

Vanta™ Handheld XRF Analyzer

Rugged. Revolutionary. Productive.



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The Right Answer in Any Environment



The Olympus Vanta™ handheld XRF provides immediate, on-site elemental measurements for a range of geochemical applications. Vanta analyzers provide power and flexibility across the entire mineral resource cycle:

- Greenfield and brownfield exploration
- Ore grade and process control
- Environmental monitoring and remediation
- Academic/educational research and teaching within the geological/environmental sciences

Vanta handheld XRF analyzers are IP55* rated to withstand rain, dirt, and dust and are drop tested to department of defense standards (MIL-STD-810G) to help prevent breakages and costly repairs. Their rugged and durable design makes Vanta devices resistant to damage for greater uptime and a lower cost of ownership.

With our innovative Axon Technology™, you get the right answer no matter the environment or working conditions. Vanta analyzers for geochemistry feature software designed in cooperation with industry experts to help meet the needs of mineral resource, environmental companies, and educational institutions. Integrated GPS enables users to instantly geo-reference exploration and environmental samples. Connectivity via wireless LAN and Bluetooth® gives users the flexibility to send results to base in real-time and seamlessly integrate data into third-party geological software programs. Vanta analyzers also offer onboard spectra viewing to quickly discriminate spectral overlaps.

Vanta™ XRF analyzers are effectively used across a range of mineral deposit types including:

- Base metals such as Cu, Pb, Zn, Ag, and Mo
- Gold, including pathfinders, and litho-geochemistry
- Uranium +/- rare earth elements and pathfinders
- Nickel sulfide and laterite deposits
- Iron ore and bauxites
- Rare earth elements (REEs) such as La, Ce, Pr, and Nd
- REE pathfinders including Y, Th, and Nb
- Phosphates, potash, limestone, magnesite, and other industrial minerals
- Epithermal Sn, W, Mo, Bi, and Sb deposits
- Mineral sands such as Ti and Zr
- Coal, oil, and gas through mud logging and trace element chemistry

Mineral Exploration



Vanta™ analyzers offer rapid return on investment (ROI) by providing users with “decision quality” geochemical data much faster than traditional laboratory techniques. Rapid, accurate decision-making at the exploration stage enables field time to be used more effectively, maximizes exploration (drilling and analytical) budgets, and advances project timeframes.

The easy-to-use interface can be customized with settings useful for specific sites, users, projects, and applications. Geologists can store multiple sample and matrix-specific calibration models for optimal performance depending on the minerals of interest at the specific site.

The durable design and advanced Axon Technology™ found in every Vanta analyzer enables geologists to work in remote areas with confidence that the device is built to withstand harsh environments and that answers provided are reliable and repeatable.

- In mineral exploration applications, Vanta analyzers are effective for:
- Due diligence during property acquisition
 - Analyzing the qualitative chemistry of rock, chip, soil, and sediment samples at the early regional reconnaissance and mapping stages
 - Gathering quantitative data during first-pass regional soil, sediment, till, and trenching stages
 - Identifying mineralized trends and anomalies, defining drill targets, and extending soil sample lines
 - Adapting sampling and mapping programs in real-time to maximize exploration budgets
 - Pre-screening samples to maximize the efficiency of off-site laboratory testing
 - Increasing sample density in the most prospective areas
 - Analyzing air core, RAB, RC, and diamond core samples during the drilling phase as the samples come out of the ground

Ore Grade and Process Control



Vanta™ analyzers help mining companies maintain their profitability in many open-pit and underground mines and in their associated processing facilities. On-site labs generally take hours or days to provide results. With the Vanta handheld XRF, you can get the right answer well in advance of a laboratory result. In some mine-site situations, this can mean huge cost savings. Vanta analyzers enable mine geologists to engage in intelligent and accurate grade control and metallurgists to monitor the efficiency and fine-tune the beneficiation process in real time.

Vanta analyzers are pre-calibrated using a wide range of industry standard certified reference materials (CRMs) providing users with excellent out of the box accuracy. Simple, intuitive software features enable users to fine tune this factory calibration, where necessary, for optimal performance on different geological samples and matrices.

