## Spectrafy solar spectral sensors

# **ST-5** Solar Tracker

By employing the latest advances in tracker technology, the ST-5 achieves a breakthrough in the cost of accurate, reliable solar tracking.

The ST-5's compact size and weight make transport, installation and maintenance refreshingly simple and affordable. With a payload limit of 5 kg, the ST-5 can be configured to hold up to 4 direct or global SolarSIMs, or an equivalent mass of non-Spectrafy instruments.

The ST-5's automated control box employs a highly accurate and efficient solar positioning algorithm to determine the sun's location, while the precision engineered hardware ensures pointing accuracy of  $\pm 0.1^{\circ}$ . For custom uses, optional PC-based software allows manual control.

The on-board GPS automatically configures time and location upon start-up and eliminates internal clock drift, while the ST-5's integrated leveling feet, azimuth adjustment and tie-down bolts enable swift and easy installation via the integrated bubble level.

#### Easy-to-deploy

The ST-5's compact size, clever engineering and automated control make installation swift and easy. Plug and play.

#### Small but powerful

The ST-5's can host up to four direct or global SolarSIM sensors. More than enough for most applications.

#### Third-party compatibility

The ST-5 can host irradiance sensors from all the major sensor manufacturers. A wide range of mounting fixtures are available.





# **ST-5: Specifications**

### Performance

Pointing accuracy Payload Elevation range Azimuth range Over rotation protection Tracking mode Heating Control

General

Weight Dimensions (W x D x H) Power supply and use Operating temperature range Humidity range Environmental protection Cable length

## Options

SolarSIM-D2 mounting plate (1 – 4 units) SolarSIM-G mounting plate (1-4 units) Shading ball assembly (for diffuse measurement) Third party pyrheliometer mounting plates Third-party pyranometer mounting plates

± 0.1° 5 kg 0° to 125° 0° to 360° Physical limit stops SPA based (open loop) Optional Automated control box or RS-485 ASCII direct to PC

6 kg 233 x 140 x 235 mm (L x W x H) 12 VDC, 34W in motion, 4W when idle, ~70 Whr/day -25°C to +55 °C (-40°C to +65 °C optional) 0 to 100% RH IP66 10 m