

Solar Chaser

Most Garden Light Solar Panels only face one direction (normally North), this is normally pretty efficient however they tend to miss a lot of the morning in afternoon sun from the East and West, missing this sun could sometimes be fatal for these lights, which is why getting every last drop of sunshine matters.

The Solar Chaser is a purpose built turntable kit that incorporates a garden light solar panel to obtain the most of the morning and afternoon sun. The Solar Chaser does this by always facing the solar panel in the direction of the sun. The Solar Chaser uses 2 Light sensors with cardboard in between to achieve this, when the Solar Chaser is pointing directly at the sun the cardboard does not cast a shadow and both light sensors get high light readings, however when it is not facing directly at the sun the cardboard casts a shadow over one of the light sensors, when one of the light sensors is in the shadow the solar tracker corrects itself.

The Solar Chaser is currently powered by a battery but future models would be powered by the solar panel itself to make the design more sustainable.