

OLYMPUS®

Your Vision, Our Future

Handheld X-ray Fluorescence

VANTA Series

VANTA

Rugged. Revolutionary. Productive.



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Olympus' new Vanta™ analyzer is our most advanced handheld X-ray fluorescence (XRF) device. These rugged, powerful, and intuitive instruments provide rapid, accurate element analysis and alloy identifications to customers who demand laboratory-quality results in the field.

Vanta handheld XRF analyzers are some of the toughest devices Olympus has ever made. Their rugged and durable design makes them resistant to damage for greater uptime and a lower cost of ownership. With intuitive navigation and configurable software, the Vanta series are easy to use with minimal training for high throughput and fast return on investment. Olympus' innovative Axon™ technology means Vanta analyzers give you accurate results and help boost productivity no matter the environment or working conditions.

- Exceptional durability under extreme conditions
- Analytical excellence
- Optional Wi-Fi and Bluetooth® for real-time data sharing
- Intuitive user interface

Rugged

Working conditions can be tough on electronic devices, often causing breakdowns that cost time and money. Vanta™ analyzers are durable for increased uptime and a low cost of ownership. The Vanta series are drop tested using U.S. Department of Defense methods (MIL-STD-810G), reducing the risk of damage and costly repairs when a device is dropped or jostled.

Vanta devices are also IP 65* rated dust and water resistant to protect against the hazards found in even the most challenging environments. Able to withstand a temperature range of -10 °C to 50 °C (14 °F to 122 °F) at full duty cycle, Vanta analyzers ensure you achieve 100% uptime without wasting time waiting for your analyzer to cool, even in hot environments.** The detector shutter on C and M series models helps prevent punctures so you can analyze rough surfaces with confidence.

Revolutionary

Every circuit, contour, and interface of Vanta handhelds is engineered to be the best of its kind. Vanta analyzers incorporate Olympus' new Axon™ technology, a breakthrough in XRF signal processing that delivers accurate and repeatable test results. Axon uses ultra-low-noise electronics enabling higher X-ray counts per second and faster results. Coupled with a new quad-core processor, Axon makes Vanta analyzers remarkably responsive, pushing the limits of performance so you get the best results in the least amount of time. Axon technology provides both test-to-test and instrument-to-instrument repeatability. Whether it's your first test on your first analyzer or your thousandth test with your hundredth analyzer, the Vanta handheld XRF gives you a consistent result.

Productive

Vanta analyzers maximize user throughput and make data archiving easy. Application-specific software features improve user productivity for fast ROI.

- A new, intuitive interface (UI) enables the user to quickly navigate the device's settings and software functions.
- The UI can be configured based on a customer's specific needs. Users can customize which software features and functions are displayed on the main screen.
- Data are easily exported via a USB flash drive, Wi-Fi, or Bluetooth. Vanta analyzers are designed to enable powerful cloud applications.
- Vanta analyzers feature a clear, bright LCD touch screen that is readable in any light.
- Ergonomic buttons and an industrial-grade, push-button joystick enable users to easily navigate the system with gloved hands.
- Olympus' Vanta handheld XRF offers embedded GPS so users can pair results with precise GPS coordinates to document and map the location of elements. The optional 5-megapixel panoramic camera combines images of XRF data with GPS coordinates for inclusive archiving and streamlined reporting which provides unmatched data traceability to the field.



Vanta™ analyzers provide fast results in a diverse range of applications from alloy identification (ID) to archaeological site evaluation. Olympus’ range of application-specific software features enable operators to get the most out of their analyzers with simplified report creation and traceable results.

Scrap Sorting

Vanta analyzers for scrap sorting feature a SmartSort function that intuitively lengthens or shortens test times based on material to save time while providing the best possible match. The software automatically compares results to a library of alloy compositions to quickly match unknown materials to known alloys. The Grade Match Messaging feature enables users to program messages for each grade to display warnings or instructions. These messages make it easy for operators to use the analyzer with little training, putting the knowledge of your most experienced person to work for everyone.

Positive Material Identification (PMI) and Manufacturing Quality Control/Assurance

Vanta analyzers help ensure that refineries, petrochemical plants, and other processing facilities are safe by verifying that correct alloys are installed in critical locations by following American Petroleum Institute Recommended

Practice 578 (API-RP-578). Manufacturers and installers of expensive or mission-critical components and machinery can rest easy knowing that they are manufactured with the correct alloy grades, regardless of the material source. The Vanta series’ integrated GPS, optional panoramic camera, user-defined input fields, connectivity features, and extensive data reporting capabilities maximize inspector confidence and traceability to the field.

Regulatory and Safety Screening

The Vanta series screens for Pb, Cd, As, Hg, Cr, and other toxic metals in consumer products such as toys, apparel and footwear, and electronics to comply with RoHS regulations. With an optional camera, Vanta handhelds automatically archive sample images and results, making it the ideal tool for a reasonable testing program. Excellent sensitivity enables it to achieve low detection limits for pass/fail results of regulated elements.

Geochemistry and Mining Exploration

The Vanta™ handheld analyzer is the preferred tool for mining exploration including surface mapping and core analysis. It provides accurate and reproducible results in any environment. Vanta analyzers work all day even in the high temperatures found in desert or jungle environments; remote areas where instrument downtime cannot be afforded. Geo-referenced XRF data transfer wirelessly, via Bluetooth or Wi-Fi, for real-time geochemical mapping on a GIS-equipped tablet or laptop. Map, visualize, assess, and follow-up on targets in the field for faster in-field geological exploration and decision-making.

Jewelry/Precious Metals ID

Vanta analyzers can provide on-the-spot characterization of a range of jewelry and precious metals including Au, Ag, Pt, and Pd. The analyzer accurately classifies the purity of gold alloys (0–24 karat) and can also detect plating. With the high price of precious metals, return-on-investment is rapid.

Research and Education

Vanta instruments provide quantitative, semi-quantitative, and qualitative elemental information to guide research and identification of unknown or complex materials. Fast results keep students engaged with relevant data in applicable science-based projects.

Environmental Assessments

The Vanta analyzer readily screens soil and other materials for pollutant metals. Paired with GPS data, the results can be wirelessly transferred to a GIS to create pollutant metal maps. Get fast, decisive results for site characterizations, assessments, property evaluations, and contamination tracking.



The Vanta Series

No matter the model, the rugged, fast, and reliable Vanta™ analyzer features Olympus' Axon™ technology, and is rated to pass a 4 foot drop test, and is rated to IP 65.*



M Series

Our most powerful Vanta analyzers feature exceptional performance to handle the most demanding applications. Each M Series analyzer comes equipped a large-area silicon drift detector, your choice of either a tungsten (W) or rhodium (Rh) anode, and a 50 kV X-ray tube.

C Series

The C Series combine value with superior speed, limits of detection (LODs), and elemental range. Each C Series analyzer is equipped with a silicon drift detector and your choice of a Rh or W anode 40 kV X-ray tube, or a silver (Ag) anode at 50 kV X-ray tube.

Olympus

Olympus is a leader in XRF technology with a reputation for quality and accuracy. We are committed to providing the best technical support and after-sales service for our products, applications, training, and technologies through our global network of sales and service teams.

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OLYMPUS SCIENTIFIC SOLUTIONS AMERICAS
is certified to ISO 9001, ISO 14001, and OHSAS 18001.

*M Series analyzers are IP 64 rated.

** With optional fan. The fan assembly is IP 54 rated. Operates continuously at 33 °C without the fan.

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