



Vanta Element Series

XRF Analyzer

The Vanta Element XRF analyzer series provides elemental analysis for fast alloy grade identification and sorting at an affordable price. The series is available in two cost-effective models:

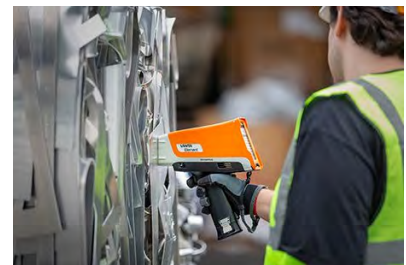
- * **Vanta Element analyzer** for affordable alloy ID
- * **Vanta Element-S analyzer** for affordable alloy ID, including light element detection for magnesium (Mg), aluminum (Al), silicon (Si), sulfur (S), and phosphorus (P)

Both models feature fast grade ID and clear on-screen grade comparison to speed up metal testing for scrap sorting, metal manufacturing, and precious metals analysis.

Rugged, Affordable Handheld XRF

Built for demanding environments, the 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
- * Easy, toolless window replacement



Specification	Vanta Element	Vanta Element - S
Excitation Source	2W X-ray tube with 35kV tungsten anode	4W X-ray tube with 50kV silver anode
Primary Beam Filtration	Fixed aluminum filter wheel	4 position filter wheel
Detector	Silicon PIN detector	Silicon drift detector (SDD)
Power	Removable 14.4 V Li-ion battery or 18 V power transformer 100-240 VAC, 50-60 Hz, 70 W max	
Display	800 x 480 (WVGA) LCD with capacitive touch screen	
Operating Environment	Temperature: -10 °C to 50 °C (14°F to 122 °F) at 100% duty cycle; Humidity: 10% to 90% relative humidity non-condensing	
Connectivity	USB, WLAN (with optional adaptor), Bluetooth (with optional adaptor)	
Dimensions (W x H x D)	83 x 289 x 242 mm (3.25 x 11.4 x 9.5 in)	
Weight	1.54 kg (3.39 lb) with battery, 1.32 kg (2.91 lb) without battery	

Explore more

<https://www.harshad.com/olympus>





Vanta Series

Handheld XRF Analyzer

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

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

With an intuitive user interface and customizable software, the Vanta XRF series is 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.

- * Exceptionally durable under extreme conditions.
- * Superior analytics.
- * Optional wireless LAN and Bluetooth® for real-time data sharing. Cloud technology enabled.
- * Intuitive user interface.



Specification

Excitation Source	4-watt X-ray tube with application-optimized anode material (rhodium (Rh), silver (Ag), or tungsten (W)) L series (W): 35 kV (2 watts)
Primary Beam Filtration	L series: Fixed aluminum filter and no internal collimation
Detector	L series: Silicon PIN detector
Power	Removable 14.4 V Li-ion battery with hot-swap capability 18 V power transformer 100-240 VAC, 50-60 Hz, 70 W max
Display	800 x 480 (WVGA) LCD with capacitive touch screen
Operating Environment	-10 °C to 50 °C (14°F to 122 °F), (continuous duty cycle with optional fan); Humidity: 10% to 90% relative humidity non-condensing
Aiming Camera	Full VGA CMOS camera
Panoramic Camera	5-megapixel CMOS camera
Connectivity	USB, WLAN (with optional adaptor), Bluetooth (with optional adaptor)



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Vanta GX

Precious Metal Analyzer

Vanta GX precious metal analyzer is an accurate, easy to use, and nondestructive, the analyzer proves the purity of gold, silver, platinum, palladium, and other precious metals in seconds.

- * Uses trusted and sophisticated analytics to test jewelry without damaging it.
- * Provides an answer at the push of a button to save time in the showroom.
- * Includes an alert for gold plating for fraud detection.

Elements

Detects up to 27 elements including,

- * Ag - Silver
- * Au - Gold
- * Pt - Platinum
- * Pd - Palladium

Features

- * Lightweight and compact
- * Easy-to-open lid
- * Viewing window
- * Lights up during testing
- * Clear, bright touch screen
- * USB ports for data transfer
- * Lid locks
- * 18 V power connection
- * PC software
- * Web user interface



Specification

Excitation Source	2-watt X-ray tube: 35 kV, 50 μ A maximum Tungsten (W) anode
Detector	Silicon PIN diode Silicon drift detector Thermo-electrically cooled, high resolution
Operating Environment	Temperature: -10 °C to 40 °C (14 °F to 122 °F) Humidity: 10% to 90% relative humidity, noncondensing
Operating System	Linux Application software: Evident-proprietary data acquisition and processing package
Camera	Full colour VGA camera
Power	100–240 VAC, 50–60 Hz, 70 watts at 18 V and 3.9 A
Display	Full color touch-screen display: 800 x 480 (WVGA) 16-bit transfective LCD with capacitive touch screen supporting gesture control
Spot Size	6 mm nominal diameter
Connectivity	1 mini USB and 2 full size USB
Dimensions (W x D x H)	Closed: 239.3 x 324.1 x 357.3 mm (9.42 x 12.76 x 14.07 in) Open: 239.3 x 390.8 x 387.8 mm (9.42 x 15.39 x 15.27 in)
Sample Chamber Dimensions (W x D x H)	176.7 x 173.4 x 93.9 mm (6.96 x 6.83 x 3.70 in)
Weight	10 kg (22 lb)

Explore more

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