

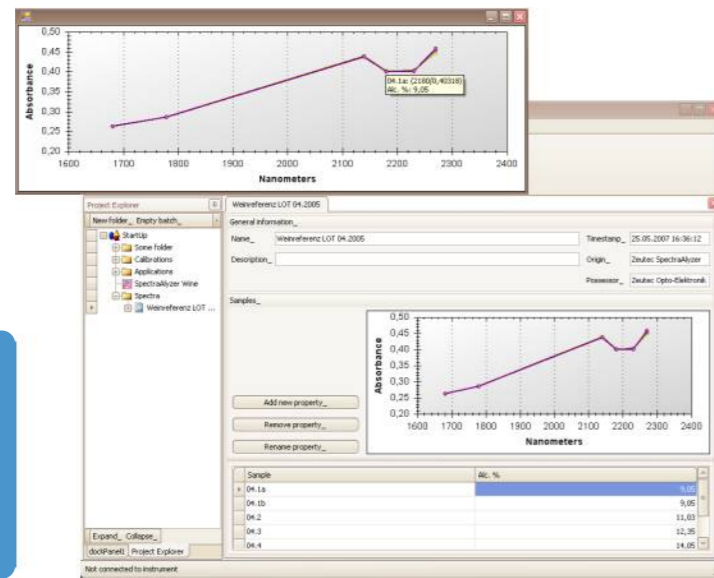
Application Worx

The SpectraAlyzer is a powerful and versatile tool for NIR analysis that works great without any PC support. But in order to embrace the full wealth of NIR spectroscopy it is necessary to tap into the additional processing power and storage capability of a PC. This is exactly where the Application worx software enters the scene. It connects to your SpectraAlyzer using optionally RS232, USB or Bluetooth.

The Explorer-like user interface is intuitively and easy to navigate, especially compared to other chemometry software packages. Each of the tasks of acquiring spectra, designing and tweaking calibrations, and finally doing a predictive quantitative analysis is neatly encapsulated and presented in a separate wizard. And of course Application worx speaks your language: we strive to translate it into every tongue our customers speak!

All data is stored in a fast SQL database which scales to your needs, not vice versa. For every important task you can generate reports, print or export them to a number of file formats, e.g. PDF and Excel, just to name two of them. And of course you can share samples with other chemometry software using the JCAMP import/export filter.

Acquiring and collecting sample data is as easy as pressing a button. The acquisition wizard helps you to set up a data collection. Laboratory references for each sample can be inserted during collection or any time later.

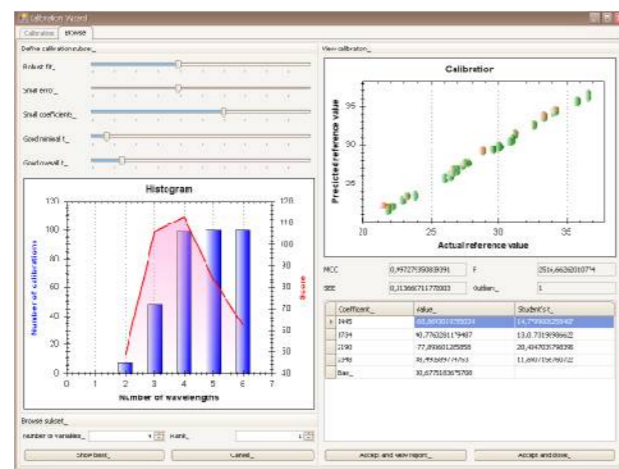


After sample acquisition, create MLR calibrations with the aid of the powerful calibration wizard. Using full combination search, it calculates every possible calibration and presents a well-chosen subset to you. The expert can browse these calibrations with an easy-to-grasp weight and score system and select the appropriate one. The layman can safely accept a calibration the wizard proposes.

Use this calibration in predictive quantitative routine analysis. A simple screen lets you analyse samples, shows a table and a graph with a history of prediction results and informs you if some samples fail to meet your quality parameters. So, you can closely monitor your production process and can quickly act and change parameters to assure the highest quality possible.

