



FOSS

Infratec™ Sofia

On the spot grain testing for on-farm and grain receival sites



ANALYTICS BEYOND MEASURE

Infratec™ Sofia is a low cost analyser that brings the value of precision grain testing to grain receival sites of all sizes. Mobile, easy-to-use and aligned with the renowned Infratec 1241 analyser, Infratec Sofia gives you the information you need to get the best possible return from your grain. No grinding or sample preparation required.

Affordable accuracy

Know the quality of your grain and make critical decisions about segregation and marketing of grain. Infratec Sofia offers reliable measurements based on the same comprehensive data used to calibrate Infratec 1241 instruments, acquired over many years of product development in collaboration with the grain industry.

Make on-the-spot decisions

With smart, on-the-spot grain analysis, you can pay exactly the right price for deliveries and make critical grain handling decisions to improve the overall value of your grain.

Mobile measurements for smarter receival

Infratec Sofia is mobile and robust, making it an ideal solution for modern low-infrastructure receival sites. Results are stored on the removable memory card, so grain quality data gathered from different farms can be used to help individual farmers with their farming strategies.

Sample type

Wheat, barley, corn, oilseeds, soybean and more.

Parameters

Moisture, protein, oil and wet gluten.

Technology

NIR transmittance.

Specifications

Feature	Specification
Dimensions (w x d x h)	255 x 390 x 295 mm
Weight	9 kg
Measurement mode	Transmittance
Wavelength range	850 - 1050 nm
Detector	Silicon Linear Array
Optical bandwidth	7 nm
Number of data points/scan	100
Absorbance range	1-4 AU
Analysis time	Approximately 3 minutes for 10 sub-samples

Installation requirements

Infratec™ Sofia	
Voltage supply	100-240 V AC *, frequency 50-60 Hz, Class 1, protective earth
Ambient temperature	0 - 45°C
Storage temperature	-20 to 70°C
Ambient humidity	< 93% RH, cyclic up to 100% RH
Mechanical environment	Stationary when in use, in vehicles
EMC environment	Light industry, Industry and Agricultural Machines

* Mains supply voltage fluctuations not exceeding $\pm 10\%$ of the rated voltage.

Instrument management	
Networking software	FossManager™

Legal data

Infratec™ Sofia is CE labeled and complies with the following directives:

- EMC (ElectroMagnetic Compatibility) Directive 2004/108/EC
- LVD (Low Voltage Directive) 2006/95/EC
- Packing and Waste Directive 94/62/EC
- RoHS (Restriction of Hazardous Substances) Directive 2002/95/EC

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