- In ore grade and process control, Vanta handheld XRF analyzers provide measurable ROI through:
- Reduced reliance on mine-site labs by instant screening of open-pit blast hole samples
 - Improved underground grade control when combined with appropriate sampling methodologies
 - Analysis of stockpile material to aid blending and feeding of the mill
 - Real-time analysis of feeds, precipitates, concentrates, and tailings for immediate adjustments in the processing plant
 - Analysis of penalty elements in concentrates and Au bars
 - Analysis of S and other elements to determine flux adjustments in samples
 - Analysis of Si as a proxy for quartz to inform ball mill grind times and optimize recoveries
 - Analysis of raffinates and various lean and rich liquid mixes in SX/EW operations
 - Testing of liquid waste streams as part of hydromet processes, particularly in copper and precious metals plants

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Environmental Monitoring and Remediation

Vanta™ handheld XRF analyzers are used to identify elements of interest in soil, sediment, dust, and tailings as part of typical environmental monitoring remediation processes in and around active and closed industrial properties. Some active operations are using handheld XRF analyzers to monitor SiO₂ dust on processing equipment, Pb use in fire assay labs, and control Hg and As vapors in production environments in Au refineries. To help customers meet regulatory requirements, Vanta analyzers act as a fast and reliable screening tool that provide quantitative records of environmental monitoring that are easily archived.

Academic Research and Education

Portable XRF equipment, like Vanta analyzers, are playing an increasing role in academic studies relating to geological and environmental research projects and as a teaching tool. Vanta analyzers can aid in-house university laboratory methods, support undergraduate and post-graduate research projects, and facilitate teaching methods during routine coursework. The rapid results provided by Vanta handheld XRF analyzers can help educate students in modern analytical methods, aid in the identification of all types of samples, and provide a deeper understanding of mineral deposition and ore genesis relating to mineral deposit studies.

Durable and Reliable for Any Job in Any Environment

Rugged

Mines and outdoor environments 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.

Vanta™ devices are drop tested and IP55 rated* dust and immersion resistant to protect against the hazards found in even the most challenging environments. They can withstand a temperature range of –10 °C to 50 °C (14 °F to 122 °F), so you achieve 100% uptime without waiting for your analyzer to cool, even in hot environments.** The detector shutter on silicon drift detector 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' Axon Technology™, a breakthrough in XRF signal processing that delivers accurate and repeatable test results. Axon Technology uses ultra-low-noise electronics enabling higher X-ray counts per second and faster results. Coupled with a quad-core processor, Axon Technology 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, Vanta handheld XRF gives you the same result every time.

Productive

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

- A new, intuitive interface 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 what software features and functions are displayed on the main screen
- Data are easily exported via a USB flash drive, wireless LAN, or Bluetooth®
- 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 analyzer 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.

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Vanta Analyzers for Mining

The VMR and VCR models are the Vanta™ analyzers typically used for mineral exploration. No matter the model, the rugged, fast, reliable Vanta analyzer features Olympus' Axon Technology™, and is rated to pass a 4-foot drop test. C and L Series analyzers are IP55 rated, and Element and M Series analyzers are IP54 rated.



M Series

Our most powerful Vanta analyzers feature exceptional performance. Each M Series analyzer comes equipped with a large-area silicon drift detector, your choice of either a rhodium (Rh) or tungsten (W) 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 40 kV X-ray tube with a rhodium (Rh) or tungsten (W) anode, or a 50 kV X-ray tube with a silver anode.

L Series

Get the ruggedness, ease of use, and data management features of Vanta analyzers in a cost-effective PIN instrument. The L Series is designed for maximum uptime and a lower cost of ownership for reliability in the field.



Vanta Element

Featuring advanced Axon Technology™ processing, the rugged Vanta Element handheld analyzer is an affordable solution. Leverage its connectivity options to streamline your process.

Olympus

Olympus is a leader in XRF technology with a reputation for quality and accuracy. The Olympus International Mining Group (IMG) is an internal group of natural resource specialists wholly focused on geochemical applications of XRF and XRD. The IMG has unparalleled expertise in utilizing portable XRF technology for a range of in-field geological scenarios. Olympus' global network of support staff provide a level of ongoing service to the customer that includes support for testing methods, specific calibrations, and user training.

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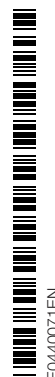
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Built Tough for Maximum Uptime



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You asked for a more rugged Positive Material Identification (PMI) analyzer. Olympus has responded by redefining what toughness means in portable XRF with our Vanta™ series of analyzers.

PMI is important for industrial plant operators and component suppliers. Alloy mix-ups can result in component failure, leading to plant downtime or even loss of life. Handheld XRF has become an essential tool to help prevent such failures through nondestructive alloy identification and is viewed by OSHA as a Recognized and Generally Accepted Engineering Practice (RAGAEP). Vanta handheld XRF analyzers for PMI provide highly specific material chemistry to quickly and accurately identify pure metals and alloy grades. With Vanta analyzers, inspectors can quickly determine correct alloy installation in critical locations.

