

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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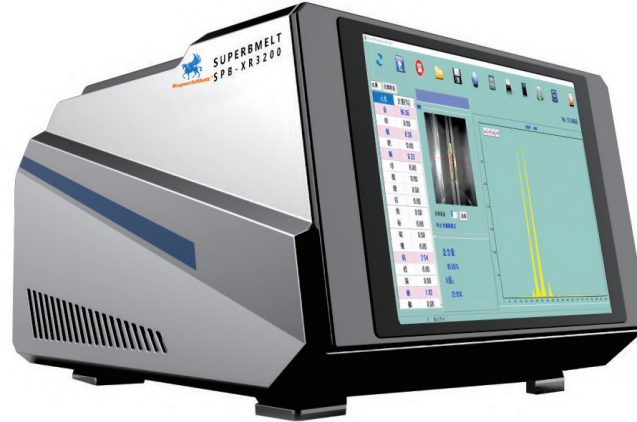
XR3200 Desktop Gold Analyzer

Description

Designed for stability and precision, it can distinguish between 99.99% gold and 99.90% gold. The software offers a user-friendly interface, displaying percentages and gold purity in karats. It also allows for customized reports to meet client needs. This makes it ideal for various applications, including jewelry customization, gold buy-back programs, retail jewelry quality checks, pawn shop assessments, jewelry education programs, and academic training.

Parameter

Model	SPB-XR3200
Analysis Range	0.01% to 99.99%
Accuracy	0.05%
Sample Form	Solid, powder, liquid
Tube Voltage	0uA - 1000uA
High Voltage Power Supply	0 - 50KV
Camera	HD camera
Detector	New Si-PIN detector
Detector Type	Proportional counter tube
Multichannel Analyzer	Digital multichannel
Sample Chamber Size	270 * 260 * 100 (mm)
Test Time	5 - 60sec
Measuring Element	74 elements from potassium (K) to uranium (U)
Analysis Software	Qualitative and quantitative analysis software
External Dimensions	520 * 450 * 400 (mm)
Weight	38Kg
Ambient Temperature	5 °C - 30 °C (Suggested that in air conditioning room)



Features

- Measures up to 74 elements** between Potassium (K) and Uranium (U). Analyzes multiple forms: solid, powder, and liquid (excluding light elements).
- Provides 0.01% to 99.99% accuracy** with only 0.05% error margin. Capable of identifying gold-tungsten and gold-rhenium alloys to prevent fraud.
- Delivers results in just 5-60 seconds** per analysis, ensuring efficiency.
- Generates reports with percentage compositions and gold K values.** Allows personalized test reports for customer needs.
- Used in various sectors** such as jewelry customization, gold buy-back, jewelry retail, pawn shops, and academic training.

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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-XR 3800
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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XRF ANALYZER



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 super-battery 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 transfective 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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LASER WELDING & MARKING



XR6800 Handheld Gold Analyzer

Description

XRA6800 is also a handheld device, which can realize the measurement of 82 elements, and the measurement speed can reach 3-30 seconds to obtain the results quickly. The weight is only 1.58kg, which is suitable for carrying out as an identification tool for gold and other precious metals.

Parameter

Model	SPA-XR6800
Analysis	1 PPM to 99.99%
Sample form	Solid, powder, liquid
High voltage power supply	0 - 50 kv
Light control current	0 mu A - 100 mu A
Detector type	SI-PIN
Operating system	Windows CE
Multichannel analyzer	Multichannel analyzer DMCP
Test time	3 SEC - 30 SEC
Measuring element	82 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	319 mm x 254 mm x 91mm
Weight	1.75Kg (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 transfective 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 Si-pin 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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