

The Display Of Technical Arts • Skyray Instrument

| Portable | Rapid | Accurate |



- Jiangsu Skyray Instrument Co., Ltd. is a Hi-tech corporation with proprietary intellectual property.
- Our corporation specializes in R&D, manufacturing, sales and services of analytical and measuring instruments in Spectroscopy, Chromatography and Mass Spectrometry fields.
- Full product range, provide solutions for environmental protection and safety, industrial testing and analysis, and other fields.
- Our biggest strength is providing tailor-made solutions according to customer's needs.
- We have above 150 distributors and after-service stations throughout the world.
- Skyray Instrument announced its initial public offering in Growth Enterprise Market, Shenzhen Stock Exchange on January 25th, 2011. (Stock code: 300165)

EDX 3200S PLUS Super XRF Spectrometer



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Test data in this manual, if not noted, is our company's test data.
All information in this manual is for reference only, which is subject to any change without notice.

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115 Countries & regions are using Skyray Instrument up to now

Our company adopts the ISO 9001 international quality certification system
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EDX 3200S PLUS

Super XRF Spectrometer



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Sulfur is a hazardous element, both mechanically and environmentally. Sulfur causes corrosion and rust on metallic parts in engines and the emission of sulfur dioxides into the air is a big environmental concern. Consequently, many environmental protection agencies have issued strictly controlled sulfur emission limits for petroleum industry, automobiles and domestic applications. The permitted levels of sulfur in both diesel and gasoline fuels is decreasing rapidly each year.

EDX 3200S PLUS Super XRF Spectrometer is another more efficient and intelligent sulfur analyzer after the launch of EDX 3200S.

XRF spectrometers are used for regular sulfur analysis in petroleum products even at the low concentration levels in ppm range, without compromise on the precision of the analysis. Besides, XRF technology is a nondestructive and rapid analytical method.

Smaller test chamber, lower costs
Closer test distance, higher accuracy

Application field:

Petro-chemical, crude oil exploitation, liquid element analysis

Features:

- Small and smooth, simple but elegant. The silver light appearance demonstrates splendor
- Super small sealed helium gas sample chamber saves gas consumption and reduces test costs
- Close sample test distance improves test accuracy
- Rapid analysis, with test result delivered within 50s at minimum
- The same sample test height ensures test accuracy, saves standard sample and needs no special sampling tools
- Top lighting design avoids X-ray tube and Be window of the detector to be polluted by sample volatilization. It can test light oils like gasoline, diesel with higher accuracy
- High excitation efficiency side-window W Target X-ray tube, large area Si-Pin detector, together with good dissipation capability ensure the high test stability
- X-ray radiation shielding design ensures operators safety during operation



Standard configurations:

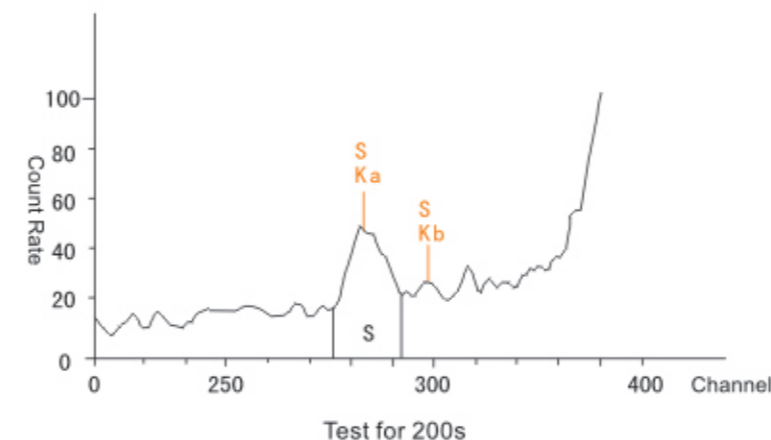
- Helium gas sealed sample chamber
- Si-Pin detector
- Signal detection electric circuit
- High-low voltage power supply
- Open sample platform
- X-ray tube
- Intelligent sulfur test software
- PC and ink-jet printer

Technical specifications:

- Function: oil elements analysis
- Analysis range: 3ppm-99.99%
- Limit of detection: 10ppm(reach 3ppm under the He condition)
- Test time: 50-100s
- Forms of object: liquid

- Working voltage: AC 110V/220V
- Working temperature: 10-35°C
- Sample cup volume: ϕ 24mm \times 22mm
- Instrument size: 370mm \times 360mm \times 418mm
- Weight: 32kg

Test Spectrogram of Gasoline Sample with S content of 70 ppm Test Result



Test Times	S content (ppm)
1	71.8
2	69.5
3	66.7
4	70.3
5	68.4
6	69.3
7	70.8
Mean Value	69.54286
Standard Deviation	1.66819
RSD	2.398794

It can be seen from above test results that this light oil is of good stability, meeting the requirements of national IV level.