

# Grating Sunphotometer PGS-100



Measurement screen

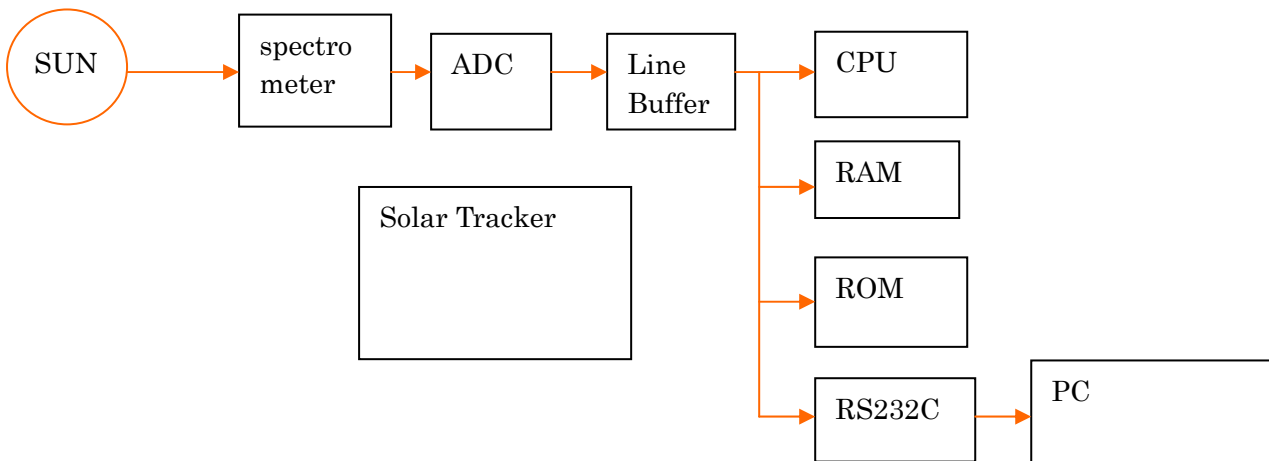
## Feature

This instrument is the highly efficient following generation Sunphotometer which adopted grating as the spectrometer system.

Basic software operates on Windows and can perform outdoors continuation observation.

Data can carry out a store to a personal computer by RS232C.

## System composition



**PREDE PREDE Co., Ltd.**

Head Office: 1117 Kusabana, Akiruno-shi, Tokyo 〒197-0802 Japan

Resurch Centor: Sasamoto Build.26-8 Kamidaira 1chome Fusssa-shi Tokyo 197-0012 Japan,

TEL:+81-(0)42-539-3755 FAX:+81-(0)42-539-3757

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

## Specification

- \*Measurement wavelength range 350~1050 nm
- \*View half angle : 1°
- \*Slope angle : 0.5°

### Monochrometer

- \*slit 100μm
- \*Detector Si-CCD
- \*Number of channel : 2048ch
- \*Wavelength clearance:0.4nm
- \*Resolution(FWHB) 3.6 nm
- \*Minimum unit of wavelength selection:1nm
- \*Temp control
- \*Communication RS232C



Wavelength selection screen

### Solar Tracker

- Drive system : double-axle (azimuth, zenith)
- Drive angle azimuth : 300deg ( south: 0deg, west: +, east: -, north: mechanical limit)
- zenith : 90degree (horizontal: 0, zenith: +)
- Resolution : 0.0036degree
- Speed : about 36degree/sec
- Compensation of tracking : sun sensor
- Accuracy of tracking : < 0.15degree
- Ambient temperature : -20-40
- Operating power : AC100V, 2A
- Heater power : AC100V, 5A

- \*Automatic measurement
- \*All weather types
- \*Temperature control
- \*Communication cable 20m
- \*O,S : Windows XP
- \*Starting of a measurement program
- \*A setup of start time
- \*A setup of end time
- \*A setup of a measurement cycle
- \*A measurement result is saved at a daily file.
- \*Measurement wavelength 20 waves can be taken out arbitrarily.
- \*Total wavelength can also be measured.

