

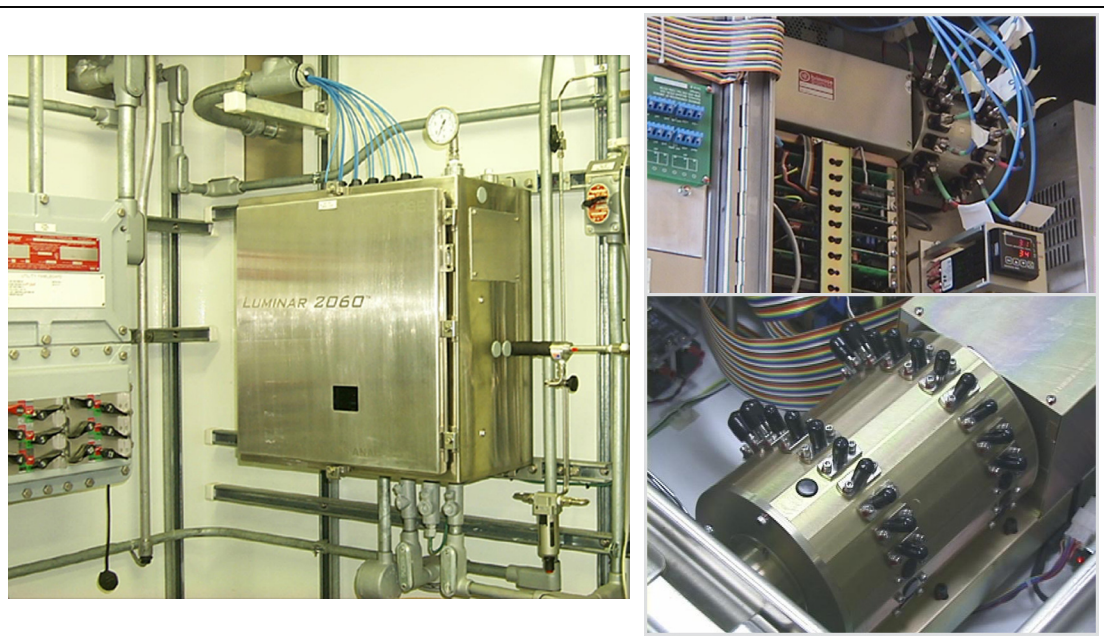
Luminar 3060 AOTF NIR Multiplexer

BRIMROSE

The **Luminar 3060 AOTF-NIR Multiplexer** solutions have proven to be the leading process spectroscopy technology for industrial plant monitoring and control. Up to 16 sample streams can be analyzed, monitored, and controlled with the speed of light to ensure real-time, in process quality control 24 hours a day, 365 days a year.

Our patented state-of-the-art multiplexer technology couples unmatched repeatability with minimized insertion loss to produce a system performance of outstanding quality while achieving signal-to-noise ratios which only full light transmission analyzers can perform.

A wide variety of process interfaces including fiber-optic probes and flow cells allow **BRIMROSE** to implement successful solutions in many different industries.



Typical Applications

- Hydrocarbon: Gasoline, Diesel, and Kerosene blending
- Polymer: Analysis for chemical, physical, and mechanical properties of polyolefin and resins, polymerization monitoring, NCO values, catalyst identification on-line
- Pharmaceutical/Chemical: Reaction monitoring, pareutezal product inspection, solvent recovery, distillations, and 100% inspection
- Dairy: Fat, protein, pH, lactose, moisture, and more.
- Pulp & Paper: Green, white, and black liquor process control and monitoring

And much, much more.....

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Specifications	
Luminar 3060	AOTF-NIR Multiplexer
Spectral Range Options	850-1700 nm, 900-1800 nm, 1100-2300 nm
Measurement Modes	Transmission, Reflectance and Transflectance
Spectral Resolution	2-10 nm
Wavelength Accuracy	± 0.5 nm
Wavelength Repeatability	± 0.01 nm
Ambient Light Rejection	> 10 ⁶
Signal Digitalization	16-bit A/D (1 part in 65,536)
Non-Linearity	0.1%
Sampling Speed	Up to 4000 wavelength/sec (2000 Series) Up to 16,000 wavelength/sec (3000 Series)
S/N at 70% range (closed loop)	< 10μabs in transmission, and < 40μabs in reflectance
Process Control	16 A/D Channels, D/A Channels and 16 digital I/O Channels fully accessed via Macro, Modbus Interface
Enclosure	NEMA 4X, 12X; Explosion-proof options available
Diagnostic	10 Built-in monitoring sensors
Optical Fiber Cables	Low OH silica fiber for Near-IR/fluoride fiber for extended Near-IR
Channel Number	Up to 16
Switching Time	< 0.25sec for any channels
Power Requirements	24 VDC, 110Watts, 110VAC 60Hz, 220VAC 50 Hz
Software	Windows based analytical software for data acquisition

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