Luminar 3070
BenchTop Laboratory NIR Analyzer

ISITEC-LAB is the representative in Europe of BRIMROSE.
Brimrose Solid-state AOTF-NIR BenchTop Analyzers are designed for ANY types of noncontact, non-distructive measurements of Chemical and Physical properties of Powders, Solids, Liquids, gels, etc. in Laboratory environment. The following types of measurements can be done:

Model 920
- Diffuse reflectance for Powders, Liquids, and Solids in Rotation mode.
- Transmission for Liquids in dynamic mode.

Model 920B
- Diffuse reflectance for Powders and Solids in Rotation mode.
- Transmission for single Seeds.

Model 920

Model 920B

Typical Applications

Powders, Liquids, Solids, Gels, Seeds, etc.

Measurements

- **Transmission**
  - **Model 920 - Liquids in dynamic mode**
  - **Model 920B - Single seeds**
- **Diffuse Reflectance**
  - **Model 920 - Powders, Liquids, and Solids in Rotation mode**
  - **Model 920B - Powders and Solids in Rotation mode**

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Specifications

Luminar 3070

BenchTop Laboratory NIR Analyzer (Model 920 and Model 920B)

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
Sample 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)
Outputs	PC Interface via Ethernet connection
Software	Windows-based analytical software for data acquisition

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