

Diode Array 7250

At-line & Lab NIR Analysis System



Benefits:

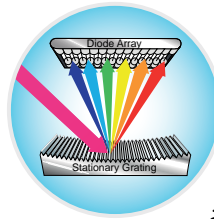
- Fast & Accurate
- Easy-to-use & Versatile
- Rugged, Dust Proof Hardware
- Optimal Connectivity Options

Accurate Analysis - Anything, Anywhere, Anytime, Anybody.

Perten
INSTRUMENTS

Accurate Analysis -

The most powerful solutions are often the most simple and elegant. The DA 7250 is our 3rd 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.



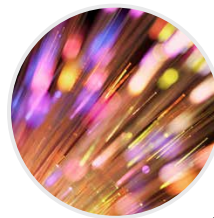
No Moving Optical Components

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 Data Collection

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



Connectivity

Our software platform is designed for optimal connectivity and data is readily exchanged with other software. 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 modules. A large, representative sample area is analyzed, which means that typically no grinding or other sample preparation is required. Thanks to the use of open-faced dishes no tedious and time consuming cleaning is necessary 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 which follows international standards.

Anywhere

The DA 7250 is as at home in the lab as it is at-line in processing environments. It is IP65 rated and temperature stabilized for consistent results. The instrument uses no moving optical components and employs a solid state drive (SSD) making it vibration resistant. Place it in dusty, dirty and otherwise challenging environments. The same analyzer platform is also available as a process sensor for real-time analysis on-line and in-line, offering transferability between lab and process.

In the Lab & At-line



Anytime, Anybody.



Products: Flour Milling, Grain Processing, Corn Milling - Wet & Dry, Oilseed Processing, Feed Milling, Petfood Manufacturing, Snackfoods, Starch Production, Bakeries, Ingredients & Mix Plants, Ethanol Production, Biofuels & Meat.

Parameters: Moisture/Solids, Protein, Fat/Oil, Ash, Fiber, Starch, Amino Acids, Fatty Acids, Starch, Sugars, Much more!

Anybody

Plant personnel as well as 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 can be viewed anytime from any location around the world attached to the company network.





Accurate Analysis:

Any Anything Anywhere
Any Anywhere Anytime
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Anybody Anything

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Diode Array 7250

At-line & Lab NIR Analysis System

Key features

- 6-second analysis of all types of samples
- Designed for optimal accuracy
- ISO 12099 compliant
- Automated self-test and diagnostics
- Hardware standardized at factory
- IP65 rated for dust and water resistance
- Data exchange and remote access
- Remote instrument administration
- Wide range of factory calibrations



Specifications

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

Dimensions (HxWxD): 517 x 370 x 390

Net Weight: 20 kg

Operating temperature range: 0 to 40°C

Ingress Protection per IEC60529: IP65, completely protected against dust & water

Wavelength Range: 950–1650 nm

Detector: Indium Gallium Arsenide (InGaAs)

Wavelength Accuracy: < +/-0.05 nm

Connection Ports: USB and Ethernet

Operation: Color touchscreen, mouse, or keyboard



Established For over fifty years, Perten Instruments has supplied innovative analyzers to the food and agriculture industries. Our diode array instruments are used worldwide in all types applications – seed breeding, snackfoods, animal feed production, ethanol production, dairies, oilseed processing to name a few. Our customers include large multi-national companies, renowned universities, and innovative entrepreneurs.

Supported When buying advanced equipment such as the DA 7250, reliable, responsive support and expertise is critical to capturing the greatest value from your instrument. Perten Instruments has supplied and supported NIR instruments for more than 30 years. We provide qualified support around the world via our regional support centers and with our local partners.