In modern industrial environments, Vanta™ analyzers are vital for:

- Complying with American Petroleum Institute (API) Recommended Practice (RP) 578 — Material Verification Program for New and Existing Alloy Piping Systems
- Detecting sulfidation corrosion susceptibility (API RP 939-C)
- Evaluating flow accelerated corrosion (FAC) susceptibility
- Discerning residual element corrosion susceptibility in hydrofluoric acid (HF) alkylation units

When inspection professionals need a reliable analytical tool to provide fast and accurate PMI data, they turn to Vanta analyzers. From piping, valves, welds, and components, to pressure vessels, Vanta analyzers provide anywhere, anytime testing with accurate and repeatable results.



Traceability and Rapid Reporting

Pulling the trigger and taking an analysis is only one part of a material verification program. Vanta™ handheld XRF has features such as two optional cameras, integrated GPS, and automatic time/date stamp that make it easy to customize, capture, and export comprehensive shot data for efficient record keeping and traceability. Vanta analyzers enable inspectors to create custom data label templates for each project, job, or vendor. Optional wireless LAN and Bluetooth® connectivity make it easy to download results for archiving.

Weld Grade Library

The weld grade library is used alongside the standard inspection library for comprehensive PMI work enabling accurate identification of weld materials.

Residual/Tramp Elements

The Vanta handheld XRF for PMI comes loaded with a residual “tramp” element library based on industry standards that set maximum tolerated concentrations for residual elements in grade families. Vanta analyzers measure trace levels of contaminating elements, important for many applications such as RE corrosion in HF alkylation units, sulfidation corrosion, and FAC corrosion without compromising or delaying fast, accurate, and conclusive grade matches.

From simple alloy verification to precise chemistry, Vanta handheld XRF provides highly specific material chemistry to rapidly and accurately identify pure metals and alloy grades including:

- Stainless steels
- Chromium-molybdenum steels
- Nickel and nickel/cobalt alloys
- Low alloy steels
- Copper alloys
- Aluminum and wrought aluminum alloys
- Tool steels
- Zinc alloys
- Zirconium alloys
- Titanium alloys
- Cobalt alloys
- Magnesium alloys
- Exotic alloys

Essential for Material Verification

Per API, ASME, and AWS codes and recommended practices, Vanta analyzers are important tools in a material verification program for new and existing assets within a plant or refinery. From verifying incoming warehouse material to final confirmation at the point of installation, Vanta analyzers provide essential asset integrity information to help prevent catastrophic or unplanned maintenance events and increase asset life expectancy.

- Confirm the material of construction
- Verify material against mill certificates and material test reports
- Identify non-traceable or improperly marked material

Vanta analyzers are the ideal tools to verify the chemical composition and grade of welds. The optional 3 mm aiming camera enables an inspector to accurately analyze thin weld beads independent of base material as well as other conjoined metals, alloys, and small fixture components, such as wires and solders. An optional panoramic camera saves images along with the analysis results for archiving and reporting.

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Durable and Reliable for Any Job in Any Environment

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. Vanta handheld XRF analyzers are IP55 rated to withstand rain, dirt, and dust, and are drop tested to U.S. Department of Defense standards (MIL-STD-810G) to help prevent breakages and costly repairs. The detector shutter on silicon drift detector models helps prevent punctures so you can analyze rough surfaces with confidence.

Able to withstand a temperature range of -10 °C to 50 °C (14 °F to 122 °F), Vanta analyzers ensure you get 100% testing time without wasting time waiting for it to cool, even in hot environments.** The devices are engineered for in-service inspection of high-temperature systems and hot sample surfaces up to 425 °C (800 °F). Their ruggedness and durability make Vanta analyzers resistant to damage for maximum productivity and uptime with minimal cost of ownership.

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 data and ensures inspectors get alloy chemistry and grade ID in 1–2 seconds for typical plant and refinery applications. Axon Technology uses ultra-low-noise electronics that facilitate higher X-ray counts per second and faster results. Coupled with a quad-core processor, Axon Technology 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 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 the same result every time.

Vanta analyzers accurately and repeatably detect and quantify:

- Residual Elements (RE) in low alloy and carbon steels
- Trace silicon (Si) in carbon steel per API RP 939-C
- Sulfur (S) and phosphorus (P) for in-service stainless steels

Productive

Vanta analyzers for PMI include innovative software features that enable inspectors to make accurate inspections with minimal training. Testing times that once took 5 to 10 seconds with other handheld XRF devices now take just 1 to 2 seconds with even greater accuracy and precision. The friendly, modern user interface is intuitive and customizable so that operators can begin using the device with minimal training.