Features:

- Powerful tool for routine analysis and calibration development.
- No need to be an chemometry expert: the calibration wizard assists you in doing MLR calibrations.
- User friendly, multilingual interface makes working easy, even for untrained personnel.
- Various instrument settings including configuration management for FluidDrive and autosampler.
- Configurable result outputs via screen, printer or file to many common formats.
- Data export/import functions.

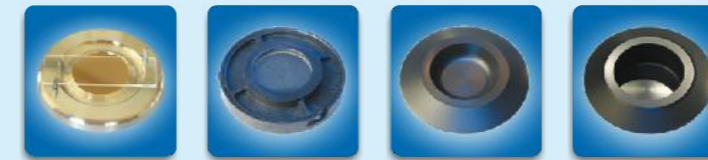


Software

Accessories

The standard cup provided is a good all-rounded. For some applications you may want to choose from our broad selection of special cups.

Furthermore a liquid cell, a rotating cup drawer for coarse samples, a serial printer and a variety of specialized sample cups are available as well as an "Accessory Kit".



Technical Data

For powders, solids, pasteous and liquids (liquid cell optional)

19 or 6 NIR filters SpectraAlyzer premium or basic

Spectral Range: 1445 - 2348 nm

Sample/Reference measurement for each filter

High Signal to Noise > 10000:1

LCD display 240x128 pixels

Central Operation Button "COB"

100 or 50 Products database SpectraAlyzer premium or basic

Auto-diagnostics

Printer (optional)

Standard Calibrations (optional)

Power requirements min. 90 V AC (50-60 Hz) max. 260 V AC (50-60 Hz)

Operating temperature 5 - 40° C non-condensing

Height: 490 mm, Width: 330 mm, Depth: 480 mm, Weight: 20 kg

www.spectraalyzer.com

ZEUTEK Opto-Elektronik GmbH
Kieler Straße 211, 24768 Rendsburg, Germany
Tel.: +49-4331-136 650, fax.: +49-4331-136 651
<http://www.zeutek.de>

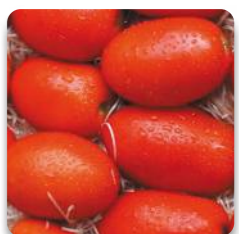
SpectraAlyzer

Fast and compact Near InfraRed analyzer for production monitoring and quality control of raw materials and finished products

Proven Concept!

Proven Technology!

Proven Performance!



Easy to calibrate!

Fast to operate!

Simple to update and extend!

Simultaneous determination of properties such as moisture, protein, sugar, alcohol, iodine number and oil content in food.

Production Monitoring of fat, moisture, crude fibre, starch and protein content in the feed industry (green feed, feed raw materials, mixed feed). Hydroxyl and acid number determination in the polymer industry.

and much, much more.....

A Multitude of Applications!

With the SpectraAlyzer ZEUTEC introduces a new NIR Analyzer that offers highest optical performance and long term stability based on a proven "Sample and Reference" measurement principle. The SpectraAlyzer was specifically designed for the analysis of powdered, pasteous, liquid and solid product samples. Sample containers and cells are available for each of those product groups. Serving as a "workhorse" in the routine laboratory or at-line analysis, its robust and durable design makes it the ideal instrument for food, agricultural or chemical industries.

Equipped with 6 or 19 Near InfraRed Interference filters providing most successful wavelength combinations, the SpectraAlyzer basic and SpectraAlyzer premium can be regarded as the top choice for a new investment or one to one replacements for old NIR analyzers without putting excellent working calibrations at risk.

Operation and easy Navigation!

The SpectraAlyzer is controlled via a sophisticated Central Operation Button "COB" (turn and push button) and four function keys just below the display.

The analyzing procedure is straightforward! Just put the sample in the sampling cup and place it in the sample drawer. Close the sample drawer or push the "COB" to start the analysis. After a few seconds the measurement results are shown on the build-in display and can be documented in a printed report. In conformance with GLP ("Good Laboratory Practice") requirements the last 100 measurements are stored in the Flash Memory of the instrument and can be easily retrieved. Within seconds a multi-component analysis of up to 15 properties of a sample can be performed simultaneously.



