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Vanta Element™ XRF Analyzer Series
Affordable Alloy ID and Light Element Analysis

The Vanta Element handheld 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: the Vanta Element analyzer for affordable alloy ID and the Vanta Element-S analyzer for affordable light element detection.

Both models feature fast grade ID and clear on-screen grade comparison on a smartphone-like user interface. Easy to use and easy to learn, the intuitive software streamlines user training and metal testing. Speed is combined with Olympus' proven Axon Technology™ for accurate, repeatable results.

Rugged, Modern, and Affordable

Engineered for durability, the analyzers are IP54 rated to resist dust and moisture, drop tested (MIL-STD-810G) to help protect from the occasional drop or jostle, and built to continuously perform in temperatures from –10 °C to 45 °C (14 °F to 113 °F). Convenient data management tools and optional wireless connectivity help future-proof your analyzer for Industry 4.0.

Specifications	Vanta Element Model	Vanta Element-S Model
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	2-watt X-ray tube with 35 kV tungsten anode	4-watt X-ray tube with 50 kV 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 × 480 (WVGA) LCD with capacitive touch screen supporting gesture control	
Operating Environment	Temperature: –10 °C to 45 °C (14 °F to 113 °F) at 100% duty cycle 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®	
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	
Optional Accessories	Field Stand, Soil Foot, and Holster	

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