

High Throughput Spectrometer

HiNA-series

The HiNA series is a high-performance spectrometer designed specifically for Raman applications requiring high luminous flux and sensitivity is currently available in three different wavelength ranges, 532nm, 785nm, and 1064nm.

Features

- High luminous flux
- Support GPIO
- High sensitivity, high UV response
- Batch Consistency Control
- Various communication interfaces, support USB, serial port
- Low-temperature drift, wide operating temperature range: -20~60°C



Technical Advantages

1. Ultra-high luminous flux

F/2 is not only fully coupled to the input from 0.22NA fibers but also designed for redundancy and compatibility with special fibers with larger numerical apertures or customised input optical paths.

2. Powerful PC software

PC software provided with the spectrometer: FLAVOR is powerful software. In addition to the basic spectrum acquisition control functions, it also has functions such as saturation and automatic adjustment of the integration time, recording of the real integration time, and automatic peak finding. At the same time, the software also includes characteristic functions such as wavelet smoothing with patented technology. SDK supports Windows, Android, and Linux operating systems, and can provide secondary development packages in C#, C++, Java, Python, and other languages.

3. High stability

Within 0~40°C temperature drift, the spectral resolution remains unchanged, preferable for industrial applications.

4. Customisable

A wide choice of reflective flashing gratings allows you to customise the waveband to suit your needs.

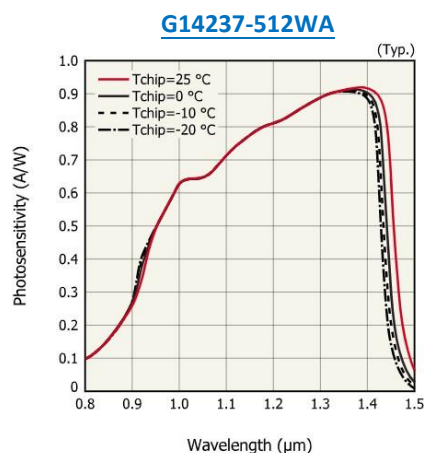
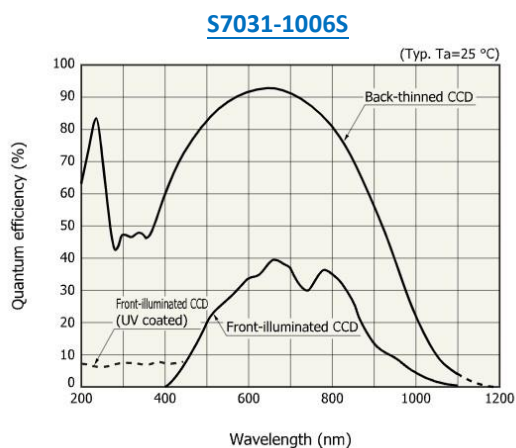
Product Specifications*

Model	HiNA532	HiNA785	HiNA1064
Raman Range	0~3600cm ⁻¹	0~2480cm ⁻¹	0~1700cm ⁻¹
Band Range	530~658nm	780~975nm	1064~1300nm
Resolution (@50um slit)	0.5nm 16cm ⁻¹	0.7nm 10cm ⁻¹	0.9nm 7cm ⁻¹
Slit Width**	25~200um	50~200um	50~200um
F/#	F/2	F/2	F/2
Grating**	1800/500mm	1200/850mm	830/1200nm
Dynamic range	10000 : 1		14000 : 1
Signal to Noise Ratio	1000 : 1		1000 : 1
Integration Time	7 ms -30 mins		5 us - 30 mins
CCD Detector***	Hamamatsu , S7031-1006S		Hamamatsu , G14237-512WA
Built-in Filter	Minimum wave number 200cm ⁻¹	Minimum wave number 200cm ⁻¹	Minimum wave number 200cm ⁻¹
Size	170*179*64.5mm		
Weight	1.5kg		

*Due to ongoing continuous product improvement, specifications are subject to change without notice.

** Customisable

*** The spectral response of the **Hamamatsu CCD** detector is as follows



Product Size

