



SupNIR-2600

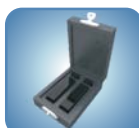
Near-Infrared Analyzer

An Instant and Accurate Detection Suitable for Liquid



[Instant, Accurate, Non-destructive, Seismic resistant]

Accessories



Colorimetric vessel



Light source



Drier

Applications



Application in laboratories



Application on vehicles



Application in field sites

Usually, the conventional chemical analysis methods need many kinds of analysis instruments and devices, consume a lot of manpower, materials and time, which cannot meet the demands of instant and site detection. The near-infrared spectrum analysis technology can complete the simultaneous detection on multiple parameters of the sample within one minute; generally the detection process does not need pretreatment of the sample; no consumption on other material or reagent; with high analysis precision, nice repeatability and low cost; it is really a "fast, nice and economy" non-destructive detection method.

The SupNIR-2600 near-infrared analyzer adopts grating scanning spectrophotometry instrument and high sensitivity TEC refrigerating temperature control InGaAs detector, the wavelength covers 1,000~1,800nm. It is widely applied to the liquid analysis application fields such as fuel quality analysis (gasoline, diesel, jet fuel etc), food quality instant identification (edible oil, wine, juice, and edible vinegar), chemical industry, pharmacy etc.

Product Features

- Easy operation, fast detection
- Accurate detection, wide application
- Moisture-proof and dust prevention, seismic resistant design
- Environmental friendly analysis, without destructing the samples
- Modularization design, easy maintenance

Instrument Indexes

Spectrum parameters	Wavelength range	1000~1800nm
	Wavelength accuracy	0.15nm
	Wavelength repeatability	0.05nm
	Spectrum resolution	6nm
	Noise of light absorbency	3×10^{-5} AU
	Stray light	<0.15%
Instrument parameters	Analyzing period	≤5S
	Specification of colorimetric vessel	2/5/10 mm
	Communication interface	USB2.0, RS-232, Bluetooth can be custom-made
	Power supply	12V DC or lithium battery (sustain time: more than 6 hours)
	Ambient temperature	5°C~35°C
	Ambient humidity	5%~85%RH
	Instrument dimension (length×width×height)	Approximately 290×310×145mm
	Instrument weight	Approximately 5Kg

List of Detection Parameters

Application filed	Variety	Detection indexes
Petrochemical industry	Gasoline	Octane number (RON, MON), density, olefin, aromatic hydrocarbons, distillation range etc
	Jet fuel	Flash point, freezing point, density, viscosity at 20°C, distillation range etc
	Diesel	Cetane number, density, olefin, aromatic hydrocarbons, saturated hydrocarbon, distillation range etc
Condiments	Soy sauce	Total nitrogen, total acid and amino nitrogen etc
	Edible vinegar	Total acid, volatile acid and reducing sugar etc
	Vegetable oil	Water content, iodine value, free fatty acid, adulteration differentiation etc
Pharmacy	Semi-finished products	Concentration, dissolution of main components and intermediate products, qualitative and quantitative detection of microorganism in medicines
	Finished products	Main components, stability, authenticity identification etc

Note: detection parameters can be increased according to the actual demand of client

Applications

Gasoline analysis

Detection property	Property range	SEP
RON	88-99	0.3
MON	81-91	0.3
Olefin	15-50 vol%	1.0
Aromatic hydrocarbons	1-28 vol%	1.0
Benzene	0.5-5 vol%	0.1
Initial amplitude boiling point	35°C-40°C	0.8
10% of distillation range	40°C-55°C	2.8
50% of distillation range	71°C-100°C	2.8
90% of distillation range	139°C-160°C	2.8
Final boiling point	170°C-185°C	2.3

Diesel analysis

Detection property	Property range	SEP
Flash point	40°C-90°C	3.0
Cetane number	45°C-70°C	1.2
Initial amplitude boiling point	261°C-295°C	4.7
Final boiling point	331°C-361°C	4.7
Density	790-840 g/L	1.3