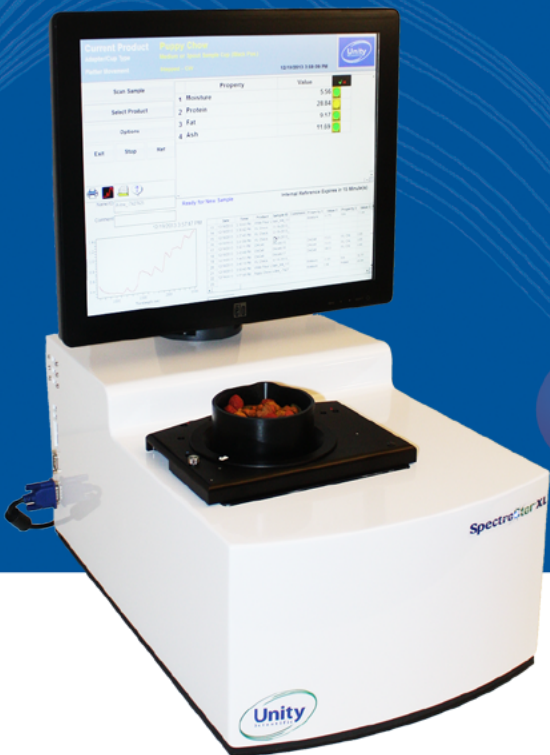


Corn Processing Analyzer



- **Corn, Corn Meal, and By-Products from Wet and Dry Milling Processes**
- **Moisture, Protein, Fat, Fiber, Starch, Ash, NDF, and Other Parameters in 30 Seconds***
- **Ready to Go Pre-Calibrated with Unity or Ingot® Calibrations from Aunir™**

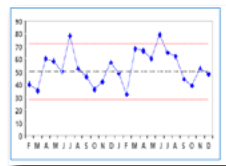
* Deluxe Model

Monitoring incoming corn stock whole and expeller

Monitoring and controlling oil extraction process

Residual oil and protein values in corn meal

Feed value of dried distillers grains, gluten meal and gluten feed



BENEFITS

- Rapid payback
- At-line ready
- Simple to use
- Flexible sample handling
- Easy data integration
- Low maintenance
- ISO 12099 Compliant
- Guaranteed calibrations



Process and Quality Control

Fast, accurate analysis is critical for corn processors to optimize the oil extraction process and insure quality of the finished products. Optimizing the process will save the plant time and money and provide very rapid payback. Near Infrared (NIR) analysis is a proven technique designed to provide fast, accurate, and reliable results for the corn processing industry.

SpectraStar XL

The Corn Processing Analyzer is based on the SpectraStar XL, a state of the art stand-alone NIR analyzer optimized for the analysis of ground and unground natural products. The SpectraStar XL is calibrated to NIST traceable reference standard materials and utilizes TRUE NIR™ components for outstanding performance and reliability, providing high uptime, complete confidence and quick payback to the operators.

The Unity Scientific SpectraStar™ RTW (Rotating Top Window) system gives the ultimate in sampling flexibility and allows the customer to make measurements of corn processing samples.

Plug and Go Calibrations

The Unity Corn Processing Analyzer is powered by the Ingot® calibration package from Aunir™, world leaders in NIR calibrations. This package includes calibrations for whole corn, corn meal, gluten feed, gluten meal and DDGS. All Ingot calibrations are backed by Aunir's 30 years of experience and are guaranteed to be accurate. Calibration experts are on call to specifically tailor the calibrations to your needs.

SpectraStar™ XL

Corn Processing Analyzer

How to Order

Simply choose the analyzer package below for ready to go analysis of all your corn processing samples

Corn Processing Analyzer Basic

US-2500-CRN1
SpectraStar 2500 XL
(1100nm – 2500nm)
Unity Calibrations

Corn Processing Analyzer Deluxe

US-2500-CRN2
SpectraStar 2500 XL
(1100nm – 2500nm)
Ingot® Calibrations

Ready to Use

The Unity Corn Processing Analyzer is robust enough to be used both at-line or in the lab. The system features a long life lamp and no air filter or fan, providing for very low cost of ownership. The built in computer is fully networkable and LIMS compatible, allowing for plant management to immediately access results. The Corn Analyzer is a valuable tool to control every step in the corn processing plant from incoming expeller to by-product feed value analysis.



Both Corn Processing Analyzer packages includes the following:

- SpectraStar 2500 XL (1100nm - 2500nm) with built in 17" touch screen prediction software, multi-cup adapter, powder cup adapter, Unity check cell, Unity R99 standard
- 2 Sample cups US-LGOP-0001 for analysis of ground corn, corn meal and by-products



The **Corn Processing Analyzer Basic** package includes:

- Unity calibrations for corn, corn meal and by-products
- 1 year free calibration support

The **Corn Processing Analyzer Deluxe** package includes:

- Full Ingot Calibration package for corn, corn meal and by-products
- 1 year calibration support and guarantee from Aunir™



Specifications (Full Specifications in SpectraStar XL Brochure)

Technology	Pre-dispersive scanning monochromator with nominal bandwidth of 10 nm (FWHM)
Wavelength Range	1100 - 2500 nm
Light Source	Tungsten halogen lamp with MTBF rating of 10,000 hours (User changeable)
Detector	Custom dual cooled, extended InGaAs detectors (2)
Analysis Time	10 - 30 seconds
Data Interval	1.0 nm
Photometric Noise	< 0.02 mAu 1100 - 2500 nm

User Interface

Built-in Computer	Windows® 7 Professional, Solid State HDD, 17" high resolution touch screen monitor
Software	InfoStar™ prediction and data management package
Network Capabilities	OPC Compliant; LIMS Compatible; 5 USB ports, 2 Ethernet (RJ45)

Dimensions and Power Requirements

Size	330 x 381 x 508 mm (with display) 330 x 381 x 270 mm (without display)
Weight	18 kg, 40 lbs.; 22 kg, 48 lbs. with monitor
Voltage	100-240 V AC *, frequency 50-60 Hz, Class 1, protective earth



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