

Axsun™ NIR Analyzer Diffuse Reflectance Accessory for Application Development

DATA SHEET



A Comprehensive Sample-Interface Tool for Use with the Axsun NIR Analyzer XL

The Diffuse Reflectance Accessory – manufactured for Axsun by a world leader in spectrometer accessories – Specac, features a laboratory sample interface that is optimized for NIR spectroscopic solid-phase analysis. Diffuse reflectance is an excellent sampling tool for NIR analysis of powdered or crystalline materials and intractable solid samples. It has the added benefit of being well-suited to automation.

Methods can be developed with the accessory and then easily transferred to application-specific automated systems. The Diffuse Reflectance Accessory makes the analysis of a wide range of solid samples easier, faster, and more efficient.

The Diffuse Reflectance Accessory is designed to work with Axsun's IntegraSpec™-powered NIR Analyzer XL. Put the accessory and the analyzer together – and you have all you need to run a wide range of solid phase samples to develop applications quickly and easily. The combination delivers unparalleled system performance, enabling the applications developer to solve the toughest in-line process problems.

Rugged, versatile, and designed for the exacting demands and hostile environments of industrial-process applications, Axsun's leading-edge IntegraSpec micro-spectrometer platform makes real-time, process measurements feasible and affordable. Combined with Axsun's proprietary WARM™ Wavelength/Amplitude Referencing Module, methods developed on the NIR Analyzer can be rapidly transferred to IntegraSpec process spectrometers distributed throughout the process line.

Product Description

The Diffuse Reflectance Accessory is a sampling tool for use with the Axsun NIR Analyzer XL to develop process-monitoring and point-of-use QC applications on the IntegraSpec XL and XLP platforms. It is designed for spectroscopic analysis of solids including flakes, powders, crystals, and tablets using diffuse reflectance in a laboratory environment.

The accessory accommodates both samples in vials and bottles, and container-less samples placed directly on its scratch-resistance window. Spectralon reference disk is supplied for taking a background. The accessory mates directly to the remoted detector module of the NIR Analyzer XL, and is packaged in a hard shell carrying case for convenient storage and transportation.



APPLICATION EXAMPLES

- Raw-Material Inspection
- Tablet Analysis
- Blending and Mixing Monitoring
- Drying Monitoring
- Automated QC/QA of Continuous Processes



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PERFORMANCE SPECIFICATIONS

Part No. 6014-3100

General Specifications

Optimum Spectral Range	1320 to 1800 nm
Diameter, Illumination Area	4 mm
Sampling Configurations	In glass and plastic vials and bottles with: Diameters from 10 mm to 50 mm Thicknesses from 1 to 5 mm
	Without a container, directly on sample window
Sample Window	Scratch-resistant sapphire
Dimensions	102 x 85 x 80 mm
Optical Interface	Excitation: polarization-maintaining fiber, FC/APC Collection: direct to NIR Analyzer XL remoted detector assembly
Compatibility	Axsun NIR Analyzer XL

(Specifications are subject to change without notice)



PRODUCTS FOR APPLICATION DEVELOPMENT



Axsun NIR Analyzer XL



Liquid-Transmission Probe



Gas/Liquid Accessory Kit

For more information
Contact Axsun at:
1 Fortune Drive
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