

EXPEC 1360 analyzer

The EXPEC 1360 analyzer is based on near-infrared transmission detection technology for accurate analysis of liquid samples. The instrument sample cell has the function of controlling the temperature from 15°C to 60°C, with a temperature control accuracy better than 0.2°C, to meet the precise temperature control of liquid samples in different applications. The whole system is easy to operate; just place the cuvette in the sample cell, click on "measure", and the instrument automatically completes the measurement and analysis. In the petrochemical industry, quality inspection system and scientific research and other fields it has a wide range of applications.



EXPEC 1360 analyzer

Measuring accessory

Cuvette kit with 2mm, 5mm, 10mm optical range cuvettes and spacers.



Spacers



Cuvettes of different specifications (10mm/5mm/2mm)

Product features

- Transportable
- Simple operation, no need for special training or sample pre-treatment, no sample destruction
- Analysis is fast, and multiple indicators such as RON, MON, density, alkene, aromatic, initial distillation point, 10% distillation, 50% distillation, 90% distillation, final distillation point, etc. can be detected simultaneously within one minute
- Advanced raster scanning spectroscopic technology and InGaAs detector ensures the instrumental stability and better signal-to-noise ratio
- Auto-collimation module design is adopted for the light source that light source replacement can be achieved easily without the need for adjustment
- The instrument has a built-in sample thermostat control system, ensuring that the instrument is applicable to different ambient temperatures, to improve the accuracy of the measurement results
- Instrument built-in standard substance, with automatic diagnosis and fault prompt function
- Vibration-resistant design for laboratory and vehicle applications
- Intuitive operating software interface, which is easy to operate, integrating instrument operation, modeling and data processing
- Support network connection, convenient for daily maintenance of the instrument and model upgrade service
- Support nitrogen purge function in low-temperature applications



Perfect design for easy light source replacement



Quick and easy sample loading

Typical application scenarios



Specifications and parameters

Name	Specifications
Host size	(310×287×143) mm
Weight	<6kg
Sample status	Liquid
Assay method	Transmission
Light source	Tungsten halogen lamp
Detector	TEC refrigerated and temperature-controlled indium gallium arsenide (InGaAs) detector
Wavelength range	1000-1800nm
Absorbance noise	<50uA
Wavelength accuracy	±0.2nm
Wavelength repeatability	<0.01 nm
Spectral resolution	(5.8±0.3) nm@1529.5nm
Stray light	<0.1%
Analysis time	< 6 seconds
Sample volume	2mL/time
Light source life	> 10000 hours
Temperature control range	(15~60)°C
Temperature control accuracy	≤0.2°C
Scanning speed	5 times/second
Power supply	DC 12V adapter
Communication interface	USB2.0
Preheating time	30min
Environmental temperature	(5~35)°C
Environmental humidity	(5~85) %RH
Ambient pressure	(86 ~ 116) kPa