

1000 -1650 nm Spectrometers

(low cost, high sensitivity, USB)

Patent pending

Product Description

This SFSD series of Spectrometer is based on a patent pending scanning technology, offering unprecedented benefits: 1) extending spectral bands beyond traditional spectrometers' coverage; 2) eliminating detector array resulting in low cost and low power; 3) deeply cooling the for ultra-high sensitivity; 4) providing extremely broad spectral coverages. The spectrometer has photon integration option for low noise detection and has USB or RS232 interface along with a user friendly GUI. OEM module is also available.



Performance Specifications

Parameter	Min	Typical	Max	Unit
Center Wavelength	1000		1650	nm
Resolution Bandwidth	0.2	0.4		nm
Wavelength Accuracy	0.05	0.08	0.1	nm
Wavelength Repeatability	-	+20	+100	pm
PDL	-	0.15	0.35	dB
Noise Floor	-110		-60	dBm
Wavelength Accuracy		+0.05	-	nm
Power Accuracy		+0.05	-	dB
Scan Time	1			s
Input Optical Power	Standard version	-	0.3	W
	High power version		5	W
Electronic Interface			Mini USB	
Operating Temperature	0	20	60	° C
Storage Temperature	-10	-	70	° C

PRELIMINARY

Features

- DWDM
- Low Cost
- Ease to Use

Applications

- Network
- Testing
- Instrumentation

Dimensions (Unit: mm)

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Electrical/Computer Connection

12V DC power input, a wall pluggable power supply is provided
 About 1 W electrical power consumption

Ordering Information

SPFD-	0 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type	Wavelength *	Optical Power	Cooling	Fiber Type		Fiber Length	Connector	
module	1580-1660nm=1 1510-1590nm= 2 1440-1520nm= 3 1280-1350nm= 4 1020-1100nm= 5 960 - 1050nm= 6 1510-1660nm =a 1440-1590nm =b 1280-1520nm =c 1020-1350nm =d 960 -1100nm =e 1280-1660nm = A 1020-1590nm = B 960 -1520nm =C 960 - 1660nm =E Special = 0	Standard = 1 High Power=2	Non = 1 -10C=2 -20C=3 -30C=4 -40C=5 Special=0	SMF-28 = 1	900um tube=3	0.25m= 1	None = 1	
				PM1550 = 2	Special=0	0.5m = 2	FC/PC = 2	
				SM2000 = 3		1.0 m= 3	FC/APC = 3	
				PM2000 = 4		Special =0	SC/PC = 4	
				SM1950 =5			SC/APC = 5	
				PM1950 =6			ST/PC = 6	
				Special = 0			LC = 7	
							Special = 0	

- Broad spectral range cost more