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

Breakdowns cost time and money. Vanta analyzers are durable for increased uptime and a low cost of ownership. And with an included three-year warranty, you can be assured that we stand by the ruggedness of Vanta analyzers.

Built to thrive in the toughest working environments, Vanta analyzers 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.
- **IP65 rated** dust and water resistant to protect against the hazards found in even the most challenging environments.*
- Withstands a **temperature range** of -10 °C to 50 °C (14 °F to 122 °F) at full duty cycle, so you waste less time waiting for your analyzer to cool.**
- The **detector shutter** on C and M series models helps prevent punctures so you can analyze rough surfaces with confidence.

* M Series analyzers are IP64 rated.
** With optional fan. The fan assembly is IP56 rated. Operates continuously at 33 °C without the fan.

Revolutionary

Vanta analyzers give you the same accurate result every time from your first test to your hundredth test.

The Vanta Series' proprietary Axon™ technology uses **ultra-low-noise electronics**enabling higher X-ray counts per second for fast, accurate, and repeatable results.

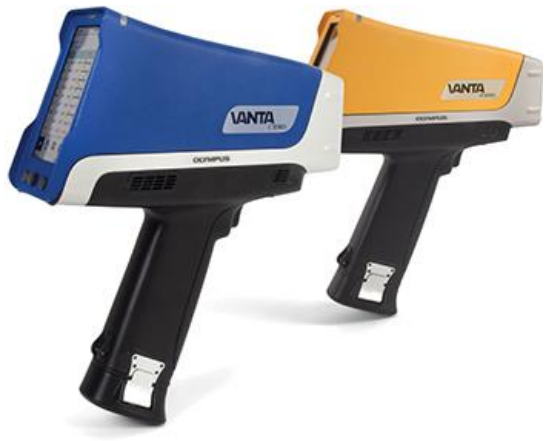
Axon technology coupled with a new **quad-core processor** make Vanta analyzers remarkably responsive, pushing the limits of performance so you get the best results in the least amount of time. Axon technology provides remarkable test-to-test and instrument-to-instrument **repeatability**, so your first test is the same as your last test no matter what instrument you may use.

Productive

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

- Intuitive user interface (UI) to quickly navigate the device's settings and software functions.
- Customize which features and functions are displayed on the main screen.

- Data export is simple via a USB flash drive, Wireless LAN, or Bluetooth.
- Touch screen display that is clear, bright, and readable in any light.
- Ergonomic buttons and an industrial-grade, push-button joystick make it easy to navigate the UI with gloved hands.
- Embedded GPS to pair results with precise GPS coordinates for documentation and data mapping.
- Optional 5-megapixel panoramic camera; combine images with XRF data and GPS coordinates.
- Streamlined reporting and archiving for exceptional data traceability to the field.
- Cloud technology enabled.



New: Affordable Light Element ID with the Vanta Element-S Analyzer

The Vanta Handheld XRF Series: Rugged. Revolutionary. Productive.

The Vanta analyzer is our most advanced handheld X-ray fluorescence (XRF) device and provides rapid, accurate element analysis and alloy identification to customers who demand laboratory-quality results in the field.

Vanta handheld XRF analyzers are built to be tough. Their rugged and durable design makes them resistant to damage for greater uptime and a lower cost of ownership.

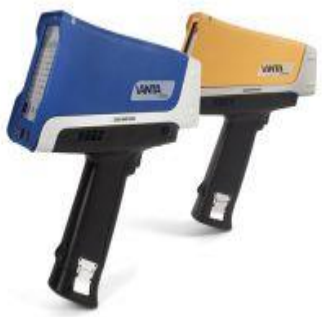
With intuitive navigation and configurable software, the Vanta series are easy to use with minimal training for high throughput and a fast return on investment. Featuring innovative and proprietary Axon technology, Vanta analyzers give you accurate results and help boost productivity no matter the environment or working conditions.

- Exceptional durability under extreme conditions.
- Analytical superiority.
- Optional Wireless LAN and Bluetooth® for real-time data sharing. Cloud technology enabled.
- Intuitive user interface.

Vanta™ analyzers provide fast results in a diverse range of applications. Application-specific software features enable operators to get the most out of their analyzers with simplified report creation and traceable results.

Vanta

The Vanta™ handheld XRF analyzer series are our newest and most powerful handheld XRF devices, delivering rapid, accurate element analysis for customers who demand laboratory-quality results in the field. The analyzers are built tough, with an IP55 or IP54 rating, and drop tested for greater uptime and a lower cost of ownership.



