

MS-710

MS-712

Grating Spectroradi

WISER-35170 can obtain contiguous and high resolution spectral data from 350nm to 1700nm by using two grating spectroradimometers, MS-710 covering visible to near-infrared range and MS-712 for near-infrared band.

The models with blower fan, MS-710F and MS-712F can be also provided.



- Continuous outdoor measurements (weatherproof)
- Spectral radiation measurements (W/m²/μm) from visible to near-infrared range
- Traceable with NIST (National Institute of Standard and Technology) standard lamp

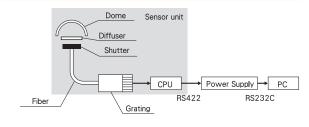
MS-710 features

- Increased channels (4 times in comparison with conventional model, MS-700)
- Short wavelength interval (0.73nm)
- High spectral resolution (<5nm)

MS-712 features

- Short wavelength interval (1.56nm)
- High spectral resolution (<7nm)
- High A/D resolution (16 bit)

STRUCTURE block diagram



APPLICATION

- Long term and continuous observation with weatherproof feature
- · Investigate power generation of PV modules
- · Remote sensing ground truth checking
- · Solar spectrum measurement
- · Research of aerosol
- Research of vegetation (PAR, Photon)
- · Oceanographic (the effect of plankton and red tide etc.)

Specifications

	MS-710, MS-710F	MS-712, MS-712F
Wavelength range	For visible and NIR	For NIR
	350 ~ 1100 nm	900 ~ 1700 nm
Pixel number	1024ch	512ch
Wavelength interval	0.73nm	1.56nm
Spectral resolution(FWHM)	< 5nm	< 7nm
Wavelength accuracy	±0.2nm	±0.2nm
Sensor	Si	InGaAs
A/D resolution	16bit	16bit
Accumulating time	10ms~5000ms	
(Signal measurement time)	Dark current is measured in same accumulating time after each signal measurement.	
Traceability	NIST standard lamp	
Communication interface	RS422/RS232C	
Operating temperature	-10~+40°C	
Weight (main unit)	4.5kg (MS-710)	7.5kg (MS-712)
	7.5 kg (MS-710F)	12kg (MS-712F)
Dimensions (mm)	φ220x175 (MS-710)	φ300x200 (MS-712)
	φ260x240 (MS-710F)	φ310x270 (MS-712F)
	100~240V AC, 50/60Hz	
Power requirements	50W (MS-710)	65W (MS-712)
	66W (MS-710F)	81W (MS-712F)
Software	Measurement function (One time measurement, Scheduled measuremet) Analysis function (Data display, Various data calculation, CSV output)	











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