BUCHI SWITZERLAND

NIR-Online®

NIR-Online Process Analyzer
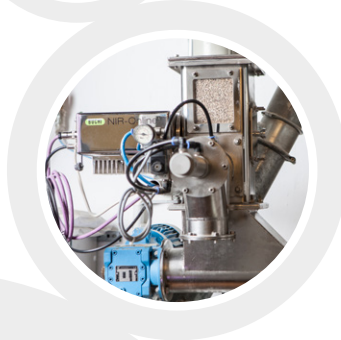## Real time process control

Closely monitoring key parameters such as moisture, fat or protein is crucial to correct deviations occurring in any manufacturing process. BUCHI NIR-Online® analyzers continuously provide accurate measurements within seconds to guarantee maximum production efficiency.

Ease of use
Minimal operator interactions required

Fast payback
Average payback period less than one year

Extensive process expertise
Complete process solutions from requirement engineering to long-term technical and application support

NIR-Online Process Analyzer
Key features and advantages

Configured to meet customer's demands.

Options include:
· extended NIR wavelength range (900 – 1700 nm or 1100 – 2200 nm depending on sensor-type and configuration)
· visible (VIS) light range (350 – 920 nm)
· high resolution CCD Camera
· process integration
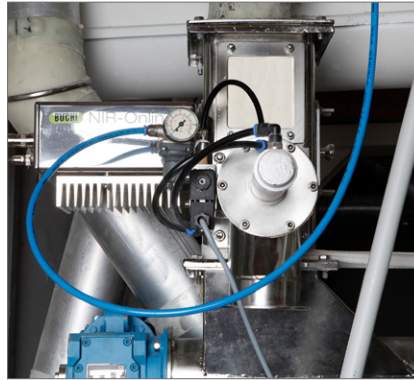· ultra high speed spectrometer

Find out more:
www.buchi.com/nir-online

Outstanding characteristics

Diode array technology
High speed measurement of fast moving goods.

Industry proven design
Robust design without moving parts copes with rough conditions like vibrations, extreme temperatures, wind or humidity.
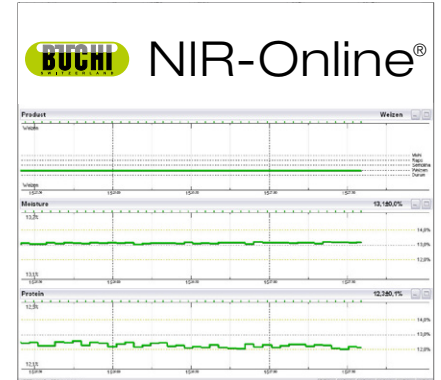

Multiple measurement options
Maximum information through combination of NIR, VIS and High Resolution CCD Camera in one unit.

ATEX certified
Certified for utilization in potentially explosive gas and dust atmospheres. Superior safety at all times.
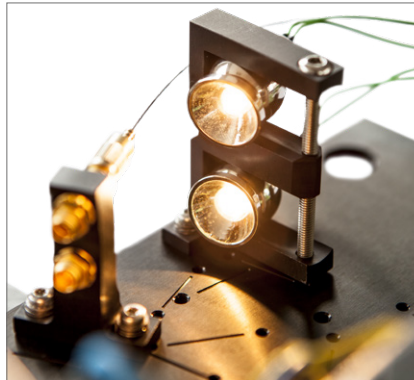

Dual lamp
Maximum system availability through automatic switching to a secondary light source.

Software process integration
Numerous industry-standard interfaces for convenient transfer of acquired data to process control systems, e.g. from analog signal via Modbus and Profibus to TCP/IP.

Hardware process integration
Our large portfolio of proven accessories covers e.g. solid, liquid, pasty, viscous or corrosive samples at a broad range of pressure and temperature conditions. Rapid process integration ensures a fast return of investment.
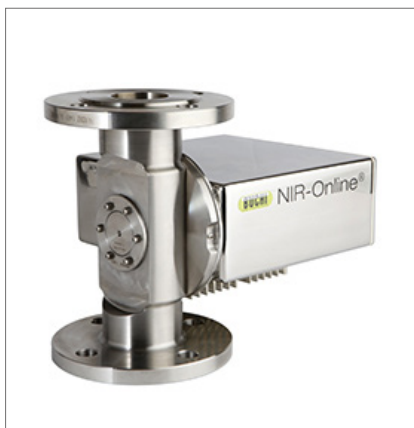
BUCHI NIR-Online®: Your most important benefits

Ease of use

Direct display of key parameters in the existing process control system
Fully automated:
· report generation and auditing function for instant documentation
· calibration function for effortless method optimization
· reference sample collection by optional bypass sampler

Fast payback

· Average payback period less than 1 year
· Immediate process corrections minimize out-of-spec production and re-work
· Optimization of key parameters for maximum profit margins
· Patented AutoCalibration Function eliminates the need to develop extensive in-house
  calibrations or purchase calibration data bases

Extensive process expertise

· Straight forward integration to process control systems
· Dust and water jet protected (IP66, IP66K/68), ATEX certification (gas and dust)
· Turn-key solutions for demanding measuring points such as fluctuating product flows
  in chain conveyors
· Reliable results even at varying ambient and product temperatures through
  temperature stabilized electronics

Complete your portfolio

**NIR-Online sensor
with X-Rot module**
for laboratory analysis

ProxiMate™
for laboratory and at-line
analysis of pre-delivery
samples

KjelMaster K-375
Steam distillation and
titration

FatExtractor E-500
Quick and compliant
fat extraction

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