Vanta™ GX Precious Metal Analyzer
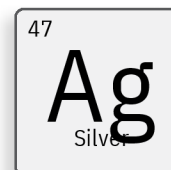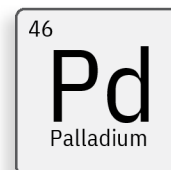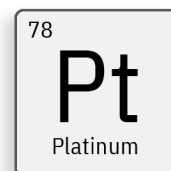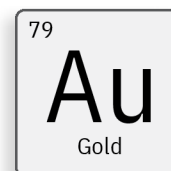## Simply Accurate Jewelry Analysis

Verify Precious Metals and Purity on the Spot

Buy and sell gold, jewelry, coins, and other valuables with confidence using the Vanta™ GX precious metal analyzer. Accurate, easy to use, and nondestructive, the analyzer provides an affordable way to know the purity and composition of gold and other precious metals.

Compact and stylish for the showroom, the countertop instrument delivers accurate precious metal verification, karatage, and fineness in seconds.
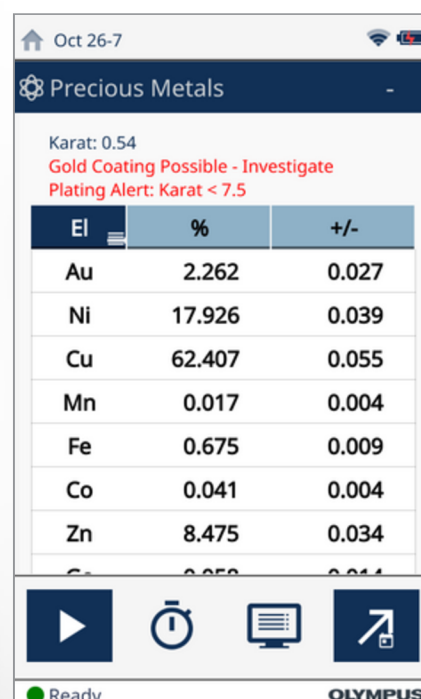
- Measure the gold, silver, and other precious metals in your valuables on-site to quickly and accurately price items
- Identify fake items fast with the alert for gold plating and detection of hazardous elements (e.g., lead and cadmium)

79 **Au** Gold	78 **Pt** Platinum
46 **Pd** Palladium	47 **Ag** Silver

Accuracy

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

- The Vanta GX analyzer uses 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

Oct 26-7

Precious Metals

Karat: 0.54
Gold Coating Possible - Investigate
Plating Alert: Karat < 7.5

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

Ready

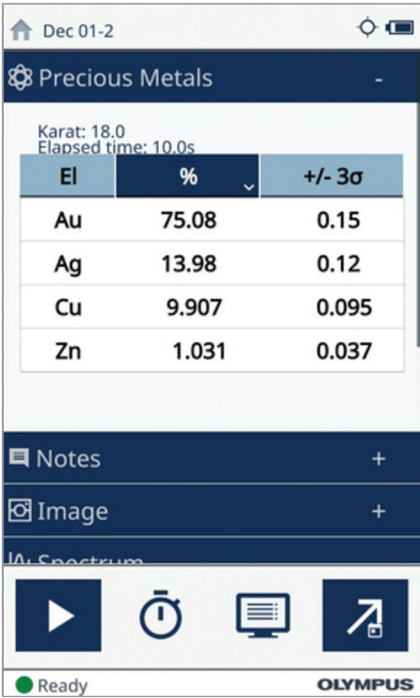The Vanta GX test results show a plating alert

Simplicity

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 results to customers
- Intuitive software and data transfer for seamless reporting
- Images from the built-in camera pair with test results for accurate documentation

Value

An affordable gold, silver, and precious metal testing solution, the Vanta™ GX analyzer delivers a fast return on investment:

- Spot fakes fast and accurately price valuables with composition results in seconds
- See the real value of a material with detection of up to 27 chemical elements
- Three-year warranty protects your investment
- Two available models offer flexibility, so you only invest in the technology needed

The Vanta GX analyzer displays karat results.

Vanta GX Models

Vanta GX SDD	Vanta GX PIN
Premium precious metal analysis	Affordable precious metal analysis
High-performance gold analysis	Reliable gold analysis
More precise	Precise
Faster test times	Faster test times for fast results
Premium model	Affordable price

Safety

The Vanta GX analyzer offers robust features in a compact countertop system for safe and reliable precious metals testing. The system uses X-rays in a controlled environment, so users are not exposed to radiation:

- Analyzer locks securely during testing and can only emit X-rays when the lid is closed
- Bright safety lights on the front and back of the instrument indicate when X-rays are being emitted
- The X-ray shielding glass window protects the user while enabling continuous viewing of valuables for greater customer trust

The Science Behind the Technology

X-ray fluorescence, or XRF, is a nondestructive method for elemental analysis used in our family of Vanta™ analyzers. All Vanta analyzers feature our proprietary Axon Technology™ for enhanced XRF signal processing. Ultra-low-noise electronics push the boundaries of X-ray detector performance, resulting in higher X-ray counts per second and faster, more reliable results.

Vanta™ GX Specifications

Overall Dimensions (H × W × D)	Closed: 35.73 cm × 23.93 cm × 32.41 cm (14.07 in. × 9.42 in. × 12.76 in.) Open: 38.78 cm × 23.93 cm × 39.08 cm (15.27 in. × 9.42 in. × 15.39 in.)
Sample Chamber Dimensions (H × W × D)	9.39 cm × 17.67 cm × 17.34 cm (3.70 in. × 6.96 in. × 6.83 in.)
Weight	10 kg (22 lb)
Excitation Source	2-watt X-ray tube: 35 kV, 50 µA maximum Tungsten (W) anode
Detector	Silicon PIN diode Silicon drift detector Thermo-electrically cooled, high resolution
Power	100–240 VAC, 50–60 Hz, 70 watts at 18 V and 3.9 A
Display	Full color touch-screen display: 800 × 480 (WVGA) 16-bit transflective LCD with capacitive touch screen supporting gesture control
Operating Environment	Temperature: -10 °C to 40 °C (14 °F to 122 °F) Humidity: 10% to 90% relative humidity, noncondensing
Operating System	Linux Application software: Evident-proprietary data acquisition and processing package
Camera	Full-color VGA camera
Warranty	Three-year standard warranty
Standard Accessories	AC power adapter: • Output: 70 W, 18 VDC, 3.9 A with straight-barrel output connector • Input: 100–240 VAC, 50–60 Hz 1.8 m (6 ft) AC line cord, 18 AWG cable with UL listed, IEC male plug, 0.9 m (3 ft) USB cable
Spot Size	6 mm nominal diameter
Connectivity	1 mini USB and 2 full size USB

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