FOSS

Infratec™ 1241

The world's most widely used grain analyser

The Infratec™ 1241 is a whole grain analyser using near-infrared transmittance technology to test multiple parameters such as moisture, protein, oil, starch etc. in a broad range of grain and oilseed commodities.

Stand stronger in a grain network
Connecting instruments in a grain network ensures that all units perform the same in terms of reliability and uniformity, regardless of location and operating conditions. You also have the opportunity to get support through the network, thereby decreasing the risk of downtime.

Consistent results with robust global calibrations
With a wide range of global calibrations we ensure a high quality of calibrations. The global annual ring tests increase robustness of calibrations towards global variations, improve accuracy of grain measurements and strengthen the confidence in fair payment.

Renowned and high quality instruments you can trust
Based on 60 years of experience, Infratec is recognised by the global grain industry as the trusted method for grain analysis. Over the years FOSS has accumulated in-depth knowledge of NIR technology ensuring instruments with unquestionable quality, reliability, security of uptime and repeatability.

Sample type
Barley, wheat, corn and other cereals, oilseeds, beans and pulses.

Parameters
Moisture, protein, oil, test weight, starch, wet gluten, fibre, ash and many more.

Technology
NIR transmittance

Approvals
(As per EN 15948 standard)

National approvals such as NTEP, GIPSA, LNE, PTB, NMI, GOST

Specifications

Feature	Specification
Dimensions (w x d x h)	500 × 570 × 400 mm
Weight	38 kg
Voltage	220-240V 50-60Hz or 110-120V
Rated current	1.0A (110-120V) / 0.5A (220-240V)
Spectrometer	Scanning monochrometer
Wavelength range	570 - 1100 nm
Detector	Silicon
Optical bandwidth	7 nm
Number of data points/scan	265
Mode	Transmittance
Light source	Tungsten halogen lamp
Detector	Silicon
Storage media	Flash disk, USB memory stick
Display	640 × 480 TFT LCD

Sample handling and result presentation	
Analysis time	50 seconds for 10 sub-samples
Path length	Variable cell automatically controlled from 6 - 33 mm
Result report	Presented on the display as default. Can be sent to PC/LIMS and the printer port
Outlier function	Warnings and options for the presentation of the result

Operation Data	
Software	Menu driven
Regression programs	ANN (Artificial Neural Network); PLS (Partial Least Squares)
No. of sub-samples	1 - 20

Instrument management	
Networking software	FossManager™