

Fast | Precise | Visual | Simple | Safe

*Professional Sulfur-Detection  
Efficient and Intelligent*



# **EDX 3300S**

## X-ray Fluorescence Sulfur Analyzer

140 countries & regions are using Skyray Instrument up to now



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Nowadays, controlling the sulfur content in petrochemical products, especially in oil products (such as gasoline, diesel, lubricating oil, etc.) has become the focus of environmental protection worldwide. When oil with high sulfur content is combusted, carbon dioxide will be generated and then be cooled to generate water. Water and sulfur are combined to generate sulfurous acid or sulfuric acid which will corrode the engine. When large amount of sulfur oxides get into air, air pollution can be caused, including forming acid rain. Excessive sulfate will be formed after the sulfur in gasoline is combusted, and will be attached to the precious metal coating surface of the catalyst, resulting in excessive emissions of automobile exhaust. Therefore, it is very important to reduce the sulfur content in gasoline.

EDX 3300S X-ray Fluorescence Sulfur Analyzer is more efficient and intelligent than EDX 3200S PLUS which is previously launched. The instrument complies with national standards, including the Limits and measurement methods for emissions from light-duty vehicles (CHINA 5), GB252-2015, GB/T17040-2008, etc., and international standards, including ASTM 7039 and so on.

### Application:

Petrochemical engineering, crude oil exploration and refining, liquid element analysis, refined oil, refinery product line monitoring



### Performance advantages:

- Small and exquisite appearance, simple and integrated design equipped with integrated computer, can be used in both vehicles and laboratories, easy to use.
- Vacuum system with no need to fill with helium, reducing test costs
- Ultra-short test distance, improving the precision of tested samples
- Down-lighting design, avoiding light tube and beryllium window being contaminated by sample volatilization; capable of measuring light oil such as gasoline and diesel, and improving measurement precision
- High excitation efficiency side-window, high-power X-ray tube, most advanced SDD detector, and good heat dissipation ensure the high efficiency and stability of the test
- Automatic calibration after power on, ensuring consistent test precision.
- Intelligent sulfur measuring and analyzing software, one-click operation, intelligent algorithm equipped for detecting low-content sulfur, high-content sulfur and different oil, no need to manually select curves, reducing test error resulted from manual curve selection.
- X-ray shielded design for safe operation

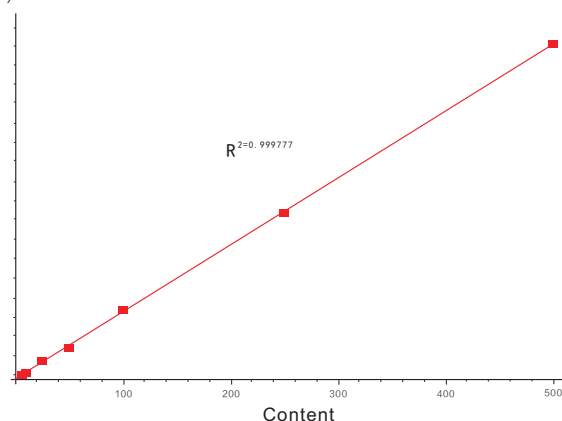
### Standard configuration:

Vacuum pump	Signal-detecting electronic circuit	Intelligent sulfur measuring software X-ray tube
Vacuumized and sealed sample chamber	High and low voltage power supply	10" industrial integrated computer
Most advanced SDD detector	Open sample platform	Sealed film-pressing sample cup

### Technical Parameters:

Analyzed Element: S, Cl  
 Analysis Range: 1ppm-20%  
 Limit of Detection: 1ppm  
 Function: Special for petroleum element analysis  
 Integrated PC: 10" industrial tablet PC  
 Analytical Precision: 10ppm, the precision can be controlled to <10%  
 Measuring Time: 200-600S  
 Measuring Object: Liquid, Solid, Powder  
 Working Voltage: AC110V/220V  
 Working Temperature: 10-35°C  
 Dimension: L/W/H<400mm, Volume: 0.06m<sup>3</sup> (can be mounted on vehicle)  
 Weight: <30kg

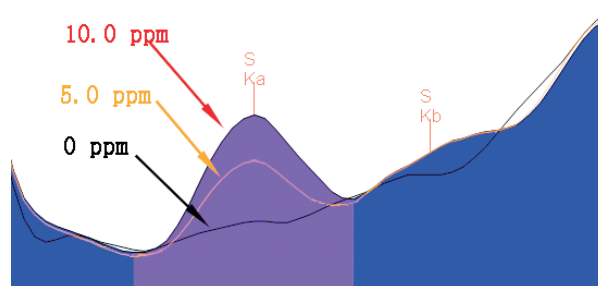
Linear Graph



### Testing results:

Repeatability Data				
Actual Content/ No.	0.0 ppm	5.0 ppm	10.0 ppm	
1	0.7	5.2	9.8	
2	0.0	4.8	9.4	
3	0.9	5.5	9.3	
4	0.0	4.6	9.0	
5	0.0	5.0	10.7	
6	1.5	4.5	9.9	
7	0.0	5.6	10.4	
8	0.0	5.4	10.1	
9	1.0	6.3	10.2	
10	0.0	4.9	10.3	
11	0.0	6.1	10.5	
Standard Deviation	0.56	0.60	0.52	

Testing Spectrum of Gasoline Samples



Testing results indicate that the stability of light oil is excellent and the results are precise. National V Standard can be fully complied with.

The ISO 9001: 2008 international quality certification system is adopted by our company



- Jiangsu Skyray Instrument Co., Ltd. is a hi-tech corporation with proprietary intellectual property.
- The Company specializes in the research and development, production, sales and services of three series of analytical and testing instruments, including spectrometer, chromatograph, and mass spectrometer, and provides system solutions for environmental protection and safety, industrial testing and analysis and other fields.
- The Company's biggest advantage is to provide customized solutions based on the requirements of each customer.
- 150 professional agencies have been established around the world for sales and after-sales services.
- The Company was listed on the Growth Enterprises Market of Shenzhen Stock Exchange on January 25, 2011, with the stock code of 300165.

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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.