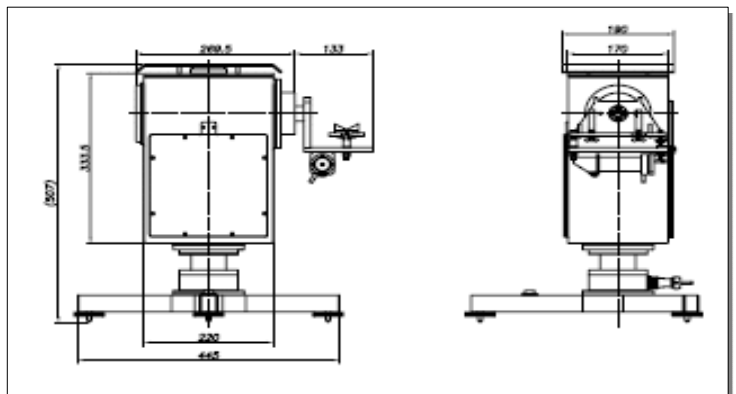


# Automatic Sun Tracker ASTX-2



## Features

ASTX-2 is able to be automated sun tracker combining with direct pyrheliometer or sunphotometer.

It calculates sun position and sun sensor support high position accuracy. It can make auto set (latitude, longitude and time) from GPS. All cables are set through inside and make move very smooth. You can remove tripod and install ASTX-2 on pole.

Optional Parts: • Double arm  
• Sun Shading ball PO-155-1  
• Heater PO-170



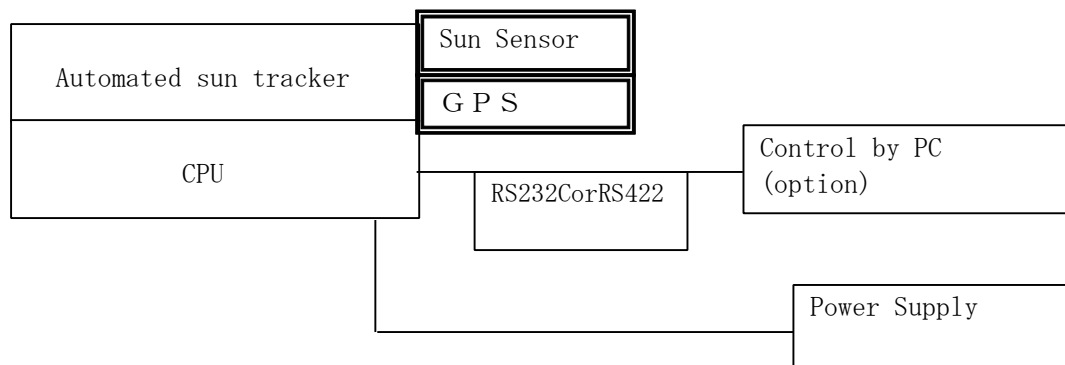
PREDE CO., LTD.

\* Research Center: Sasamoto Bldg 26-8 Kamidaira 1-chome Fussa-shi 197-0012 Tokyo Japan

TEL+81-42-539-3755 FAX +81-42-539-3757

URL <http://www.prede.com/> e-mail [sales@prede.com](mailto:sales@prede.com)

## System



## Specification

|                       |                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Payload               | Less than 10kg, balanced                                                                                                                |
| Sensor                | 1 unit (Maximum 6units, Optional)                                                                                                       |
| Rotation              | Zenith: $-30^{\circ} \sim 120^{\circ}$ ( $0^{\circ}$ = Zenith, += S, -= N)<br>Azimuth: $\pm 180^{\circ}$ ( $0^{\circ}$ = S, += E, -= W) |
| Resolution            | $0.00225^{\circ}$                                                                                                                       |
| Accuracy              | $0.01^{\circ}$                                                                                                                          |
| Tracking System       | Auto calculation for sun position                                                                                                       |
| Sun Sensor            | Compensation for small position error                                                                                                   |
| Drive System          | 2 axis pulse motor                                                                                                                      |
| Setting (with GPS)    | Selfsetting of latitude, longitude and time                                                                                             |
| Controller            | 16bit CPU                                                                                                                               |
| Operating temperature | $-20^{\circ}\text{C}$ , ( $-40^{\circ}\text{C}$ with heater) $\sim +60^{\circ}\text{C}$ ,                                               |
| Power Consumption     | 120W (100V/1.2A), Option heater 500W(100V5A)                                                                                            |
| Power Supply          | AC100V-200V 2A50/60HZ                                                                                                                   |
| Communications        | RS232C                                                                                                                                  |
| Cable                 | 20m                                                                                                                                     |
| Material              | Housing : Aluminum<br>Shaft : Stainless steel                                                                                           |
| Weight                | About 20kg                                                                                                                              |