

YSM-8105-09 series, 256 pixel InGaAs NIR spectrometer

Description

YSM-8105-09 series NIR spectrometer is an upgraded version of YSM-8105-05 series. It adopts Hamamatsu uncooling 256 pixels InGaAs detector, which not only doubles the number of pixels, but also increases the pixel size, and the resolution and sensitivity have been greatly improved. With the replaceable slit design, the spectrometer can be configured as different resolutions and sensitivities for different applications. With compact size, SDK, deep customization, it is suitable for system integration and scientific research, such as food sorting, biopharmaceuticals and life sciences.



Model List

Model	Wavelength Range	Sub Model	Resolution	Slit	Grating	Filter	Lens
YSM-8105-09-01	920-1700nm	16S03L00F00G37	~5nm	25μm	300g/mm, 1200nm	--	--

*Other wavelength ranges and resolutions can be customized.

*Cylinder lenses can be added to some models to increase the sensitivity.

Features

- Hamamatsu 256 pixels uncooling InGaAs detector
- Compact size and easy for system integration
- Replaceable slit design for different resolution and sensitivity
- Real-time display peak wavelength and FWHM
- RS232, Trigger modes, SDK and Deep customization are available

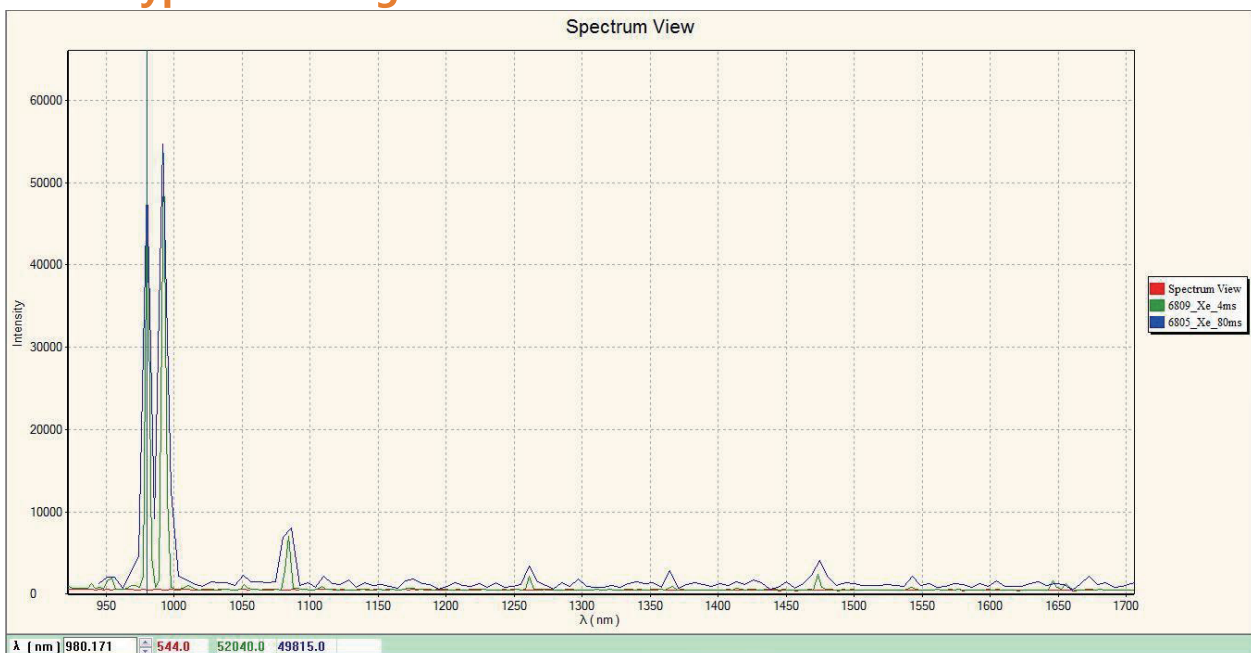
Application

- Grain and seed moisture analysis
- Quality monitoring of Fruits and Meat
- Process monitoring of Drug and Plastics manufacturing
- NIR Laser's CWL and FWHM

