## $2 \mu \mathrm{~m}$ Spectrometer <br> (low cost, high sensitivity, USB)

Patent pending

## Product Description

This SMFD series of Spectrometer is based on a patent pending scanning technology, offering unprecedent 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.


## Applications

- Sensor
- Testing
- Instrumentation


## Performance Specifications


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

## Electrical/Computer Connection

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

## Ordering Information

| SMFD- | 01 | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Type | Wavelength * | Optical Power | Cooling | Fiber Type |  | Fiber Length | Connector |
| 4 | module | $\begin{aligned} & 2040-2160 \mathrm{~nm}=1 \\ & 1950-2050 \mathrm{~nm}=2 \\ & 1920-200 \mathrm{~nm}=3 \\ & 1800-1950 \mathrm{~nm}=4 \\ & 1950-2160 \mathrm{~nm}=\mathrm{a} \\ & 1920-2050 \mathrm{~nm}=\mathrm{b} \\ & 1800-2000 \mathrm{~nm}=\mathrm{C} \\ & \\ & 1920-2160 \mathrm{~nm}=\mathrm{A} \\ & 1800-2050 \mathrm{~nm}=\mathrm{B} \\ & 1800-2160 \mathrm{~nm}=\mathrm{C} \\ & \text { Special = } 0 \end{aligned}$ | Standard = 1 <br> High Power=2 | $\begin{aligned} & \text { Non }=1 \\ & -10 C=2 \\ & -20 C=3 \\ & -30 C=4 \\ & -40 C=5 \\ & \text { Special }=0 \end{aligned}$ | $\begin{aligned} & \text { SMF-28 }=1 \\ & \text { PM1550 }=2 \\ & \text { SM2000 }=3 \\ & \text { PM2000 }=4 \\ & \text { SM1950 }=5 \\ & \text { PM1950 }=6 \\ & \text { Special }=0 \end{aligned}$ | 900um tube=3 <br> Special=0 | $\begin{aligned} & 0.25 m=1 \\ & 0.5 m=2 \\ & 1.0 \mathrm{~m}=3 \\ & \text { Special }=0 \end{aligned}$ | $\begin{aligned} & \text { None = } 1 \\ & \text { FC/PC }=2 \\ & \text { FC } / \mathrm{APC}=3 \\ & \text { SC } / \mathrm{PC}=4 \\ & \text { SC } / \mathrm{APC}=5 \\ & \text { ST/PC }=6 \\ & \text { LC }=7 \\ & \text { Special }=0 \end{aligned}$ |

- Broad spectral range cost more

