ScopeX COAT 2 analyzer

Product introduction

XRF is a coating technique widely used to measure the thickness and composition of coatings. It has the advantages of nondestructive, rapid and high accuracy.

ScopeX COAT 2 analyzer is suitable for multilayer coating thickness measurement and material analysis. It can be used to quantitatively and qualitatively analyze the elemental composition of samples. It can also be used for thickness measurement of coatings and coating systems. It is widely used in automobile manufacturing, aerospace, shipbuilding, hardware products, standard parts, electronic components, electrical components, mechanical parts, bathroom decoration products, jewelry and other fields.

Application range −

Application field

PCB circuit board

PCB is one of the important components of electronic industry. With the rapid development of industry and technology, the demand for PCB board is increasing day by day, and the process of PCB board is also put forward higher requirements.

Metal plating

At present, the common PCB surface treatment processes on the market include hot air leveling, organic coating OSP, electroless nickel plating, gold dipping, silver dipping, tin dipping and nickel plating. It can effectively control the quality of products with coating thickness, such as PCB and circuit board, to avoid the loss caused by quality problems.

In the metal plating industry, the thickness of the metal coating, the concentration and content of the metal plating solution can be effectively analyzed to meet the production needs, to ensure that the production process and finished coating to meet the standards.

It can accurately detect the composition and concentration of electroplating solution, ensure the quality of electroplating, and effectively detect the heavy metal content in industrial waste water and waste produced by electroplating.

Jewelry

The instrument is widely used in the jewelry industry. It is mainly used to detect the metal content of jewelry and the coating thickness of plating jewelry.

Testing institutions, scientific research laboratories, etc

Testing institutions are mainly used to test whether the product is up to standard, scientific research institutions are used to do scientific research, such as plating solution formula, the relationship between coating thickness and product performance.

Technical parameters and specifications −

Instrument specifications

Measurement	X-ray fluorescence analysis
Determination method	Energy dispersion type
Range of measurement	All the elements from sodium to uranium.
Sample room size	368*304*78mm
Maximum sample weight	2.5KG
Open way	automatic control

X - ray generating department

X-ray tube	High power side window X-ray tube
voltage	5-50KV
current	0-1000μA
Cooling way	Air cooling
collimator	5mm, 3mm, 1mm, 0.5mm
Detector	
type	Large area SDD detector
Cooling way	Peltier cooling
sample room	
Measurement situation	Atmosphere, Vacuum(optional), Helium(optional)
Sample observation	5 megapixel high-definition industrial camera

Computer configuration

CPU	i3-7100 or i3-7100, same dominant frequency or above
RAM	DDR4 4G or above
ROM	1TB HDD/256GB SSD or above
OS	Windows 10

Environment setup

Temperature conditions	10°C~35°C
Relative humidity	40~70%(no dew)
power supply	220VAC
Rated power	100W
Equipment size	570*402*400mm
Equipment weight	47KG

Product detail −

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. Perfect safety protection

The radiation indicator lights on the left and right sides of the device automatically breathe during the measurement process, and the built-in DoubleBeam™ technology automatically detects whether there is a sample in front of the device, improving radiation safety and protection levels.

5.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.

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