

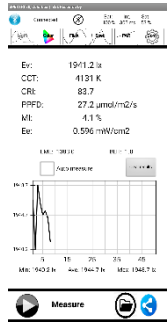
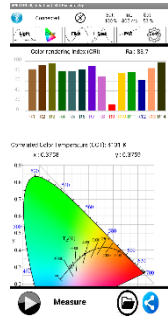
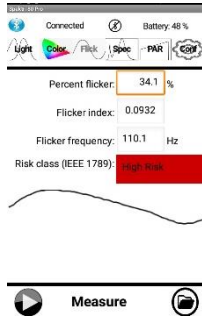
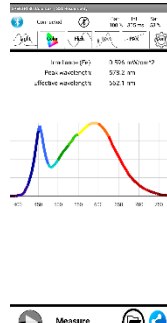
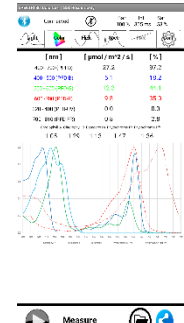
# SPECTROMETER SPEKTRI 80

## 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

<b>DEVICE CODE</b>	<b>SSL S-80</b>								
Application area	Spectroradiometer for measuring photometric, colorimetric and spectral parameters in the field and laboratory.								
Measurement scope	Light Ev	Color evaluation	Flicker	Spectral radiation	PAR				
Parameters	<ul style="list-style-type: none"> <li>- Illuminance Ev [lx],</li> <li>- Correlated color temperature CCT [K],</li> <li>- CIE Chromaticity coordinates (x,y)</li> <li>- CIE 1931, (u,v) CIE 1964, (u',v') CIE 1976</li> </ul> 	<ul style="list-style-type: none"> <li>- Color rendering index CRI: Ra, R1 to R14</li> <li>- TM-30-18: Rf, Rg, color vector graphic,</li> <li>- Standard deviation color matching SDCM</li> </ul> 	<ul style="list-style-type: none"> <li>- Percent flicker (%)</li> <li>- Flicker Index</li> <li>- Flicker Frequency</li> <li>- Flicker risk</li> <li>IEEE1789</li> </ul> 	<ul style="list-style-type: none"> <li>- Spectral irradiance [W/nm/m²]</li> <li>- Irradiance [mW/cm²]</li> <li>- Effective wavelength <math>\lambda_{eff}</math> [nm]</li> <li>- Peak wavelength <math>\lambda_p</math> [nm]</li> </ul> 	<ul style="list-style-type: none"> <li>unit: [mmol/m²/s]</li> <li>- PPF 400-700nm</li> <li>- PPF-B 400-500nm</li> <li>- PPF-G 500-600nm</li> <li>- PPF-R 600-700nm</li> <li>- PPF-UV 380-400nm</li> <li>- PPF-FR 700-780nm</li> </ul> 				
Calibration	Factory calibration traceable to MIKES / NIST								
Meter Class	Directional response conforms to DIN 5032 Part 7 Class B								
<b>MODELS</b>									
Product code	Product Name	Ev	Flicker	CCT	SDCM	CRI / TM30	Ee / 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
<b>SPECTRAL SENSOR</b>									
Measurement range	Illuminance	PPFD		Optical Bandwidth			9 – 11 nm		
	25 – 100 000 lx	0.5 – 2000 $\mu\text{mol/s/m}^2$							
Sensor	CMOS diode array			WL resolution			1 nm		
Signal to noise	1000 : 1			Wavelength (WL) range			380 – 780 nm		
Accuracy	Illuminance 3%, CCT 3%, CRI, Ra 2%, WL 1nm			Integration time			10 – 30 000 ms		
				Digital resolution			16 bits		
<b>FLICKER SENSOR (only S-80.Colorlux and S-80.PRO)</b>									
Digital Resolution	12 bits		Sampling rate			200 000 samples/s			
Illuminance range	100-200 000 lx		Frequency range			0 – 10 kHz			
<b>OTHER</b>									
Data readout	Android app through Bluetooth, PC software through USB 2.0 (type B USB)								
Dimensions	118mm x 78mm x 42mm								
Weight	230 g								