

# Mark 990 Handheld Precious Metal Analyzer



— Fast Identifying the Purity You Care



## Why Choose Mark 990

### Fast and accurate

Perform fast, accurate, and reliable analysis of precious metals, with analysis results displayed in seconds.

### Intuitive and easy to use

Large-size high-definition touch screen, graphical interface, and intuitive test results.

### Safe and non-destructive

Automatic radiation protection device is installed to protect the safety of operators, and the appearance of precious metal samples will not be damaged by detection.

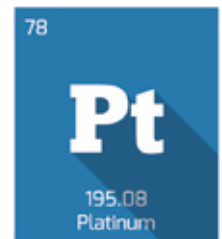
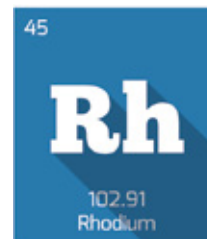
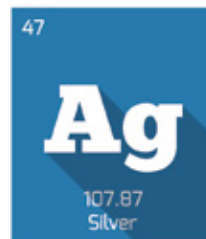
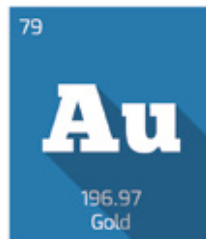
### Simple and lightweight

No need for much training, easy to operate. Compact design for easy portability without any sample preparation.

Mark990 handheld precious metal analyzer, based on advanced ceramic packaged microfocus X-ray tube and high-performance semiconductor detector, combined with advanced software algorithm, can quickly, accurately and non-destructively test gold, silver, platinum and other precious metals concentration in jewelry, to fast indentify the purity of jewelry, investment gold and various precious metal materials.

## Mark 990 is Ideal for Applications

- **Precious Metals Recycling**  
Precise analysis and identification of purity, concentration of recycled or recovered precious metals.
- **Jewelry dealer and makers**  
Procurement and identification of precious metal materials for jewelry makers.  
Used for authenticity identification, purity analysis or gold and silver, K value testing of gold jewelry.
- **Pawnshop**  
Gold authenticity identification, purity testing of precious gold and silver jewelry and investment gold.
- **Quality inspection agency**  
For the identification of the purity of precious metals, gold and silver, etc.
- **Industrial precious metal catalyst**  
For gold refining industry, monitoring of gold content in activated carbon.  
Testing precious metals such as platinum (Pt), rhodium (Rh), and palladium (Pb) in the recovery of automobile three-way catalysts.  
Testing recycled precious metal catalysts for chemical industry, including platinum (Pt), palladium (Pb), ruthenium (Ru), rhodium (Rh), iridium (Ir).



## Models of Mark 990 Series

Model	Mark 990	Mark 990P
Excitation	Ceramic packaged microfocus X-ray tube, Ag Anode 50kV	
Detector	High performance Si-Pin detector	Optimized SDD detector (with Graphene window)
Resolution	140eV FWHM	129eV FWHM
Filter	Multi position automatic filter changer	
Window	Kapton with anti-puncture window design optional	
Collimator	Optional 3mm collimator	
Battery	7.2V Li-ion battery, 6800mAh	
Display	Capacitive touch screen (5 inch 720P)	
CPU	i.MX 8M Mini quad core 1.8GHz	
Signal Processor	4096-pixel multi-channel detector/80 MHz ADC digital signal processor	
Thickness	Generally within 50 $\mu$ m (depending on material) Repeatability: up to 0.1%	
Data Storage	Over 100,000 data storage	
Data transfer	WiFi、USB	
Structure design	Unique structure design, effectively increase the heat dissipation of the X ray tube	
Radiation safety	Safety Guard induction device, when there is no sample in the test area, the source will shut, providing maximum safety protection. Password-protected user security	
Camera (optional)	Integrated CCD camera with autofocus lens for positioning and recording measuring point positions	
Elements	Au,Ag,Pt,Pd,Rh,Ru,Ir,Zn,Cu,Ni,Co,Fe and more can be added if required	
Environment	Temp: -10 $^{\circ}$ C~50 $^{\circ}$ C Humidity 0%~80%	
Standard	CE, RoHS, IP54	
Weight	Approx. 1.5kg (3.3lbs) including battery	
Dimensions	L x W x H: 220mm*91mm*276mm	

Napco Precision Instruments Co.,Ltd.

401, Fucheng Digital Science Park, Fucheng Street, Longhua District, Shenzhen, China

TEL: + 86 138 2887 9531

EMAIL: sales@napcolab.com

WEB: <https://www.napcolab.com>

