

AgriQuant

A strong combination of FT-NIR spectroscopy and sampling

CRA-W march 2013



Spectroscopy that makes a difference!

- Q-Interline A/S develops, produces and markets spectroscopy-based analysis equipment for **quality- and process optimization** in food, feed, dairy, agricultural and biofuels.
- Our solutions are based on best available technology and we use innovative and **correct sampling techniques**.
- Our solutions generate **value for our customers**
- Our solutions **improve** the customers' production
- We are flexible and innovative
- We build and maintain **long-term relations**
- Our company is driven by customer inputs

What difference can we make for you ?

Company History

- Q-Interline A/S is a family-owned Danish company founded by our CEO Anders Larsen in 1996. From 1996 to 2003 the company was primarily an exclusive reseller organization for ABB Analytical (Bomem) and Delta Instruments, and this is still a vital part of the business for the home markets.

In 2003 Q-Interline undertook a new role as a producer of analytical apparatus for the food/feed/Agri industry segment in its own name.

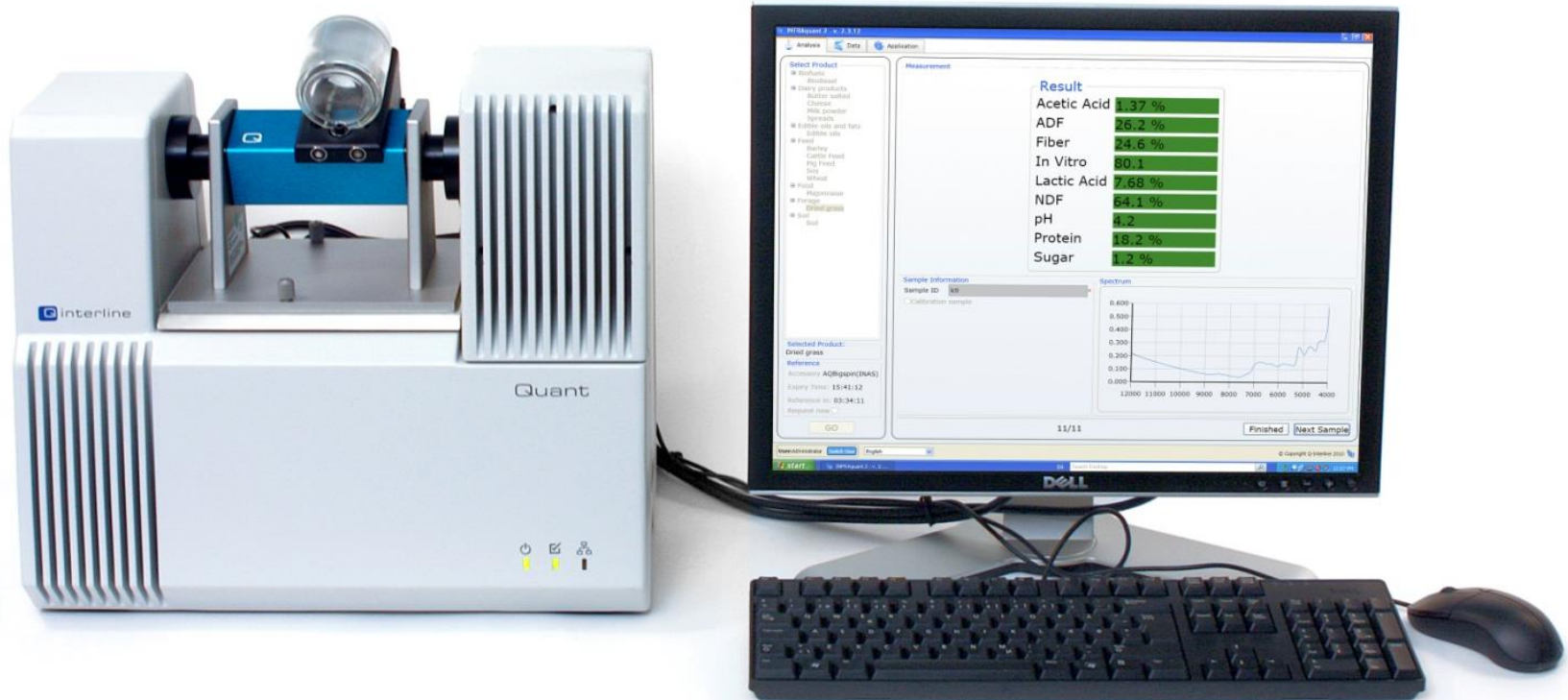
The companies products are today sold world-wide by a growing network of distributors.