Vanta Element Handheld XRF Analyzers

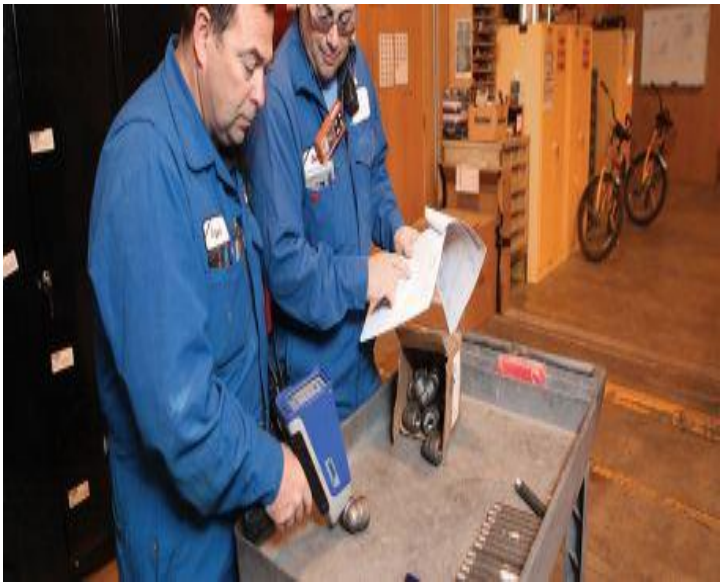
The Vanta Element™ handheld XRF analyzer series offers speed, ruggedness, and connectivity in two cost-effective models. The Vanta Element analyzer delivers affordable alloy ID, and the Vanta Element-S analyzer offers affordable alloy ID with light element detection. Perform material and grade identification in seconds and easily compare alloys for scrap recycling and metal manufacturing.

Vanta for Environmental Assessments

Vanta handheld XRF analyzers for soils and sediment analysis provide fast, accurate environmental remediation and assessment data. Simple to use, Vanta analyzers are rugged for the most demanding field applications.

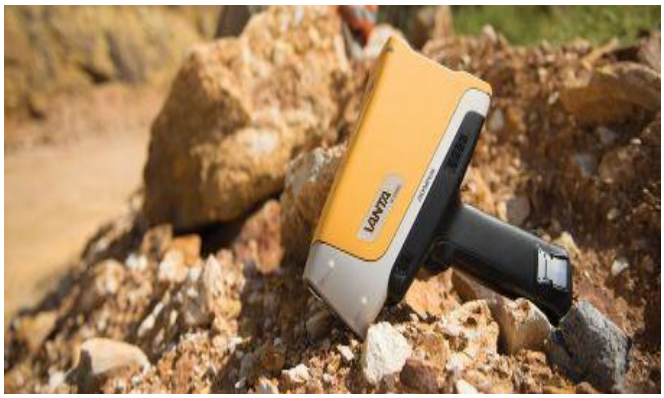
Vanta for Manufacturing Quality Control/Assurance

Vanta handheld XRF analyzers for manufacturing QA/QC provide highly specific material chemistry to quickly and accurately identify pure metals and alloy grades when material accuracy is critical.



Vanta for Mining & Geochemistry

Vanta handheld XRF analyzers for mining and geochemistry provide immediate on-site elemental analysis for geochemical exploration, mining grade control, ore processing, and remediation.



Vanta for Scrap Recycling

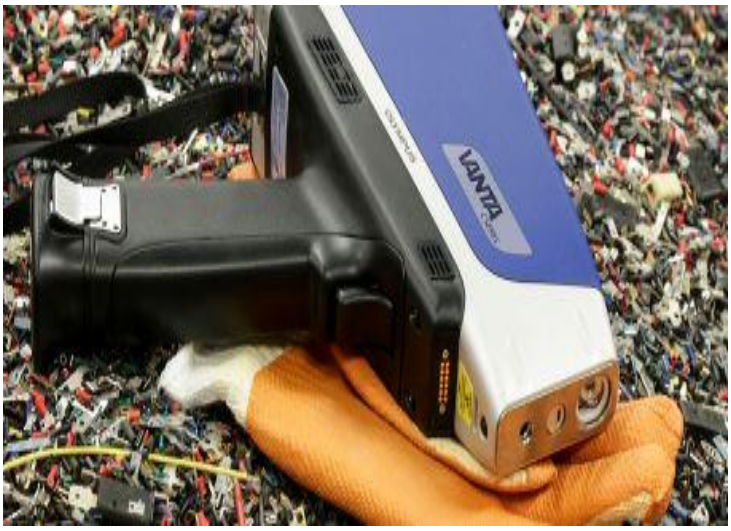
Vanta handheld XRF devices for recycling and scrap sorting are IP55 or 54-rated, depending on the model, to withstand rain, dirt, and dust and are drop tested using U.S. Department of Defense methods (MIL-STD-810G) to help prevent breakages and maximize uptime in the toughest scrap yards.

