

ST-5 Sun Tracker

By employing the latest advances in tracker technology, the ST-5 Sun Tracker 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 7 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 ±0.1°. 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

± 0.1 ° 7 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

General

Weight

Dimensions (W x D x H)

Power supply and use

Operating temperature range

Humidity range

Environmental protection

Cable length

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

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