

## NWS1000 Micro Spectrometer

### Description

NWS1000 Micro spectrometer, produced by NWSPEC, employs M optical structure with a grating, a line-array photo detector, a SMA905 fiber connector, a Type-C USB and a RS232 communication interface, which can be powered by computer or an external power supplier. It features broadband spectrum, large dynamic range, mini factor and a pleasant looking structure. The software is highly user-friendly, featuring automatic configuring of the spectrometer and reading of calibration coefficients, the spectrum acquisition. The software interface directly shows the spectral curve of wavelength and intensity. The spectrum measurement function includes irradiance, transmission, absorption measurements and reflection etc.

### Applications

Emission, fluorescence, absorption, and reflection measurements, such as LED light source inspection and color measurement etc.

### Specifications

Items	Index
Fiber Connector	SMA 905
Entrance Slit	10, 25, 50, 100 $\mu$ m
Wavelength Range	350-830nm
Spectrum Resolution	FWHM 3nm@Hg 365nm @25 $\mu$ m slit
Sorting Filter	Eliminating higher order spectra
Light Detector	Line-array photo detector
SNR	700:1
ADC Resolution	16 bits
Integration Time	1ms-15min
Power Supply	5V@100mA
Communications	Type-C USB or RS232
Data Output	Count vs. wavelength or pixel
	1-100 times
Data Average	
Data Interception	1-1500 pixels
Operation Software	SPEC-GLA600
API	glaDevSys
Dimensions	63mmx53mmx27mm
Weight	150g
Mounting	4x M3 screw holes on the bottom
Operation Temperature	-10-50 $^{\circ}$ C
Storage Temperature	-20-70 $^{\circ}$ C

## Mechanical Dimensions