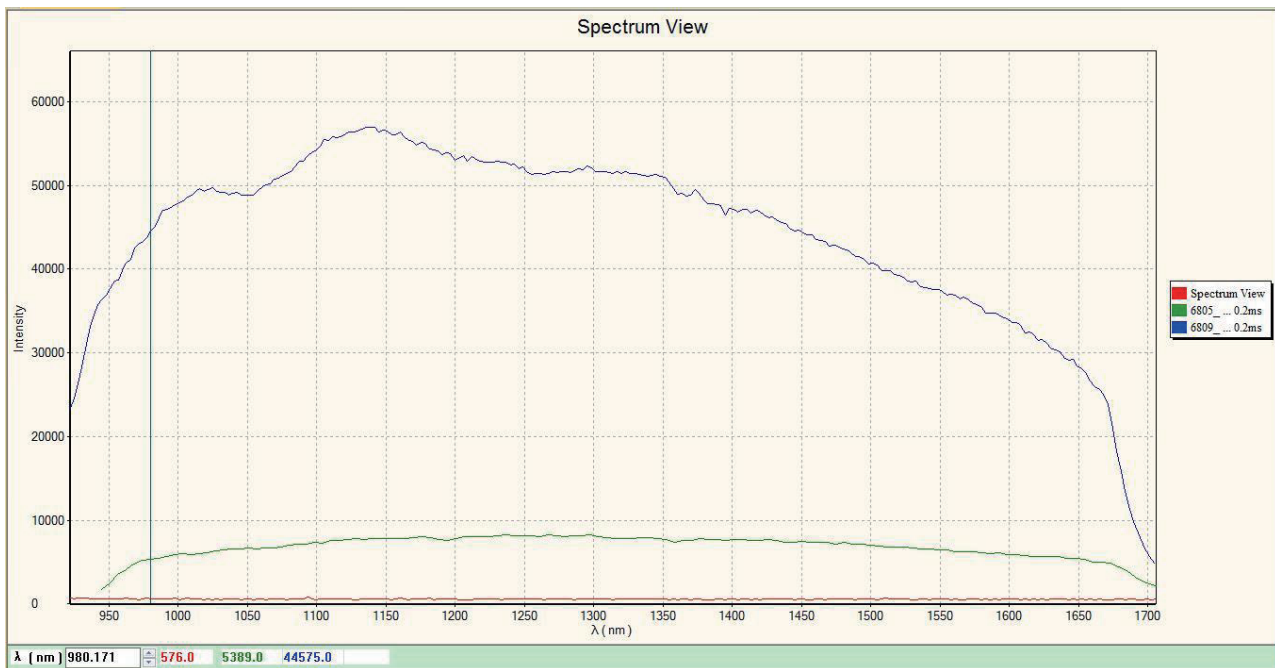
Specification

Model	YSM-8105-09
Detector	InGaAs 256 pixel uncooled detector
	Pixel size 50 μ m \times 500 μ m
Dimension	94mm \times 60mm \times 36.5mm
Wavelength Range	920nm-1700nm (pre-configured)
Optical Resolution	~5nm (pre-configured 25 μ m slit)
A/D	16bit
Integration Time	0.1ms-65s
Trigger Mode	4 types (normal trigger, software trigger, hardware trigger, synchronous trigger)
Power Consumption	5VDC, 300mA
Fiber Connector	SMA905, replaceable slit design
Operating Temperature	5 $^{\circ}$ C-35 $^{\circ}$ C (recommended 25 $^{\circ}$ C)
Communication Interface	USB2.0, RS232
Operating System	Win XP, Win 7, Win 8, Win10
Power Supply	Micro USB
Model	YSM-8105-09

Typical Testing



Xenon lamp spectrum test comparison



Tungsten lamp spectrum test comparison

Packing List

1EA spectrometer, 1EA USB cable, 1EA U disk with software and manual, 1EA calibration report and 1EA handbook.



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