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Malvern Panalytical releases Hydro Insight: A deeper level of materials insights

Malvern Panalytical, a leading analytical instrumentation supplier, today launches the Hydro Insight, a game-changing dynamic imaging accessory for its Mastersizer 3000 particle sizing instrument. The Hydro Insight provides an ‘extra pair of eyes’ for researchers, scientists, and quality control managers. Through real-time particle imaging, this tool helps them to see beyond particle size – powering more in-depth materials research and exciting scientific advances.

Sitting alongside the market-leading Mastersizer 3000 laser diffraction system, the Hydro Insight provides live particle images by combining Vision Analytical’s dynamic imaging expertise with Malvern Panalytical’s flow cell technology. Based on these images, it also generates quantitative data on particle shape, alongside particle size data from the Mastersizer 3000. The combination of high-resolution imaging with high-range laser diffraction data provides a more comprehensive overview of materials than laser diffraction alone.

Thanks to these unique features, the Hydro Insight delivers deeper insights into how the combination of particle size and shape affects material behavior. Next to that, the particle images also make it easier to troubleshoot unexpected particle size results. And all these benefits also make it quicker and simpler for scientists to develop new particle sizing methods or switch from sieving to laser diffraction – opening exciting new possibilities for in-depth materials analysis and, subsequently, high-performance products.

Anne Virden, Product Manager Micro-Materials: *“I’m very excited with the launch of the Hydro Insight – and all the important scientific advances it will unlock! By combining Malvern Panalytical’s laser diffraction expertise with Vision Analytical’s dynamic imaging knowledge, the Hydro Insight will help enable groundbreaking research and ultimately accelerate scientific progress. As such, the tool shows how the whole is bigger than the sum of its parts. An exciting future awaits!”*

On behalf of Visual Analytical, President Peter Bouza emphasizes the direct benefits of the collaboration for the market: *“Many companies struggle with optimizing their raw material processes to improve speed-to-market and reduce costly down-time. As a highly respected leader in the scientific field, Malvern Panalytical has always been the predominant solution-driven partner to help industry. Collaborating with Malvern Panalytical will offer complementary information to further assist customers offering world-class valuable information unavailable from any other particle analysis equipment.”*

About Malvern Panalytical

When you make the invisible visible, the impossible is possible.

Malvern Panalytical harnesses the power of its high-precision analytical instruments to make the invisible visible and the impossible possible. Through the chemical, physical and structural analysis of materials, our analytical systems and services help our customers to create a better world, helping them to improve everything from the energies that power us and the materials we build with, to the medicines that cure us and the foods we enjoy. We partner with many of the world’s biggest companies, universities and research organizations. Our customers value us not only for the power of our solutions, but also for the depth of our expertise, collaboration and integrity. With over 2200 employees, we serve the world, and we are part of Spectris plc, the world-leading precision measurement group. Malvern Panalytical. We’re BIG on small™.

www.malvernpanalytical.com



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Malvern Panalytical. We're big on small.

About Visual Analytical

Founded in 2008, Vision Analytical Incorporated began with a team of highly experienced Engineers with decades of experience in the scientific field, including many years working together in a medical device environment. Vision Analytical's particle analysis experience spans from hardware development to service and technical support, all centered around one focused core technology. Image Analysis. Continuously expanding its product portfolio centered around this one core technology has facilitated Vision Analytical products to be the best in class when it comes to delivering customer value never available before.

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PRESS RELEASE



HYDRO INSIGHT: A WINDOW TO DEEPER MATERIALS INSIGHTS



Malvern Panalytical releases Hydro Insight: A deeper level of materials insights.

(Photos: Malvern Panalytical)

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