Rendering Analyzer Package

- Animal Meals and By-Products

- Moisture, Protein, Fat, Fiber, Starch, Ash and Other Parameters in Under 30 Seconds

- Ready to Go Pre-Calibrated with Ingot® Calibrations from AuNIR™

Process and Quality Control

Fast, accurate analysis is critical for renderers to optimize their process and insure quality. 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 rendering and animal by-products industries.

POWERED BY TAS

TRUE Alignment SPECTROSCOPY

Patent Pending

SpectraStar™

The Unity Rendering 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 TRUE ALIGNMENT® Spectroscopy (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 all finished feed and feed ingredients.

BENEFITS:

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

Monitoring and controlling cookers and dryers to ensure optimal and efficient operation

Verifying production batch values to reduce or eliminate claims

Optimize final product moisture levels for maximum shelf life and profit margin

Plug and Go Calibrations

The Unity Rendering Analyzer is powered by the Ingot® calibration package from Aunir™. This package includes a full suite of calibrations for all animal meals including meat and bone meal, poultry meal, feather meal, blood meal, fish meal and others. Constituents include moisture, fat, protein, crude fiber, and ash.

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 our customer's needs.

POWERED by INGOT
Driven by UCal

Rendering Analyzer

Ready to Use

The Unity Rendering 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 Rendering Analyzer is a valuable tool to control every step in the animal meal manufacturing process, from in-process optimization to final product verification.

The Rendering Analyzer package includes the following:

- SpectraStar 2600 XT (1100 nm - 2600 nm) with built in 17" touch screen, prediction software, multi-cup adapter, US-RTIR-0016 adapter ring, Unity TAS Standards
- 2 Large cup US-LGOP-0001 for analysis of animal by-products
- Full Ingot Calibration package for animal meals and by-products
- One year calibration support and guarantee from AuNIR™

HOW TO ORDER

The Rendering Analyzer package includes everything you need to start analyzing animal by-products and meals right out of the box.
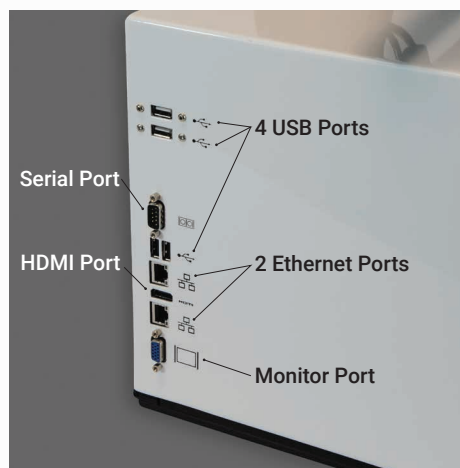
RENDERING ANALYZER

US-2600-FED1
SpectraStar 2600 XT
(1100 nm – 2600 nm)

RENDERING ANALYZER XTR

US-2600-FED1
SpectraStar 2600 XT-R
(680 nm – 2600 nm)

Serial Port

HDMI Port

4 USB Ports

2 Ethernet Ports

Monitor Port

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; 680 - 2600 nm XTR optional
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® 10 Professional, Solid State HDD, 17" high resolution touch screen monitor
Software	UScan™ routine analysis 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