YSM-8105-05 Series # 128 Pixels InGaAs NIR Spectrometer

Description

With the compact size and Hamamatsu 128 pixels InGaAs detector, YSM-8105-05 series NIR spectrometers have extremely low power consumption within the wavelength range of 950nm-1700nm, which is suitable for the applications of food sorting, biopharmaceutical and life sciences, as well as system integration.   With the replaceable slit design, the spectrometer can be configured as different resolutions and sensitivities for different applications.

Model List

Model	Wavelength Range	Sub Model	Resolution	Slit	Grating	Filter	Lens
YSM-8105-05-01	950nm-1700nm	16S03L00F00G32	~10nm	25 μ m	150g/mm@1250nm	--	--

*Other wavelength ranges and resolutions can be customized.
*Cylinder lenses can be added to some models to increase the sensitivity.

Features

Hamamatsu 128 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

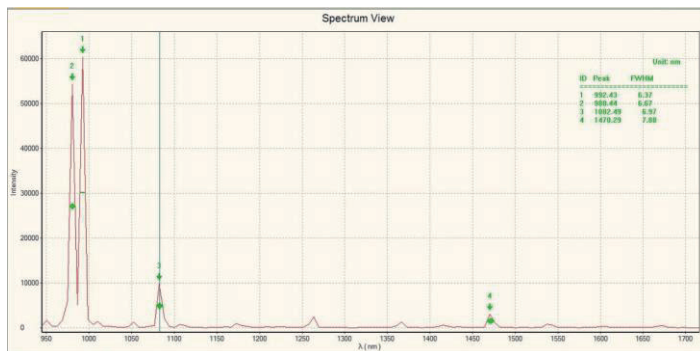## Application

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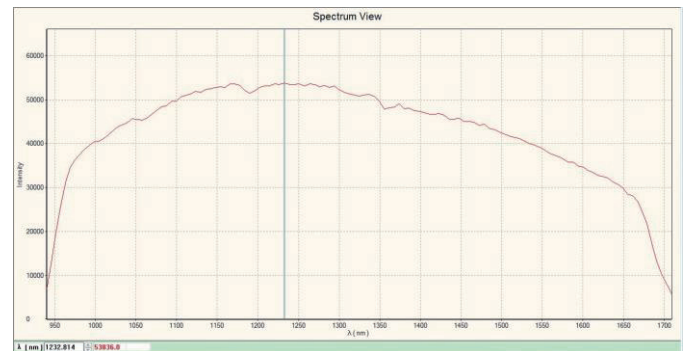Process monitoring of Drug and Plastics manufacturing
NIR Laser's CWL and FWHM

YIXIST

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Specifications

Model	YSM-8105-05
Detector	InGaAs 128 pixels Pixel size 50μm×250μm Wavelength response range 950nm-1700nm
Dimension	165mm×110mm×38mm
Wavelength Range	950nm-1700nm (pre-configured)
Optical Resolution	~10nm (pre-configured 25μm slit)
A/D	16bit
Signal-to-Noise Ratio	10000:1
Integration Time	0.1ms-65s
Dynamic Range	14000:1
Trigger Mode	4 types (normal trigger, software trigger, hardware trigger, synchronous trigger)
Power Consumption	5VDC , 300mA
Fiber Connector	SMA905
Operating Temperature	5℃-35℃ (recommended temperature 25℃)
Communication Interface	USB2.0, RS232
Operating System	Win XP, Win 7, Win 8, Win10
Power Supply	USB

Typical Data

Xenon lamp spectrum

Tungsten lamp spectrum

Packing List

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