

# User guide for Single axis Solar tracker Model St-001 V5

## CAUTION :

Read and follow all instructions before putting under the sun  
The LED sensor MUST NOT be directly shined by Sunlight for over 1 minute  
DO NOT use limit switch for actuator otherwise the tracker will keep output current and be damaged by overloading .

Please note the cable red mean "+" positive and the Black is "-" negative  
see the follow drawing to connect the motor( or actuator ) and battery .

### Part ( 1 ) Connect the cables :

- 1) First connect the motor cables
- 2) Connect the input cables
- 3) Test with a flashlight by shining closely to East or Westside of LED sensor .

The motor / actuator will immediately turn to corresponding position , if the connection is correct .

### Part ( 2 ) Install the solar tracker

#### A. Position

The tracker must be placed on the rotation rack and MOVE TOGETHER with solar panel .

(fig 2 )

#### B. Direction / Tilt angle

Turn the tracker until the LED sensors pointing East & West

(fig 3 )

Tilt the panel until the top of tracker( top of dome ) facing toward to sun .

( fig.2 ) for the 1st time .

C. The tracker will control the motor / actuator to move the panel to new direction when the sun move . The sun should shine vertically to the solar tracker and solar panel in order to have largest exposure to the sun .

### Part ( 3 ) Effective Angle

The effective / workable angle of tracker is around 135 degrees . Please note the effective angle of actuator MUST BE larger than the tracker , otherwise it will lead to continue working of tracker and cause damage

#### Tips :

The tracker will only start when the sun shine directly to the LED sensor ( fig.4 )

Note : We designed this item just want more people to use high-performance equipment in their solar product . we hope that more natural energy, reduce pollution emissions of the products so that your children can breathe fresh air .

Hope you will support environmental protection .

In addition , we hope you can give our comment on the use . this product , let us do better in the future , thanks to the use of our products .

If any idea please contact by E-mail : [hhsam@hotmail.com](mailto:hhsam@hotmail.com)

Please don't attempt to change the use of this product or change the input voltage and circuit . This may lead to damage to the product or burned .

Please follow the instructions need to connect all the cables , otherwise the product can not work properly or damage and the company does not make any compensation to any improper use.

