YSM-8105-10 series, 512 pixel InGaAs NIR spectrometer

Description

Nirs are widely used in food, chemical, pharmaceutical, agriculture and environmental protection industries. YSM-8105-10 series NIR spectrometer uses Hamamatsu's uncooled array InGaAs detector (512 pixels). With the compact optical path design, the resolution of the spectrometer can be better than 1nm. At the same time, this series of spectrometer adopts USB communication and power supply, with millisecond data acquisition speed, compact size, durable structure. Not only can be used in the laboratory near infrared spectroscopy analysis, but also very local integration into other equipment.

Features

1.Adopt Hamamatsu 512-pixel uncooled InGaAs detector with the highest resolution is better than 1nm.
2.Considering both performance and cost, it is the first choice for common NIR spectroscopy applications with compact structure, light weight and easy system integration.
3.Replaceable slit design, configured with various slits of different widths, flexible switching between different resolution and sensitivity.
4.Time series measurement, real-time display peak wavelength and FWHM
5.The secondary development package is provided

Application

1.Grain and seed moisture analysis and screening.
2.Fruit quality monitoring and screening.
3.Meat fat and protein content detection and screening.
4.Drug manufacturing component testing and process monitoring.
5.Plastics production component testing and process monitoring.
6.Measurements in the 900nm-1700nm spectral range.

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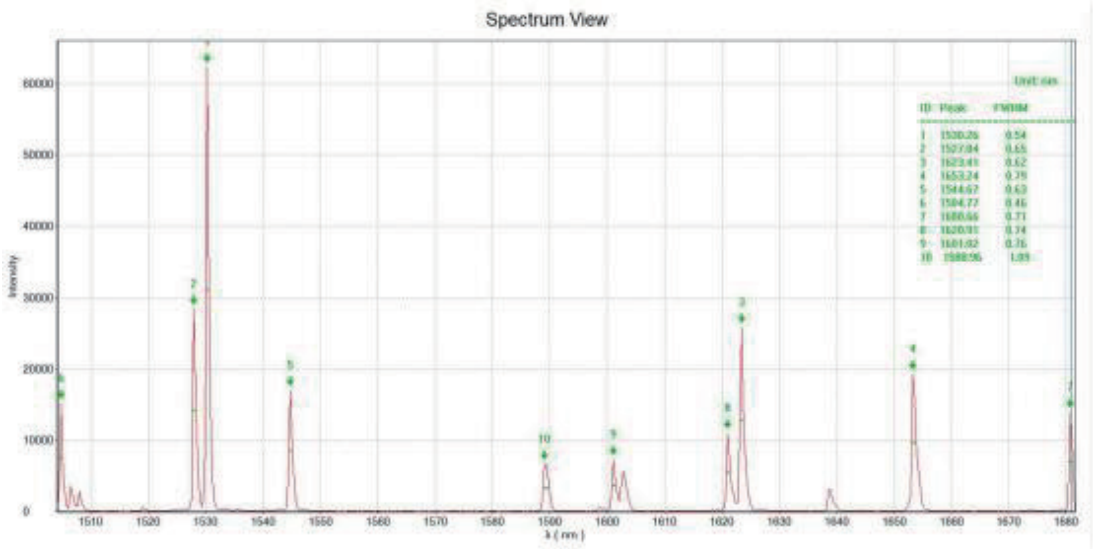
Parameter

Model	YSM-8105-10
Detector	InGaAs 512 pixels Pixel size 25μm×250μm Wavelength response range 900nm-1700nm
Dimension	94mm×60mm×36.5mm
Wavelength Range	920nm-1700nm (pre-configured)
Optical Resolution	~ 3nm(pre-configured 25μm slit)
A/D	16bit
Signal-to-Noise Ratio	16666:1
Integration Time	0.1ms-65s
Dynamic Range	16666:1
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



YSM-8105-10-01 Mercury lamp spectrum

Packing List

1 spectrometer, 1 USB data cable, 1 U disk (software and user manual), 1 calibration report, and 1 suitcase.