Headquarters 45 km west of Copenhagen



Estimated 30 million analysis results generated annually on Q-Interline instruments

The AgriQuant system



Spectroscopic performance highlights

- Spectral range **3,700 to 14,885 cm⁻¹ (2700-671 nm)**
- Signal to noise (60 s, 16 cm⁻¹, at peak response) > **500 000: 1**
- Frequency repeatability (@ 7300 cm⁻¹) < **0.006 cm⁻¹**
- Frequency accuracy (@ 7300 cm⁻¹) < **0.01 cm⁻¹**
- Absorbance reproducibility sys/sys (toluene) < **0.002 AU**

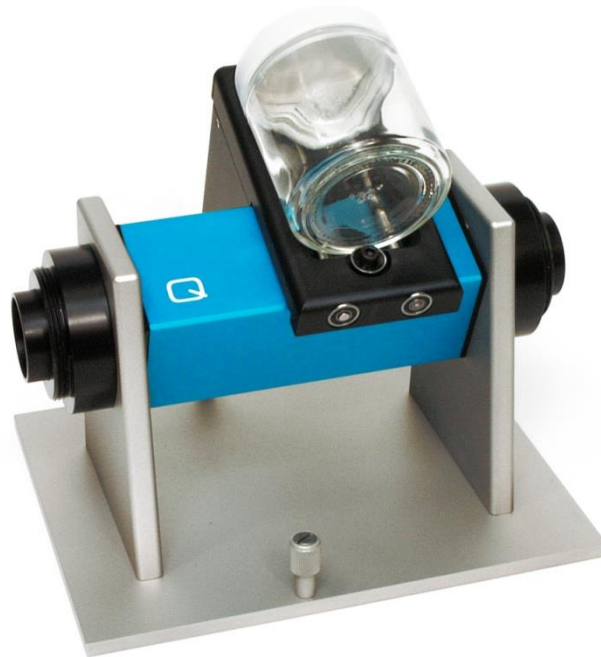
typical, at 25 °Celsius with InAs detector

Optimised sampling solutions

- The optimised sampling solutions will provide **representative sampling**
- **Protect** the sample from the point where they are extracted via NIR scanning all the way to the reference analysis
- The use of optimised sampling solutions will ensure excellent spectral quality and more precise and **representative results**

