

## ScopeX 980S Benchtop XRF analyzer

### Product introduction

Energy Dispersion X-ray Fluorescence Analysis (EDXRF) is an ideal analytical technique that can perform fast and accurate complete nondestructive analysis and can be used to test a wide range of elements, providing quality assurance and process control for industries as diverse as petroleum, coatings, precious metals, cement, minerals, metal materials and plastics.

The Scopex 980S Analyzer is equipped with highly intelligent software and high-quality hardware, with the advantages of wide linear range, fast analysis speed, good reproducibility and high accuracy. The sample preparation is simple, the sample size and shape can be diverse, and the high sample handling capacity can be realized. Suitable for large-scale continuous analysis, process control, product quality inspection and other links.



### Application range

|  |  |
|--|--|
| geochemical                                      | Mining exploration, ore testing  |
| Environmental assessment                         | Soil testing, solid waste testing  |
| Consumer Product Compliance and Safety Screening | RoHS compliance screening  |
| Application of metal materials                   | Positive Material Identification (PMI), QA/QC, scrap sorting                     |
| Precious Metal Detection                         | Jewelry/precious metal identification, automobile catalyst detection (three-way) |
| Oil analysis                                     | Wear metal detection in oil products   |
| The plating thickness                            | Coating material inspection, thickness measurement                               |
| other  | Catalysts, cosmetics, pharmaceuticals and biotechnology, etc                     |

### Technical parameters and specifications

#### The main specifications

|                                 |                             |
|---------------------------------|-----------------------------|
| The measurement                 | X-ray fluorescence analysis |
| Determination method            | Energy dispersion type      |
| The determination of the object | Solid, liquid, powder       |
| Range of measurement            | Sodium (Na) -uranium (U)    |
| Sample room size                | 368*304*78mm                |
| Maximum sample weight           | 2.5 KG                      |
| Open way                        | The automatic control       |

#### X - ray generating department

|             |                                   |
|-------------|-----------------------------------|
| X-ray tube  | High power side window X-ray tube |
| voltage     | Maximum 50 kv                     |
| current     | Limit 1 ma                        |
| Cooling way | Air cooling                       |
| collimator  | 5mm, 3mm, 1mm, 0.5mm              |

#### The detector

|                                |  |
|--------------------------------|--|
| type                           | SDD  |
| Cooling way                    | Peltier cooling                                  |
| Sample room                    |  |
| Determination of environmental | Atmosphere, Vacuum (optional), Helium (optional) |
| Sample observation             | 5 megapixel high-definition industrial camera    |

#### Data processing department

|                          |                                       |
|--------------------------|---------------------------------------|
| PC processor (CPU)       | 13-7100 equivalent frequency or above |
| Memory (RAM)             | DDR4 4G memory or above               |
| Hard disk capacity (ROM) | 1TB HDD or 256GB SSD or above         |
| OS                       | Windows 10                            |

#### Environment setup

|                        |                 |
|------------------------|-----------------|
| Temperature conditions | 10 ° c ~ 35 ° c |
| Relative humidity      | 40~70%(no dew)  |
| The power supply       | 220VAC          |
| Rated power            | 100W            |

#### Set the example

|                  |               |
|------------------|---------------|
| Size of the host | 570*402*400mm |
| The host weight  | 47KG          |

### Product detail

#### Accurate and reliable quantitative method

Wave sound international leading XRF analysis software, the integration of correction curve method, basic parameter method (FP method) and other analysis methods, the accuracy of the test data performance has been fully guaranteed.

#### Simple and intuitive

It can accurately describe the analysis spectrum, and has the function of spectrum comparison, fast track the possible changes of material composition, reduce the risk.

#### Easy customization

On the basis of the built-in template to provide a variety of custom options, according to the screening needs of the threshold and decision string, to achieve personalized screening of different materials, different elements.

#### Facilitate the management

Through permission level management, operators can use different user names and passwords to log in to the system, thus binding the test report to testers. A variety of test report output formats (Excel, PDF, etc.), and can be customized test report content, to meet different test data management needs.

#### X-ray tube aging automatically

After the X-ray tube is idle for a period of time, its internal vacuum degree will be reduced. If the X-ray tube is directly used without aging, it will cause damage to the X-ray tube. Wave sound resoftware is equipped with automatic aging function of X-ray tube to protect equipment and minimize the energy required for device maintenance.

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