1pc	PM10x20 Screws	8pcs	Tennon Slip Fitter	1pcs
User Manual	1pc	M10x20 Screws	4pcs	Locking Rotation Hubs	2pcs
		M4x6 Screws	4pcs	Angle Inductors	2pcs
				Stopper	2pcs

1. Install the Mounting Plates for the pole mount according to the arrows shown below. Attach the Mounting Plates to the fixture with the washers and screws listed below.

Requires 8mm Allen Wrench

PM10X20 Screws

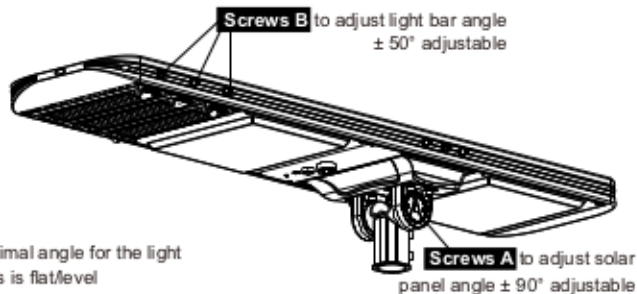(The maximum torque is 1.8lbf.ft / 25kgf.cm)

Mounting Plates

2. Slide the Tennon Slip Fitter into the Mounting Plates as shown, and insert the Locking Rotation Hubs into the sides of the Tennon Slip Fitter, then fasten them with the flat washers, lock washers, and screws.
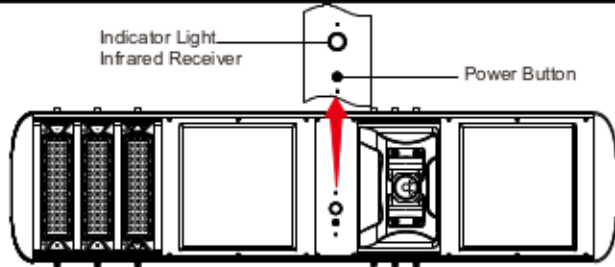
Tennon Slip Fitter

PM10X25 Screws

Locking Rotation Hubs

Make sure the two screws location on lock the rotating hub are to the light fixture.

The maximum torque is 1.8lbf.ft / 25kgf.cm

3. After tennon slip fitter sit well fixture, install the angle inductor to the locking rotation hubs, make sure its angle aim to the scale of 0°.

M4X6 Screws

Stopper

Angle Inductors

**Requires 3mm Allen Wrench
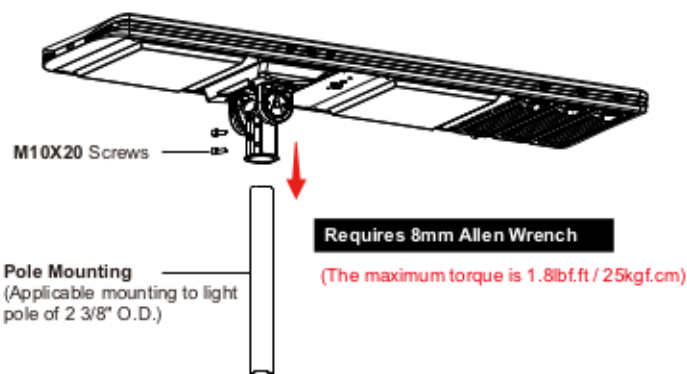
(The maximum torque is 1lbf.ft/15kgf.cm)

4. Loosen the solar panel screws (Screws A) and adjust the solar panel to the appropriate angle that captures the most sunlight and then tighten the screws back. Next, loosen the light bar screws (Screws B), adjust the light bar, then tighten the screws back.

Screws B to adjust light bar angle ± 50° adjustable

Optimal angle for the light bars is flat/level

Screws A to adjust solar panel angle ± 90° adjustable

5. According to the operation instructions, activate the light by pressing the power button, then select the desired working mode.Turn the light off using the remote (light bars will flash 3 times) and let charge for 2 days before using.

Indicator Light
Infrared Receiver

Power Button

6. Place the Tennon Slip Fitter onto the light pole, and screw the M10X25 screws in tight.

M10X20 Screws

Requires 8mm Allen Wrench

Pole Mounting
(Applicable mounting to light pole of 2 3/8" O.D.)

