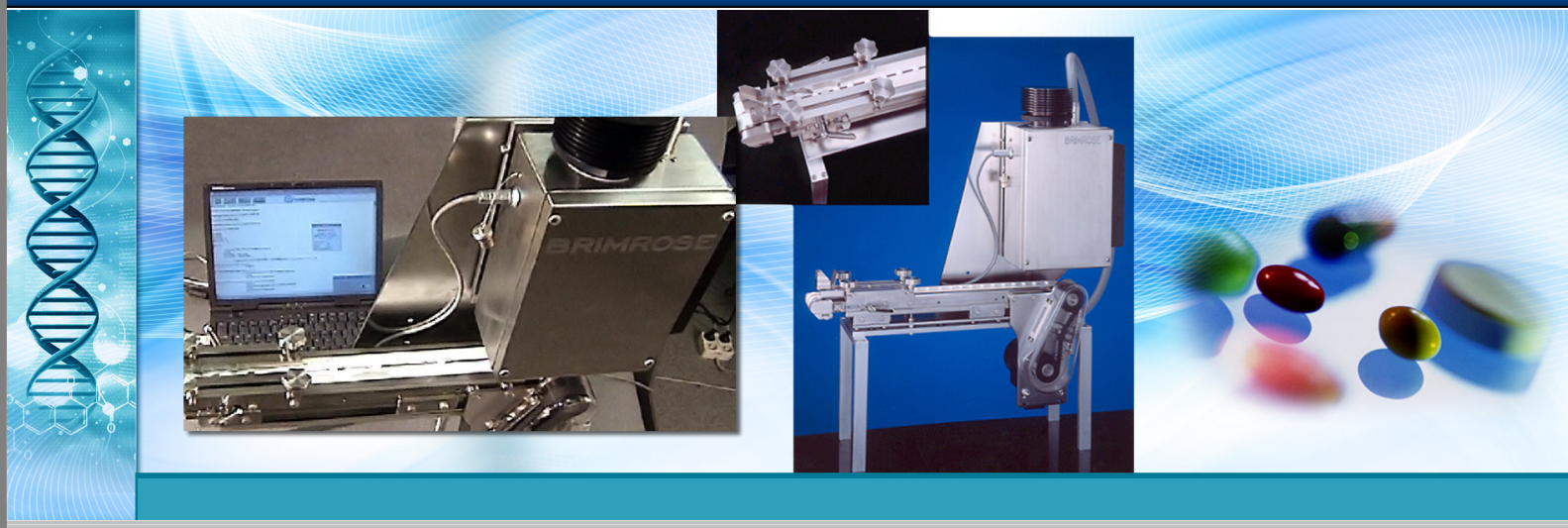
Creating Solutions through Technology . Real - Time Results

## Robust . Reliable . Accurate

# Tablet AOTF-NIR Analyzer




- Non-destructive, Real-time Tablets Analysis
- Brimrose Analytical Software - Snap32!
- Adjustable Alignment to Suit Different Tablet Sizes

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

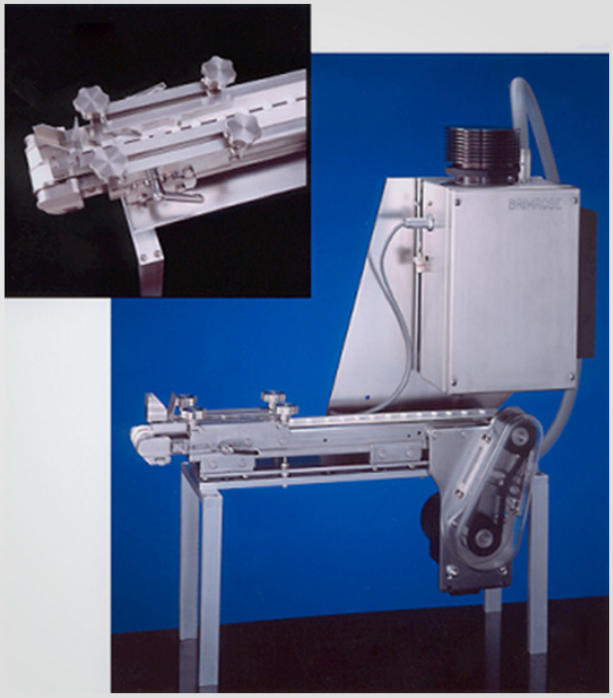
Luminar 3077

Creating Solutions through Technology . Real - Time Results

## Solid-state Tablet AOTF-NIR Analyzer with FDA Approved NEMA 4x Conveyor Belt

Brimrose solid-state AOTF-NIR Tablet Analyzer is designed for non-contact, non-distructive measurements of chemical and physical properties of tablet transmission and tablet diffuse reflectance modes. The analyzer includes special Belt Driven mechanism to create total automatic solution for tablet manufactures.

The Luminar 3077 Tablet AOTF-NIR Analyzer includes NEMA 4X stainless steel optical module with transmission and reflection detectors, NEMA 4X belt driven orientator, FDA approved conveyor belt, 16,000 wavelengths per second, embedded computer, modem, Ethernet interface, SNAP32! Brimrose analytical software with Brimrose MACRO Language.



FDA Approved NEMA 4X Conveyor Belt Driven

## Key Features

- NEMA 4X Stainless Steel Optical Module with Transmission and Reflection Detectors
- NEMA 4X Belt Driven Orientator
- FDA Approved Conveyor Belt
- Fast Scanning Speed - 16,000 wavelengths/sec
- SNAP32! Brimrose Analytical Software with Brimrose MACRO Language

## Real-time Applications

- **Pharmaceutical:**
  Tablet Transmission/Reflection conveyer belt automated monitoring system
- **Chemical and Physical properties:**
  Measurements of Chemical and Physical Properties in Tablets: I.D. of active (& excipient), moisture, dissolution, disintegration, hardness, density, and dosage levels

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



19 Loveton Circle, Hunt Valley Loveton Center, Sparks, MD. 21152 ▪ Tel: +1 410 472-7070

Creating Solutions through Technology . Real - Time Results

## Technical Data Specifications

| Spectrometer Name | Luminar 3077 Tablet AOTF-NIR Analyzer |
|---|---|
| **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 |
| **Sampling Area** | 5 x 3 mm |
| **Diagnostic** | 10 Built-in monitoring sensors |
| **Power Requirements** | 24 VDC, 110VAC 60Hz, 220VAC 50 Hz |
| **Enclosure** | NEMA 4X Stainless Steel Optical module with transmission and reflection detectors |
| **Outputs** | PC Interface via Ethernet connection |
| **Software Package** | Windows-based analytical software for data acquisition |
| | |
| **Options:** | |
| ➢ Input/Output Capability<br>➢ Wireless Ethernet Interface | |

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