

# NIRONE ONLINE ANALYZER

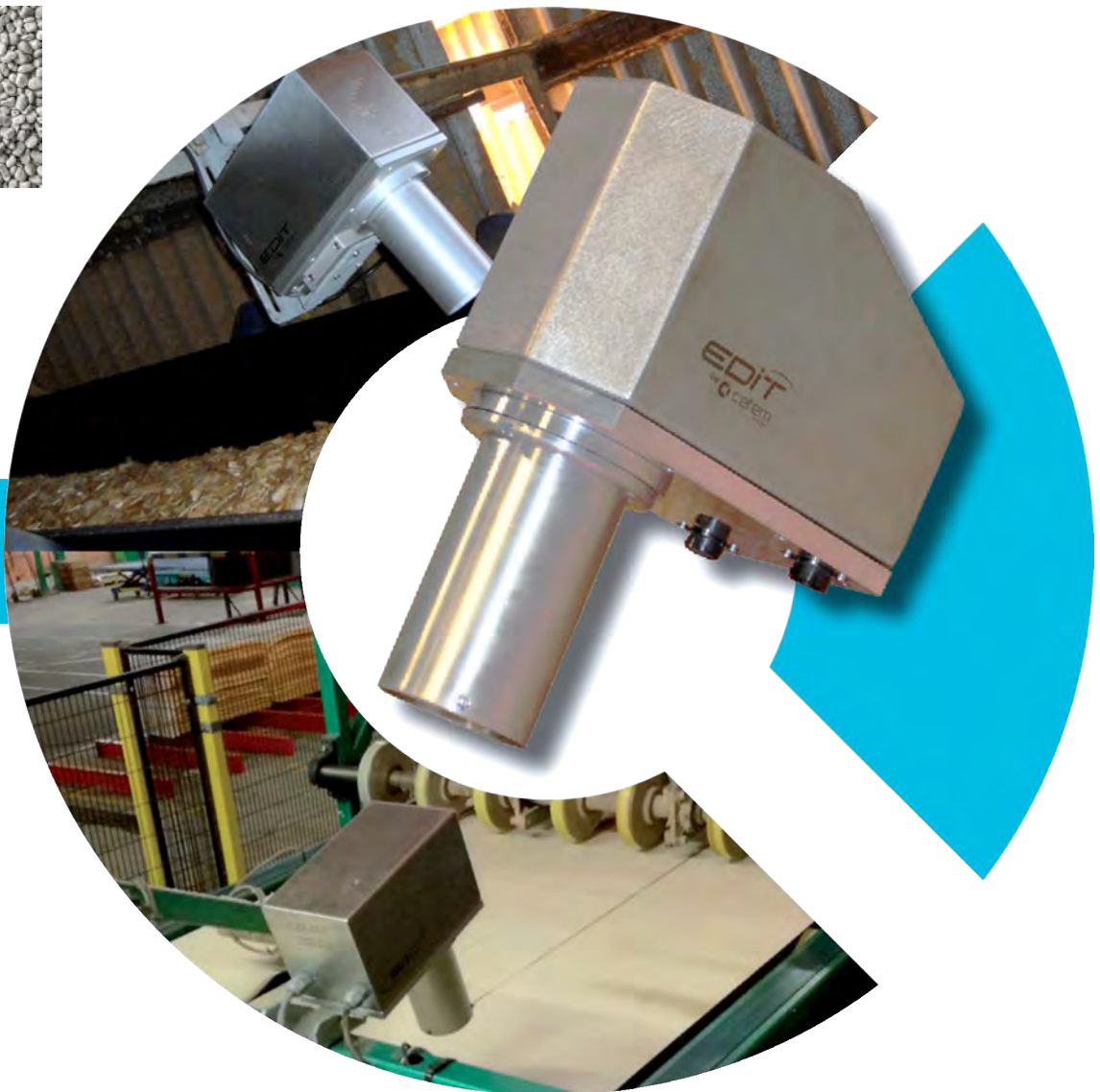


DATA SHEET

## NIRONE Infrared Analyzer.

Online, continuous, contact-free.

Moisture, Fat, Protein, Collagen, Thickness.



