

# XRF Analyzer

Superb Electromachinery Co., Limited



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XRF ANALYZER



## XR1200 Desktop Gold Analyzer

### Description

SuperbMelt XRF analyzer for jewellery is used to analyze precious metal purity and authenticity. The best XRF analyzer can perform a quick and accurate analysis of precious metals such as gold, silver, platinum, palladium and copper.

### Parameter

Model	SPB-XR1200
Analysis Range	ppm to 99.99%
Accuracy	0.1% (Average)
Sample Form	Solid, powder, liquid
Tube Voltage	5KV - 50KV
High Voltage Power Supply	0 - 50KV
Camera	HD camera
Filters	Selectable customized switches
Detector Type	Proportional counter tube
Analyzer	Multi channel simulation
Sample Chamber Size	380 * 380 * 60 (mm)
Test Time	5sec - 60sec
Detection Elements Range	Au, Ag, Pt, Pd, Cu. (Zn and Ni will be in Cu; Cd in Ag)
Standard Accessory	Jewelry holder*1, power cable*1, calibration samples*1
Analysis Software	Qualitative and quantitative analysis software
External Dimensions	480 * 480 * 390 (mm)
Weight	38Kg



### Features

- High Precision**  
Accurate analysis of precious metal purity, such as gold, silver, platinum and palladium, at an analytical tolerance range of 0.01% to 0.03%.
- Fast Testing**  
Testing and analysis time with the XRF gold tester is very fast, analysis is usually completed within 5 to 60 seconds.
- High Accuracy**  
Adopting a unique optical technology and calculation method to ensure the accuracy of results.
- Various Shapes**  
SuperbMelt jewellery analyzer can measure different sizes and shapes of metal. Which makes it suitable for use in pawn shops, jewelry making industries, scrap recycling, etc.

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## XR2800 Desktop Gold Analyzer

### Description

SuperbMelt XRF analyzer for jewellery is used to analyze precious metal purity and authenticity. The best XRF analyzer can perform a quick and accurate analysis of precious metals such as gold, silver, platinum, palladium and copper.

### Parameter

Model	SPB-XR2800
Analysis Range	0.01% to 99.99%
Accuracy	0.05% - 0.1%
Sample Form	Solid, powder, liquid
Tube Voltage	5KV - 50KV
High Voltage Power Supply	0 - 50KV
Camera	HD camera
Filters	Selectable customized switches
Detector Type	Proportional counter tube
Multichannel Analyzer	Digital multichannel
Sample Chamber Size	310 * 270 * 90 (mm)
Test Time	5 - 60sec
Measuring Element	Au Ag Pt Pd Ir Cu
Analysis Software	Qualitative and quantitative analysis software
External Dimensions	510 * 400 * 420 (mm)
Weight	36Kg
Ambient Temperature	5 °C - 30 °C (Suggested that in air conditioning room)
Relative Humidity	15% - 85%
Power Requirements	AC 220V ± 5V, 50/60 Hz
No high power electromagnetic and vibration interference sources nearby	



### Features

- SuperbMelt gold testing machine** has Microsoft Windows software that is easy to use. The software requires no standard samples for calibration.
- The light reflected from the sample is captured by x-ray spectrum technology, and then the value is automatically read by the computer, and the accuracy can reach 0.05%-0.1%. And the result of testing is close to fire assay.
- SuperbMelt XRF gold analyzer has a camera that allows you to see the x-ray spot position from your computer for a more effective analysis.
- SuperbMelt XRF testing equipment is safe to use through the unique design that seals the x-ray within the chamber. The x-ray does not escape the chamber to harm the operator.
- There is no need to directly contact the sample during measurement, and XRF technology does not require any physical and chemical treatment, so it will not damage precious metal samples such as gold and silver.

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## XR3800 Desktop Gold Analyzer

### Description

SuperbMelt XRF precious metal analyzer XRA3800 is an analyzer best suited for testing and analyzing the elements in metals. The XRF metal analyzer by SuperbMelt is also used to determine the content of metals such as Gold, Silver, Platinum, Palladium, Copper, Zinc and so on.

