INSPECTRA™

Inline NIR Spectroscopy Analyser

INSPECTRA is a system for inline palm oil quality monitoring utilising near infrared (NIR) spectroscopy technology with chemometrics modelling for real-time data analysis. Its provide continuous and in-process monitoring of key quality indicator of crude palm oil.

Overview

INSPECTRA offers real-time and inline analytical measurement for palm oil quality monitoring utilising NIR spectroscopy technology. It allows for a rapid, non-destructive and non-chemical measurement of key quality indicators such as free fatty acids (FFA), oil content, water content and non-oil solid that result in process optimization and higher cost-efficiency.

Features

INSPECTRA provides following features:

- **Chemometric Data Analysis and Prediction Model**
  INSPECTRA offers real-time quality control, a prediction model, chemometric data analysis for crude palm oil (CPO) classification and quantification.
- **Interactive Data Visualisation**
  The platform comes equipped with graphical user interface for data acquisition, remote monitoring and data reporting.
- **NIR Spectrometry**
  Spectrometry measurement is controlled through opto-electronics and optical signal processing.
- **Inline Process Control**
  INSPECTRA enables continuous sampling process, non-destructive sampling, and reagentless measurement. An optical sensor probe is used for process inline interface and withstand high temperature and high pressure flowing sample.

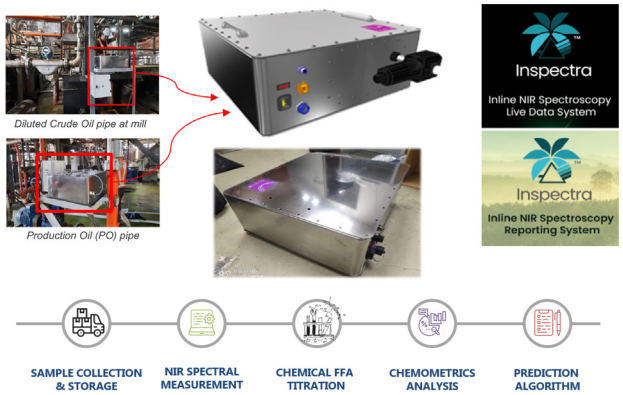
Technology Benefits

The main impacts of INSPECTRA are:

- **Algorithm predictive model mechanism,**
  INSPECTRA's operating system analyser has built-in algorithm mechanism process based on chemometric analysis during calibration process.
- **Data Analysis Visualising and Reporting**
  INSPECTRA provides live data visualization through web application platform interface (API) and able to access through portable devices regardless Windows, Android and iOS platform.

Applications

Plantation and Refinery (Palm Oil) Mill



INSPECTRA system in a palm oil mill environment

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