Infratec™ Sofia

Infratec™ Sofia on-farm grain analysis for improved harvest and profit

Features and benefits

- Accurate, reliable grain analysis
- Aligned with the approved-for-trade Infratec™ 1241 Grain Analyser
- Compact, mobile and ready for use wherever you are
- Rapid and easy-to-use providing results in around three minutes
- No grinding or sample preparation required
- Results stored on a removable memory card
- Unique web-based update system ensures that Infratec™ Sofia is always up to date
- Ready-made global calibrations for protein and moisture in wheat and barley
- Download new calibrations for different commodities via the internet

Description

Infratec Sofia is a rugged, simple-to-use and accurate grain analyser that allows farmers to make informed decisions about when to harvest and how best to market the crop. Measurements are simple to perform and results are delivered in around three minutes. The mobile analyser runs on a 240VAC or 12VDC power supply. It is designed for operation in harsh conditions. No grinding or sample preparation is required. Current measurement options include moisture and protein for wheat and barley.

Infratec Sofia is fully aligned and calibrated against the Infratec 1241 analyser, the official system used for payment by bulk grain handlers around the world.

System description

The Infratec Sofia is a whole grain analyzer based on diode array technology. The instrument can be remotely monitored and updated via Mosaic Updater which can be installed on a standard office PC. Mosaic Updater will automatically check and notify when updates are available for download to the instrument.

Specifications

Analysis time:	Approximately 3 minutes for 10 sub-samples
Self test:	Approximately 7-10 minutes
Sample volume:	Up to 0.4 l
Measurement mode:	Transmittance
Wavelength range:	850 - 1050 nm
Detector:	Silicon Linear Array
Software package:	Mosaic software

Standards and approvals

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

Installation requirements

Power supply:	100 - 240 VAC ±10%, 50 - 60 Hz, Class 1, with protective earth via a power supply (approved unit available from FOSS) or 12 V DC adaptor (approved unit available from FOSS)
Minimum DC V*:	JY spectrometer: 11.0 V, when using FOSS standard cable Ibsen spectrometer: 9.5 V, when using FOSS standard cable (UPS recommended when used on equipment without separate power circuit for GPS/Radio/Aux. Example: Redarc BB1202-1M)
Rated current:	0.14 A (230 V) 2.50 A (12 V)
Ambient temperature:	0 - 45ºC
Storage temperature:	-20ºC to 70ºC
Ambient humidity:	< 93% RH, cyclic up to 100% RH
Weight:	9 kg
Dimensions (W × D × H):	255 × 390 × 295 mm
Environment:	Stationary, in vehicles and light industry

*To verify minimum voltage required by the instrument, navigate to the Tools menu and select the option “About”. The serial number of the spectrometer can be viewed in the screen that appears. If the serial number consists of up to 3 figures, the instrument contains a JY spectrometer. If the serial number consists of 6 figures, the instrument contains an Ibsen spectrometer.

PC Requirements for Mosaic software

- Windows® XP SP3
- .Net Framework 3.5 SP1 (recommended)
- 2 GHz CPU
- 1 GB RAM
- 2 GB free disk space
- SVGA at 1024*768, min. 16-bit colours
- USB connection (data link between Infratec™ Sofia and the PC)
- Internet connection

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