Fiber Spectrometer

BIM-60 Series

- Handy and Compact, size is as small as a name card
- Crossed Czerny-Turner optical design
- Interference filter to eliminate the secondary diffraction light
- Standard SMA905 fiber optic connector SMA905
- Two wavelength ranges and 0.35nm~1nm optical resolutions are available
- Optional detector
- 4ms-10s integration time 4ms-10s
- USB 2.0 for data transmission and power supply

BIM-60 series fiber spectrometer uses special designed optical and mechanical platform. The size is as compact as a name card which makes it very convenient to carry. The optical resolution can be down to 0.35nm. Models are also available in 300nm - 1100nm, 200nm - 1000nm or even custom made.

Application

- Emission and absorption spectra
- Transmissivity and absorptivity
- Products spectral analysis like LED, Sunglasses, Clothes, etc
- Solar spectral measurement
- Fluorescence measurement
- Laser spectral test
- Other spectral measurement

Specification

	BIM-6001	BIM-6002
Dimensions	91 mm × 60 mm × 34.5 mm	91 mm × 60 mm × 34.5 mm
Weight	0.3 Kg	0.3 Kg
Detector spectral response	300 nm-1100 nm	200 nm-1000 nm
Optical resolution	0.35 nm~1 nm	0.35 nm~1 nm
Fiber optic connector	SMA905	SMA905
Detector	TOSHIBA TCD1304 linear CCD	2048 linear CCD
Pixel	3648 pixels Size 8 μm × 200 μm	2048 pixels Size 14 μm × 200 μm
Sigal-to-nosie ratio	300:1 at full signal	2000:1 at full signal
A/D resolution	12 bit	12 bit
Integration time	4 ms-10 s	4 ms-10 s
Power consumption	250 mA, 5 VDC	250 mA, 5 VDC
Operating temperature	5℃ -35℃	5℃ -35℃
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-6001-01	600	300-800	25	≤1
BIM-6001-02	600	400-1100	25	≤1
BIM-6001-03	1200	350-700	25	≤0.5
BIM-6001-04	1800	350-588	25	≤0.35
BIM-6002-01	600	200-900	25	≤1
BIM-6002-02	1200	200-550	25	≤0.5
BIM-6002-03	1800	200-433	25	≤0.35

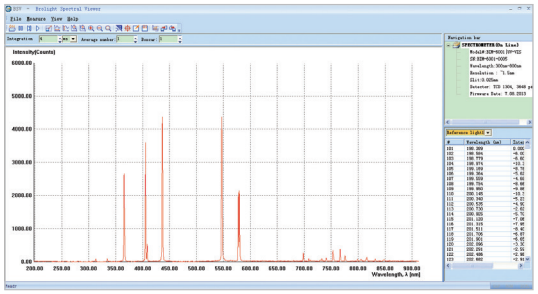
Note: Please talk to us if you have a special requirement in Grating, Wavelength range and Resolution.

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

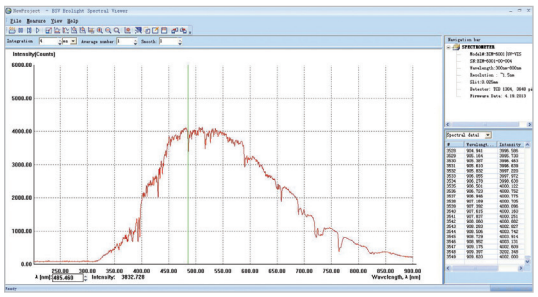
BIM-6101
Plastic optical fiber

BIM-6102
Quartz optical fiber

Typical



Hg lamp spectrum



Solar spectrum

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 ≤0.3 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 × 110 mm × 46mm	137 mm × 110 mm × 46mm
Weight	0.7 Kg	0.7 Kg
Detector spectral response	300 nm-1100 nm	200 nm-1000 nm
Optical resolution	≤0.3 nm	≤0.3 nm
Fiber optic connector	SMA905	SMA905
Detector	TOSHIBA TCD1304 linear CCD	2048 linear CCD
Pixel	3648 pixels Size 8 μm × 200 μm	2048 pixels Size 14 μm × 200 μm
Sigal-to-nosie ratio	300:1 at full signal	2000:1 at full signal
A/D resolution	12 bit	12 bit
Integration time	4 ms-10 s	4ms-10 s
Power consumption	250 mA, 5 VDC	250 mA, 5 VDC
Operating temperature (typical)	15℃ -30℃ (25℃)	15℃ -30℃ (25℃)
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

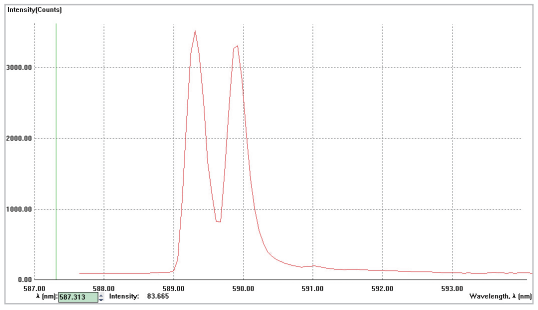
Note: Please talk to us if you have a special requirement in Grating, Wavelength range and Resolution.

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

BIM-6101
Plastic optical fiber

BIM-6102
Quartz optical fiber

Typical



Sodium lamp spectrum 589 nm and 589.6 nm