Instruments and Scientific Services

SciGlob

# Pandora Sun Photometer

Capitalizing on today's low-cost, miniaturized, fiber-fed hyper-spectral instruments, SciGlob offers the Pandora Sun Photometer for enhanced atmospheric remote sensing.

This precise, modular, and versatile measurement system is capable of measuring total columns and profile information of trace gases such as nitrogen dioxide ($NO_2$), ozone, formaldehyde (HCHO) and others.

Mounted on a microprocessor controlled azimuth, elevation tracker, the system is capable of pointing anywhere in the sky in order to perform direct sun, zenith sky, principal plane, or almucantar observations. Complimentary control software allows automated measurements and virtual monitoring and data transfers over the internet.

Field deployable without requiring large support facilities. Requires only 120/220VAC power and ethernet for remote access.

## *Instrument Specifications*

| | |
|---|---|
| **Elevation Range** | **-10º to +90º** |
| **Azimuth Range** | **360º** |
| **Temperature Range** | **-30º to +40ºC*** |
| **Field of View** | **1.5º *** |
| **Spectral Range** | **290 – 520nm, 400-900nm *** |
| **Spectral Resolution** | **0.6nm, 1.2nm*** |
| **Power** | **120/220VAC** |

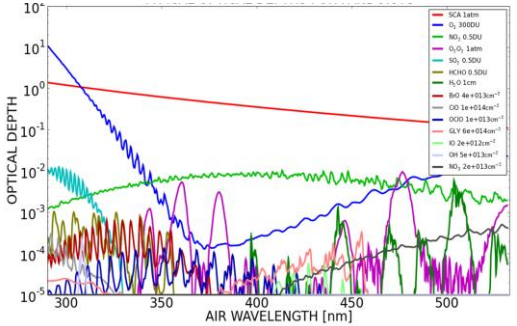
*Configurable based on customer needs

**(Left)** Pandora head sensor on dedicated stand. **(Right)** Head sensor contains up to two filter wheels for polarizers and filters. Internal microcontroller controls tracker and Interfaces with data acquisition computer.

# Join the growing network …

**Satellite Validation**

**Regional Pollution Monitoring**




**Algorithm Development**

**Instrument Inter-comparisons**


***The Pandora Sun Photometer is being used around the world for satellite validation studies, regional pollution monitoring, algorithm development, instrument inter-comparisons, and more. Contact SciGlob today to learn how you can join the growing global community!***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