

Lab in Box

Summary Information

- ATR spectrometer with integrated tablet and printer
- Portable and battery operated
- Mid Infrared Spectroscopy on the go

Product Description

Lab in Box includes everything you need to move the powerful analytical technology of mid-infrared spectroscopy out of the laboratory into the field. It includes an ATR spectrometer, a thermal printer and an integrated tablet computer (touchscreen functionality) and uses the SphinxSuite software that is especially configured for ease of use for the customer. The ATR spectrometer has a spectral resolution between 36 - 18cm⁻¹ and operates in the wavelength range from 1800cm⁻¹ to 900cm⁻¹. The Lab in Box offers the user many self-check features that ensures that the measurement process is carried out correctly and that the data are valid.

Application

The Lab in Box is designed to provide quick and accurate analysis in the field and will be configured and calibrated by us for each individual application. The calibrated system will allow the customer to analyse the samples in real time, without any need to ship the samples to a laboratory. The results will be available within minutes and are displayed in an easy to understand manner. The results can either be saved and transmitted digitally or can be printed out using the integrated thermal printer. The Lab in Box does not require any other chemicals or consumables and is therefore especially suited for remote location with a limited infrastructure.

Specification

- Mid-infrared Spectrometer
- Touchscreen functionality
- Windows 10 Operating System
- Exchangable LiPo batteries
- Power Supply 5V 4A/USB
- Thermal Printer
- Size: 330x280x125mm
- Weight: 6.5kg

Validated Market Segments

- **Marine**
 - Engine Oils, Grease and Lubricant
- **Wind Turbine**
 - Transmission/Gearbox and Hydraulic Oil
- **Agricultural**
 - Dairy: Adulterant analysis -Urea, Melamine, etc. Content - Fat, Glucose, Protein etc.
 - Commodities: Spices, Rape seed, etc.
- **Medical**
 - Urine analysis, Blood analysis, Cancer screening
- **Fuel**
 - Biofuels, Jetfuel, Diesel and Petrol, Fuel Genuinity



Results & Performance

