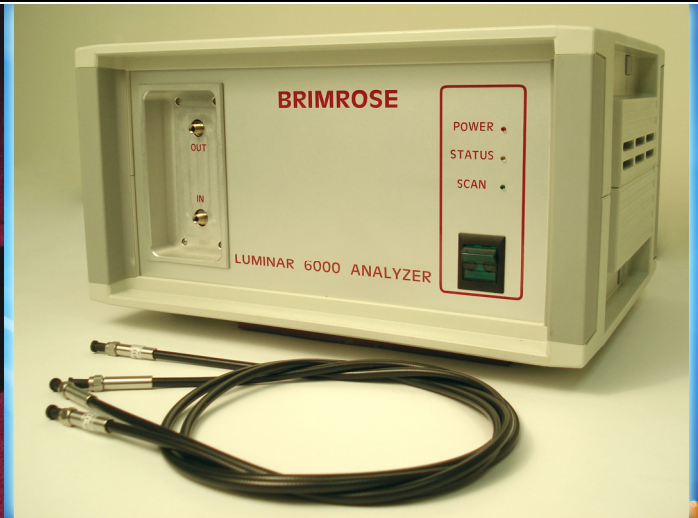


Robust . Reliable . Accurate

Miniature Laboratory AOTF-NIR Analyzer



Luminar 6000 with Single Fiber and Cuvettes

- Non-destructive and Contact/Non-contact Analytical Testing
- Brimrose Analytical Software - Snap32!
- Full Capability to do Multiple Measurements with Different Types of Probes, Cuvettes, Flow Cells, Gas Cells



Brimrose Corporation of America
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www.brimrose.com

Luminar 6000

■ Rugged Laboratory Analytical Instrument for Multi-component Analysis

The Brimrose Solid-state Luminar 6000 AOTF-NIR Miniature Laboratory Analyzer is a platform developed for conducting non-destructive and contact/non-contact analytical testing. This instrument is an excellent tool for lab measurements of chemical and physical properties. The Luminar 6000 Miniature Analyzer has the full capability to do multiple measurements with different types of probes, cuvettes, flow cells, gas cells on solids, powders, liquids, and gases.

This AOTF-NIR analyzer is an analytical instrument that utilizes Brimrose's high performance AOTF-NIR (**A**cousto-**O**ptic **T**unable **F**ilter-**N**ear **I**nfrared) technology. This spectrometer can deliver rapid, multi-component analysis for a wide variety of applications that include diffuse reflective measurements of powders, pellets, liquids, web based and solid products. Models created using the Luminar 6000 Miniature Analyzer can easily be transferred to a real-time, on-line system. Miniature design makes it more capable of portable solutions.

■ Measurement

- Moisture
- Fat/Sugar/Protein
- Active Ingredients
- Coating Weight
- Blend Assay
- Recycled Plastic ID



Luminar 6000 AOTF-NIR Analyzer with Fiber Bundle

■ Key Features

- Dual Beam, Pre-aligned Lamp Assembly, InGaAs Detectors
- Fast Scanning Speed - 16,000 wavelengths/sec
- SNAP32! Brimrose Analytical Software with Brimrose MACRO Language
- Miniature Integrated Enclosure

■ Real-time Applications

- Laboratory Measurements of Chemical and Physical Properties: powders, polymer pellets/resins, liquids
- Fruit/Grain, Vines
- Raw Materials ID in Receiving and Dispensing, Polymorphism
- Petrochemical: Determination of aromatics, cetane index, density, and viscosity in petroleum product
- Paper and Textile Goods



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■ Technical Data Specifications

Spectrometer Name	Luminar 6000 Miniature Laboratory AOTF-NIR Analyzer
Spectral Range Options	600-1100 nm, 850-1700 nm, 900-1800 nm, 1100-2300 nm
Measurement Modes	Diffuse Reflection, Transflectance, Transmission
Spectral Resolution	2-10 nm
Wavelength Accuracy	± 0.5 nm
Wavelength Repeatability	± 0.01 nm
Wavelength Increment	Software Selectable 1-10 nm
Ambient Light Rejection	> 10 ⁶
Signal Digitalization	16-bit A/D (1 part in 65,536)
Sampling Speed	16,000 wavelength/sec
Connectors for Fiber Optics	TNC, SMA
Diagnostic	10 Built-in monitoring sensors
Power Requirements	12, 24VDC, 90Watts, 110 VAC 60 Hz, 220VAC 50Hz
Enclosure Dimensions	13" X 10" X 7"
Outputs	PC Interface via Ethernet connection (Optional: Wireless Ethernet Interface)
Software Package	Windows-based analytical software for data acquisition
Options:	
<ul style="list-style-type: none"> ➤ Input/Output (I/O) Capability ➤ Battery Operation ➤ Wireless Ethernet Interface 	



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