

Revolutionary technology and improved sensitivity mean fast, accurate X-ray fluorescence (XRF) analysis every time with the new Vanta range from Olympus. The Vanta is the most ruggedized, feature-rich, hand-held XRF analyser produced by the company to date and brings the latest XRF capabilities to a wide and diverse range of industries. The Vanta family includes the M, C and L series covering all performance and budget requirements.

The Vanta has been developed to operate in the harshest environments, making it ideal for the toughest applications including mining & exploration, manufacturing, oil & gas, scrap and precious metals. "The ruggedness of the Vanta is what really sets it apart from its competitors," said Jake Jarvinen, Product Manager at Olympus. Passing "Mil-Std 810" 4 foot drop test and with IP65/64 rating (C&L/M series), the Vanta stands well above the competition.

"Beyond its amazing durability the Vanta range incorporates upgraded electronics, enhanced signal processing and increased X-Ray count rates. All these unique features deliver improved speed, reliability and ease of operation—at an affordable price point," added Jarvinen.

Breakdowns cost time and money. Vanta analysers are built for increased uptime and a low cost of ownership. With its lightweight, handheld design and durable construction, the Vanta features rubber over-molding to protect the analyser and an ergonomic grip for comfortable operation. The detector shutter feature gives the sensitive detector an extra layer of protection and potentially preventing costly repairs.

Designed to be used in the harshest conditions, including the hottest locations of Australia, the Vanta has an optional cooling fan allowing operation at 100% duty cycle in temperatures as high as 50°C.

The Vanta utilises Olympus' new Axon™ technology that yields enhanced XRF signal processing for accurate, repeatable test results. "Axon uses proprietary ultra-low-noise electronics to enhance X-ray detector performance, resulting in higher X-ray counts per second and faster, more precise results," Jarvinen said. Analysers powered by Axon technology give confidence to the user by delivering the ultimate test-to-test and instrument-to-instrument repeatability. The resolution possible with the unit approaches fundamental, theoretical limits. This outstanding capability enables the Vanta to clearly separate crowded spectral peaks. This feature is important for the quantification of light elements in alloy or geochemical samples and precious metals.

The new models include features such as two optional cameras, integrated GPS, and an automatic time/date stamp that make it easy to customise, capture, and export comprehensive shot data for efficient record keeping and traceability. Wi-Fi and Bluetooth® connectivity are optional additions that simplify downloading of results for archiving.

The Vanta's unique combination of features is ideal for a range of applications. "The analyser is a powerful tool, yet simple to operate," Jarvinen added. "Operators can switch between modes at the touch of an onscreen icon."

The Vanta displays measured results and grade identification in seconds. With Olympus' unique Grade Match Messaging (GMM) feature you can assign customised messages to any grade and use real-time or pop-up messages for immediate sorting instructions and improved user efficiency. In-built reporting software then allows for fast and professional reporting and certificate generation your analysis.

Olympus—a world-leading manufacturer of optical, electronic and precision engineering products—continues to be at the forefront of the development of X-ray fluorescence analysis technology. XRF analysers provide fast, non-destructive qualitative and quantitative characterisation of materials.

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