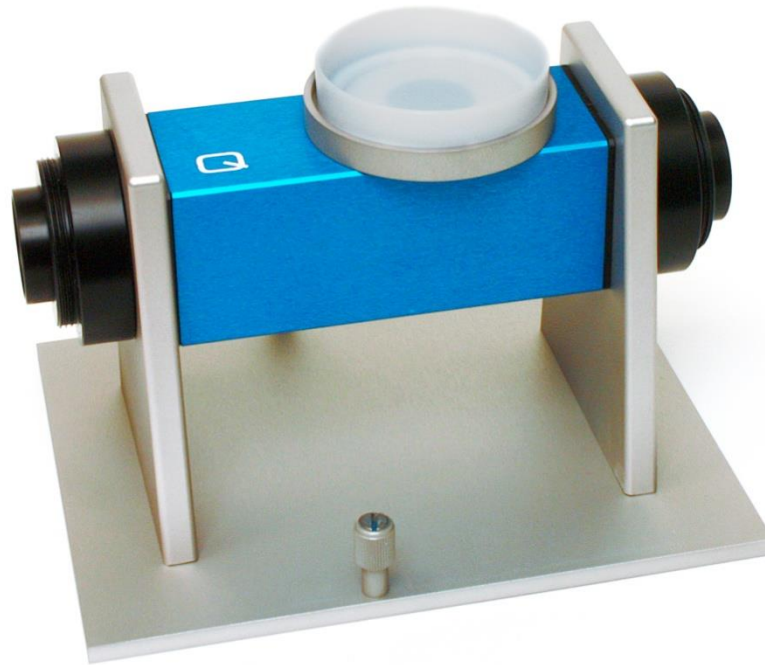
Quant sampling accessories – QIA1020

For heterogeneous products



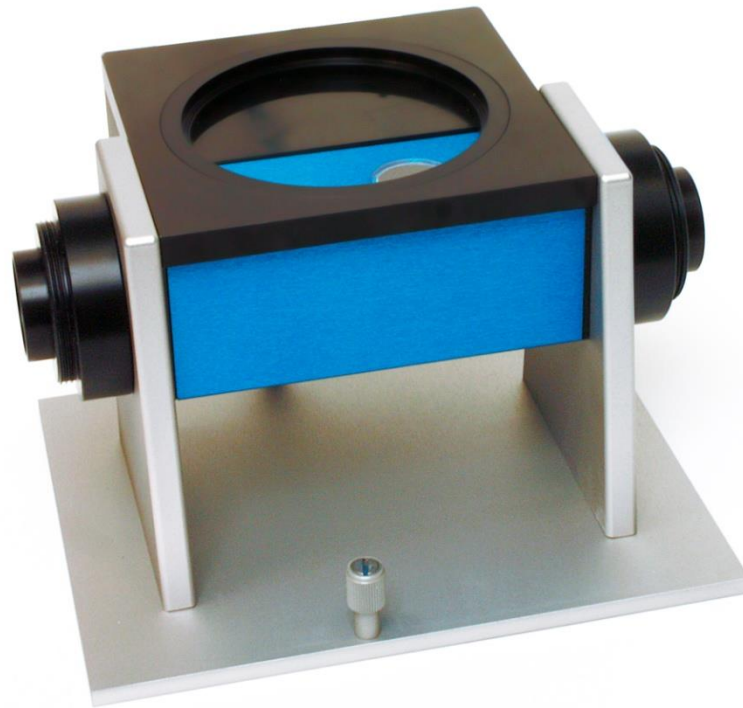
Quant sampling accessories – QIA1025

For homogeneous product



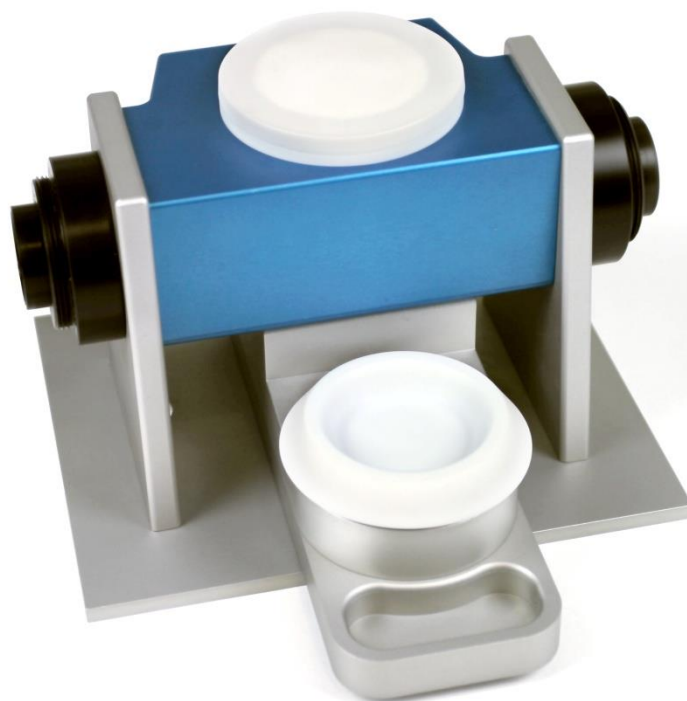
Quant sampling accessories – QIA1026

For heterogeneous products



Quant sampling accessories – QIA1028

For pasty products



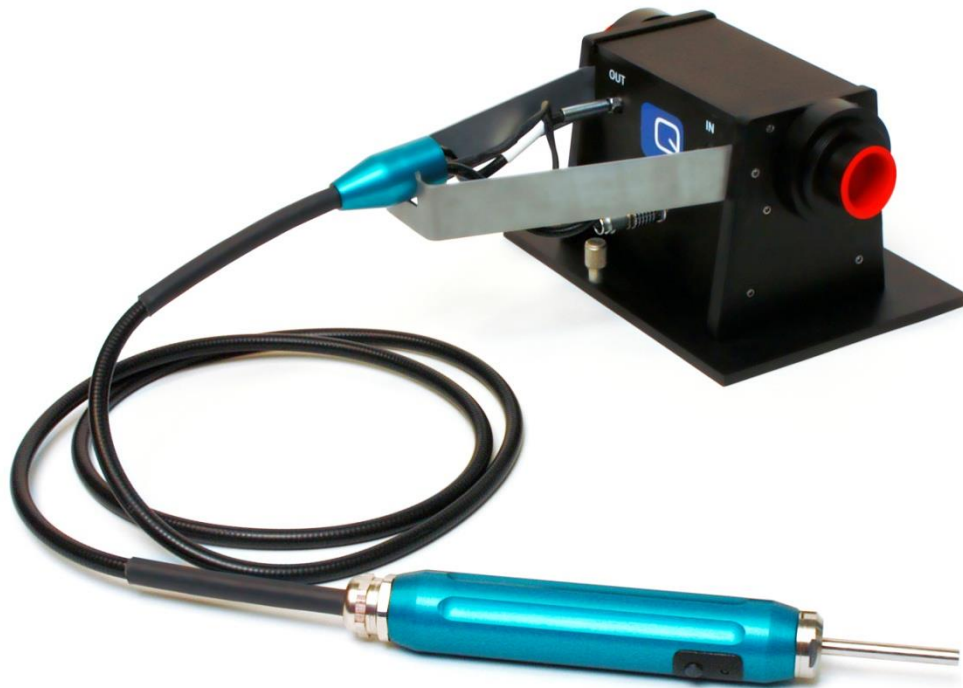
Quant sampling accessories – QIA1075

For liquid products



Quant sampling accessories – QIA1260

Penprobe for multiple analysis with probe



Quant sampling accessories – QIA1250

For connection of many types of probes

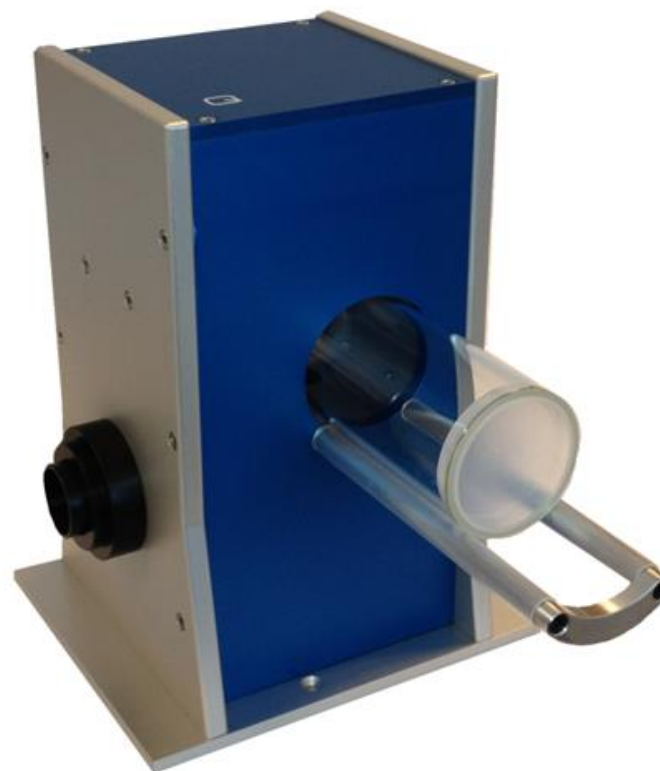


European Market introduction of new Spiral sampler (patent pending)

- First introduction in Europe
- New powerful accesory for energy crops, grain, fresh forage and other heterogene products
