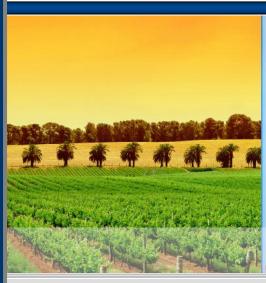
Robust . Reliable . Accurate

Luminar 4070 Miniature Free Space AOTF-NIR Process Analyzer







- Non-contact, Non-destructive Measurement in Diffuse Reflectance Mode
- New Linux-based Software with a Graphic Touchscreen **Interface and Stand-alone Operation**



Brimrose Corporation of America Email: office@brimrose.com www.brimrose.com

Luminar 4070 Free Space Analyzer

The Luminar 4070 is a new Brimrose spectrometer that offers advantages in size and power consumption. The Luminar 4070 is seen being a good fit for a variety of different applications.

The Luminar 4070 includes other modern conveniences, including touch screen display.

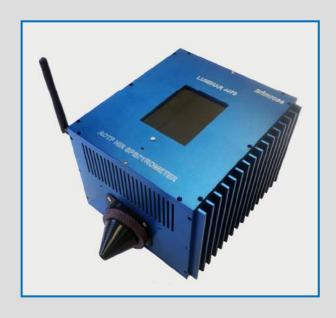
The Luminar 4070 is compatible with our SNAP32 software and features new software that has a graphic, touchscreen interface, and is capable of stand-alone operation.

The Luminar 4070 analyzer has a number of potential uses such as non-contact, non-destructive measurements of chemical and physical properties of powders, solids, gels, etc, in diffuse reflectance mode.

The Luminar 4070 comes with a variety of options and can be fitted with several different accessories.



- Small Size, Low-Power Consumption
- No Moving Parts
- **Economic Price Tag**
- **USB** Capable
- Amazing Scanning Speed of 16,000 Wavelengths per Second
- New Linux-based Software with a Graphic Touchscreen Interface and Stand-alone Operation
- Measuring Non-Destructively Powders, Solids, Gels, etc, in Diffuse Reflectance Mode



Real-time Applications

- Blend Control: Real-time homogeneity monitoring and blending control process
- Drying process: Direct placement on spray or fluid bed dryers
- Pharmaceutical: 100 percent inspection of solids, gels, liquids and powders
- Agricultural/Food: food analysis for fat, protein, moisture, starch, etc
- Polymer: In-site measurement of pellets, films and coatings; high speed polymer waste identification
- Textile: Cotton/polyester ratio accurately by the web
- Pulp and paper: In-line thickness, pulp properties, paper coating analysis



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Technical Data Specifications

Spectrometer Name	Luminar 4070 Free Space AOTF-NIR Process Analyzer
Spectral Range Options	1100-2300 nm
Measurement Modes	Diffuse Reflection
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
Vibration Immunity	Blenders, production machinery, conveyor belts
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	Ø6 mm
Sampling Distance	40 mm with Ø6 mm sample area
Diagnostic	10 Built-in monitoring sensors
Power Requirements	12VDC, (24VDC special order), 90Watts, 110VAC 60Hz, 220VAC 50Hz
Outputs	PC Interface via Ethernet connection
Software Package	Windows-based analytical software for data acquisition
Options:	Accessories:
 Battery Operation Wireless Communication Gravity Switch GPS Capability 	 1.5" Sapphire Window Assembly Mounting Plate for Quick Dismounting Stand with Rotating cup and DC motor Stand with Rotating cup and Stepper motor



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