

NIR and Image Analysis - Combined



Traditionally, Branscan instruments have non destructively tested powders for impurities using image analysis. The addition of InNIRsCAN to the online system line up is a natural progression.

Suitable for **Chemicals, Plastics, Minerals and Food**, InNIRscan is a modular instrument, consisting of up to three measuring sensors:

- a camera for image analysis
- NIR for moisture analysis
- a Colour Sensor



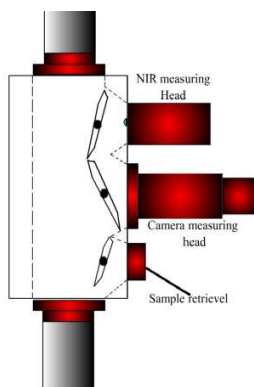
Sensor

The InNIRscan NIR is a Diode Array scanner in a modular concept: Sampling-interface, Fibers and spectrometer can be constructed in many possible setups. A multiplexer makes it possible to extend to multiple channels.



Modular Scanner

Multi-head Systems available



Multi-head options

InNIRscan can also be run as a multi head system, allowing easy measurement across multiple points in the mill, ideal for monitoring blending or debranning. With InNIRsCAN installed, laboratory testing is kept to a minimum, which in turn increase productivity and profits.



Multi-head on the production line

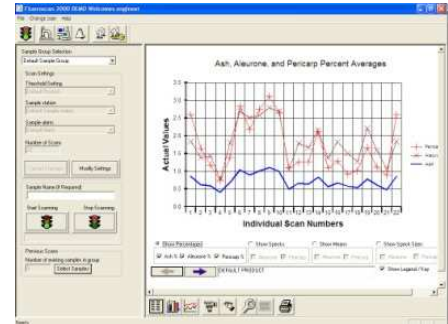
Sample Collection – New!

The contact head allows the sample to be captured after scanning and diverted to an attached sample cup for laboratory analysis.

This new feature means that NIR calibration validation has never been more simple. Why guess the bias required when with InNIRsCAN you can easily confirm it for you!

Sampling intervals can be set from as little as one a minute to as many as one every ten seconds (depending on the product flow), giving the millers real time information on the product being produced.

All of the measured values are displayed as both numbers and in a trend graph on the computer screen; this data can then be automatically stored on a network, sent to a printer or even transmitted to a PLC.



Technical Details

InNIRScan spectrometers :

Rugged customized design, 19"
 High Speed measurement (1000/s)
 High Sensitiviteit InGaAs detectors
 Spectral ranges between 550 and
 2100 nm
 Wavelength accuracy < 0.5 nm
 Bandwidth < 10 nm , 256 Pixels

 2-4 channel multiplexer

Innovative Polychromator:

Diode array
 Extremely low scattered light and
 dark current
 Innovative transmission grating
 Integrated shutter
 SMA connection
 for fibers

Optional Configurations available

| | NIR Measurement | Camera | Colour Measurement | Sample Retrieval |
|-----------|--------------------|--------|-----------------------|---------------------|
| InNIRsCAN | ✓ | ✓ | ✓ | ✓ |

