

YSM-8101-02 Series UV-NIR Miniature Spectrometer

Description



YSM-8101-02 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 week signal spectrum measurement.

The RS232 interface is supported, and enhances anti-jamming performance, which is more beneficial for industrial customers.

Model List

Model	Wavelength Range	Sub Model	Resolution	Slit	Grating	Filter	Lens
YSM-8101-02-01	200-900nm	16S03L00F06G01	~ 1nm	25μm	600g/mm, 400nm	F06	--
		16S03L02F06G01	~ 1nm	25μm	600g/mm, 400nm	F06	L02
		16S04L00F06G01	~ 2nm	50μm	600g/mm, 400nm	F06	--
		16S04L02F06G01	~ 2nm	50μm	600g/mm, 400nm	F06	L02
		16S04L02F06G17	~ 2nm	50μm	600g/mm, 250nm	F06	L02
		16S04L02F06G02	~ 2nm	50μm	600g/mm, 650nm	F06	L02
YSM-8101-02-02	200-550nm	16S05L02F06G01	~ 5nm	100μm	600g/mm, 400nm	F06	L02
YSM-8101-02-02	200-550nm	16S03L00F00G03	~ 0.5nm	25μm	1200g/mm, 400nm	--	--
YSM-8101-02-03	200-433nm	16S03L00F00G06	~ 0.35nm	25μm	1800g/mm, 250nm	--	--
YSM-8101-02-04	750-1100nm	16S02L00F08G05	~ 0.35nm	10μm	1200g/mm, 850nm	F08	--
		16S04L01F08G05	~ 1nm	50μm	1200g/mm, 850nm	F08	L01
		16S03L01F08G05	~ 0.5nm	25μm	1200g/mm, 850nm	F08	L01
YSM-8101-02-05	350-1050nm	16S03L00F05G02	~ 1nm	25μm	600g/mm, 650nm	F05	--
		16S03L01F05G02	~ 1nm	25μm	600g/mm, 650nm	F05	L01
		16S04L00F05G02	~ 2nm	50μm	600g/mm, 650nm	F05	--
		16S04L01F05G02	~ 2nm	50μm	600g/mm, 650nm	F05	L01
		16S04L01F05G18	~ 2nm	50μm	600g/mm, 500nm	F05	L01
		16S05L01F05G02	~ 4nm	100μm	600g/mm, 650nm	F05	L01
YSM-8101-02-06	260-493nm	16S05L01F05G18	~ 4nm	100μm	600g/mm, 500nm	F05	L01
YSM-8101-02-06	260-493nm	16S03L00F00G04	~ 0.35nm	25μm	1800g/mm, 400nm	--	--
YSM-8101-02-07	500-850nm	16S03L00F00G03	~ 0.5nm	25μm	1200g/mm, 400nm	--	--
YSM-8101-02-08	180-413nm	16S03L00F00G06	~ 0.35nm	25μm	1800g/mm, 250nm	--	--
		16S04L00F00G06	~ 0.7nm	50μm	1800g/mm, 250nm	--	--
		16S05L00F00G06	~ 1.4nm	100μm	1800g/mm, 250nm	--	--
YSM-8101-02-09	180-530nm	16S03L00F00G07	~ 0.5nm	25μm	1200g/mm, 250nm	--	--
YSM-8101-02-10	300-1000nm	16S03L00F06G02	~ 1nm	25μm	600g/mm, 650nm	F06	--
		16S03L02F06G02	~ 1nm	25μm	600g/mm, 650nm	F06	L02
		16S04L02F06G01	~ 2nm	50μm	600g/mm, 400nm	F06	L02
YSM-8101-02-11	200-1000nm	16S03L00F06G13	~ 1.5nm	25μm	500g/mm, 330nm	F06	--
		16S03L02F06G13	~ 1.5nm	25μm	500g/mm, 330nm	F06	L02
		16S04L02F06G16	~ 3nm	50μm	500g/mm, 560nm	F06	L02
YSM-8101-02-12	350-700nm	16S03L00F00G03	~ 0.5nm	25μm	1200g/mm, 400nm	--	--
		16S04L00F00G03	~ 1nm	50μm	1200g/mm, 400nm	--	--
YIM-6002A-13	400-1100nm	16S03L00F05G02	~ 1nm	25μm	600g/mm, 650nm	F05	--
		16S03L01F05G02	~ 1nm	25μm	600g/mm, 650nm	F05	L01
		16S04L01F05G02	~ 2nm	50μm	600g/mm, 650nm	F05	L01
YSM-8101-02-14	650-1000nm	16S03L01F08G15	~ 0.5nm	25μm	1200g/mm, 750nm	F08	L01
YSM-8101-02-15	300-650nm	16S03L00F00G03	~ 0.5nm	25μm	1200g/mm, 400nm	--	--
YSM-8101-02-16	700-1050nm	16S03L00F08G05	~ 0.5nm	25μm	1200g/mm, 850nm	F08	--
YSM-8101-02-17	260-960nm	16S04L02F06G01	~ 2nm	50μm	600g/mm, 400nm	F06	L02
YSM-8101-02-18	300-1100nm	16S03L02F06G16	~ 1.5nm	25μm	500g/mm, 560nm	F06	L02
YSM-8101-02-19	450-800nm	16S07L01F00G20	~ 4nm	200μm	1200g/mm, 600nm	--	L01
		16S04L01F05G31	~ 0.6nm	50μm	1800g/mm, 500nm	F05	L01
YSM-8101-02-20	535-760nm	16S03L01F05G31	~ 0.3nm	25μm	1800g/mm, 500nm	F05	L01
		16S03L00F05G19	~ 0.8nm	25μm	964g/mm, 520nm	F05	--
YSM-8101-02-21	400-850nm	16S03L00F00G20	~ 0.5nm	25μm	1200g/mm, 600nm	--	--
YSM-8101-02-24	430-780nm	16S03L00F00G20	~ 0.5nm	25μm	1200g/mm, 600nm	--	--
YSM-8101-02-25	180-880nm	16S03L02F06G17	~ 1nm	25μm	600g/mm, 250nm	F06	L02
YSM-8101-02-26	380nm-730nm	16S01L00F00G03	~ 0.4nm	5μm	1200g/mm, 400nm	--	--
YSM-8101-02-27	460nm-683nm	16S02L00F00G31	~ 0.3nm	10μm	1800g/mm, 500nm	--	--
		16S03L00F00G31	~ 0.35nm	25μm	1800g/mm, 500nm	--	--
YSM-8101-02-28	330nm-680nm	16S03L00F00G20	~ 0.5nm	25μm	1200g/mm, 600nm	--	--



