



Vanta™ Handheld XRF Analyzer

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. All Vanta analyzers come with a three-year warranty for a low cost of ownership.

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 shared wirelessly or via USB.

The Vanta Series

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 affordable analyzers for basic alloy identification and other material analyses with the option to detect light elements with the Element-S model.



Vanta™ Specifications

Dimensions (W × H × D)	10.4 × 29.6 × 24.1 cm (4.1 × 11.6 × 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-S: 1.84 kg (4 lb) with battery, 1.61 kg (3.55 lb) without battery Element: 1.71 kg (3.77 lb) with battery, 1.48 kg (3.26 lb) without battery
Excitation Source	X-ray tube with an application-optimized anode material. Max: 4 W with 8–50 kV rhodium anode Core: 4 W with 8–50 kV silver, 8–40 kV rhodium, or 8–40 kV tungsten anode Element-S: 4 W with 8–50 kV silver anode Element: 2 W with 8–35 kV tungsten anode
Primary Beam Filtration	Max and Core: 8-position autoselected filter per beam per mode; optional collimation to 3 mm diameter beam spot Element-S: 4-position filter wheel Element: Fixed aluminum filter
Detector	Silicon drift detector with a high-sensitivity graphene window
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 (1.2 m) drop test
IP Rating and Detector Shutter	Max and Element: IP54* dust protected and protected against water splashing from all directions Core: IP55* dust protected and protected from low-pressure water jets from all directions Max and Core: Solid detector shutter to help prevent detector damage *In-use position
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 Wi-Fi, Bluetooth, and USB flash drives (1) USB 2.0 type mini-B port for connection to computer
Wi-Fi®	Supports 802.11 b/g/n (2.4 GHz) cable optional USB adapter
Bluetooth®	Supports Bluetooth with an optional USB adapter
Aiming Camera	Max and Core: Optional full VGA CMOS camera
Panoramic Camera	13-megapixel CMOS camera with autofocus lens (optional)
Warranty	Three-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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