

# StreamLine

# The Inline NIR Sensor that Adapts to Your Process

Highly customizable inline FT-NIR sensor that delivers continuous, autonomous real-time material composition monitoring.



## **How Si-NIR StreamLine Improves Your Process**



# Stay on Track in Real Time

Continuous feedback on material composition reduces risks of drift, waste, and costly rework.



#### Adapt to Your Environment

Whether on a line, in a plant, or outdoors, the sensor fits seamlessly into your workflow.



#### Rely on Consistent Results

Minimize downtime and uncertainty with autonomous operation and reliable performance in tough conditions.

# Monitor material composition changes when and where they happen



## Real-Time Decisions, Without Delays

Fast 1-second scans provide instant feedback on powders, liquids, grains, and mixtures empowering operators and systems to act immediately.



# Engineered for Reliability

Delivers stable performance even in harsh indoor and outdoor conditions. Built for always-on operation with built-in self-calibration feature to auto-adjust performance for any possible drifts.



# Seamless Integration Into Your Systems

Straightforward installation with PLCs, control systems, and monitoring platforms.



# Scalable Across Facilities

Deploy on a single line or roll out enterprise-wide. Models transfer across sensors for consistent results everywhere.

## **Adaptability Across All Layers of Integration**

#### Mechanical Mounting



Custom brackets and flanges for pipes, conveyors, ducts, or machinery.

## Calibration Models



Build, update, and expand models as your needs evolve.

#### Data Interfaces



Ethernet, Wi-Fi, and TCP/IP for seamless connectivity.

### Software Integration



SDKs and PLC-ready options for fast system compatibility.

### Networked Operation



Manage and scale multiple sensors across facilities.

## **Technical Specifications**

Parameter	Value
Wavelength Range	1,350 - 2,550 nm
Resolution	16 nm at λ=1,550 nm
Signal-to-Noise Ratio	≥ 2,500:1
Operating Temperature	-5:50 °C
Diameter of Collected Light Beam	≥ 10 mm
Working Distance	~ 13 mm
Nominal Sample Position	3 mm
Bulb Lifetime	≥ 60,000 hours
Minimum Acquisition Time	1 s





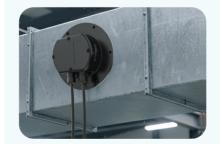


# Plug-and-Play Kits to Streamline Evaluation



Lab Evaluation Kit

Early exploration in a controlled setting



Indoor Evaluation Kit
Testing in production-like
environments



Outdoor Evaluation Kit

Validation in harsh or remote conditions



Ready to build sensing into your process?

Contact us to explore how Si-NIR StreamLine can adapt to your environment.





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