

SPECTROMETER SPEKTRI 80

PORTABLE DEVICE FOR MEASURING

- ✓ Illuminance, color temperature CCT, color coordinates (x,y) (u'v')
- ✓ Spectral power distribution and wavelength
- ✓ Photosynthetically active radiation density
- ✓ Flicker parameters



SPEKTRI 80 - SPECIFICATION

DEVICE CODE	SSL S-80								
Application area	Spectroradiometer for measuring photometric, colorimetric and spectral parameters in the field and laboratory.								
Measurement scope	Photometry and colorimetry	Color evaluation	Flicker	Spectral radiation	Photosynthetically active radiation (PAR)				
Parameters	- Spectral irradiance [W/nm/m ²] - Illuminance E _v [lx], - Correlated color temperature CCT [K], - CIE Chromaticity coordinates (x,y) CIE 1931, (u,v) CIE 1964, (u',v') CIE 1976	- Color rendering index CRI: R _a , R ₁ to R ₁₄ - TM-30-18: R _f , R _g , color vector graphic, - Standard deviation color matching SDCM	- Percent flicker (%) - Flicker Index - Flicker Frequency - Flicker risk IEEE1789	Irradiance [mW/cm ²] Effective wavelength I _{eff} [nm] Peak wavelength I _p [nm]	PAR unit: [mmol/m ² /s] PPFD 400-700nm PFD-B 400-500nm PFD-G 500-600nm PFD-R 600-700nm PFD-UV 320-400nm PFD-FR 700-780nm				
Calibration	Factory calibration traceable to MIKES								
Illuminance Meter Class	Directional response conforms to DIN 5032 Part 7 Class B								
MODELS									
Product code	Product Name	E _v	Flicker	CCT	SDCM	CRI / TM30	E _e / WL	PAR	Other
S-80.Ee	SPEKTRI 80, Irradiance	✓					✓		
S-80.PAR	SPEKTRI 80, PAR	✓		✓				✓	
S-80.ColorLux	SPEKTRI 80, ColorLux	✓	✓	✓	✓	✓			
S-80.PRO	SPEKTRI 80, Prof	✓	✓	✓	✓	✓	✓	✓	EXE software
SPECTRAL SENSOR									
Range of measurement	5 – 100 000 lx				Wavelength (WL) range		320 – 780 nm		
Sensor	CMOS diode array				Signal to noise		1000 : 1		
Optical Bandwidth	9 – 11nm				Integration time		10 – 30 000 ms		
WL resolution	1 nm				Digital resolution		16 bits		
Accuracy	Illuminance 3%, CCT 3%, CRI, R _a 2%, WL 1nm								
FLICKER SENSOR									
Digital Resolution	12 bits								
Illuminance range	10-200 000 lx								
Sampling rate	200 000 samples/s								
Frequency range	0 – 10 kHz								
OTHER									
Data readout	Android app through Bluetooth PC software through USB 2.0 (type B USB)								
Dimensions	118mm x 78mm x 42mm								
Weight	300 g								