SpectraStar™ XT-3

MOISTURE, OIL AND PROTEIN ANALYZER

Rapid Moisture, Oil and Protein Analyzer

The SpectraStar XT-3 offers accurate and reliable measurements of moisture, protein and oil (fat) for both laboratory and at-line applications in less than a minute.



PROVEN TECHNOLOGY

The SpectraStar XT-3 analyzer uses a scanning monochromator and proven near-infrared (NIR) technology to deliver highly accurate results to quality laboratories and production floors. NIR analyzers are trusted daily in thousands of locations to ensure quality through the entire production process.

READY TO USE CALIBRATIONS

The SpectraStar XT-3 has a large library of ready-to-use calibrations available from the KPM Web Store for common applications such as dairy powders, oilseeds and meals, olives, cereals, and potatoes. Users can purchase ready-to-use calibrations individually by property (such as moisture or protein) or in ready-made product bundles from the **KPM Web Store.**

EASY IMPLEMENTATION AND OPERATION

Based on stand-alone design, the SpectraStar XT-3 is a plug and play analyzer that will easily fit into almost any analytical situation. The sealed case and touch screen display are ideal for reliable operation on the plant floor. Advanced sample management and reporting features mean that this analyzer is also ready for the quality laboratory.

The SpectraStar XT-3 is operated by UScan™, a software package incorporating an intuitive graphical interface and a reliable SQL database for data management. Designed for ease of use, UScan has a minimal training requirement and routine operators can be completely trained in 15 minutes to deliver accurate, operator-independent results.

APPLICATIONS

- Chocolate Products
- Dairy products (cheese, butter, milk powder, yogurt)
- Meat
- Wheat and grain (rice, canola, soybeans, corn, oats, peas etc.)
- Snack foods
- Olives and olive oil

SPECTRASTAR XT-3 FEATURES:

- Touch screen interface
- Intuitive graphical software
- Single sample results, history or SPC Chart sample views
- Operator-independent results
- Available with KPMLink® cloud-based management software to ensure all analyzers in an organization operate at exact standards
- Available with the UCAL™ 5 NIR Calibration Platform, a powerful, user-friendly software that simplifies the creation, validation, and deployment of custom NIR calibrations







ORDERING INFORMATION

The SpectraStar XT-3 is available with Unity calibrations for moisture, protein and/or oil content in many products. A variety of sample accessories are available for easy and reliable sampling from solids, powders and granular product types.

Part Number	Description
US-SPSR-XT3	SpectraStar XT-3 NIR Analyzer including monochromator, rotating top window configuration, built in Windows 10 computer with 17" touch screen, UScan software, WiFi dongle, multi cup adapter, ring cup/powder cup ring and TAS Standards.

CALIBRATION OPTIONS

Part Number	Description
US-CALB-1000	Unity calibration for single product type, moisture, protein, and/or oil. See separate list for product types available.

ACCESSORIES *A variety of sample and software accessories are available*

Part Number	Description
US-LGOP-0001	Large open cup with plunger
US-RTIR-0016	Large open cup sample ring
US-SRCP-0025A	Small round cup, 25 mm height
US-ISIH-0307	Ring cup
KPMLink-0001	One (1) year of KPMLink® User License and one Instrument License, access to training course via the KPM Academy for one user.
KPMLink-0002	Additional KPMLink® User License
EM-10	Moisture Oven for Reference Measurement



SPECIFICATIONS

Light source	Tungsten halogen lamp with MTBF rating of 10,000 hours, user changeable
Measurement mode	Reflectance
Detector	High performance ultra-cooled InGaAs extended range detector
Optical bandwidth	10.0 ± 0.3 nm actual FWHM
Absorbance range	Up to 3 AU
Analysis time	10 – 60 sec.
Wavelength accuracy	< 0.02 nm to traceable standard reference material
Wavelength precision	< 0,005 nm
Wavelength range	1400 - 2600 nm
Number of data points	1200
Photometric noise full range	< 20 µAu
Instrument case	Powder coated aluminum, completely sealed, no venting or fan
ISO 12099 compliant	Animal feedstuffs, cereals and milled cereal products - Guidelines for the application of near infrared spectrometry
Built-in computer	Windows 10 Professional, SSD
Networking	LIMS compatible, HDMI port, 4 USB ports
Ambient temperature	1 - 40°C
Ambient humidity	< 95% RH, < 85% RH recommended

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