

PANDORA 2S

SIMULTANEOUS HYPERSPECTRAL OBSERVATIONS FROM 270NM TO 900NM OF DIRECT SUN, MOON, AND SCATTERED SKYLIGHT ARE NOW POSSIBLE WITH THE SciGLOB PANDORA 2S SPECTROMETER SYSTEM. IN ADDITION, THE SYSTEM'S ADAPTABLE NATURE ALLOWS IT TO BE PACKAGED IN A FIELD DEPLOYABLE OR 5U RACK MOUNT ENCLOSURE, MAKING IT PERFECT FOR A FIELD OR LAB SETTING.



Capitalizing on today's low-cost, miniaturized, fiber-fed hyperspectral spectrometers, the Pandora 2S Instrument increases any research station's atmospheric remote sensing capabilities. This precise, modular, and versatile measurement system can measure total columns and profile information of trace gases such as nitrogen dioxide, ozone, formaldehyde, and others.

Mounted on a microprocessor-controlled azimuth, elevation tracker, the Pandora 2S can point anywhere in the sky. Complimentary control software allows automated measurements, remote monitoring, and data transfers over the Internet. As a result, it is field deployable without requiring extensive support facilities.



SPECIFICATIONS

Measurement Principle	Fiber fed, temperature controlled Czerny-Turner spectrometers providing simultaneous observations at all wavelengths	Power Requirements	115VAC, 50/60Hz, <3A 220VAC, 50/60Hz, <2A
Trace gases	Ozone, Sulfur Dioxide, Nitrogen Dioxide, Formaldehyde, Water Vapor, and others	Operating Temperature Range	<0°C to +50°C
Tracking Resolution	0.01°	Spectral Range	270 - 530nm and 400 - 900nm
Detector	2048 pixel CCD or CMOS	Spectral Resolution	0.6nm/UV and 1.1nm/VIS
Operating Software	Windows based Python	Communication	Ethernet
		Remote Computer Access	Yes

We now offer two configurations for the single spectrometer Pandora 1S system: Field Deployable and 5U Rack Mount. The housing of the Field Deployable system is a weather-proof, thermally stabilized case capable of enduring typical outdoor mid-latitude environments. In addition, SciGlob can customize the casing to suit your needs for the more extreme climates.

The 5U Rack Mount configuration fits in a standard 48cm (19") computer server rack for those situations where the system is housed in a trailer or lab. The Rack Mount is thermally stabilized with easy-to-open access panels for maintenance. Both systems provide the same quality optical performance and remote access capabilities coupled to the Pandora 1S Head Sensor and Sun Tracker.

CONFIGURATION SPECIFICATIONS



	FIELD DEPLOYABLE	5U RACK MOUNT
Remote Access	RJ-45 cable, WiFi	RJ-45 cable, WiFi
Weight	23.7 kg (60 lbs)	13.6 kg (30 lbs)
Dimensions	70.9 cm x 56.6 cm x 38.4 cm (27.9 in x 22.3 in x 15.1 in)	48.3 cm x 55.9 cm x 22.2 cm (19 in x 22 in x 8.75)
Power Requirements	110/220 VAC, 50/60 Hz, 2A/3A	110/220 VAC, 50/60 Hz, 2A/3A
Temperature Range	0°C to +50°C	0°C to +50°C