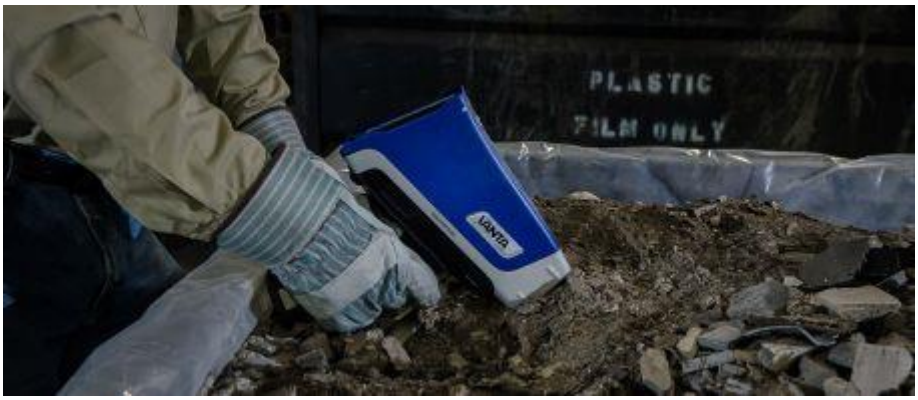
Vanta for PMI

Vanta handheld XRF analyzers for PMI provide highly specific material chemistry to quickly and accurately identify alloy grades to help ensure correct alloy installation in critical locations.

Vanta for Regulatory and Safety Screening

Vanta handheld XRF analyzers are used to ensure compliance with RoHS and local or international regulatory laws. Vanta analyzers provide on-the-spot chemical analysis of consumer products to quickly scan for Pb, Cd, Hg, Cr, and Br.





Vanta for Precious Metals Analysis

Vanta handheld XRF analyzers for precious metals provide fast, accurate alloy chemistry and karat classification for identifying gold, platinum, silver, and rhodium in jewelry analysis and car catalyst recycling.

Dimensions (W x H x D)	8.3 cm × 28.9 cm × 24.2 cm (3.25 in. × 11.4 in. × 9.5 in.)
Weight	M series, C series, and L series: 1.70 kg (3.75 lb) with battery, 1.48 kg (3.24 lb) without battery Element: 1.54 kg (3.39 lb) with battery, 1.32 kg (2.91 lb) without battery
Excitation Source	4-watt X-ray tube with application-optimized anode material (rhodium (Rh), silver (Ag), or tungsten (W)) M series (Rh W) and C series (Ag): 8–50 kV C series (Rh W): 8–40 kV L series (W) and Element (W): 35 kV (2 watts)
Primary Beam Filtration	M and C series: 8-position autoselected filter per beam per mode; optional collimation to 3 mm diameter beam spot L series and Element: Fixed aluminum filter and no internal collimation
Detector	M series: Large-area silicon drift detector C series: Silicon drift detector L series and Element: Silicon PIN detector
Power	Removable 14.4 V Li-ion battery with hot-swap capability (M, C, and L series only) or 18 V power transformer 100–240 VAC, 50–60 Hz, 70 W max
Display	800 × 480 (WVGA) LCD with capacitive touch screen supporting gesture control
Operating Environment	Temperature range for the M, C, and L series: −10 °C to 50 °C (14 °F to 122 °F), (continuous duty cycle with optional fan); Temperature range for the Element: −10 °C to 45 °C (14 °F to 113 °F) Humidity: 10% to 90% relative humidity non-condensing
Drop Test	Military Standard 810-G 4-foot (1.3 M) drop test
IP Rating and Detector Shutter	M series, and Element IP54: dust protected and protected against water splashing from all directions C and L series IP55: dust protected and protected against water jets from all directions M and C series: Solid detector shutter to help prevent detector damage
Pressure Correction	M and C series: Built-in barometer for automatic altitude and air density correction
GPS	M, C, and L series: Embedded GPS / GLONASS receiver
Operating System	Linux® Cloud enabled with user fleet manager capability
Data Storage	microSD™ slot with removable 1 GB industrial SD card included
USB	(2) USB 2.0 type A host ports for accessories such as wireless LAN, Bluetooth®, and USB flash drives. (1) USB 2.0 type mini-B port for connection to computer.
Wireless LAN	Supports 802.11 b/g/n (2.4 GHz) cable optional USB adaptor
Bluetooth	Supports Bluetooth® with an optional USB adaptor
Aiming Camera	Full VGA CMOS camera (Optional)
Panorama Camera	5-megapixel CMOS camera with autofocus lens (Optional on M, C, and L series)
Warranty	M, C, and L series: Three-year warranty; Element: One-year warranty
Selected Optional Accessories	M, C, and L series: Field Stand, Soil Foot, Holster, Work Station, Weld Mask, Hot Heel, Probe Shield, and VLW Collimation Mask (L series only) Element: Field Stand, Soil Foot, and Holster