

# Diode Array 7250

At-line & Lab NIR Analysis System



Fast



At-line Ruggedness



Connectivity



Easy-to-Use

Accurate Analysis – Anything, Anywhere, Anytime, Anybody.

Accurate Analysis:

Any Anything Anywhere  
Any Anywhere Anytime  
Any Anytime Anybody  
Any Anybody Anywhere

**Fast, Accurate, Easy-to-use, Versatile, Robust.**



The most powerful solutions are often the most simple and elegant. The DA 7250 is our 3<sup>rd</sup> generation diode array based instrument and embraces this concept whole heartedly. We chose DA technology as it offers many benefits to instrument design that lead to more accurate analysis and simplicity of use.

## **Diode Array 7250**

At-line & Lab NIR Analysis System

# Accurate Analysis -

*The DA 7250 simply makes sense. It's fast, accurate, easy-to-use, versatile and robust. Our years of experience and expertise have gone into its design – optics, housing, sample presentation, workflow and software simplification. It comes in two versions – one for general use and a stainless steel, sanitary design version, for use in the food industry.*



**Robust and reproducible** Diode array technology allowed us to create an instrument with no moving optical components. This improves accuracy and stability, and means that hardware can be standardized, minimizing instrument differences. The DA 7250 sets new standards in calibration transferability. It also removes sources of potential failure as there are no expensive monochromators to wear out and no wiggling mirrors that can be subject to vibration.



## **Fast and accurate spectra**

The DA 7250 uses a sensor with excellent signal/noise ratio and sensitivity. In combination with the outstanding energy throughput, the DA 7250 collects many spectra per second, as the sample moves. The speed allows the instrument to automatically standardize the wavelength and absorbance scales on every single analysis. This improves accuracy, corrects for changes in ambient conditions and alerts users to potential problems.



**Connectivity** Our software platform is designed for optimal connectivity and data is readily exchanged with other programs. We offer innovative WEB reporting for data viewing from anywhere

using a web browser. Ethernet and USB ports are provided while devices such as a Wi-Fi dongle or cellular/mobile modem are supported. The instrument can be remotely administered through Team Viewer and supports any Windows peripherals including printers and bar code readers.



# Anything, Anywhere,

Grains, powders, pellets, pastes, slurries and liquids

## Anything

Grains, powders, pellets, pastes, slurries and liquids – nearly any type of sample – can be analyzed on the DA 7250, with no requirement for expensive, cumbersome modules. A large, representative sample area is analyzed meaning little or no sample preparation is required. The use of open-faced dishes removes tedious and time consuming cleaning between analyses. Available factory calibrations cover a wide variety of products and parameters and are built from our global database which encompasses hundreds of thousands of samples. The DA 7250 is ISO 12099 compliant, ensuring analysis that follows international standards.

## Anywhere

The DA 7250 is as at home in the lab as it is at-line in processing environments. It uses no moving optical components and employs a solid state drive (SSD) making it vibration resistant. It is IP65 certified (dust proof/water resistant) and temperature stabilized for consistent results. The DA 7250 excels in dusty, dirty and otherwise challenging environments. In food production areas the stainless steel Sanitary Design model meets hygienic requirements. It is designed with an open analysis area and without sharp corners, making it easily cleaned.

In the Lab & At-line



# Anytime, Anybody.



**Industries:** Grain and Oilseed Processing, Dairy, Meat Processing, Animal Feed, Flour Milling, Petfood, Snackfoods, Starch Production, Sugar Production, Bakeries, Ethanol Production, Wood-based Products.

**Parameters:** Moisture/Dry Matter, Solids, Protein, Fat/Oil, Ash, Fiber, Starch, Amino Acids, Fatty Acids, Sugars, Brix, Lactose, and more.

## Anybody

Plant personnel to experienced chemists find the DA 7250 easy-to-use yet powerful. Its large touch screen with intuitive user interface and straightforward sample handling ensures rapid operator confidence. It's designed to eliminate sources of operator error producing accurate results regardless as to who performs the analyses. Accurate analysis is available at all times, enabling you to optimize and verify product quality 24/7, improving efficiency and reducing scrap.

## Anytime

Test samples anytime, with optimized workflow, little or no sample preparation, in just 6 seconds. When analysis results are needed, the DA 7250 provides them immediately. It automatically performs background standardization tests ensuring accuracy. Not only can samples be analyzed in essentially real-time, but analysis results are available anytime from any location around the world when attached to the company network.





**Sanitary Design (SD) Model:** The DA 7250 SD is designed for placement in labs and production areas where sanitary designs are required. The sanitary design limits surfaces, crevices and other locations where food material could adhere. The design is simple to clean, thereby reducing opportunities for microbial growth. The DA 7250 SD uses the same optics and calibrations and provides a case free of sharp edges, cracks, and crannies.

**Lab, At-line and Process:** The DA 7250 can be used in the lab and at-line. For continuous process analysis we offer two sensor models. The DA 73 series is used for in-line analysis and the DA 74 series for over-the-belt on-line analysis. As they are based on the same NIR technology, many calibrations can be transferred between the models.



## Key features

- 6-second analysis of all types of samples
- Easy touch-screen operation
- IP65 certified for dust- and water resistance
- Accurate – automated self-test before every analysis
- Anytime access to results via web browser

## Specifications

**Analysis time:** 6 seconds

**Sample types:** Grains, Pellets, Powders, Pastes, Slurries, Liquids and more

**Sample area analyzed:** Up to 108 cm<sup>2</sup>

**Sample volume:** Flexible 1-400 ml, depending on sample type

**Display:** 12" color touch screen

**Language:** Multiple languages included. English, Chinese, Thai, Russian and many more

**Interfaces:** USB and Ethernet

**Operating temperature range:** 5 to 40°C

**Ingress Protection per IEC60529:** IP65 certified

**Wavelength Range:** 950-1650 nm

**Detector:** Indium Gallium Arsenide (InGaAs)

**Wavelength Accuracy:** < +/-0.05 nm

**Power requirements:** 115 or 230V, 50 or 60 Hz (specify by order)

**Dimensions ( HxWxD ):** 517 x 370 x 390

**Net Weight:** 20 kg