

Industrial

Vanta™ XRF Analyzers

Take the Guesswork Out of Precious Metals Analysis



EVIDENT

Take the Guesswork Out of Precious Metals Analysis

When accuracy and confidence count, Vanta™ XRF analyzers provide immediate, nondestructive elemental analysis and karat determination of precious metals, including gold, silver, platinum, and palladium.

A useful tool for jewelers, pawn shops, coin collectors, cash-for-gold operations, museums, archaeological sites, and scrap recycling operations, Vanta analyzers measure purity and precious metal content in valuables for versatile applications:

- Jewelry analysis
- On-the-spot gold karat analysis
- Platinum versus white gold
- Silver and other metal content identification in gold
- Gold content verification in scrap pieces
- Bar and coin analysis

Fast

Elemental analysis in seconds:

- Spot fakes fast and accurately price valuables with karatage, fineness, and composition results
- Alert for gold plating makes it easy to identify low-value or fake jewelry
- Detect metals such as gold (Au), silver (Ag), platinum (Pt), palladium (Pd), iridium (Ir), rhodium (Rh), nickel (Ni), lead (Pb), copper (Cu), zinc (Zn), iron (Fe), and more

El	%	+/-
Au	2.262	0.027
Ni	17.926	0.039
Cu	62.407	0.055
Mn	0.017	0.004
Fe	0.675	0.009
Co	0.041	0.004
Zn	8.475	0.034

The plating alert informs the user of plated items.

El	%	+/-
Au	57.632	0.070
Rh	3.700	0.024
Ni	6.301	0.032
Cu	24.606	0.055
Zn	7.761	0.034

< LOD		
El	%	+/- 3σ
Ag	ND	<0.031
Pd	ND	<0.034

The Karatage setting alerts users that the item tested is 14 karat gold.

Accurate

Known for their accuracy and precision, Vanta analyzers are used by thousands of customers around the world.

- Vanta analyzers use our trusted technology to verify the precious metal content and other elements in your valuables
- Alternative methods, such as acid scratch tests used for gold, can be imprecise and unsafe
- Get actionable test results on the spot using our safe and accurate testing

Easy to Use

Getting an answer is as simple as pushing a button:

- Present results on the built-in touch screen or on a larger screen to explain them to customers
- Share results with customers using single-click PDF reporting
- Options for a built-in aiming camera enable precise spot testing and add confidence in the accuracy of the test results



Vanta™ Analyzers for Precious Metals Analysis

Evident manufactures Vanta analyzers to suit a variety of applications depending on your needs. Choose your analyzer for precious metals testing.

Vanta Handheld XRF

Vanta handheld XRF analyzers are portable and durable so you can take them anywhere that precious metals analysis is needed. These versatile instruments can be used to test items large and small—from silver platters to gold necklaces. The Vanta Core series analyzers include options for built-in aiming and sample cameras and the option for collimation down to a 3 mm spot size. For testing larger items where collimation or an aiming camera are not needed, the Vanta Element™ series is a cost-effective solution.



Vanta Element

Cost-effective XRF analyzers with Vanta analytical capabilities but without the extra hardware options. Offers a faster return on investment.

Vanta Core

Full-feature XRF analyzers with Vanta analytical capabilities, the options of cameras and collimation, and an included docking station for charging.

Vanta GX Benchtop XRF

The Vanta GX precious metal analyzer offers the convenience of hands-free testing in a stylish countertop instrument ideal for the showroom or lab. The analyzer has a built-in aiming camera and a focused 6 mm spot size for greater accuracy and high spatial precision. Designed for safety, the analyzer locks securely during testing and only emits X-rays when the lid is closed. Bright safety lights on the front and back of the instrument indicate a test is in progress. The X-ray shielding glass window protects the user while enabling continuous viewing of valuables for greater customer trust. The spacious test chamber accommodates most sample sizes, such as necklaces, coins, and gold bars.





Experience the Advantages

In addition to reliable and precise precious metals analysis, Vanta series analyzers offer flexibility, connectivity, consistency, and stability. Discover why a Vanta analyzer is not just a safe choice—it's a smart one.

Versatile

Our lightweight Vanta Field Stand (compatible with all handheld models) or the larger Vanta Work Station (compatible with the Core Series) provide the flexibility to switch between benchtop and handheld testing. Simply pair your Vanta handheld analyzer with the Field Stand or Work Station and our free PC software for the convenience of hands-free testing on location. This setup is easily reversible so you can switch the testing method as needed.

Connected

All Vanta analyzers are compatible with a smart-device web user interface. Display results on the instrument screen or use a wired or (optional) wireless connection to display them on your smartphone or PC. Generate custom-made PDF inspection reports directly from the analyzer with no additional PC-based data management. Share your results via a memory device, smartphone, or PC.

Low Cost of Ownership

All Vanta analyzers are engineered for durability and analytical performance and come with a comprehensive warranty. Vanta handheld analyzers include a three-year warranty on the entire analyzer and a five-year warranty on the X-ray tube, while Vanta GX analyzers include a three-year warranty. This coverage protects your investment and provides a low cost of ownership, making Vanta analyzers an economical solution for all your precious metal testing needs.

Our Commitment

Evident is a leader in XRF technology with a reputation for quality and accuracy. We are committed to providing the best technical support and after-sales service for our products, applications, training, and technologies through our global network of sales and service teams. Training and support are included for the life of the analyzer.

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