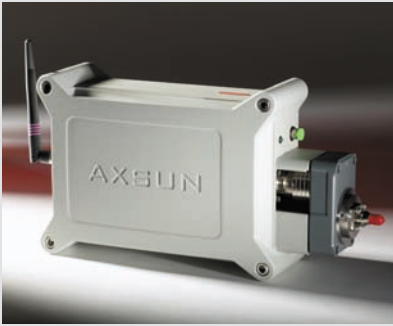


Axsun™ NIR Analyzer XL for Application Development

PRODUCT DESCRIPTION



True Process Spectroscopy, Now Feasible and Affordable

Near-infrared analyses of organic gases, liquids, and solids are well-established tools to measure composition and purity for industrial QA/QC and environmental safety. However, traditional FT-NIR analyzers, designed primarily for laboratory use, are too large, too delicate, and too costly to deploy effectively on process lines and for point-of-use material inspection. And smaller diode-

array process systems compromise resolution, speed, calibration transfer, and other aspects of performance. Today, the cost of installation, maintenance, and operation for process-analytical systems far exceeds the analyzer cost. Axsun's IntegraSpec™ XL platform meets the ultimate process challenge – drastically reducing the total cost of measurement. Readily configured as rugged, low-cost systems, this powerful platform can be integrated into the process stream without extensive investment in plant maintenance and training, or capital including real estate, fiber cabling, environmental and regulatory compliance, and method development.

Rapid Transition from Application Development in the Lab to Process Deployment

Axsun's NIR Analyzer XL, powered by the IntegraSpec platform, is a laboratory-grade instrument that facilitates application development with its flexibility in sampling configurations. The detector assembly is remotable – enabling both direct-to-detector and fiber-to-detector. A selection of off-the-shelf sampling hardware, co-developed by Axsun and built by world-class sampling hardware partners, is available for gas, liquid, and solid sampling in both transmission and diffuse reflectance. Foremost, Axsun's proprietary WARM™ Wavelength/Amplitude Referencing Module enables methods developed on the NIR Analyzer in the laboratory to be rapidly transferred to process spectrometers on the same IntegraSpec platform.



IntegraSpec XL



FEATURES & BENEFITS

- Powered by IntegraSpec, rugged, flexible platform – ideal for point-of-use and in-line process applications
- Proprietary WARM™ Wavelength/Amplitude Referencing Module ensures calibration transfer
- High-speed data acquisition for real-time measurements
- Spectral sensitivity to 1800 nm addresses a larger portfolio of applications and samples with higher performance
- Field-proven semiconductor device technology enables years of maintenance-free operation

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PRODUCT DESCRIPTION

Axsun currently offers three models, with different spectral ranges

Model	Part No.	Spectral Range (nm)	Absorption Bands
NIR Analyzer XL 110	3358-2411	1350-1540	O-H 1 st overtone
NIR Analyzer XL 210	3348-2411	1540-1800	C-H 1 st overtone
NIR Analyzer XL 410	3368-2411	1350-1800	O-H & C-H 1 st overtones

General Specifications

Wavelength Accuracy (Cal. Transfer)	± 0.025 nm
Wavelength Repeatability	± 0.01 nm
Baseline Stability (24 hours)	± 0.5%
Spectral Resolution	3.5 cm ⁻¹
SNR (250 msec collect, RMS)	>5500:1
Dimensions Total Detector Assembly	250 x 150 x 75 mm 70 x 45 x 38 mm
Operating Temperature	15 to 35 °C, ambient
Connectivity	USB 2.0, Wireless 802.11b, RS-232, Ethernet 10/100
Optical Interface	Excitation: polarization-maintaining fiber, FC/APC Collection: multimode fiber, SMA905
Software Interface	Microsoft™ ActiveX Control, "My Instrument" standard

Contents

NIR Analyzer XL with removable detector including fiber-to-detector optical coupler
2 meter stainless steel jacketed MMF patch cord with SMA905 connectors, 600 μm core
2 meter detector cable assembly for remoting detector
USB cable

CD that includes:

- ActiveX Control
- Axsun Kinetics Demo Software
- Getting Started and Operators' Manual
- Wireless Connectivity Software



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Axsun is ISO 9001:2008 certified



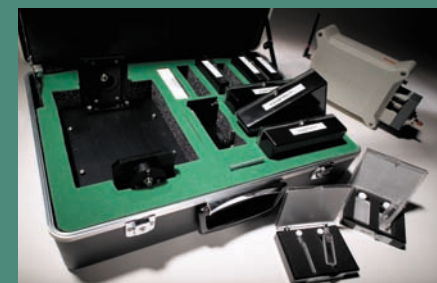
PRODUCTS FOR APPLICATION DEVELOPMENT



Diffuse Reflectance Accessory



Liquid Transmission Probe



Gas/Liquid Accessory Kit

For more information
Contact Axsun at:
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(Specifications are subject to change without notice)

This product contains a Class 1 Laser.