**Moisture**



**Fat**



**Protein**



**Collagen**



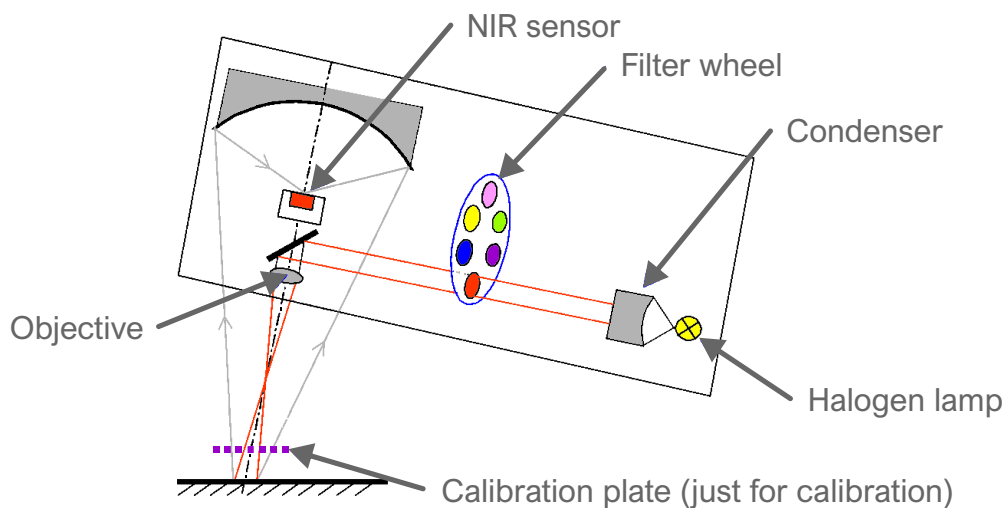
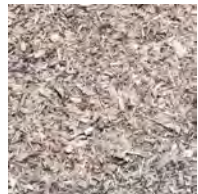
**Thickness**



## Measuring Principle

The NIRONE analyzer and moisture meter is equipped with interferential filters that select several wavelengths corresponding to certain molecules absorption NIR peaks.

A continuous light source with wide spectral band irradiates the measuring point. A part of this radiation is backscattered and concentrated by a spherical mirror on the sensor. The component of interest absorbs parts of this radiation. These data are processed by the sensor, and stored calibrations are used to determine the current moisture, protein content, or the like.



## Advantages

- Simultaneous measurement of 1 or 2 ingredients.
- Reliable, precise infrared technology.
- Contact-free online measurement.
- Fast and continuous measurement (3 samples per second).
- Measurement spot up to  $\varnothing$  70 mm.
- Insensitive to granulometry, colour, and height variations.
- Insensitive to ambient luminosity.
- Easy to install.
- Air blowing system for optical cleaning.



## NIRcontrol Software

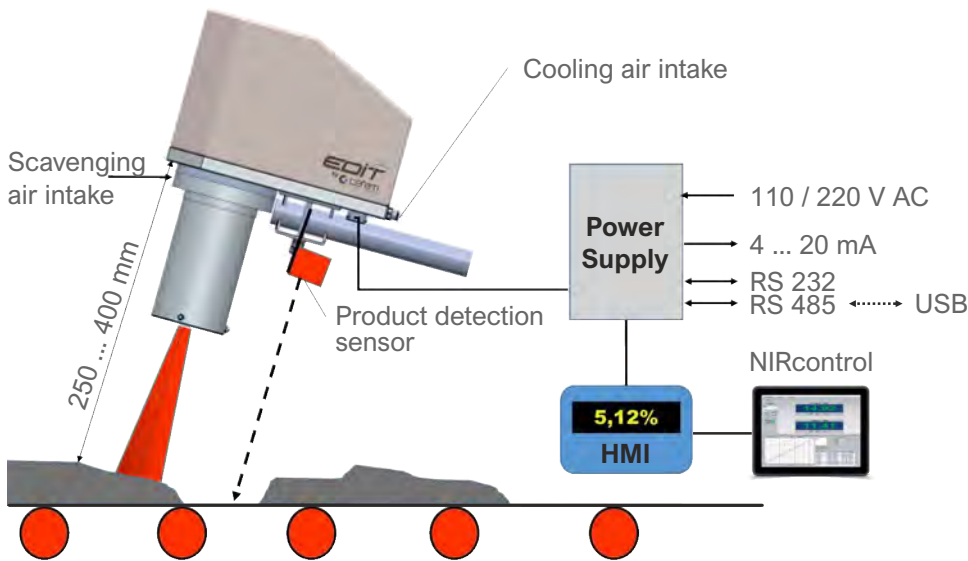
Every NIRONE system comes with the NIRcontrol for Windows® software:

- Equipment configuration.
- Simple calibration.
- Measurement visualisation.
- Optional archiving of measurements.

The device works completely autonomously after calibration.



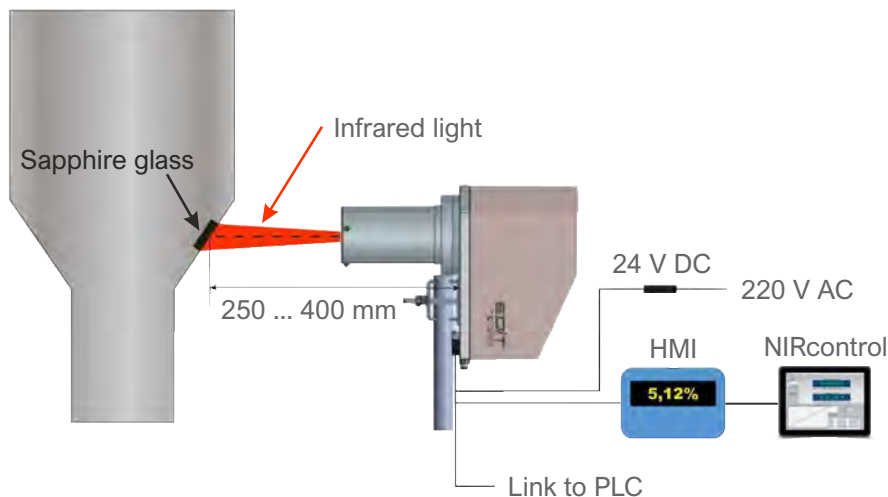
## Conveyor Belt Application:



