

NWS5800 Spectrometer

Description

The series of micro spectrometers is a network port version of spectrometer developed specifically for industrial on-site testing and applications requiring long-distance communication transmission. It supports three communication methods: Ethernet, USB, and serial port. When using Ethernet communication, multiple devices can be integrated through a switch, with a maximum of 100 devices being able to be used simultaneously online, making it highly suitable for multi-channel testing requirements.

Recommended application

Product Features:

Semiconductor testing Low drift

Film thickness measurement Low stray light

Light intensity detection Higher cost

performance

Online component detection in biomedicine Network interface

communication

Fruit sugar content

detection Long-distance data transmission

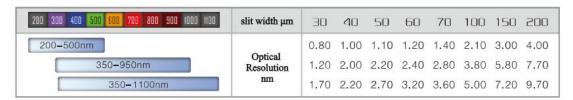
Teaching and research Multiple

integration capabilities

Spectral Specification	
Spectral Range	200- 1100nm (according to the selection table)
Spectral Resolution	Maximum 0.17nm
Optical Resolution	Maximum 0.8nm FWHM (according to the selection table)
Higher-Order Diffraction	Add high-order diffraction suppression filter (optional)
Stray Light	< 0.1%
Detector	
Detector Model	Hamamatsu CMOS Linear Array Sensor



Spectral Detection Range	200~1100nm
Pixel	2048 pixels
Pixel Size	14*200um
High Sensitivity	1300V(lx*s)
Fastest Speed	10M
Optical Table	
Optical Path	F/4, symmetrical crossed Czermy-Turner optical path
Focal Length	70mm, 90mm
Incident Slit	Standard 70um (optional)
Optical Fiber	SMA905 0.22NA
Electrical Specification	
Signal-to-Noise Ratio	430:1
Linearity	>99%
Integration Time	0.4ms~1000ms
Dynamic Range	1500 : 1
AD	No distortion 16-bit
Test Speed	2.8ms + integration time for USB 3.3ms+ integration time for Erthernet
Communication Interface	USB 2.0, RS232, RS485
Power Consumption	16-pin external expansion interface; with external trigger function
Cooling	300mA@5VDC
Other Characteristics	
Support System	Windows, Android, Linux, Wince
Dimensions	127.4mm*98mm*40mm
Weight	800g
Fixed	3-direction standard installation holes



Note: optical resolution refer to FWHM at 253.7nm.

Special customization and OEM services are available. Please contact our sales department!