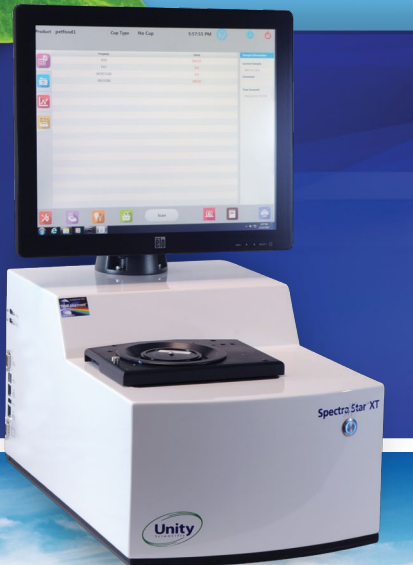




Corn Processing Analyzer

EQUIPMENT SERIES



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

*Deluxe Model



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.

BENEFITS:

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

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



SpectraStar™

The Unity Corn Processing Analyzer is based on the SpectraStar XT, a state of the art hi-performance NIR analyzer optimized for the analysis of ground and unground natural products. The SpectraStar XT contains TAS, a revolutionary technology which monitors the instrument status and precisely calibrates the instrument to first principles. The SpectraStar XT delivers reliable operation and ultimate performance.

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.



Corn Processing Analyzer

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 2600 XT (1100nm - 2600nm) with built in 17" touch screen prediction software, multi-cup adapter, powder cup adapter, Unity TAS Standards
- 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™



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-2600-CRN1

SpectraStar 2600 XT
(1100nm – 2600nm)

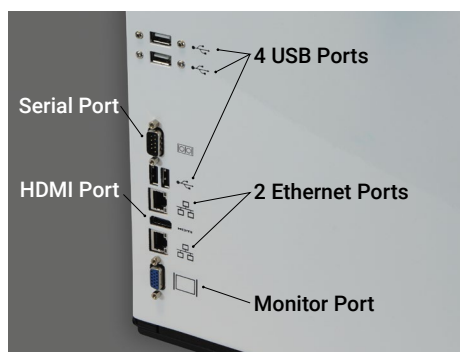
Unity Calibrations

CORN PROCESSING ANALYZER DELUXE

US-2600-CRN2

SpectraStar 2600 XT
(1100nm – 2600nm)

Ingot® Calibrations



Specifications Table (Full Specifications in SpectraStar XT Brochure)

Technology	Pre-dispersive scanning monochromator with nominal bandwidth of 10 nm (FWHM)
Wavelength Range	1100 - 2600 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 - 2600 nm

User Interface

Built-in Computer	Windows® 7 Embedded, Solid State HDD, 17" high resolution touch screen monitor
Software	UScan™ prediction and data management package
Network Capabilities	OPC Compliant; LIMS Compatible; 4 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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