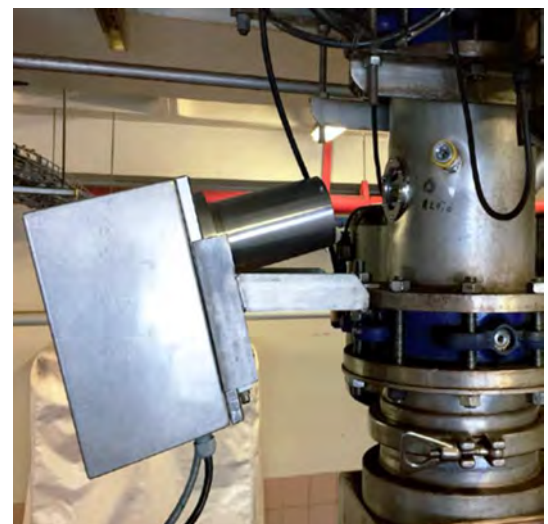
## Example:



## Bin application:



## Example:

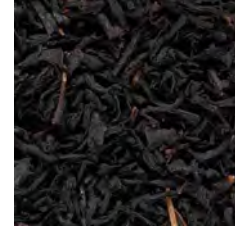


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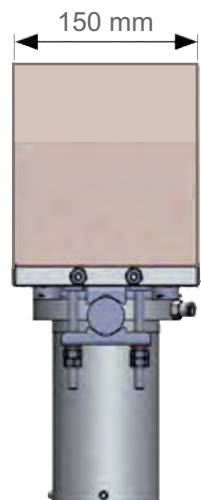
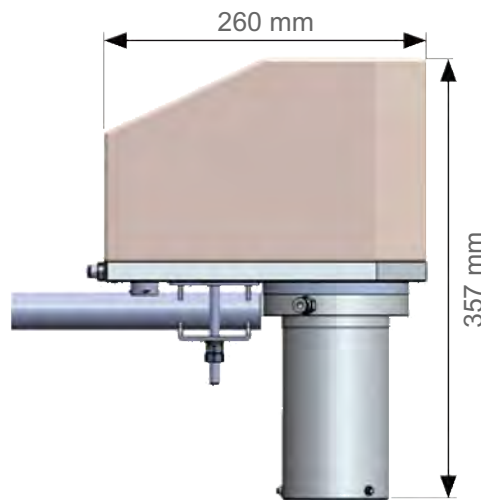
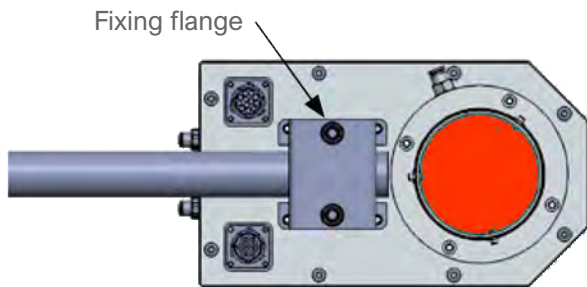


## Technical Specifications:

Housing:	Aluminium (8 kg); optional: stainless steel (10 kg)
Measuring range:	0% ... 100%
Resolution:	0.01%
Measurement of:	1 or 2 ingredients (Moisture, Fat, Protein, Collagen)
Measuring frequency:	3 samples per second
Measurement spot:	Ø 40 mm at 250 mm distance Ø 50 mm at 300 mm distance Ø 70 mm at 450 mm distance
No. of filters:	6 (for 6 different wave lengths)
No. of recipes:	64 (in automatic mode)
Power supply:	24 V DC
Consumption:	45 W
Ambient temperature:	50 °C (Standard) 70 °C (with optional cooling)
Protection:	IP 66
Analogue outputs:	2 outputs, 4 ... 20 mA
Interfaces:	RS 232; RS 485
Sensor cable:	5 m (Standard)
Software:	NIRcontrol
Languages:	English, French

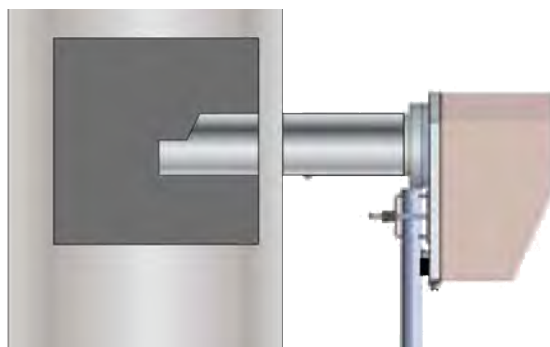


## Easy Installation:



## Accessories:

Sampling device



Rotating plate



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