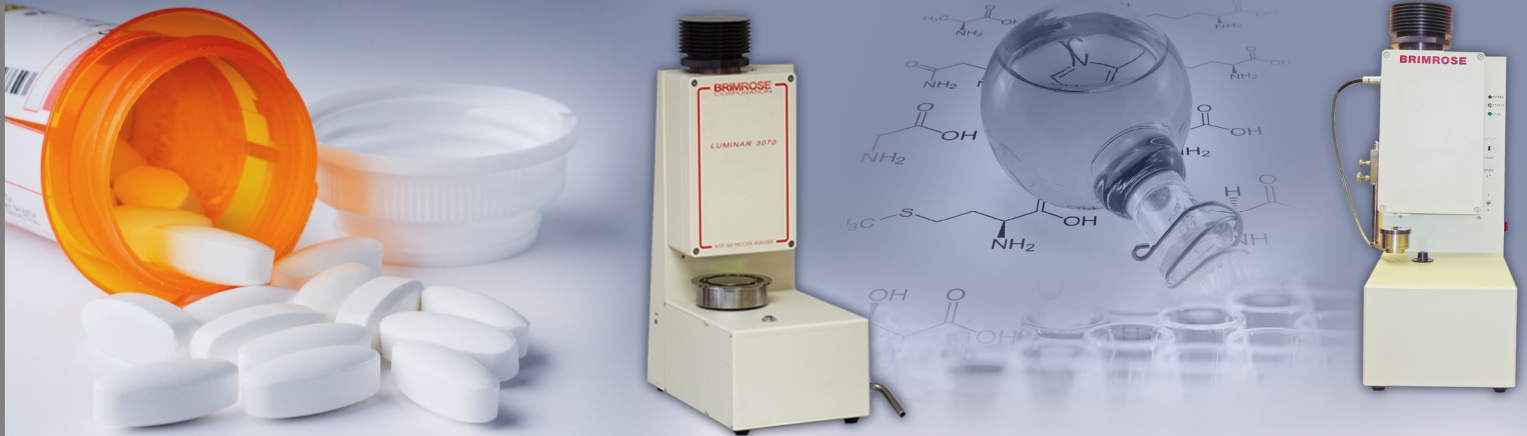


**Robust . Reliable . Accurate**

# AOTF-NIR BenchTop Laboratory Analyzer



- Non-contact and Non-destructive Measurements of Powders, Solids, Liquids, Gels, Seeds
- Brimrose Analytical Software - Snap32!
- Transmission and Diffuse Reflectance Measurement Modes



Brimrose Corporation of America

Email: [office@brimrose.com](mailto:office@brimrose.com)

[www.brimrose.com](http://www.brimrose.com)

Luminar 3070

## ■ Bench Top AOTF-NIR Analyzers for non-contact Measurements in Laboratory

Brimrose solid-state Luminar 3070 AOTF-NIR BenchTop Analyzers are designed for any types of noncontact, non-destructive measurements of chemical and physical properties of powders, solids, liquids, gels, etc. in Laboratory environment. The following types of measurements can be done:

### Model 920A

- Diffuse reflectance for powders, liquids, and solids in rotation mode.
- Transmission for liquids with integrated flow cell in dynamic mode.

### Model 920B

- Diffuse reflectance for Powders and Solids in rotation mode.
- Transmission for single seeds.

### Model 920D

- Diffuse reflectance for powders and solids in rotation mode.
- Transmission for liquids with separate heated flow cell in dynamic mode.

### Model 920E

- Diffuse reflectance for powders and solids in rotation mode.

Powders and solids measurement and liquid measurement

### Model 920D



**Model 920A**

● Rotating cup for powders and solids measurement

● Hole for funnel for liquids measurement

● Liquid flowing out



**Model 920E**



**Model 920B**

## ■ 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

## ■ Real-time Applications

- Measurements of Powders, Liquids, Solids, Gels, Seeds, etc.



**Brimrose Corporation of America**

Email: [office@brimrose.com](mailto:office@brimrose.com)

[www.brimrose.com](http://www.brimrose.com)

■ Technical Data Specifications

Spectrometer Name	Luminar 3070 BenchTop Laboratory AOTF-NIR Analyzer
Spectral Range Options	850-1700 nm, 900-1800 nm, 1100-2300 nm
Measurement Modes	Transmission and Diffuse Reflectance
Spectral Resolution	2-10 nm
Wavelength Accuracy	± 0.5 nm
Wavelength Repeatability	± 0.01 nm over more than 5 years service
Wavelength Increment	Software Selectable 1-10 nm
Ambient Light Rejection	> 10 <sup>6</sup>
S/N at 70% Range	< 30µabs in reflectance and transmission, for <5 seconds integration time
Wavelength Access Time	< 66 µsec
Photometric Range	3.5 AU
Linearity	Better than 0.15%
Signal Digitalization	16-bit A/D (1 part in 65,536)
Sampling Speed	16,000 wavelength/sec
Sampling Area	5 x 3 mm
Diagnostic	10 Built-in monitoring sensors
Power Requirements	12VDC, (24 VDC special order), 90Watts, 110VAC 60Hz, 220VAC 50 Hz
Dimensions	W x H x D (225 x 600 x 365 mm)
Outputs	PC Interface via Ethernet connection
Software Package	Windows-based analytical software for data acquisition



Brimrose Corporation of America  
 Email: [office@brimrose.com](mailto:office@brimrose.com)  
[www.brimrose.com](http://www.brimrose.com)