### Parameter

Model	SPB-XR3800
Analysis Range	ppm to 99.99%
Accuracy	0.03%
Sample Form	Solid, powder, liquid
Tube Voltage	5KV - 50KV
High Voltage Power Supply	0 - 50KV
Camera	HD camera
Filters	Selectable customized switches
Detector Type	Proportional Counter Tube
Resolution	145 + 5 ev
Multichannel Analyzer	Digital multichannel
Sample Chamber Size	310 * 270 * 80 (mm)
Test Time	3sec - 60sec
Measuring Element	72 elements from sodium (Na) to uranium (U) except (Na, Mg, Al, Si, P, S, Cl, Ar, K, Ca) light elements
Analysis Software	Qualitative and quantitative analysis software
External Dimensions	460 * 390 * 360 (mm)
Weight	38Kg



### Features

- High Accurate**  
Analysis results close to fire assay result.
- Rapid Analysis**  
Only takes several seconds for qualitative analysis, and 1 to 2 minutes for quantitative analysis.
- 25 Element Display**  
SuperbMelt XRF precious metal analyzer can display over 25 elements at the same time on the high-resolution screen.
- High Precision**  
Has an analytical tolerance of 0.01%-0.3%.

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## XR5000 Handheld Gold Analyzer

### Description

SuperbMelt handheld XRF analyzer is a non-destructive analytical tool that is used to detect the elements present in materials. It can identify the components of metals and alloys such as gold, silver, stainless steel, cobalt alloys, bronze, zinc, zinc alloy, nickel alloys, tungsten alloys, etc.



### Parameter

Model	SPB-XR5000
Analytical Method	Energy dispersive X-ray fluorescence analytical Method
Elements Measuring Range	Atomic number from 12 to 92 (elements from magnesium (Mg) to uranium (U)) can be measured
Simultaneous detector elements	Simultaneous analysis 40 elements
Microcomputer system	Customized system; CPU: 1G; system memory: 1G; extended stored maximum support 32G; standard 4G for mass storage data
The content range	ppm ~ 99.99%
The detection time	1-60 seconds (a second report results)
A built-in system	GPS, WIFI, Bluetooth
Power Supply	Rechargeable lithium battery, standard is 9000mAh, sustainable work up to 12 hours; optional is 27000mAh superbattery with wide voltage 110V - 220V universal adapter for recharging power supply
Detection Objective	Solid, liquid, powder
Detector	SDD detector or Fast-SDD detector (optional)
Detector resolution	Minimum can reach 128eV
The excitation source	50KV/200uA silver target end window integrated miniature X-ray tube and high voltage power supply
Collimator and filter	Collimator diameters are 4.0mm and 2.0mm, 6 kinds of filters with automatic switching functions
Video system	500W pixel high resolution camera
Display screen	Brand new 5 inch transreflective LCD touch screen, the resolution is 1080 X 720
Detection limit	The minimum detection limits at 1 - 500 ppm
Operating ambient humidity	≤ 90%
Operating environmental temperature	-20°C ~ +50°C
Instrument dimension	244mm (Length) x 90mm (Width) x 330mm (Height)
Instrument weight	1.7Kg

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## XR5800 Handheld Gold Analyzer

### Description

SuperbMelt handheld XRF analyzer is a non-destructive analytical tool that is used to detect the elements present in materials. It can identify the components of metals and alloys such as gold, silver, stainless steel, cobalt alloys, bronze, zinc, zinc alloy, nickel alloys, tungsten alloys, etc.

### Parameter

Model	SPA-XR5800
Analysis	1 PPM to 99.99%
Sample form	Solid, powder, liquid
High voltage power supply	0 - 50 kv
Light detector current	0 mu A - 100 mu A
Detector type	Proportional Counter Tube
Resolution of Si - pin	≤ 180 eV
Multichannel analyzer	Multichannel analyzer DMCP
Test time	3 SEC - 30 SEC
Measuring element	72 elements from sodium (Na) to uranium (U) except (Na, Mg, Al, Si, P, S, Cl, Ar, K, Ca) light elements
Analysis Software	Qualitative and quantitative analysis software
Shape size	290 * 230 * 90 (mm)
Weight	1.58kg (with battery)
Ambient temperature	-5 °C - 45 °C
Relative humidity	< 90%



### Features

- Compact Design**  
SuperbMelt gold tester gun for sale by SuperbMelt is lightweight, portable in size, comfortable hand design that is easy to grasp and work in any environment.
- High Accuracy**  
The brand new 5 inch transreflective LCD touch screen with a resolution of 1080 x 720 and the 500W pixel high resolution camera contributes to the analyzer's accurate analysis of materials.
- Various forms**  
SuperbMelt's gold tester gun has an Sipin detector that is able to detect and analyze materials in the form of solid, liquid or powder.
- Safety**  
The gold tester gun is completely safe with its multiple safety protection, no tests, no radiation, radiation level when in use are far below the international safety standards, automatic shut X light tube function.

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