

# Luminar 2060/3060 Multiplexer

The **Luminar 2060/3060 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 polyolefins 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...**

www.brimrose.com

Specifications

**Luminar 2060/3060 Multiplexer**

Spectral Range Options	850-1700 nm, 900-1800 nm, 1100-2300 nm, 1200-2400 nm
Spectral Resolution	2-10 nm
Wavelength Accuracy	± 0.5 nm
Wavelength Repeatability	± 0.01 nm
Scan Speed	Up to 4000 wavelength/sec (2000 Series), 16000 wavelength/sec (3000 Series)
Ambient Light Rejection	> 10 <sup>6</sup>
Signal Digitalization	16-bit A/D (1 part in 65,536)
Non-Linearity	0.1%
Signal-to-Noise Ratio @ 70% (Closed Loop)	Transmission <10 µabs, Reflection <40 µabs
Measurement Modes	Transmission, Reflectance, Transflectance
Process Control I/O	16 A/D Channels, D/A Channels and 16 digital I/O Channels fully accessed via Macro, Modbus Interface
Enclosures	NEMA 4x, 12, Explosive Proof
Power	90-240 VAC, 50/60 Hz, 110 Watts
Optical Fiber Cables	Low OH silica fiber for Near-IR/Fluoride fiber for extended Near-IR
Channel Number	2-16
Switching Time	< 0.25 sec for any channels
Diagnostic	10 Built-in monitoring sensors
Software	Windows based analytical software for data acquisition, processing, and prediction. Process MACRO language.

**BRIMROSE**

**Brimrose Corporation of America  
19 Loveton Circle  
Hunt Valley Loveton Center  
Sparks, Maryland 21152 USA**

Phone: (410) 472 7070 Fax: (410) 472 7960 Email: [process@brimrose.com](mailto:process@brimrose.com)