Description

Innovative refractive solar tracker slim (57mm), ideal for building integration competitive cost, as low as 0.7$/sqf.

Redirects daylight by rotating pairs of overlapping precision optical micro-prismatic discs. Except for that movement, it is a static solar tracker that moves light instead of moving itself. This differentiates SolarTwister from conventional solar trackers, making it smaller, easier to integrate in buildings and more cost competitive.

Autonomous solar tracking with celestial algorithm and onboard sensors. It doesn’t require professional installation.

Modular, fits any space.

Can be installed indoors next to a window or glass curtain facing South, South-East or South-West (on the northern emisphere). Can also be installed indoors under a skylight or an atrium. It redirects daylight indoors for general illumination or decorative highlights.

Operation

Up to 44000 lumens of sunlight
Sun elevation tracking: 6 to 78 degrees

Application

<table>
<thead>
<tr>
<th>Homes</th>
<th>Windows</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offices</td>
<td>Curtain walls</td>
</tr>
<tr>
<td>Retail</td>
<td>Skylights</td>
</tr>
<tr>
<td>Warehouses</td>
<td>Atria</td>
</tr>
<tr>
<td></td>
<td>Light wells</td>
</tr>
</tbody>
</table>

Features

Two-axis tracking
Ultra-low profile
DIY installation
Autonomous operation
Modular to fit any space

About Sunlight Indoors

Sunlight Indoors supplies innovative daylighting products for indoor illumination and applications that require static sun tracking.
## SolarTwister
### Technical Data Sheet

### Illumination

<table>
<thead>
<tr>
<th>Daylight Output</th>
<th>Module Max config.</th>
<th>8800 lumens peak * 44000 lumens peak*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Temperature</td>
<td>Sunlight (4500-5500K typical)</td>
<td>Sun altitude/azimuth range 6° to 78° / 360° (continuous rotation)</td>
</tr>
<tr>
<td>Color Rendering Index (CRI)</td>
<td>&gt;95% (sunlight)</td>
<td>Sun tracking resolution 0.006°</td>
</tr>
<tr>
<td>Beam Angle</td>
<td>+/- 6°</td>
<td>Sun tracking Accuracy +/- 0.5°</td>
</tr>
<tr>
<td>Output Beam direction</td>
<td>Perpendicular to system</td>
<td>Control</td>
</tr>
</tbody>
</table>

### Mechanical/Electrical

<table>
<thead>
<tr>
<th>Dimensions, weight</th>
<th>Base</th>
<th>600 x 300 x 57mm 2.5kg</th>
<th>Expansion</th>
<th>600 x 300 x 26mm 2.0kg</th>
<th>Max config.</th>
<th>3000 x 300 x 57mm 10.5kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>PMMA</td>
<td>Translucent, doesn’t block diffuse light</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Electronic sensors

<table>
<thead>
<tr>
<th>GPS receiver and antenna</th>
<th>Daylight sensor</th>
<th>Light alignment sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skylight / Atria</td>
<td>x4 point fixations on system corners</td>
<td>x4 steel cables (ordered separately)</td>
</tr>
<tr>
<td>x4 steel cables (ordered separately)</td>
<td>Fixed tilt</td>
<td>Typically aimed downwards</td>
</tr>
</tbody>
</table>

### Power

| USB AC adapter (included, EU or USA) | 2.5 W peak max | 0.2 W average max |

### Mechanical/Electrical

- **Window**
  - Typically hangs from curtain rail over 2m not to block the view
  - Included x2 nylon cable and slider per base and expansion adjustable tilt, typically aimed towards the ceiling to get indirect lighting

### Electronic sensors

- **Glass curtain**
  - x4 point fixations on system corners
  - x4 steel cables (ordered separately)
  - Fixed tilt
  - Typically aimed towards ceiling to get indirect lighting

### Power

- **Orientation**
  - No restrictions, automatic adjustment

### Compliance

- CE, UL pending
- CSA pending
- FCC pending

### Warranty

- 2 year replacement

### Planned Availability

- Beta prototype Q2 2017
- Production TBD

**PATENT PENDING**

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* For a solar illuminance of 10000Lux through a clear double grazing, it varies with weather and sun elevation