

SupNIR-2600 series Near-Infrared Analyzer

___For rapid analysis of oil quality



SupNIR-2600 adopts optical design combining digital holographic grating with highly sensitive indium gallium arsenide detector (TEC cooling constant temperature). Based on sample analysis through transmission method, the wavelength range covers 1,000-1,800nm. Fast non-destructive testing for some physical and chemical composition in liquid samples can be achieved by external PC and RIMP software. The whole system is easy to operate. You only need to put the cuvette on sample cell, click the button of measurement and then the instrument will automatically measure and analyze. It usually has a wide application in petrochemical industry, quality inspection system, scientific research and other fields.

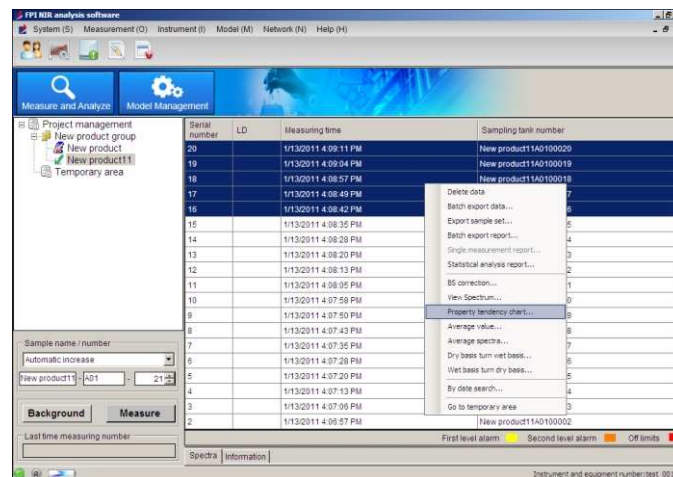
High-performance RIMP software

RIMP is a type of professional software with friendly user interface and easy operation, which is also an integration of instrument operation, modeling and data processing. This software supports the mainstream chemometrics technology of the industry, including ANN neural network method and PLS1 partial least squares regression analysis for quantitative analysis, and SIMCA method, cluster analysis and other algorithms for qualitative analysis. Through the database, measured data storage, view, exchange, statistics, report output and other functions can be achieved.

Product features

- Operation is easy, no need for special training and pre-processing of sample and no damage to sample.
- Analysis is fast and several indexes can be detected simultaneously within one minute, including octane number (RON, MON), density, olefin, arene, initial boiling point, 10% distilling range, 50% distilling range, 90% distilling range and final boiling point.
- Adopt advanced raster scanning spectrum technology and indium gallium arsenide detector to ensure the stability and better signal-to-noise ratio of the instrument.
- The light source adopts auto-collimated module design which requires no adjustment, and it is easy to replace the light source.
- The build-in sample constant temperature control system ensures that the instrument can apply to different ambient temperature and improve the accuracy of measuring result.
- The build-in standard substance has functions of automatic diagnosis and fault indication.
- Adopt seismic design, suitable for use in lab and on vehicle.
- Support network connection and convenient for routine instrument maintenance and model update service.

One-click export tendency



Batch export required



▲ Perfect design facilitates replacement of light.

▲ Simple and fast sample loading.

■ Application Area



Oil refining industry

- Process monitoring
- Finished product monitoring



Oil depot

- Fast handover
- Regular spot check



Flow quality control

- Spot check at gas station
- Identification before refueling



Scientific research

- Bio-fuel
- Crude analysis
- Edible oil identification
- Traditional Chinese Medicine component Analysis

■ Detection index

Sample source	Type	Detection index
Petrochemical industry	Gasoline	Octane number (RON, MON), density, olefin, arene, initial boiling point, 10% distilling range, 50% distilling range, 90% distilling range, final boiling point, oxygen content and sulphur content.
	Diesel	Cetane number, density, initial boiling point, 50% distilling range, 90% distilling range, 95% distilling range, final boiling point, solidifying point, condensation point, viscosity at 20 °C and sulphur content.
	Aviation kerosene	Flash point, density, viscosity at 20 °C, initial boiling point, 10% distilling range, 50% distilling range, 90% distilling range and final boiling point.
Food	Edible oil	Unsaturated fatty acid, acid value and iodine value.

■ Instrument parameters

Wavelength coverage	1,000-1,800nm
Absorbance noise	Less than 50 μ A
Wavelength accuracy	0.2nm
Wavelength repeatability	±0.05nm
Spectral resolution	6 nm
Stray light	Less than 0.1%
Number of indexes simultaneously analyzed	30
Light source life	More than 10,000 hours
Temperature control of sample cell	(15-60) °C, accuracy less than 0.2 °C
Communication interface	USB2.0
Temperature range	(5-35) °C
Humidity range	(5-85)%
Power supply	DC12V/6A
Size (length × width × height)	310 × 287 × 143mm
Weight	6kg



TECNICAS ASOCIADAS DE INSTRUMENTACIÓN, S.L.

Service hotline: +34 91 3555803

C/ María Teresa, 17-3C
28028 MADRID (Spain)
Telf: +34 91 3555803
Fax: +34 91 3555803
E-mail: info@taisl.com
web: www.taisl.com