

# *Lunar version Skyradiometer*

## *POM-02M*



- POM-02M measures the spectral intensity of light around the sun and direct light from the sun and moon. This instrument can estimate the particle size distribution and concentration of dust in the atmosphere.
- The sensing unit is mounted on a tracking device, and the tracking sensor captures the position of the sun and moon for automatic tracking.
- The measurement data is processed by a microprocessor and stored in a personal computer. The instrument has a long-wavelength filter to observe clouds while the instrument is in measurement standby.

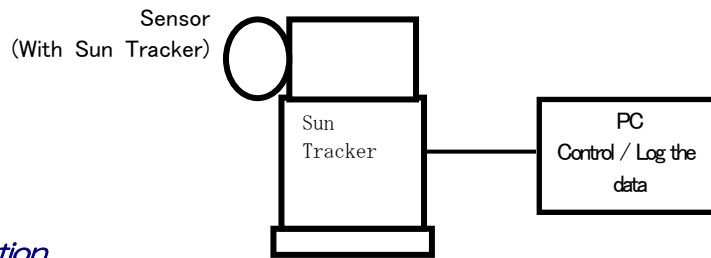
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## Composition



## Specification

NOTE: that specifications are subject to change due to product improvement.

Half view angle	0.5°												
Min. Scattering angle	0,2,3,4,5,7,10,15,20,25,30,40,50,60,70,80,90 . . . . 180 ( ° ) [*Max. 180° ]												
Band width 50%	10nm												
Wavelengths (nm)	Monitor Channel	1	2	3	4	5	6	7	8	9	10	11	
	Wavelength (nm)	315	340	380	400	500	675	870	940	1020	1627	2200	
	*Channel 0 is a dark value. 940 nm is a water vapor absorption band												
Channel Setting	Filter wheel type												
Detector	Short wave length (315nm~1020nm)				Si Photodiode : Hamamatsu Photonics								
	Long wave length (1627nm, 2200nm)				InGaAs Photodiode : Hamamatsu Photonics								
Range	2.5mA , 125A , 6.25uA , 312.5nA , 15.62nA , 781.2pA , 39pA *Auto Control												
Temperature Control and Measurement	20°C (heating control only) Measurement range : Shortλ: 0 to 50degC, Long λ: 0 to -25degC. Option : Cooling Unit (*λ=Wavelength)												
Control Structure	Stepper motor: Azimuth / Zenith angle-2 axes Motor step: 0.0036 ° / pulse												
Tracker range of motion	Azimuth		± 300 ° (0 ° to the south)										
	Zenith		-60 to 160 ° (horizontal 0 ° )										
Position sensor	4-element Si sensor: Made by Hamamatsu Photonics												
Raind sensor	AKI-1801												
Communication	RS-232												
Power consumption	200W (100V/2A)												
Power supply	100 to 240 VAC /2A(50/60Hz)												
Weight	Skylight / Approx. 20kg												
	Cable : Approx. 4kg/20m(Standard)												
Accessories	Power Cable (Standard 20m) Communication cable (20m: standard) * Long-distance transmission cable up to 100m is possible Rain Sensor Shield Tool BOX (equipment fixing bolt screw, hexagon wrench, self-adhesion tape, silica gel) CD-ROM • CD-ROM (For observation software) Case for Sensor tube												