

YSM-8101-01Series VIS-NIR Miniature Spectrometer

Description

YSM-8101-01 series spectrometer adopts miniature opto-mechanical structure. It is compact and portable. The resolution is up to 0.35nm-1nm. The dynamic range is enhanced to 300:1 and it is an economical option for spectral measurements. RS232, Trigger modes, SDK and Deep customization is available for industrial or scientific applications.



Feature

Business card size

Cross asymmetric C-T optical structure

Interference filters eliminate 2nd order diffraction

SMA905 connector, easy to work with other devices through optical fiber

Selectable wavelength range and optical resolution

USB 2.0 for data transfer and power supply

RS232, Trigger modes, SDK and Deep customization is available

Enhanced lens is optional to improve the sensitivity

Automatically read peak wavelength and FWHM

Fixing holes for system integration

Model List

Model	Wavelength Range	Sub Model	Resolution	Slit	Grating	Filter	Lens
YSM-8101-01-02	400-1100nm	16S03L00F05G02	~1nm	25 μ m	600g/mm, 650nm	F05	--
YSM-8101-01-03	350-700nm	16S03L00F00G03	~0.5nm	25 μ m	1200g/mm, 400nm	--	--
YSM-8101-01-04	350-583nm	16S03L00F00G04	~0.35nm	25 μ m	1800g/mm, 400nm	--	--
YSM-8101-01-05	750-1100nm	16S03L00F08G05	~0.5nm	25 μ m	1200g/mm, 850nm	F08	--
		16S04L00F08G05	~1nm	50 μ m	1200g/mm, 850nm	F08	--
YSM-8101-01-06	350-1050nm	16S03L00F05G02	~1nm	25 μ m	600g/mm, 650nm	F05	--
		16S03L01F05G02	~1nm	25 μ m	600g/mm, 650nm	F05	L01
YSM-8101-01-07	315-1015nm	16S03L00F06G02	~1nm	25 μ m	600g/mm, 650nm	F06	--
		16S03L01F06G02	~1nm	25 μ m	600g/mm, 650nm	F06	L01
YSM-8101-01-08	380-730nm	16S02L00F00G03	~0.4nm	10 μ m	1200g/mm, 400nm	--	--
YSM-8101-01-09	600-950nm	16S02L01F08G05	~0.4nm	10 μ m	1200g/mm, 850nm	F08	L01

* Other wavelength ranges and resolutions can be customized

* Some models can be equipped with enhanced lens to improve the sensitivity



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Grating Selection

Slit	Grating	Wavelength Range Width	Resolution
25 μ m	500g/mm	800nm	~ 1.5nm
	600g/mm	700nm	~ 1nm
	1200g/mm	350nm	~ 0.5nm
	1800g/mm	233nm	~ 0.35nm
50 μ m	500g/mm	800nm	~ 3nm
	600g/mm	700nm	~ 2nm
	1200g/mm	350nm	~ 1nm
	1800g/mm	233nm	~ 0.7nm
100 μ m	500g/mm	800nm	~ 6nm
	600g/mm	700nm	~ 4nm
	1200g/mm	350nm	~ 2nm
	1800g/mm	233nm	~ 1.4nm
200 μ m	500g/mm	800nm	~ 12nm
	600g/mm	700nm	~ 8nm
	1200g/mm	350nm	~ 4nm
	1800g/mm	233nm	~ 2.8nm

*Note: Using 1800 line grating, the width of the wavelength range in the long-wave area may not reach 233nm.

Application

View the spectrum

Absorption, Transmittance and Reflectivity

LED's CWL, FWHM and Color

Solar spectrum

Fluorescence

Color Measurement

Laser's CWL and FWHM



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