

Novel handheld analytical device to optimize quality and efficiency of animal feed production

17 July 2023 | News

Si-Ware Systems, Dairyland Lab collaborate extending streamlines End-to-End testing processes reducing costs, enhancing quality and improving consistency at animal feed value chain



Si-Ware Systems, Dairyland Lab collaborate extending streamlines End-to-End testing processes reducing costs, enhancing quality and improving consistency at animal feed value chain

An innovative handheld analytical solution designed for the analysis of feeds and feed ingredients, with a specific focus on enhancing operations within feed mills, has been developed by Si-Ware Systems, a leading provider of integrated Near Infrared Spectroscopy solutions, in collaboration with Dairyland Laboratories, a renowned agricultural testing laboratory. Feed mills will be able to save time, money, and effort with this comprehensive solution, which ensures higher productivity, quality control, and easier FSMA compliance record keeping.

The collaboration between Si-Ware Systems and Dairyland Laboratories addresses critical pain points within the animal nutrition industry. By providing real-time, on-site analysis with laboratory-grade accuracy, this innovative solution reduces costs, enhances quality, and improves consistency to all stakeholders in the animal feed value chain.

The partnership leverages Si-Ware Systems' all-in-one NeoSpectra platform and Dairyland Laboratories' proficiency in feed testing. By combining their strengths, the two companies have developed a powerful tool that enables feed mills to perform accurate analyses more often and in less time.

Kyle Taysom, CEO of Dairyland Laboratories stated, "Until recently, quality assurance testing for feed mills required samples to be sent off to a lab, the number of decisions those tests could inform was severely restricted to simple compliance and long-term trend analysis. With NeoSpectra, feed mills now have access to practical real-time analysis which opens

completely new decision points and actions that can be taken to improve feed quality and consistency.â”•

The feed mill analysis package starts with Si-Ware Systems' NeoSpectra Scanner, intuitive mobile apps for iOS and Android devices, and the NeoSpectra Cloud portal. With this innovative platform, users can analyze a sample in seconds from anywhere, and the results are instantly displayed on the mobile device and automatically synchronized to the NeoSpectra portal for further analysis, reporting, and secure record keeping.

For the accurate analysis of feeds and feed ingredients, Dairyland Laboratories has developed, tested, and validated models to obtain results for critical parameters such as moisture, protein, fat, and fiber content, among others. This complete solution not only streamlines testing processes and reduces costs associated with laboratory testing but also enhances quality control, leading to improved product consistency.

Mostafa Medhat, VP of Product & Business Development at Si-Ware Systems, emphasized the solution's benefits for feed mills, stating, â”•“The integration of Dairyland Laboratoriesâ”• robust models for feed and feed ingredients into our platform allows offering a new holistic end-to-end approach to quality control and process optimization of animal feed production. For the first time, feed mill operators can increase the frequency of testing at each stage of production without increasing analysis cost. In addition, feed mill managers can efficiently organize and retrieve historical records of the results to monitor supplier quality and better comply with regulations.â”•