

Luminar 7030

IP55 Miniature Stainless Steel Free Space™ Process Analyzer

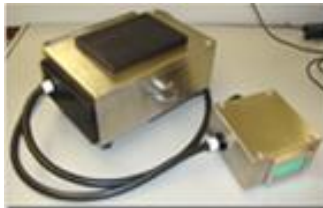
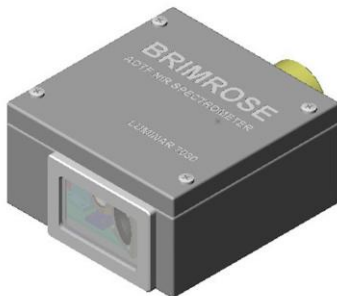
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The **Luminar 7030-IP55 Miniature Stainless Steel FreeSpace™ Process AOTF-NIR Analyzer** is built to be placed directly into the production line. Its rugged design and solid-state technology allows an installation right into the production environment, and its miniature size allows implementation where space is tight, such as small vacuum dryers, pipes, fluid beds, etc. This high-speed **NIR** Analyzer is based on diffuse reflectance optics and can be integrated in a vast variety of housings to match your process area needs. Electronic Controller Unit is in a stainless steel box, with IP55 water tight - dust tight enclosure. Optical module is in a stainless steel box, water tight, dust tight.

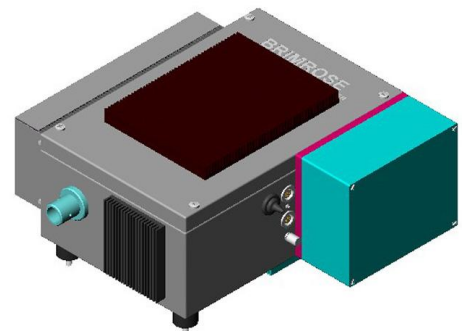
BRIMROSE offers this rugged solid-state analyzer in a variety of different configurations to meet the high demand of different industries and applications.

The **Stainless Steel FreeSpace™** meets all requirements and standards for on-line applications in the pharmaceutical industry and is built to work reliably even in the toughest environmental conditions. The integrated **AOTF-NIR** technology offers outstanding S/N ratio combined with ultra high speed scanning rates and makes it possible to analyze in real time, on-line and with laboratory accuracy.

Optical Module



Electronic Enclosure



Typical Applications:

- **Blender Control:** Real-time homogeneity monitoring and blending control process
- **Pharmaceutical:** 100% inspection of solids, gels, liquids and powders
- **Agricultural/Food:** On-line food analysis for fat, protein, moisture, starch, etc.
- **Polymer:** In-site measurement of pellets, films, and coatings
- **Textile:** Cotton/polyester ratio directly in the web
- **Drying Process:** Direct placement on spray or fluid-bed dryers
- **Pulp & Paper:** Thickness and coating analysis - on-line
- **Tobacco:** Measurement of nicotine, sugars, potassium, etc.

And much, much more.....

Specifications	
Luminar 7030	IP55 Miniature Stainless Steel FreeSpace™ Process Spectrometer
Spectral Range Options	850-1700 nm, 900-1800 nm, 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
Sample Area	Ø6 mm
Sampling Distance	55 mm
Diagnostic	10 Built-in monitoring sensors
Power Requirements	12VDC, (24 VDC special order), 90Watts, 110VAC 60Hz, 220VAC 50 Hz
Enclosure	300mm x 256mm x 145mm Stainless Steel NEMA 4X; Explosion-proof options available
Outputs	PC Interface via Ethernet connection
Software	Windows-based analytical software for acquisition and analysis
Options:	Accessories:
<ul style="list-style-type: none"> • Input/Output (I/O) Capability • "SEALED" Battery operation • Vortex Cooler with Heat Exchanger • Wireless Communication • Proximity sensor / Gravity Switch 	731-S: Stand with Rotating cup

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