

Press release

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PANalytical launches Aeris, a new benchtop X-ray powder diffractometer

A surprisingly intuitive companion for everyday X-ray diffraction

1 November 2016, Almelo, the Netherlands. PANalytical, world's leading supplier of analytical X-ray instrumentation and software, announces the launch of Aeris, their new X-ray powder diffraction (XRD) benchtop instrument. Ease of use and maximum benefits for the user have been the key aspects of this newly developed system, which provides fast and precise phase information of the materials analyzed.

Aeris is accessible for everyone – its built-in touch screen with the intuitive interface directly displays all results. At the same time Aeris is designed for low cost of ownership – it only requires a single-phase power outlet and neither needs cooling water nor compressed air. Nevertheless, as the instrument incorporates many technologies proven on PANalytical's high-end systems, its performance is exceeding typical benchtop X-ray diffractometer performance. Data quality and speed of data acquisition have so far only been observed on full-power systems. Additionally, Aeris is the first benchtop XRD system that is fully automatable and can easily be incorporated in industrial production control.

As many industries have specific demands for their materials' analysis, Aeris editions are available, which have been tailored to the specific needs of the cement, mining and metals industries. They provide fast and precise mineralogical phase information, which can be used for control and optimization of the production process. The Research edition of Aeris, on the other hand, is designed for quick XRD scans in any laboratory and is easily accessible for students. Especially with its unique 2D option it also serves as an ideal instrument for teaching XRD.

Harald van Weeren, product manager at PANalytical says: "We at PANalytical are proud that we have succeeded in developing an XRD instrument that is so easy to use and at same time delivers such excellent data quality so quickly. This makes Aeris the ideal instrument for everyday X-ray diffraction analysis for everyone."

For more information please visit our <http://xrdiseasy.com/>.

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Caption: Aeris – PANalytical's new, easy-to-use benchtop X-ray powder diffractometer.

Note to the editor

About PANalytical

PANalytical's mission is to enable people to get valuable insight into their materials and processes. Our customers can be found in virtually every industry segment, from building materials to pharmaceuticals and from metals and mining to nanomaterials. The combination of our software and instrumentation, based on X-ray diffraction (XRD), X-ray scattering, X-ray fluorescence (XRF) and near-infrared (NIR) spectroscopy as well as pulsed fast thermal neutron activation (PFTNA), provides our customers with highly reliable and robust elemental and structural information on their materials and is applied in scientific research and industrial process and quality control.

PANalytical employs over 1,000 people worldwide. The company's headquarters are in Almelo, the Netherlands. Fully equipped application laboratories are established in Japan, China, the US, Brazil, and the Netherlands. PANalytical's research activities are based in Almelo (NL) Supply and competence centers are located on two sites in the Netherlands: Almelo (X-ray instruments) and Eindhoven (X-ray tubes), in Nottingham, UK (XRF applications and standards), in Quebec, Canada (fusion sample preparation) and in Boulder CO, US (near-infrared instruments).

PANalytical is active in all but a few countries of the world. This worldwide sales and service network ensures unrivalled levels of customer support.

The company is certified in accordance with ISO 9001 and ISO 14001.

Visit www.panalytical.com for more information about our activities.

PANalytical is part of Spectris plc, the productivity-enhancing instrumentation and controls company.

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