



## Si-NIR 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



## Technical Specifications

Parameter	Value
Wavelength Range	1,350 – 2,550 nm
Resolution	16 nm at $\lambda=1,550$ nm
Signal-to-Noise Ratio	$\geq 2,500:1$
Operating Temperature	-5:50 °C
Diameter of Collected Light Beam	$\geq 10$ mm
Working Distance	$\sim 13$ mm
Nominal Sample Position	3 mm
Bulb Lifetime	$\geq 60,000$ 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.



Copyright 2025, All Rights Reserved

[www.si-ware.com](http://www.si-ware.com)  
[+1 650 257 9680](tel:+16502579680)  
[hello@si-ware.com](mailto:hello@si-ware.com)

FOLLOW US



BR-005-0926-EN-V1.0