

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 for common applications such as dairy powders, oilseeds and meals, olives, cereals, and potatoes. The calibrations are regularly updated and can be customized to your products.

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



CLOUD-BASED MANAGEMENT SOFTWARE

KPMLink makes it easy to ensure all SpectraStar analyzers within your organization are operating at exact standards and at consistent configurations, regardless of location or local expertise.

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more about
KPMLink.



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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