

# ScopeX COAT 1 analyzer

## Product introduction

Demand for communications devices, electronic wearables, the Internet of Things, and increasing reliance on electronics in the automotive and other industries are driving the rapid development of the electronics industry. Electroplating as an indispensable link in the manufacturing process of electronic products, rapid and accurate analysis of coating thickness is an important method for product quality control.

ScopeX COAT 1 can measure thickness and material composition of a variety of coatings without loss. It has the characteristics of small measurement error, high reliability, good stability, easy operation and so on. It is an essential testing instrument to control and ensure the quality of products. It is widely used in manufacturing, metal processing, chemical industry, commodity inspection and other testing fields.



Hotline  
400-992-0512

## 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.

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.

#### Metal plating

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

Measurement	X-ray fluorescence analysis		
Determination method	Energy dispersion type		
Range of measurement	Mg—U		
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	BOOST Si-PIN		
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, 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℃-35℃		
Relative humidity	40-70%(no dew)		
power supply	220VAC		
Rated power	100W		
Equipment size	570*402*400mm		
Equipment weight	47KG		

Contents and specifications are subject to change without prior notice.

#### Principal configuration:

1. High voltage power supply.
2. Large sample measurement chamber.
3. High-definition camera.
4. Automatic switching collimator and filter.
5. Computer, laser printer.
6. Spectral analysis software suite
7. Reference material: system calibration sample
8. Other equipment: sample cup, test film, fuse.

## Product detail

### 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.

### 6. High quality detector

Instrument selection is suitable for the analysis of multi-element coating detector, low noise, can flexibly deal with the future coating structure.

## Related video

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ScopeX COAT XRF Analyzer

#### ScopeX COAT 2 analyzer

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