InfraXact™ Lab/Pro

InfraXact™ for ground and unground samples can analyse parameters like protein, fat, moisture and fibre in food and feed products and their ingredients

Features and benefits
- Robust design – high reliability
- Easy to use – operator-independent
- Fast analysis time – results in less than a minute
- No sample preparation for most products – reduced operator errors and increased throughput
- Greatly improved transferability – same calibration can be used on multiple instruments
- Automatic sample identification – intelligent sample cup ensures sample data integrity (sample station required)
- LIMS compatibility – automated data import/export to in-house QC systems
- Designed for use in the laboratory or at-line

The new high-performance InfraXact™ is a monochromator-based NIR reflectance and transflectance analyser with a scanning range of 570-1850 nm.

InfraXact is run by ISIscan™ software. ISIscan is a user-friendly routine operations program that supports the latest calibration technologies with advanced reporting and data exchange capabilities.

The instrument requires minimum maintenance and operator training. Operation is simple: just place the sample cup in the cupholder, close the lid and analysis starts automatically. To ensure optimal sample presentation and results, a number of different cup types can be used. InfraXact can be located virtually anywhere and operated by anyone, and still maintain very high accuracy. A network of InfraXact instruments can easily be managed and supported from a central location using the optional RINA software.

At Line measurement
The InfraXact Pro model is dust and moisture proof and fulfills the IP65 requirement. It is operated from a built in PC with a touch screen. An InfraXact Lab model can be upgraded to an InfraXact Pro at any time.

Automated sample identification
Unique automated sample identification based on Radio Frequency Identification (RFID) ensures total sample control. Sample identification number and product type can be downloaded via a Sample Station to the RFID chip in the sample cup. When the sample cup is placed in the instrument, the stored data is transferred to the ISIscan user interface, eliminating the risk of transcription errors and ensuring perfect data traceability.

Backwards compatibility
Data from the FOSS NIRSystems product range can be used in calibrations for the InfraXact.

Dedicated Analytical Solutions

FOSS

System description:

InfraXact™ Lab includes:
1 pcs. InfraXact Lab without PC
1 pcs. Small sample cup,
1 pcs. Large sample cup,
1 pcs. Spare lamp,
1 pcs. ISIscan™,
1 pcs. Small sample cup holder,
1 pcs. Power supply,
1 pcs. USB cable,
1 pcs. Manual, 1 pcs. Quick Guide,
1 pcs. Test Report,
1 pcs. Brush,
1 pcs. Power cable 230V,
1 pcs. Power cable 110V,
1 pcs. Allen Key 3mm for Lamp change,
1 pcs. Check Cell,
1 pcs. PV Standard

InfraXact™ Pro Kit:
1 pcs PC with touch screen,
1 pcs Power supply,
1 pcs supporting arm with ready-installed cables, etc,
1 pcs stylus for use with touch screen

Accessories:

Check cell, empty
WinISI™ III Calibration development software
Plastic bag RFID Adapter
See pictures beside

Technical data:

Wavelength range:	570-1850 nm
Analysis time:	60 s with 7 independent sub-samples
Detector:	Si 570-1100 nm, InGaAs: 1100-1850 nm
Operating temperature:	0-40°C
Voltage input:	100-240V AC, 50-60Hz

InfraXact Lab

Dimensions (w × d × h):	300 × 500 × 270 mm
Weight:	18 kg

InfraXact Pro (InfraXact Lab with Pro kit fitted)

Dimensions (w × d × h):	320 × 560 × 680 mm
Weight:	25 kg
Display:	12.1" SVGA touch-screen
Interfaces:	USB, RS-232, Ethernet RJ 45
Protection class:	IP 65

To comply with IP 65, the Pro model has to be installed by a qualified electrician. Earth connections required.

An international patent application covering the use of RFID to identify sample cups and to standardize instruments has been published (WO 2004/027404) and a national patent has been granted (SE 0202780-3).

Sample station
Featuring "intelligent" sample cup.

Petri dish holder 58 mm Ø.
Petri dish holder 89 mm Ø.

Slurry cup
Suitable for homogenous, sticky samples such as caramel.

Stainless steel lid for small cup.
Stainless steel lid for large cup.

Anti-vibration mount
Provides additional damping under extreme conditions.

Large cup extension for forages
Cup and lid not included.

Large sample cup
120 mm. Package of 1 or 5.
Small sample cup
60 mm. Package of 1 or 10.

0.1 mm Gold reflector
0.2 mm Gold reflector
0.5 mm Gold reflector
For use with either slurry cup or small sample cup.

FOSS

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