EVIDENT

Vanta™ Handheld XRF Analyzer

Rugged. Revolutionary. Productive.

Vanta™ handheld XRF analyzers are rugged and built for analytically demanding applications in the harshest environments. Vanta analyzers are IP rated for protection against dust and water, drop tested, and built to withstand extreme ambient temperatures.

Vanta analyzers provide fast, accurate elemental analysis. Each device is powered by our proprietary 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 so new users can begin testing with minimal training. Data is easily exported wirelessly or via USB.

The Vanta™ Series

No matter the model, each Vanta handheld XRF analyzer is engineered for durability and analytical excellence. Evident manufactures Vanta analyzers to suit a variety of application and budget needs.

Vanta Max
Our fastest, most capable Vanta analyzers feature exceptional performance for the most demanding applications, including mining exploration, mineral analysis, soil testing, and environmental analysis.

Vanta Core
Vanta Core analyzers combine value with speed, low limits of detection (LODs), and a wide elemental range, making it the standard choice for fast alloy identification.

Vanta Element™
Our entry-level analyzers offer affordable alloy identification, with the option to detect light elements on the Element-S model.

Vanta Specifications

Dimensions (W × H × D)	Max and Core: 10.4 × 29.6 × 24.1 cm (4.1 × 11.6 × 9.5 in.) Element: 8.3 × 28.9 × 24.2 cm (3.25 × 11.4 × 9.5 in.)
Weight	Max: 1.9 kg (4.17 lb) with battery, 1.67 kg (3.67 lb) without battery Core: 1.85 kg (4.06 lb) with battery, 1.62 kg (3.56 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) or silver (Ag) Max (Rh), Core, and Element-S (Ag): 8–50 kV, Core (Rh): 8–40 kV, Element (W): 35 kV (2 watts)
Primary Beam Filtration	Max, Core, and Element-S: 8-position autoselected filter per beam per mode; optional collimation to 3 mm diameter beam spot, Element: Fixed aluminum filter and no internal collimation
Detector	Max: Large-area silicon drift detector Core and Element-S: Silicon drift detector Element: Silicon PIN detector
Power	Removable 14.4 V Li-ion battery (with hot-swap capability on Max 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 Max and Core: -10 °C to 50 °C (14 °F to 122 °F), and continuous full duty cycle with optional fan Temperature range for 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	Max, Core, and Element: IP54 dust protected and protected against water splashing from all directions Max and Core: Solid detector shutter to help prevent detector damage
Pressure Correction	Max and Core: Built-in barometer for automatic altitude and air density correction
GPS	Max: 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 adapter
Bluetooth	Supports Bluetooth® with an optional USB adapter
Aiming Camera	Full VGA CMOS camera (optional)
Panoramic Camera	13-megapixel CMOS camera with autofocus lens (optional)
Warranty	Max and Core: Three-year warranty Element: One-year warranty
Selected Optional Accessories	Max and Core: Field Stand, Soil Foot, Holster, Work Station, Weld Mask, Hot Heel, and Probe Shield Element: Field Stand, Soil Foot, and Holster

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