



**Real time control of key  
production parameters**  
**Batch standardization**  
**Raw material optimization**  
**Reduced off spec production**  
**Monitor supplier performance**  
**Detailed product documentation**

## The Industrial NIR Spectrometer Measures in Real-Time

**Fat, Protein, Water . . .**

**Spektron™:**

- Stainless steel for hygienic environments
- IP 65
- Multiple parameters measured simultaneously
- No floor space needed
- Web connected

**Measurement :**

- Dedicated software for dynamic calibration and improved accuracy
- Total portability of calibration from one instrument to the other

**Applications :**

- Meat Industry (ground and processed meats,...)
- Dairy Industry (cheese, milk, milk powder, butter, whey)
- Feed Industry (Compound, Fish Feed,...)
- Food Industry (Coffee, powders, chocolate, alfalfa, colza, soya, potatoes flakes,...)
- Building industry (cement, bricks, tiles, argyle, ceramics,...)
- Chemical and pharmaceutical industry (soaps, powders, ...)
- Textile and paper industries (woodchips, cotton, wool, polyamide,...)
- Others (induction, coating,...)

# Specifications

Recipe system

Standardisation

Least cost Formulation

Graphical and numerical display

The screenshot shows the Prediktor software interface with the following sections:

- Resept:** A table listing ingredients and their standardized amounts.
 

Artikkel	Artikkelnavn	Fettinnhold (%)	Mengde (kg) (%)
917000	Svin Spesial	4	0
919200	Svin ID 23% Prod.	23	0
919400	Smørfesk u/evør Prod.	60	0
40000	Salt	0	0
A0001	Saltlake	0	0
- Standardisering:** A section for calculating standardization with a table and input fields.
 

Artikkel	Artikkelnavn	Fettinnhold (%)	Vekt
917000	Svin Spesial	4	741
- Feltgraf:** A line graph showing a spectrum with a red horizontal line and a blue shaded area.
- Vekt:** A section for weight management with a progress bar and input fields.
 

Nåværdig vekt: 522.0    Ønsket vekt: 2000.0    Lagre
- Batch:** A section for batch management with input fields and a status indicator.
 

Ønsket fettinh.: 23.0    Batch fettinh.: 24.7    Dyrskåps fettinh.: 21.3    Temperatur: 6.3

Batch ID: 3344  
Start/sluttid: 2013.12.11 13:43:05  
Status: Running

**Spektron**  
 Dimension L: 360mm D: 160mm  
 Weight 10kg  
 IP Grade 65  
 Network Communication LAN

**Spectrometer**  
 Spectral Range 960 - 1690 nm  
 Repeatability < 0.02 nm  
 Spectral distance of pixels Approx. 3nm  
 Detector 256 pixels InGaAs diode array  
 Measuring Area up to 50mm in diameter\*  
 Measuring Distance 0 - 150mm\*  
 Analysing Time < 100ms\*  
 Integration Time < 0.5ms\*  
 \*Application dependent

**Computer System**  
 User Interface Web portal  
 Interface to control system OPC, others on demand

**Optional**  
 Optical Fiber Adaptor  
 Cooling System  
 Air Knife  
 Sampler



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 • France  
 • China

Specification are subject to change without notice.