

N1 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 N1 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.

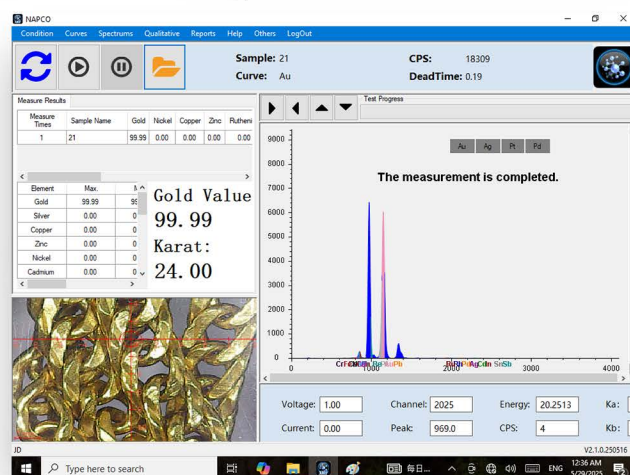
- Measure the gold, silver, and other precious metals in your valuables on-site to quickly and accurately price items
- Identify fake items fast with the alert for gold plating and detection of hazardous elements (e.g., lead and cadmium)

Accuracy

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

- The N1 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

24 Cr Chromium 51.996	26 Fe Iron 55.845	27 Co Cobalt 58.933	28 Ni Nickel 58.693	29 Cu Copper 63.546
30 Zn Zinc 65.38	32 Ge Germanium 72.631	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.42
47 Ag Silver 107.868	48 Cd Cadmium 112.414	49 In Indium 114.818	50 Sn Tin 118.711	51 Sb Antimony 121.760
75 Re Rhenium 186.207	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.217
	78 Pt Platinum 195.085	79 Au Gold 196.967	82 Pb Lead 207.2	



The N1 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 N1 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 the detection of a wide range of chemical elements.
- NAPCO provides a one-year warranty and post-warranty maintenance protects your investment
- 12.1 Inch Touch Display

Element	Max.
Gold	99.99
Silver	0.00
Copper	0.00
Zinc	0.00
Nickel	0.00
Cadmium	0.00

This XRF result indicates that the sample contains a maximum of 99.99% gold, with no detectable amounts of silver, copper, zinc, nickel, or cadmium.

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 N1 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

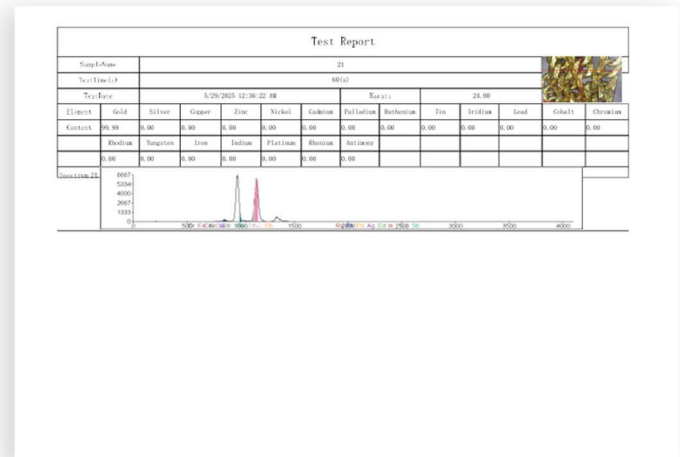


Tunch and Assaying

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 N1 test results A4 printout

Back Panel Interface and Peripheral Connections

The rear panel of the XRF analyzer provides various ports and connectors essential for operation and integration with external devices. Please refer to the image above for guidance on connecting accessories properly.

1. Power Connector and Switch

Located on the bottom left of the rear panel:

- Power Input: Connect the power cord here.
- Power Switch: Toggle the red switch to turn the machine ON or OFF.

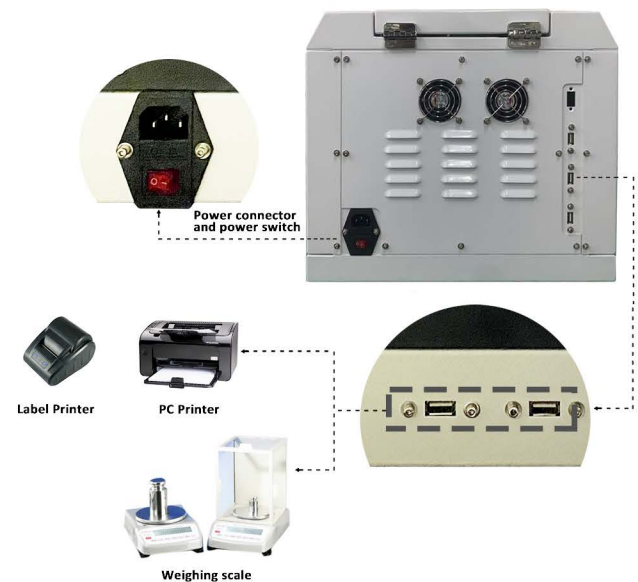
2. USB and Communication Ports

On the right side of the panel, the machine includes:

- Multiple USB Ports: For connecting external devices such as:
 - Label Printer: For printing tags or barcodes instantly.
 - PC Printer: For printing analysis reports.
 - Weighing Scale: To measure sample weights and directly input data into the analysis system.

3. Cooling Fans

Two high-efficiency fans are integrated to ensure proper ventilation and prevent overheating during continuous operation.



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.

N1 Specifications

	N1 XRF Precious Metal Tester
Overall Dimensions - Machine	46 cm × 39 cm × 40 cm (18.11 in. × 15.35 in. × 15.75 in.)
Weight - Machine	30 kg (66 lb)
Working Principle	Energy Dispersive X-ray Fluorescence
Detector	High performance Si-Pin detector
Resolution	140eV FWHM
Accuracy	0.03%
Analysis Range	1 ppm to 99.99%
Testable Elements	Au / Ag / Cu / Ir / Cd / Zn / Ni / Fe / Pt / Pd / W / Rh / Ru / Co / Os / Pb / Re
Power Requirements	AC 220V ± 10V, or AC 110V ± 10V, 50/ 60 Hz
PC Or Laptop interface	Integrated PC with touch screen, Wireless LAN, USB interfaces, HD camera
Multichannel Analyzer	Digital multichannel
Operating Environment	Temperature 5 ° C ~ 38 ° C Humidity ≤70%
Operating System	Windows 10 Application software: Napco XRF Precious Metal Analyzer
Measurement Time	30sec ~ 60sec
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

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