Vanta analyzers maximize user throughput and make data archiving easy.

- A new, intuitive interface 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, wireless LAN, 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.
- Unique username and password login for each user.
- Balanced analyzer body and form factor for comfortable daily and extended use.
- Ergonomic buttons and an industrial-grade, push-button joystick enable users to easily navigate the system with gloved hands.



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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. C and L Series models are IP55 rated, and M Series models are IP54 rated.



M Series

Our most powerful Vanta analyzers feature exceptional performance. Each M Series analyzer comes equipped with a large-area silicon drift detector, your choice of either a rhodium (Rh) or tungsten (W) 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 40 kV X-ray tube with a rhodium (Rh) or tungsten (W) anode, or a 50 kV X-ray tube with a silver anode.



L Series

Get the ruggedness, ease of use, and data management features of Vanta analyzers in a cost-effective PIN instrument. The L Series is designed for maximum uptime and a lower cost of ownership for reliability in the field.



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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Durability for Maximum Uptime and Profitability



As the price of recycled metals fluctuates, identifying alloy grades quickly and easily is essential for profitability. Vanta™ handheld XRF analyzers for scrap sorting provide reliable identification in seconds for most alloys and pure metals.

Scrap yards can be tough places for electronic equipment, but Vanta analyzers are up to the challenge. Vanta C and L Series handheld XRF devices are IP55* rated to withstand rain, dirt, and dust and are drop tested to US Department of Defense standards (MIL-STD-810G) to help prevent breakages and maximize uptime in the toughest testing environments. Vanta models with a silicon drift detector have a detector shutter to help prevent damage, so users can analyze shavings and wires with confidence.

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Every Vanta™ analyzer for scrap sorting has software features designed to improve return on investment and help scrap yard owners ensure consistent data capture across their device fleet. With innovative Axon Technology™, you get the right answer fast, no matter the working conditions. Each device comes configured with a standard package of 25 or more elements and accurately identifies alloy chemistry and grade ID in seconds.

Fleet management is easy with Vanta analyzers. Managers can create unique username and password sign-ins for each user. The user interface is customizable so multi-yard and multi-user sorting operations can set up their devices to their specifications and push custom device setups to their entire analyzer fleet. Software features, such as SmartSort and Grade Match Messaging, enable both new hires and experienced professionals to take the shortest path to the correct analysis.

The Vanta analyzer’s optimized XRF geometry and Axon Technology enable the lowest limits of detection (LODs) we ever thought possible in a handheld device for the ultimate in light element detection. Analyze a range of alloys with confidence including:

- Non-ferrous alloys: Fast analysis of stainless steels, Ni superalloys, and other alloy materials. Sort heavy alloys based on low levels of Si and Al content.
- Low-alloy steels: Verify residual content in steels and confirm Si, S, P, and Mn.
- Aluminum and light alloys: Confidently measure Mg to assess and sort aluminum alloys.
- Copper: Separate brasses, bronzes, leaded alloys, and aluminum- and silicon-containing alloys in seconds.
- Precious metals: With optional calibration packages, Vanta analyzers provide both nondestructive chemistry analysis and karat determination. Gold, silver, and platinum content can be verified confidently.
- Car catalysts: Olympus worked with industry experts to develop calibrations ideal for analyzing auto catalyst materials for precious metal content including Pd, Pt, and Rh.
- Electronics: With an optional precious metals calibration, sort electronic components with precious metal content (Ag, Au, Pd, etc). Separate and identify poisons and Pb-containing solders. Evaluate copper content in shredded materials.
- Glass: Quickly sort Pb-containing glass and glass-ceramic from recycling streams and detect toxic elements.



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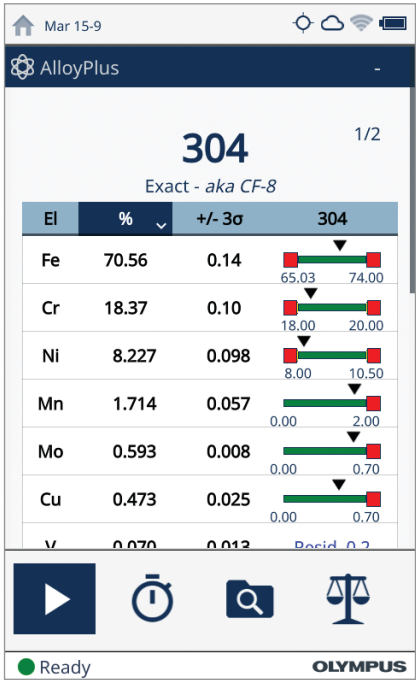
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Software Features That Deliver Fast ROI

