

Betaalbare NIRS analyse voor Agro en Foodtoepassingen van HiperScan

The dustproof Analysis System *Finder SD* is multifunctional. Due to the unit's internal calibration standards, the system continuously checks itself or is deliberately recalibrated.

The associated user-friendly software is adaptable to the needs of your customer applications. With the platform-independent drivers of HiperScan rapid integration into your application is immediately feasible.



The *Finder SD* combines *SGS1900*-NIR spectrometer in Czerny-Turner configuration with a stabilised light source, temperature control and integrated wavelength standards by NIST (National Institute of Standards and Technology) for automatic calibration of the wavelength axis.

The wavelength resolution is typically 10 nm, but can be adapted to the respective application (3 nm to 15 nm). The ambient temperature may be 15 ° C to 35 ° C.

Application examples:

- identification and quantitative analysis of organic substances e.g.:
 - cereals (content of water, protein and starch)
 - fat content in foods
 - water content in emulsions
- measurement of layer thicknesses, for example, in paints
- identification of plastics, for example, in the recycling industry

One of the strengths of the *Finder SD* is the possibility of a “stabilised data collection”.

To operate the most accurate quantitative analysis (for example, “What percentage of fat contains meat?”) reference measurements for the development of chemometric models under certain environmental conditions are first created. The environmental conditions in the reference measurements are the same as for later measurements in analysis mode. This approach is implemented in the *SD-Finder* by the following means:

- Using an integrated stabilised light source
- Thermal stabilisation of the spectrometer
- Use of integrated standards - wavelength standards by NIST
- Using a short-pass filter in the light path (optional)
- Measuring principle: diffuse reflection (solids) or Transflection (liquids) using a transflection stamps

instrumenten voor fysisch, chemisch en biologisch onderzoek

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