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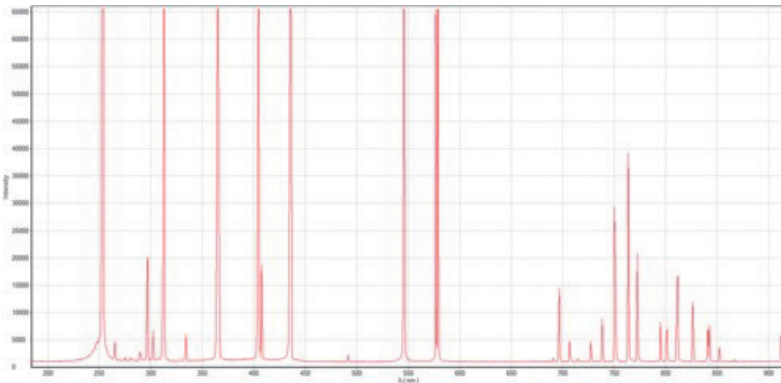
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YSM-8101-02 Series UV-NIR Miniature Spectrometer

Specifications

Model	YSM-8101-02
Dimension	94 mm×60 mm×34.5 mm
Weight	0.3 Kg
Wavelength range	180nm - 1100nm
Optical resolution	~0.35nm-5nm
Fiber connector	SMA905
Detector	Hamamatsu S11639 2048 Linear CCD
Pixel	2048 pixels, size 14μm×200 μm
Signal to noise ratio	600:1 at full signal
A/D resolution	16 bit
Integration time	0.5ms - 65s
Dynamic range Single collection	10000:1
Trigger mode	Software, hardware, synchronization
Power consumption	250mA, 5 VDC
Operating temperature	5°C -35°C (25°C)
Computer interface	USB2.0, RS232
Operating system	Win XP, Win7,Win8, Win10
Fixing hole	4 of M3 fixing hole in the bottom, 2 of M3 fixing hole on side
Power supply	USB or 5VDC

Typical spectrum



Mercury-xenon lamp Spectrum

Application

- Emission and absorption spectra
- Transmissivity and absorptivity
- Solar spectral measurement
- Fluorescence measurement
- Color Measurement
- Laser spectral test
- LED
- Other spectral measurement

Location of the fixing hole

