

高分辨率光纤光谱仪



BIM-66 系列

- 交叉非对称C-T光路结构
- 干涉滤光片消二级衍射
- SMA905光纤接口，方便地通过光纤和其他设备连接
- 可选择的波长范围和 ≤ 0.3 nm的光学分辨率
- USB2.0数据传输和供电

BIM-66 系列光纤光谱仪采用高分辨率光机平台，较小的体积，非常方便携带。优化的光路设计使光学分辨率优于 0.3nm。用户通过选择不同的光栅配置可以获得不同的光学分辨率和光谱响应范围。为了满足不同的需求，我们提供波长响应范围为 300nm-1100nm 和 200nm-1000nm 的探测器供用户选择。

应用

- 发射谱和吸收谱的测量
- 生物学
- 激光光谱测试系统
- 透过率和吸收率的测量
- 荧光检测
- 其他需要进行光谱测量的领域

规格

	BIM-6601	BIM-6602
尺寸	137 mm x 110 mm x 46mm	137 mm x 110 mm x 46mm
重量	0.7 Kg	0.7 Kg
探测器波长范围	300 nm-1100 nm	200 nm-1000 nm
光学分辨率	≤ 0.3 nm	≤ 0.3 nm
光纤连接器	SMA905	SMA905
探测器	TOSHIBA TCD1304 线阵 CCD	2048 线阵 CCD
像元	3648 个像元 每个像元 8 μ m x 200 μ m	2048 个像元 每个像元 14 μ m x 200 μ m
信噪比	300:1 全光谱	2000:1 全光谱
A/D 分辨率	12 bit	12 bit
积分时间	4 ms-10 s	1 ms-6.5 s
功耗	250 mA, 5 VDC	250 mA, 5 VDC
环境温度(推荐温度)	15 $^{\circ}$ C -30 $^{\circ}$ C (25 $^{\circ}$ C)	15 $^{\circ}$ C -30 $^{\circ}$ C (25 $^{\circ}$ C)
通讯接口	USB2.0	USB2.0
操作系统	Win XP, Win7 & Win8	Win XP, Win7 & Win8

订购信息

订购编号	光栅 (1/mm)	波长范围 (nm)	狭缝 (μ m)	分辨率 (nm)
BIM-6601-01	1200	400-620	25	≤ 0.3
BIM-6602-01	1200	200-420	25	≤ 0.3

注：以上是预配置型，我们的工程师可以根据您的波长范围和分辨率需求，为您定制相应配置的光谱仪。

No.	材料单	型号 #	数量
1	塑料光纤 (可选)	BIM-6101	1
2	石英光纤 (可选)	BIM-6102	1
3	卤钨灯光源 (可选)	BIM-6201	1

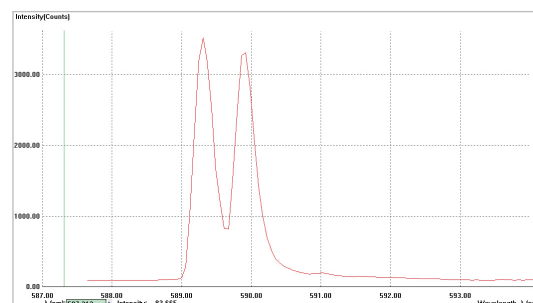


BIM-6101 塑料光纤



BIM-6102 石英光纤

测试结果



图示：钠灯谱线 589.6nm和589.9nm

High Resolution Fiber Spectrometer



BIM-66 Series

- Crossed Czerny-Turner optical design
- Interference filter to eliminate the secondary diffraction light
- Standard SMA905 fiber optic connector SMA905
- Optional wavelength ranges and $\le 0.3\text{ nm}$ optical resolutions are available
- USB 2.0 for data transmission and power supply

BIM-66 series fiber spectrometer uses high resolution optical and mechanical platform. The size is small which makes it very convenient to carry. The optical resolution can be better than 0.3nm. Models are also available in 300nm - 1100nm, 200nm - 1000nm or even custom made.

Application

- Emission and absorption spectra
- Biomedicine
- Laser spectral test
- Transmissivity and absorptivity
- Fluorescence measurement
- Other spectral measurement

Specification

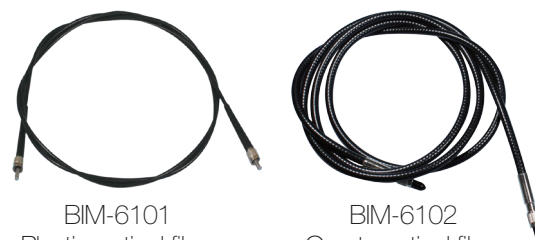
	BIM-6601	BIM-6602
Dimensions	137 mm x 110 mm x 46mm	137 mm x 110 mm x 46mm
Weight	0.7 Kg	0.7 Kg
Detector spectral response	300 nm-1100 nm	200 nm-1000 nm
Optical resolution	$\le 0.3\text{ nm}$	$\le 0.3\text{ nm}$
Fiber optic connector	SMA905	SMA905
Detector	TOSHIBA TCD1304 linear CCD	2048 linear CCD
Pixel	3648 pixels Size 8 μm x 200 μm	2048 pixels Size 14 μm x 200 μm
Signal-to-noise ratio	300:1 at full signal	2000:1 at full signal
A/D resolution	12 bit	12 bit
Integration time	4 ms-10 s	1 ms-6.5 s
Power consumption	250 mA, 5 VDC	250 mA, 5 VDC
Operating temperature (typical)	15°C -30°C (25°C)	15°C -30°C (25°C)
Computer interface	USB2.0	USB2.0
Operating system	Win XP, Win7 & Win8	Win XP, Win7 & Win8

Order information

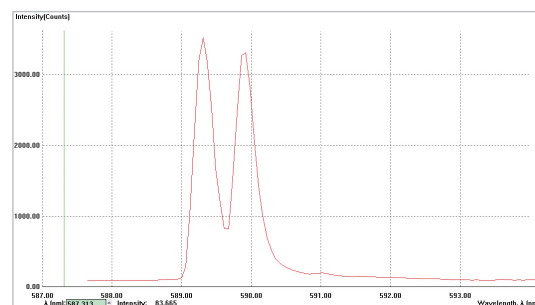
	Grating (l/mm)	Wavelength range (nm)	Slit (μm)	Resolution (nm)
BIM-6601-01	1200	400-620	25	≤ 0.3
BIM-6602-01	1200	200-420	25	≤ 0.3

Note: Please talk to us if you have a special requirement in Grating, Wavelength range and Resolution.

No.	List	Model#	Amount
1	Plastic optical fiber	BIM-6101	1
2	Quartz optical fiber	BIM-6102	1
3	Tungsten light source	BIM-6201	1



Typical



Sodium lamp spectrum 589 nm and 589.6 nm