

**OLYMPUS**<sup>®</sup>

Your Vision, Our Future

Handheld X-ray Fluorescence

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**Vanta for Regulatory  
and Safety Screening**

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**VANTA**

Rugged. Revolutionary. Productive.



## Fast results for greater confidence



Government agencies enforce regulations to protect the public from toxicity and pollution associated with consumer products and electronics. Vanta™ handheld XRF analyzers for RoHS and safety screening provide rapid, accurate elemental analysis when screening for lead (Pb), cadmium (Cd), arsenic (As), mercury (Hg), chromium (Cr), and other toxic metals in consumer products such as toys, apparel and footwear, and electronics. Vanta analyzers are ideal tools for supporting the defined 'reasonable testing program' as listed in the RoHS requirements. With the optional 5-megapixel panoramic camera and wireless LAN (Wi-Fi), Bluetooth®, and USB connectivity, Vanta handhelds make it easy to archive sample images and results. Olympus' ultra-low-noise Axon™ technology, built into every analyzer, provides excellent sensitivity for low detection limits and accurate pass/fail results of regulated elements.

# Applications

## Consumer Product Compliance

With Vanta™ analyzers, manufacturers and recyclers can screen for Pb, Cd, As, Hg, Cr, and Br, along with other toxic metals in consumer products for compliance with RoHS requirements including:

- Toys, jewelry, trinkets, crayons, chalk, plastics, lunch boxes, and backpacks
- Apparel and accessories: clothing, zippers, buttons, applique, rhinestones, trim, bags, and wallets
- Sporting goods, swing sets, picnic tables, decks, and fences
- Decorative food ware, colored ceramics, and silver-plated hollowware
- Candy wrappings, baby food, supplements, and foodstuff
- Drapery, furnishings, and rugs
- Cars, car seats, leather, fiber, trim, knobs, wheels, and mats
- Lead in a water tap or pipeline
- Heavy metals in cosmetics

## Recycled Products and Consumer Electronics

Vanta analyzers can be configured to provide pass/fail results for a variety of recycled products and consumer electronics including:

- RoHS (Restriction of Hazardous Substances Directive) Compliance—Pb, Hg, Cr, Br, and Cd
- Lead-free compliance in boards, cables, connectors, PCBs, metal components, and solders
- Packaging material
- Batteries, paint, fertilizers, plastics, and metal coatings
- Cars, car seats, leather, fiber, trim, knobs, wheels, and mats
- Wood, paper, and cardboard
- Halogen free

## Compliance with Global Hazardous Substance Regulations and Testing Methods

Vanta analyzers are accepted as a screening tool when testing for compliance with the following global hazardous substance regulations and testing methods:

- EU RoHS Directive (2011/65/EU)
- China RoHS Directive (ACPEIP)
- Japan RoHS
- Korean RoHS Directive
- USA CPSIA (HR4040)
- USA Halogen Free Directive
- California Proposition 65
- USA CPSC-CH-E1002-08 SOP
- IEC 62321



# Fast, Reliable Results when Safety is Paramount



## 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 lower cost of ownership. Vanta analyzers are IP65\* 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 help you get 100% testing time, even in hot environments.\*\* 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' Axon™ technology, a breakthrough in XRF signal processing that delivers accurate and repeatable test data and enables inspectors to get pass/fail screening results in seconds. Axon™ technology uses ultra-low-noise electronics that facilitate higher X-ray counts per second and faster results.

Coupled with a new 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.



## Productive

Vanta analyzers include innovative software features that enable users to utilize results immediately and perform real-time reporting. Test times take as little as 1 to 2 seconds with even greater accuracy and precision. The user interface is intuitive and customizable so that operators can begin using the device with minimal training. Vanta analyzers maximize user throughput and make workflow management and 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 (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.
- Unique username and password login for each user.
- Ergonomic buttons and an industrial-grade, push-button joystick enable users to easily navigate the system with gloved hands.

# 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 Series models are IP65 rated and M Series models are IP64 rated.



## M Series

Our most powerful Vanta analyzers feature exceptional performance to handle the most demanding applications. Each M Series analyzer comes equipped with a large-area silicon drift detector, 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 a Rhodium (Rh) or Tungsten (W) anode 40 kV X-ray tube, or a silver (Ag) anode 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 customer service teams.

[www.olympus-ims.com](http://www.olympus-ims.com)

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

\*M Series analyzers are IP 64 rated

\*\* With optional fan. The fan assembly is IP56 rated. Operates continuously at 33 °C without the fan. All specifications are subject to change without notice.

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