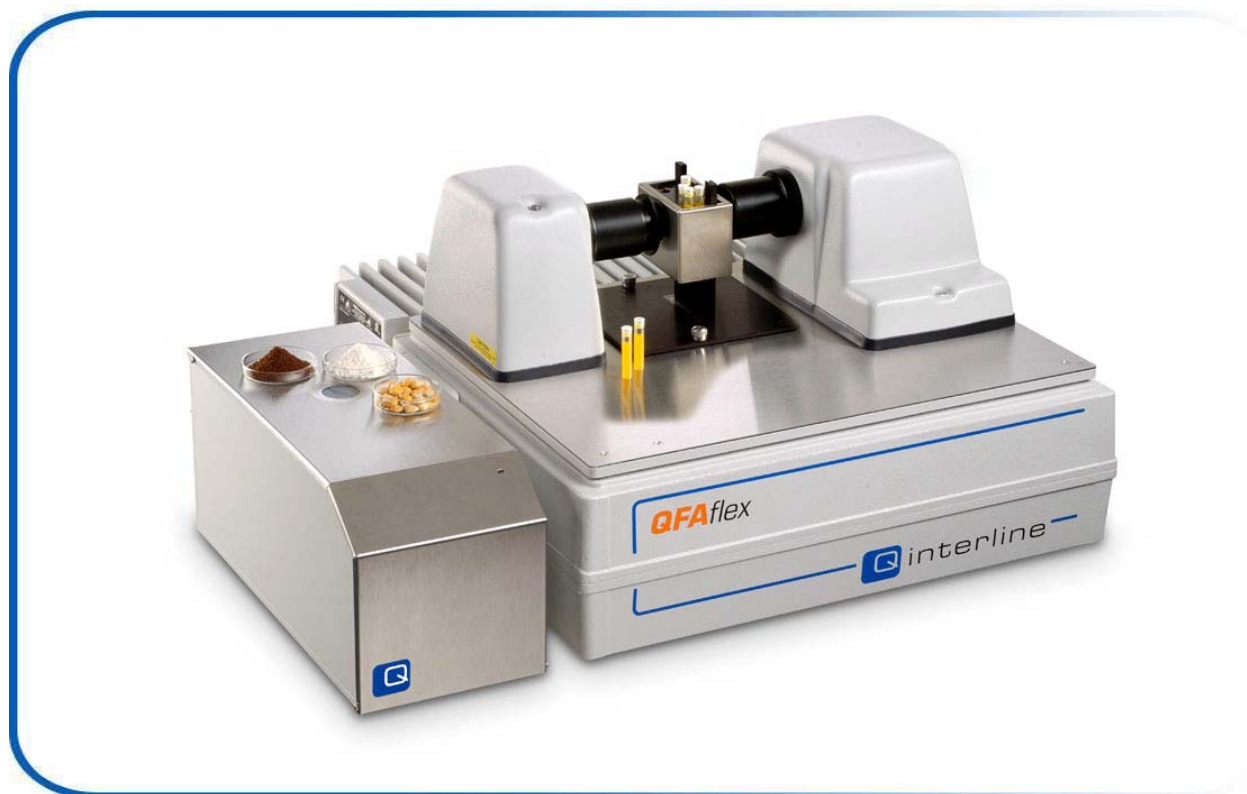


QFA flex650+



The QFA flex650+

The ultimate instrument for NIR analyses of both liquids and solids. A multi-component analysis can be done in less than 2 minutes. Liquids, suspensions, slurries or emulsions are measured in transmission with disposable 8-mm HPLC auto-sampler vials. These vials are inexpensive and the sample is easily transferred into the vials using disposable pipettes. Powder samples are measured in reflectance on the side-port accessory – the **QFA Powerport**. A large area (ø30) of the sample is illuminated resulting in no need for moving or spinning the sample, meaning very little maintenance. The QFA Powerport accepts the sample in practically any container covering plastic bags, Petri dishes and Teflon lid technology – a technology where the sample, in a bottle with a Teflon lid, is turned upside down and placed on the diffuse reflectance measuring area. This makes sampling very quick and easy.

Specifications

The QFA flex650+ is a FT-NIR spectrometer, scanning from 3800 to 14000 cm^{-1} , using a quartz halogen light source. The liquids sampling accessory has an arid zone sample compartment with a NIR DTGS detector, a 5, 8 or 12 mm OD heatable vial holder and a temperature controller. The QFA Powerport, analyzing from 3800 to 10000 cm^{-1} (1000-2600 nm), is equipped

with a NIR InGaAs detector. The instrument uses Ethernet as computer interface and is delivered with the software packages GRAMS/LT, PLSplus/IQ and AIRS. The QFA flex650+ has a rugged construction, which makes it suitable for the production area.

Applications

QFA flex650+ can be used for a wide range of liquids and powders such as whey protein concentrate, milk powder, alcoholic beverages, fruit juices, etc.

Product	Components
Whey protein concentrate	Fat, moisture, protein
Milk powder	Fat, moisture, protein
Wine, beer, distilled spirits	Alcohol, sugars, total solids
Fruit juices	Sugars, brix, acidity
Formulas	Protein, fat, solids
Cacao powder	Fat, moisture

ROI

Using the QFA flex650+, operators can simultaneously analyze several constituents in less than 2 minutes. The short sample turnaround time allows the control operators to react quickly to process trends, saving time and money.

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