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. Designed without compromise on performance and durability, the series is available in two cost-effective models: the Vanta Element analyzer for basic alloy ID and the Vanta Element-S analyzer for alloy ID with light element detection.

Speed is combined with our proven Axon Technology for accurate, repeatable results. The series is built tough for harsh environments and backed by a comprehensive three-year warranty for a low cost of ownership. Convenient data management tools and optional wireless connectivity help future-proof your analyzer for Industry 4.0.

Vanta Element™ Specifications

	Vanta Element Model	Vanta Element-S Model
Dimensions (W × H × D)	10.4 × 29.6 × 24.1 cm (4.1 × 11.6 × 9.5 in.)	
Weight	1.71 kg (3.77 lb) with battery, 1.48 kg (3.26 lb) without battery	1.84 kg (4 lb) with battery, 1.61 kg (3.55 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	4 position filter wheel
Detector	Entry-level silicon drift detector with a high-sensitivity graphene window	Silicon drift detector with a high-sensitivity graphene window
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 (1.2 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 Wi-Fi, Bluetooth, and USB flash drives (1) USB 2.0 type mini-B port cable for connection to computer	
Wi-Fi®	Supports 802.11 b/g/n (2.4 GHz) via optional USB adapter	
Bluetooth®	Supports Bluetooth with an optional USB adapter	
Warranty	Three-year warranty	
Optional Accessories	Field Stand, Soil Foot, and Holster	