PeDX GOLD 2 Portable Precious Metal Analyzer

Product advantage

The LANScientific PEDX GOLD portable X-ray analyzer is designed to perform safe, high-quality energy dispersive X-ray fluorescence (EDXRF) analysis in the field. The high-performance instrument is equipped with a secure, closed ray sample chamber and flexible analysis software that allows a variety of factory-default and user-defined calibrations without the need for sample preparation. The collection and analysis operation is as simple as a mobile laboratory.

1.Provide a complete nondestructive testing method

2.Automatically authenticate the carat level of the sample

3.Rapid analysis results within seconds

4.In the process of refining and smelting, product quality management and control

Performance advantages

1.One key intelligent operation

The whole analysis process can be completed in a few seconds, and the operation is simple, even for non-technical personnel.

2.Easy to customize

On the basis of testing, it provides a variety of user-defined settings, which can change the test conditions according to the needs of testing, and also change the threshold according to the needs of screening, so as to realize the personalized screening of different materials and different elements.

3.Multi form data output

The analysis data report can be made in PDF format or excel format. When you export data in Excel format, you can also confirm and edit the data in detail in the table. Users can also customize and create professional reports, including company logo, company address, test results, spectrogram and other sample information (such as product description, origin, batch number, etc.).

4.Accurate and reliable qualitative and quantitative methods

The integration of super FP algorithm, correction curve method and other advanced algorithms makes the instrument not only faster, more accurate and more consistent.

Application range -

LANScientific PeDX GOLD 2 Portable Precious Metal analyzer has excellent precious metal analysis ability, which can quickly and accurately determine gold, silver, platinum, rhodium, palladium and other precious metals and impurity materials on site without damaging the tested samples. Compared with other precious metal detection methods, Langsheng pedx gold analyzer is more convenient and economical, which is very suitable for judging carat grade and precious metal and non-metal content. It is a very cost-effective detection tool for pawn shops, gold trading places, jewelry shops, museums, archaeologists, coin collectors and waste recycling industry.

Main applications

1. Distinguish the composition of gold, silver, platinum and other precious metal alloys;
2. To identify the carat level of gold and quickly set the cash gold exchange price;
3. Effective detection of gold content in waste metal;
4. Distinguish toxic elements in solder, such as cadmium (CD) or lead (PB);
5. Identification of elements in impurity materials.

Technical parameters and specifications -

Instrument size	200 (L) *200 (W) *268 (H)
Sample cabin size	170 (L) *130 (W) *60 (H)
Total weight	4.1kg
X-ray tube of excitation source	50KV max, 200μA max, upper excitation power 4W
Detector	Si-pin Detector
Operating system	based on i.mx6 Quad quad core cortex-a9 processor
Dedicated analysis level operating system	32GB system memory
Power supply system	intelligent battery with msbus bus, real-time monitoring battery and standby battery can directly check the remaining capacity of battery, which conforms to regulations on transportation of aviation dangerous goods. Single battery can work for about 8 hours
Resolution	< 136ev
Data transmission USB	Bluetooth
Operating environment temperature	-20 ℃ ~50 ℃
Operating environment humidity	10% - 90% relative humidity, non condensing
Display	5.7 "retractable color touch screen display
Measurement time	user defined
Safety protection	built in ray protection device (automatic cut-off) Safety interlock, only when power is on can the instrument be opened (sealing performance),Radiation indicator

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