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 www.brimrose.com

Bench Top AOTF-NIR Analyzers for noncontact Measurements in Laboratory

Brimrose solid-state Luminar 3070 AOTF-NIR BenchTop Analyzers are designed for any types of noncontact, nondistructive 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 dvnamic 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





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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.

■ 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 ⁶
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



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