



# ***Cube 100S***

Portable Energy Dispersion X-ray Fluorescence Spectrometer

140 countries & regions are using Skyray Instrument up to now

[www.skyray-instrument.com](http://www.skyray-instrument.com)



## Cube 100S series

Portable Energy Dispersion X- ray Fluorescence Spectrometer

The new Cube100S Portable Energy Dispersion X- ray Fluorescence Spectrometer is designed for the onsite analysis of Sulfur in oils.

This model fully meet onsite elements test in oils for the raw materials, production control and finished products inspections.

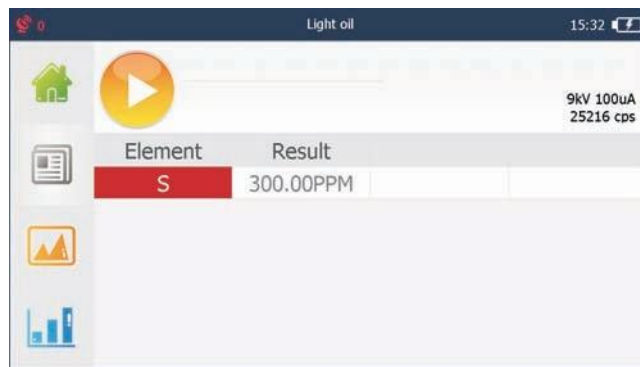
### *The outstanding advantages of the Cube 100S :*

Light, small, one key test. The operator can perform the onsite analysis at anytime and anywhere.

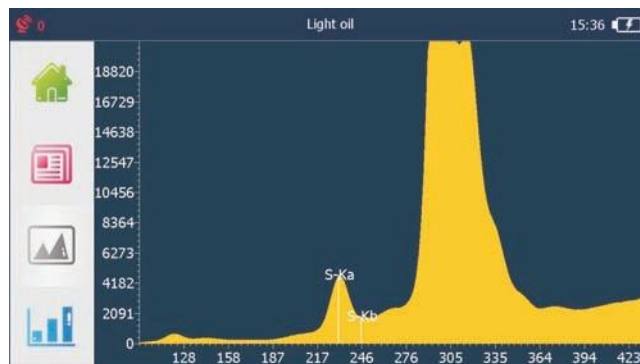
## Testing Result

After testing, the data interface will show up.

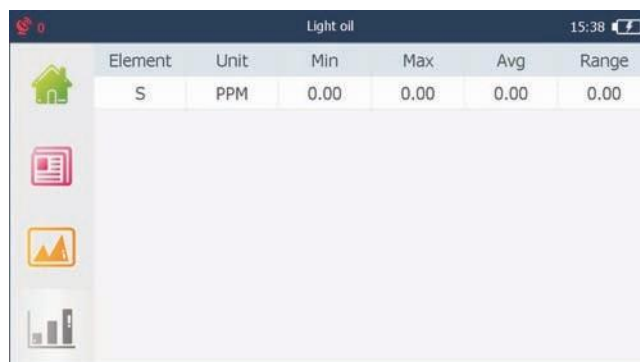
The data interface includes the testing results and statistics.



result



spectrum



statistics

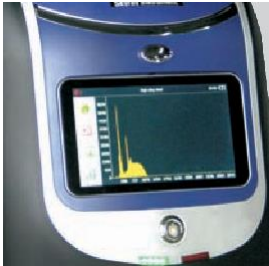
## Instrument features



Small size and easy to carry

Net weight:4.5Kg. The instrument is convenient to carry.

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PDA

Built-in PDA with the professional software for easy operation.

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Power indicator

Green indicator is on when the machine is power on.  
Red in the indicator is on when the machine is testing.

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With the built-in camera

The sample image can be saved and put into the testing report.

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**Fully meet IMO2020 shipping Fuel S max 0.5% standard, which going to carry on 1<sup>st</sup> JAN, 2020 Year**

**Fully meet MARPOL international Convention on shipping Fuel Oil Regulation ISO8217-2010 for S analyze**

# Cube 100S

Portable Energy Dispersion X-ray Fluorescence Spectrometer

## Technical specification

|                     |  |
|---------------------|--|
| Measurement range   | From P to U  |
| Testing samples     | Solid, liquid and powder                           |
| Content range       | 30ppm—99.99%                                       |
| Testing method      | EDXRF  |
| Detector            | SDD detector, the lowest resolution reach to 125eV |
| Working Temperature | -20°C ~ +50°C                                      |
| Humidity            | ≤90%   |
| Detection limit     | 20ppm for Sulfur in fuel oil                       |
| Operation           | One key test                                       |
| Testing time        | 30-130S  |
| Size                | 212*258*258mm                                      |
| Weight              | < 4.5kg  |

## Configurations

|                         |  |
|-------------------------|--|
| Detector                | SDD detector   |
| X-ray tube              | 4W micro X-ray tube  |
| Collimator              | Φ4mm   |
| Sample Chamber          | X-ray from bottom  |
| Radiation Safety system | The high voltage will be off when open the machine lid             |
| Sample placement        | reusable membrane sample cup, testing sample directly              |
| Report print            | by EXCEL file or portable Bluetooth printer (optional)             |
| Carrying case           | Multi-function instrument protection case, convenient for carrying |



The Display of Technical Arts

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

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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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