

WISER II 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-713, called WISER II is the reference in the market and designed to provide the most accurate solar spectral data outdoors.

The MS-711 and MS-713 spectroradiometer are unique all weather concept spectroradiometers with no moving parts and temperature controlled spectrometers. The MS-713 can be used stand alone, but in combination with the MS-711 it covers the spectral range from 300nm to 2500nm. MS-711 measures in the range from 300nm and 1100nm, and MS-713 covers the near-infrared (NIR) range between 900nm and 2500nm. Both spectroradiometers are accurately calibrated with traceability to the International Standards and issued with a calibration uncertainty budget.

	WISER II
Wavelength range	300 - 2500 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 II
Cable length	20 / 30 m

	MS-713
Wavelength range	900 - 2500 nm (50% points)
Optical resolution FWHM	< 20 nm
Wavelength accuracy	+/- 2 nm
Directional response at 1000W/m²	< 3 %
Temperature response -10°C to 50°C	< 2 %
Temp. control	-20 °C
Operating temperature range	-30 - 50 °C
Exposure time	1 - 40 msec
Dome material	Quartz
Communication	RS-422 / 232C
Power supply	12VDC, 85VA
Dimensions mm	300 (D) x 200 (H)

Weight	7.5 kg
Power supply (Power Adapter)	100-240VAC, 50/60Hz
Power consumption	90 W
Power supply operating conditions	-10 to 40°C / 0 to 90 %RH
Power supply dimensions (mm)	320 (W) x 240 (D) x 120 (H)
Power supply weight	1 kg
Program	Analysis software WSDAc
OS	Microsoft Windows 7/8/9/10
Functions	Display and analyze data
Ingress protection IP	65
Cable length	10 m
Field of View FOV	180 °

Options	MS-713
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/m ²	< 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 supply 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

Specifications are subject to change without further notice.