



Vanta™ Element Handheld XRF Analyzer Affordable Alloy ID

Affordable, Rugged, and Connected

The Vanta Element handheld X-ray fluorescence (XRF) analyzer provides elemental analysis for alloy grade identification and sorting in as little as one second. Easy to operate, the Vanta Element analyzer's clear, fast grade ID and on-screen grade comparison help speed up metal testing for scrap sorting and metal manufacturing.

The analyzer's smartphone-like user interface helps increase efficiency and throughput with features like on-screen grade comparison, sorting instructions, and identifying contaminants or the presence of residual elements that can compromise value and quality. Easy to use and easy to learn, the software helps reduce user training and streamlines the sorting process.

Confidently Verify and Sort Metals and Alloys

The Vanta Element alloy database includes the most commonly used alloys in scrap recycling and manufacturing, but is easily customized for proprietary or additional grades.

- Non-ferrous alloys
- Low-alloy steels
- Copper alloys
- Nickel and high-temp alloys
- Precious metals
- Aluminum alloys



Modern

The Vanta™ Element analyzer includes connectivity features to help streamline your quality control process.

Powerful Processing

- Vanta electronics
- Axon Technology™ stability and count rate

Convenient Data Management

- Wireless data transfer to a network folder (optional)
- Cloud data storage and real-time remote data viewing using the Olympus Scientific Cloud™
- Direct export to a USB drive
- 1 GB microSD™ card for storing results

Global Support

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.

Rugged and Affordable

Built for harsh and demanding environments, the Vanta Element analyzer delivers a lower cost of ownership:

- IP54 rated for protection against dust and moisture
- Drop tested (MIL-STD-810G) to protect against falls and reduce the need for costly repairs
- Rated for continuous testing from -10 °C to 45 °C (14 °F to 113 °F)
- Stainless-steel faceplate for wear protection
- Tough, thick (50 µm) Kapton® window protects the analyzer
- Easy, toolless window replacement



Clear, graphic on-screen grade comparison.

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www.olympus-ims.com/vanta-element

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**Vanta Element
Specifications**

Vanta™ Element XRF Analyzer

Expect More for Less



Vanta™ handheld XRF analyzers are rugged and built for analytically demanding applications in the harshest environments. Vanta Element analyzers are IP54 rated for protection against dust and water, are drop tested, and built to withstand a temperature range of $-10\text{ }^{\circ}\text{C}$ to $45\text{ }^{\circ}\text{C}$ ($14\text{ }^{\circ}\text{F}$ to $113\text{ }^{\circ}\text{F}$).

Vanta Element XRF analyzers provide fast, accurate elemental analysis. Each device features Olympus' Axon Technology™, a revolution in XRF signal processing that provides accurate, repeatable results for greater productivity and a fast return on investment. Vanta analyzers feature an intuitive interface and application-specific software so new users can work with the device with minimal training. Data is easily exported wirelessly or via USB.

Rugged, Fast, and Affordable

Engineered for durability, the Vanta™ Element analyzer is built to withstand harsh testing conditions. Ease of use and efficient data management round out the analyzer's advantages, providing an entry-level package with streamlined capabilities that is well-suited for demanding applications such as scrap sorting.

Vanta Element Specifications

Dimensions (W × H × D)	8.3 cm × 28.9 cm × 24.2 cm (3.25 in. × 11.4 in. × 9.5 in.)
Weight	1.54 kg (3.39 lb) with battery, 1.32 kg (2.91 lb) without battery
Excitation Source	4-watt X-ray tube with 35 kV (2-watt) tungsten anode
Primary Beam Filtration	Fixed aluminum filter and no internal collimation
Detector	Silicon PIN detector
Power	Removable 14.4 V Li-Ion battery 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: –10 °C to 45 °C (14 °F to 113 °F) Humidity: 10% to 90% relative humidity noncondensing
Drop Test	Military Standard 810-G 4-foot (1.3 M) drop test
IP Rating and Detector Shutter	IP54: dust protected and protected against water splashing from all directions
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 cable for connection to computer.
Wireless LAN	Supports 802.11 b/g/n (2.4 GHz) via optional USB adaptor
Bluetooth	Supports Bluetooth® with an optional USB adaptor
Warranty	One-year warranty
Selected Optional Accessories	Field Stand, Soil Foot, and Holster

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