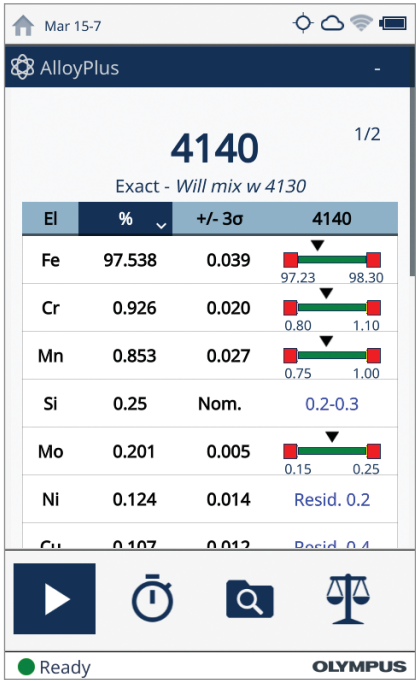
Vanta™ analyzers for scrap sorting have innovative software features that enable operators to be more effective and efficient. Testing times that once took 5 to 10 seconds with other handheld XRF devices now take just 1 to 2 seconds with even greater accuracy and precision. The new user interface is intuitive and customizable so that operators can begin using the device with minimal training.

SmartSort

With SmartSort, Vanta analyzers provide aluminum grade results in as little as 1 second. SmartSort automatically lengthens or shortens test times based on material to save time while providing the best possible match. SmartSort knows when to extend testing to find aluminum in red metals or nickel grades so you won't overpay for the wrong grade of alloy. SmartSort enables both new and experienced employees to easily get the right answer fast.

Grade Match Messaging

Optimize Vanta analyzers to your operation by using the Grade Match Messaging feature to provide instructions to a user when they encounter a specific metal grade or alloy. Grade Match Messaging increases efficiency and throughput while reducing user training. Real-time or pop-up messages containing a familiar trade or grade name or special handling instructions streamline the sorting process by minimizing user decision-making. 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.



Nominal Value

The nominal value feature automatically identifies the likely presence of elements invisible to XRF based on grade specifications. In just a second, get a warning that a bronze is an 'aluminum bronze' or that a copper is a 'beryllium copper' so that it can be properly separated.

Residual Value

The presence of contaminant/residual elements in recycled metals can compromise its value and/or downstream processing requirements. The high resolution and count rate of Vanta analyzers bring even very low levels of residuals, or tramp, elements into measurement range. The Vanta handheld XRF for scrap sorting comes loaded with a residual (tramp) library based on industry standards that enables the operator to set a maximum tolerated concentration for residual elements in grade families. Vanta analyzers flag trace level contaminants without compromising or delaying fast, accurate, and conclusive grade matches.

On-Screen Grade Comparison

Leave your alloy grade book in the office. With on-screen grade comparison, users can compare close grades side-by-side on their Vanta analyzer to know which one is the best match and why.

Durable and Reliable for Any Job in Any Environment

Rugged

Scrap yards 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. Vanta analyzers are designed to withstand 4-foot (1.22 meter) drops to MIL-STD-810G standards and are IP55 rated* for dust and water resistance in harsh conditions. Able to withstand a temperature range of -10 °C to 50 °C (14 °F to 122 °F), Vanta analyzers ensure you maximize uptime without wasting time waiting for your analyzer to cool, even in hot environments.**

Revolutionary

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- 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 to a PC, USB flash drive, or the cloud using wireless LAN or Bluetooth®.
- 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.
- Vanta devices are available with an integrated camera and a small spot collimator for detailed analysis of small pieces.
- Olympus' Vanta handheld XRF offers embedded GPS so users can pair results with precise GPS coordinates to document and map the location of elements. With the optional 5-megapixel panoramic camera, combine images with XRF data and GPS coordinates for inclusive archiving and streamlined reporting, which provides unmatched data traceability to the field.

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Vanta™ Analyzers for Scrap Sorting

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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 40 kV X-ray tube with a rhodium (Rh) or tungsten (W) anode, or a 50 kV X-ray tube with a silver anode.

L Series

Get the ruggedness, ease of use, and data management features of Vanta analyzers in a cost-effective PIN instrument. The L Series is designed for maximum uptime and a lower cost of ownership for reliability in the field.



Vanta Element

Featuring advanced Axon Technology™ processing, the rugged Vanta Element handheld analyzer is an affordable alloy ID solution, providing material and grade identification and alloy comparison in seconds. Leverage its connectivity options to streamline your quality control process.

Olympus

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