SpectraAlyzer



Unique Technology and Advantages!

Accurate!

Integrated analog signal conditioning and digital signal processors assure extremely fast data acquisition and high precision analysis and calculations.

Fast!

Measurement time down to a few seconds. High computing power and enhanced database functions enable easy calibration and fast analysis. A new Ethernet interface opens up direct network communications.

Sensitive!

Precision optics with outstanding low noise and automatic reference sampling for each wavelength.

Versatile!

Only one analytical instrument provides the simultaneous determination of a multitude of properties.

Modular!

A variety of interchangeable sampling devices opens up utmost flexibility in sample handling.

Easy to use!

"One key" operation with the Central Operation Button "COB" (turn and push button). Self-explanatory display dialog for easy operation.

Easy to start-up!

With one of our Standard Calibrations available for many products and properties world wide.

Stand alone operation!

The SpectraAlyzer requires no computer for operation.

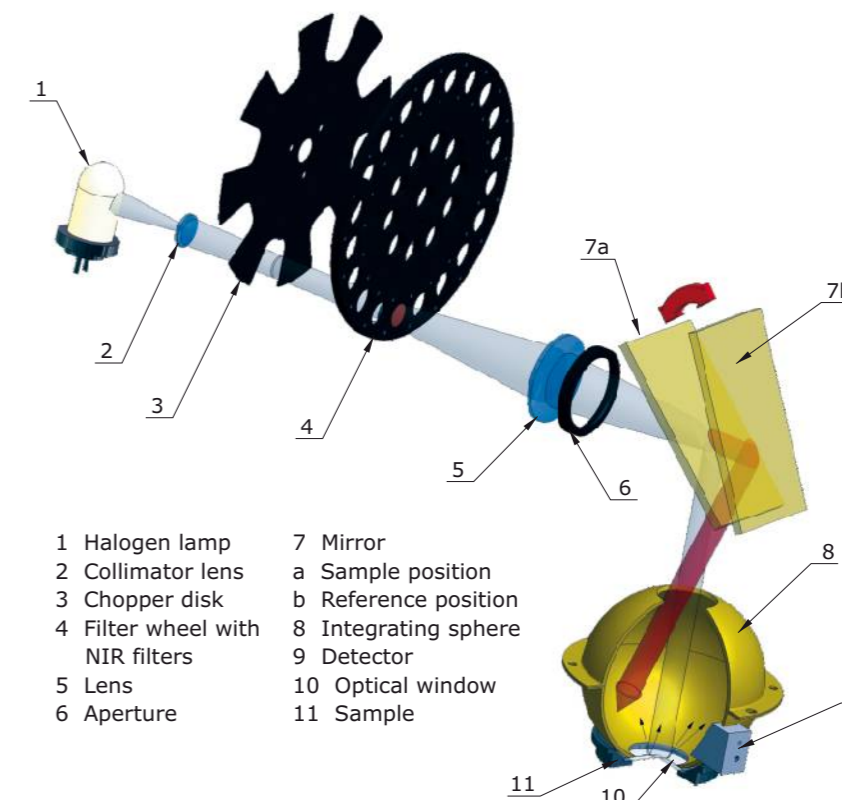
Environmentally friendly!

No chemicals are needed for sample preparation.

SpectraAlyzer Inside!

Both quantitative and qualitative Near Infra-Red analysis is based on the interaction of Near InfraRed light with the molecules of a sample.

The sample is irradiated with Near InfraRed light of specific wavelengths, selected from up to 19 high-precision interference filters. The light directed onto the sample is partly absorbed and partly reflected by the sample.



A part of the wall of the gold-coated integrating sphere contains a lead sulphide detector which measures the reflected portion of the incident light. The resulting spectral information is characteristic for the products and allows a determination of product-relevant properties.

The gold coated surface for the automated reference sampling also serves as an internal reference, guaranteeing long drift stability.