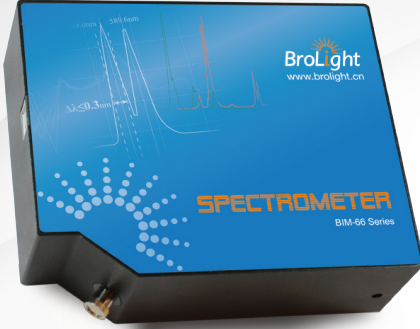


# High Resolution Spectrometer

## BIM-66 Series

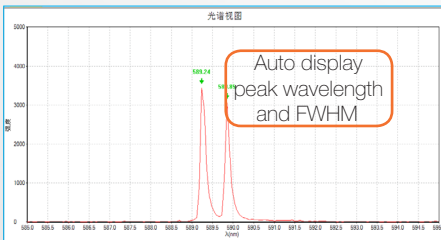


BIM-66 Series

- Crossed Czerny-turner optical design
- Interference filter to eliminate the secondary diffraction spectrum
- Standard SMA905 fiber connector
- Wavelength range and optical resolutions are selectable
- USB 2.0 for data transmission and power supply.
- Support RS232/RS422
- Support multiple-trigger model
- Cylindrical lens is selectable
- Auto display peak wavelength and FWHM

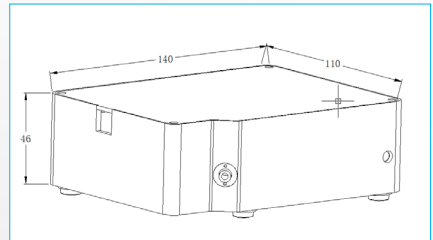
BIM-66 series spectrometer adopts high resolution optical-mechanical structure. It is compact and portable. The resolution is up to 0.05nm. Customers can choose different gratings to acquire different resolution and wavelength range. In order to meet different needs, we provide two different detectors with 300nm-1100nm and 200nm-1050nm for option. The BIM-6602A series spectrometer has a great upgrade in circuit. The dynamic range is enhanced to 10000:1 and the minimum integration time is reduced to 0.5ms. Meanwhile the signal noise ratio is improved to 600:1. All improvements are more suitable for weak-signal measurement. The RS232 interface is supported and enhances anti-jamming performance which is more beneficial for industrial use.

### Typical spectrum



Sodium lamp spectrum

### Dimension



## Specifications:

Model	BIM-6601	BIM-6602	BIM-6602A
Dimension	140mm x 110mm x4 6mm		
Weight	0.7Kg		
Detector spectral response	300nm -1100nm	180nm -1100nm	
Optical system spectral range	Depend on gratings		
Optical resolution	0.05nm-0.3nm		
Fiber optic connector	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	300:1 at full signal	600:1 at full signal
Linearity	>99%		
Stray light	<0.1% (600nm, 435nm)		
A/D resolution	12bits	16bit	
Integration time	4ms-10s		0.5ms-10s
Dynamic range	300:1	5000:1	10000:1
Trigger mode	Software, hardware, synchronization		
Power consumption	250 mA, 5 VDC		
Operating temperature	5°C -35°C ( 25°C )		
Computer interface	USB2.0, 12Mbps		USB2.0,12Mbps RS232/RS422, 115200bps
Operating system	Win XP, Win7 , Win8, Win10		
Slit	10,25,50μm optional		
Power supply mode	USB		USB or 5VDC(RS232/ RS422)

## Order information:

Order No.	Wavelength coverage (nm)	Resolution (nm)	Slit (μm)*	Grating (lp/mm)	A/D (bit)	cylindrical lens
BIM-6602A-02	200-1000	~0.6	10	300	16	No
BIM-6602A-03	380-900	~0.4	10	500	16	No
BIM-6602A-01	200-420	~0.3	10	1200	16	No
BIM-6601-01	400-620	~0.3	10	1200	16	No
BIM-6601-05	900-1050	~0.2	10	1800	12	No
BIM-6601-06	355-495	~0.1	10	1800	12	No
BIM-6601-07	510-650	~0.1	10	1800	12	No
BIM-6601-04	750-870	~0.1	10	1800	12	No
BIM-6601-02	890-990	~0.1	10	1800	12	No
BIM-6601-03	1005-1080	~0.1	10	1800	12	No

### Note:

- Above are our standard items. We can also OEM/ODM for you according to your requirement. More information about OEM/ODM, please turn to Page 2.
- Cylindrical lens is optional(Model No.:BC113005).