- Covers **375 cm²**
- Easy to fill and empty
- Optimal for rutine agri labs with up to 1.000 samples a day !
- Automation options

Design Hypothesis:

For a representative scanning method, the variance between subsamples will approach the variance between repetitive measurements



New patent pending Spiral sampler

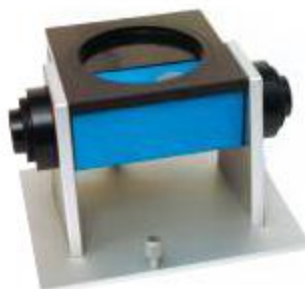
3 scanning methods

Bottle Sampler



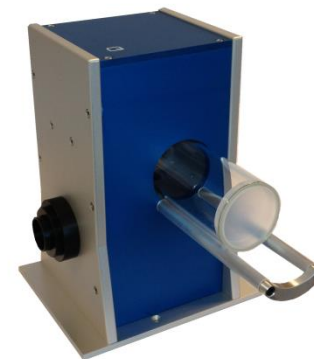
15 cm² per turn
28 cm² per analysis
50 grams per sample

Petri Spinner



18.1 cm² per turn
18 cm² per analysis
35 grams per sample

Spiral Sampler



374 cm² per turn
110 cm² per analysis
600 grams per sample

Contact information

Find contact information and learn more about
our products at

www.q-interline.com

Please visit the Anaspec.nl and Q-Interline demo during the lunch break and
see the fantastic new spiral sampler !

Thank you for your attention 😊