(The maximum torque is 1.8lbf.ft / 25kgf.cm)

Special Notes

- Before installing the light onto the pole, **Press the power button on the light to activate the light.**
- Adjust the solar panel and light bar(s) to the optimal angle, then install the light onto the pole. The optimal angle for the solar panel is your latitude and facing south.
- If the fixture does not light up after unpacking, it is usually because of insufficient battery power. Charge it for 1-2 days before installing it.
- It is recommended to install the light on a sunny day, so it can charge during the day prior to use without affecting the operation during the night.
- Install the light in a place with unobstructed, full sunlight to ensure it can be charged for 6 hours per day, which gives the light maximum working time.
- As this light is photosensitive, it will automatically light up at dusk. Please be aware that it will not light up during daytime even if it's turned on.
- In order to ensure the light is in optimal working condition, clean the solar panel regularly. We recommend cleaning at least once every six months.

Warning

- The light is equipped with an internal battery pack which is replaceable. If you have any need to replace it, please contact Solar Lighting International, Inc. for a new battery pack.
- If the battery pack is taken out and put back in or replaced with new ones, re-activate the light & remote control by pressing Power Button button on the light.
- Do not disassemble the light - *This will void your warranty.*
- Keep the light away from fire, oil or flammable materials to avoid explosion.

Remote Control Distance: ≤ 35 Feet / 12 Meters

Power Button:
Turning off the light with the remote control.
This allows the unit to continue charging without turning on at night.

ON / OFF

HOURS OF RUNTIME SELECTION

1H
2H 3H 4H
6H
8H 10H

CONSTANT LIGHTING MODE BUTTON

CUSTOMIZED WORKING MODE

SENSOR MODE

20% 30%
50% 60%
80% 100%

BRIGHTNESS OUTPUT SELECTION

ON/OFF Button on the Remote Control	During Daylight Hours	At Night Time
Press to turn "ON"	Lamp flashes one time, then turns off	Lamp turns on
Press to turn "OFF"	Lamp flashes three times, then turns off	Lamp flashes three times, then turns off

TURNING THE LIGHT ON:

Press and hold the **Power Button** ⏻ The fixture will light up for 3 seconds then turn off; which indicates that the light and the remote control have been successfully activated.

TURNING THE LIGHT OFF:

Press the **Power Button** to completely turn off the light and deactivate the remote control.

SENSOR MODE:

Time and Brightness are NOT Adjustable.
For the sensor mode, press the sensor mode button, the light will operate as follows: Automatically operates at 30% brightness. When motion is detected, light increases to 100% until no motion is detected, then returns to 30% brightness.
Detects motion up to 50 feet.

Constant Lighting Mode

Changing this mode does not provide dusk to dawn lighting.

Under Constant Lighting Mode:
Brightness can be set to: 20%/30%/50%/60%/80%/100%

Lighting Time can be set to: 1 H/2H/3H/4H/6H/8H/10H

Before setting the brightness or lighting time, press the **Constant Lighting** ☀
Mode button first, then press the Brightness or Lighting Time option desired.

OPTION 1 : Press ☀

Default setting for Constant Lighting Mode:

The lamp automatically turns on at dusk and will maintain 50% brightness until dawn or until the power runs out.

Changing this mode does not provide dusk to dawn lighting.

OPTION 2: Press ☀ + Select a Brightness Button

For example:

Press ☀ + Press 60%

Lamp automatically turns on at dusk and maintains 60% brightness until the power runs out.

Note: Under constant lighting mode, when you change the brightness but not the lighting time; it will keep lighting at the chosen brightness until power runs out.

Indicator Functions

There are 4 colors (green, red, blue, yellow) in the indicator light section.
Each color indicates the working status of different parts of the lamp so you can easily troubleshoot your light.

Indicator Color	Indicator Status	Functions
•Green Charging Indicator	Slow Flash (Flashes once every 2 seconds and keeps repeating)	MPPT charging correctly
	Fast Flash (Fast flash 3 times, then off for 2 seconds, keeps repeating)	The output voltage of the solar panel is lower than the charging voltage of the battery. (Usually because it's early morning or the solar panel is covered.)
	Off	Solar panel wiring does have a good connection.
		It's nighttime.
		Battery is fully charged.
		Battery wiring does have a good connection.
		Battery can't be charged / Faulty or old battery.
•Red Battery Indicator	Off	Battery works normally.
	Slow Flash (Flash 1 time every 2 seconds, keep repeating)	Battery over discharge (Low Power).
	Constant Lighting On (Green light OFF at the same time.)	Battery is fully charged.
•Blue LED Indicator	Off	LEDs work normally.
	Fast Flash (Fast flash 3 times then off for 2 seconds, keeps repeating)	LED output over-voltage.
		LEDs have short circuited.
		LEDs are disconnected.
•Yellow PIR Sensor Indicator	Constant Lighting On	PIR sensor works normally motion is detected at night.
	Off	It's daytime.

Notes

The solar panel must be washed annually for correct operation.

You need a compass to determine which direction is south, do not guess.

Angle Finder to determine the correct angle for your current latitude. Check google for your local latitude angle.