



## Finder SD Rotator

### Meat analysis with NIR spectroscopy

The NIR analysis system Finder SD Rotator analyzes raw materials, semi-finished and finished products within a few seconds. Important parameters such as fat, water or protein can be analyzed quickly, easily and reliably.

Due to fluctuating compositions of raw materials in the meat industry, quality control and analysis is already required at goods receipt. This is necessary to make sure the necessary prerequisites for a standardized production are reached. To ensure a constant quality of your production, you can e.g. determine the exact fat content of your semi-finished product so you can still react if necessary. With the Finder SD Rotator you can analyze inhomogeneous samples quickly and reliably.

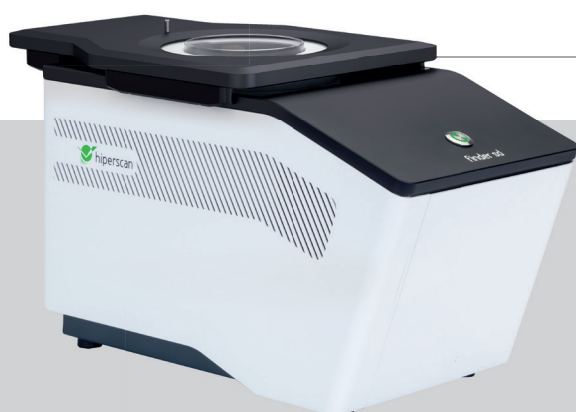
The IP65 certified housing makes the Finder SD Rotator not only suitable for use in the laboratory, but also at goods receipt or in the production. Analysis times can thereby be reduced to a minimum. Thermal stabilisation of the optical system, a stabilised light source and device internal reference standards ensure reliable functionality at all times. The patented Fraunhofer MEMS scanning grating technology enables an easy transfer of existing calibrations between instruments.

#### Application in meat industry:

- + Analysis of raw meat and all types of meat products
- + Exact determination of fat, moisture, protein, collagen, ash, salt

#### Your advantages:

- + Cost reduction and profit maximization
- + Minimal sample preparation
- + Reduction of analysis time and laboratory costs
- + Supplier control and optimization of the raw material use
- + Precise control of fat content
- + Monitoring, optimization and standardization of the production process
- + Quality control of the final product
- + Reduction of release time for finished products



The dust-proof and water-resistant analysis system **Finder SD Rotator** can be integrated at any workplace and for a variety of functions.

- + Analysis results in a few seconds
- + Easy to clean
- + User-friendly software



## Technical details of **FINDER SD ROTATOR**



- ✓ Thermally stabilized
- ✓ Transferable calibrations
- ✓ IP65 certified
- ✓ Patented MEMS grating technology

### Technical details

Spectral range	1,000–1,900 nm
Spectral resolution	10 nm*
Stray light	< 0.2 %
Measuring time	< 5 s (averaging over 500 scans), configurable 1–15 s
Detector	InGaAs single detector, uncooled
Wavelength accuracy	± 0.5 nm*
Wavelength reproducibility	± 0.2 nm*
Photometric reproducibility	± 0.1 %*
SNR	> 2,000:1 (averaging over 2,000 scans)* > 1,000:1 (averaging over 500 scans)*
Photometric linearity deviation (max/RMS)	1 % / < 1 %*
Light source	Tungsten halogen lamp
Probe/optical input	Diffuse reflection, 23 mm Ø; petri dish 94 mm
Thermal stabilization	Yes
Dimensions	225mm x 271mm x 460mm
Weight	11 kg
Interfaces	USB type B (additional electrical interfaces, e.g. for motor control or input for sensors)
Operating temperature	Typ 55: 15 to 35 °C or Typ 50: 5 to 30 °C
Storage temperature	-20 to 60 °C (non-condensing)
IP code	IP65
Power supply	100 - 240 VAC +/- 10%, 50 - 60 Hz
Power consumption	78 W / 36 W / 5 W (warm up / operation / sleep)
Software	<ul style="list-style-type: none"> <li>• Software for data acquisition and visualization; optional: drivers and software development kit for integration into your own application (operating system: Windows 7 SP1, Windows 8.1, Windows 10)</li> <li>• Software for data acquisition and generation of chemometric models (operating system: Windows 7, Windows 8.1, Windows 10)</li> </ul>

\* overall spectral range

Scope of delivery:

✓ Finder SD Hardware

✓ Software

✓ Black and white reference

✓ Rotator