BKM electronics

NAP-8200 SERIES Precious Metal Analyzer

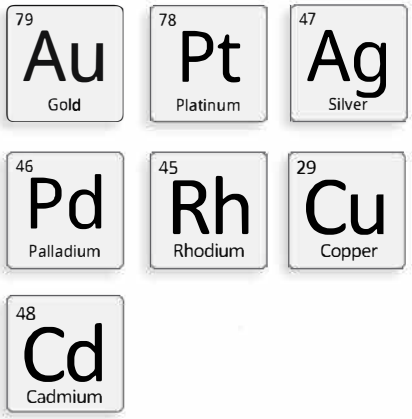
Simply Accurate Jewelry Analysis



NAPCO PRECISION INSTRUMENTS CO.,LTD.

Verify Precious Metals and Purity on the Spot

Buy and sell gold, jewelry, coins, and other valuables with confidence using the NAP-8200 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)

Accuracy

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

- The NAP-8200 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



The NAP-8200 analyzer displays karat results



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 NAP-8200 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 7 chemical elements
- NAPCO provides a one-year warranty and post-warranty maintenance protects your investment
- Two available models offer flexibility, 12.1 Inch Touch Display and 9.1 Inch Touch Display



The NAP-8200 test results show a fake gold alert

Functions

- Tests all colors of gold from 1% to 99.99% and silver, platinum, and palladium
- Test results shows both karat value and all percentages of metal elements
- Easy one-step calibration using pure silver
- Easy and safe to operate it (don't need any professional person)
- All data could be stored in the computer
- Reports can be printed out with A4/A5 and label form
- Follow easy steps to identify non-gold and plated gold

Safety

The NAP-8200 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:

- If the cover is accidentally opened during the test, the system will immediately stop X-ray emission
- Camera inside the machine protect users while enabling continuous viewing of valuables to increase customer trust
- It is designed exactly to meet security standards with active radiation protection, high voltage protection and X-ray tube overheating protection.



Jewelry Shops



Pawning Center

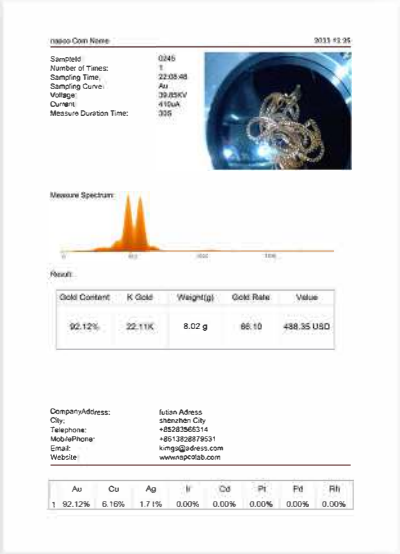


Tunch and Assaying

Get detailed reports with just one click

The Napco test Report Software now enables customers to display and print all the relevant test data on one sheet, making buying and selling gold much more efficient.

Including a real image of the metal being tested on test result sheets can enhance customer trust by providing visual evidence of the assessment. Visual representation helps customers better understand the appraisal process and adds transparency to the evaluation.



The NAP-8200 test results A4 printout

Appraiser software

The Gold Appraiser software is designed to appraise the value of gold based on factors such as weight, purity, and current market prices of gold to determine its value accurately. This feature is widely used by the jewelry industry, pawn shops, banks or any professional involved in buying and selling gold.

How does the process work without any professional expertise in the gold industry?

1. Gold Purity Testing: NAP 8200 XRF machine analyze the purity of gold with karatage
2. Weight Measurement: Napco weighing balance calculates the weight of gold.
3. Market Value Assessment: The lender can enter the current market price of gold into the software.
4. Loan Calculation: The eligible loan amount is automatically calculated by software based on gold purity, weight, and current market price.
5. Documentation: Once the appraisal is complete, the software generates a gold evaluation detailed report showing net weight, gold percentage, gold market rate and appraiser value, eligible amount of advance and etc.



GOLD LOAN EVALUATION REPORT									
Name					Date Time			2023-12-25 22:17:55	
Customer					Loan Account				
Sample Name	Net Weight	Test No	Gold %	Average Au %	Au Rate	Machine Value (A)	Appraiser Rate	Appraiser Value (B)	Image
0245	8.02	1	92.12	92.12	66.10	488.35	75.00 %	366.26	
Total	8.02					488.35		366.26	
AS PER APPRAISER (B)									
Eligible Amount Of Advance (a Or B Whichever Is Less)					366.26 USD				
Officer:			Branch In Charge:				Signature Of The Borrower:		

The NAP-8200 appraiser report

The Science Behind the Technology

X-ray fluorescence, or XRF, is a nondestructive method for elemental analysis used in our family of NAPCO analyzers. All NAPCO analyzers feature our proprietary 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.

NAP-8200 Specifications

	NAP-8200E	NAP-8200S
Overall Dimensions - Machine	Closed: 46 cm × 39 cm × 40 cm (18.11 in. × 15.35 in. × 15.75 in.) Open: 46 cm × 39 cm × 60 cm (18.11 in. × 15.35 in. × 23.62 in.)	
Sample Chamber Dimensions	25 cm × 25 cm × 7.5 cm (9.84 in. × 9.84 in. × 2.95 in.)	
Weight - Machine	33 kg (72.75 lb)	
Working Principle	Energy Dispersive X-ray Fluorescence	
Detector	Gas Proportional Detector	
Precision	±10ppm~0.1%	
Analysis Range	1% - 99.99%	
Detection limit	100ppm Best substance effect	
Testable Elements	Au, Ag, Cu, Pt, Pd, Ir, Cd, ect.	
Power	220 volt 50Hz	
PC Or Laptop interface	Integrated PC with touch screen, Wireless LAN, USB interfaces, HD camera	
Main Structure	High-strength metal frame and industry plastic shell	
Operating Environment	Temperature 0-28℃ Humidity ≤70%	
Operating System	Windows 10 Application software: Napco Precious Metal Analyzer	
Measurement Time	30 seconds Auto mode	
Camera	Full-color camera	
Warranty	One-year standard warranty with lifetime free software upgrade	
Standard Accessories	AC power adapter, Silver calibrator, WiFi adapter, Film protective stickers, Ring holder	
Connectivity	2 USB Ports	
Package Size	59 cm × 55.5 cm × 53 cm (23.23 in. × 21.85 in. × 20.87 in.)	
Package Weight	48 kg (105.82 lb)	
Display	12.1 inches bigger display with full color touch-screen	9.1 inches bigger display with full color touch-screen

CE

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