

WISER I Spectroradiometer

Technical Specifications

Reference for spectral measurements UV-VIS-NIR

Operating temperature range -10 to 50°C

Made for outdoor solar research

Robust design no moving parts

NIST Traceable calibration

For solar spectral research, we believe only one measurement concept can be the best. The combination of MS-711 and MS-712, called WISER I is the reference in the market and designed to provide the most accurate solar spectral data outdoors.

The MS-711 and MS-712 spectroradiometer are unique all weather concept spectroradiometers with no moving parts and temperature controlled spectrometers. The MS-712 can be used stand alone, but in combination with the MS-711 it covers the spectral range from 300nm to 1700nm. MS-711 measures in the range from 300nm and 1100nm, and MS-712 covers the near-infrared (NIR) range between 900nm and 1700nm. Both spectroradiometers are accurately calibrated with traceability to the International Standards and issued with a calibration uncertainty budget.

	WISER I
Wavelength range	300 - 1700 nm (50% points)
Program	Analysis software WSDAc
OS	Microsoft Windows 7/8/9/10
Functions	Display and analyze data
Cable length	10 m
Field of View FOV	180 °

Options	WISER I
Cable length	20 / 30 m

	MS-711
Wavelength range	300 - 1100 nm (50% points)
Optical resolution FWHM	< 7 nm
Wavelength accuracy	+/- 0.2 nm
Directional response at 1000W/m²	< 5 %
Temperature response -10°C to 50°C	< 2 %
Temp. control	25 °C
Operating temperature range	-10 - 50 °C
Exposure time	10 - 5000 msec
Dome material	Quartz
Communication	RS-422 / 232C
Power supply	12VDC, 50VA
Dimensions mm	220 (D) x 197 (H)

Weight	4.5 kg
Ingress protection IP	65
Power supply (Power Adapter)	100-240VAC, 50/60Hz
Power consumption	50 W
Power supply operating conditions	-10 to 40°C / 0 to 90 %RH
Power suply dimensions (mm)	320 (W) x 240 (D) x 80 (H)
Power supply weight	1 kg
Program	Analysis software WSDAc
OS	Microsoft Windows 7/8/9/10
Functions	Display and analyze data
Cable length	10 m
Field of View FOV	180 °

Options	MS-711
Cable length	20 / 30 m

	MS-712
Wavelength range	900 - 1700 nm (50% points)
Optical resolution FWHM	< 7 nm
Wavelength accuracy	+/- 0.2 nm
Temperature response -10°C to 50°C	< 5 %
Temp. control	-5 °C
Operating temperature range	-10 - 40 °C
Exposure time	10 - 5000 msec

Dome material	BK7
Communication	RS-422 / 232C
Power supply	12VDC, 50VA
Dimensions mm	300 (D) x 200 (H)
Weight	7.5 kg
Ingress protection IP	65
Power supply (Power Adapter)	100-240VAC, 50/60Hz
Power consumption	65 W
Power supply operating conditions	-10 to 40°C / 0 to 90 %RH
Power supply dimensions (mm)	320 (W) x 240 (D) x 180 (H)
Power supply weight	1 kg
Program	Analysis software WSDAc
OS	Microsoft Windows 7/8/9/10
Functions	Display and analyze data
Cable length	10 m
Field of View FOV	180 °

Options	MS-712
Cable length	20 / 30 m

Specifications are subject to change without further notice.