

# Product QFA flex650



## The QFA flex650

The base system, with a QFA Powerport on the left side, is a very powerful and compact solution for all-round NIR analysis of powders and solids. The design makes it very suitable for use in the production area as an at-line instrument. A large area (7,1 cm<sup>2</sup>) of the sample is analysed, leading to fast, still reliable and representative results.

The samples can be analysed in many different ways, for example in:

- Teflon cups – very useful in the food industry, where glass parts are not allowed
- Petri dishes – the sample is poured into the Petri dish and placed on the QFA Powerport
- Plastic bags – the sample is filled into the plastic bag and placed on the QFA Powerport

By using the latest developments in InGaAs detectors, the analysis time has been minimised to a few seconds. (see website for demo video)

## Specifications

The QFA flex650 is FT•NIR based, scanning from 3800-14000 cm<sup>-1</sup>, using a quartz halogen light source and a TE-cooled InGaAs detector (4000-9000 cm<sup>-1</sup>). The included software package is INFRAquant.

## Calibrations

For calibrations development on site it is recommended to use a complementary office package consisting of GramsLT and PLSplus/IQ software.

## Applications examples

Product	Components
Whey protein powder	Fat, moisture, protein, lactose, galactose, ash
Milk powder	Fat, moisture, protein, lactose
Cacao powder	Fat, moisture
Meat & bone meal	Fat, moisture, protein, ash
Animal feed	Fat, moisture, protein, ash, sugar, starch, salt, phosphorus, density, raw cell matter

## ROI

Using the QFA flex650, operators can simultaneously analyse several constituents in seconds. The short sample turnaround time combined with the quick sampling allows the control operators to react quickly to process trends, saving time and money.

## Option

The QFA flex650 can easily be build into a QFA flex 650L by adding a detector and an accessory, making liquid analysis possible.