



Potato Analyzer Package

EQUIPMENT SERIES



- Quality Analysis of Processed Potato Products
- Moisture and Fat results in under 30 Seconds
- Ready to Use with Processed Potato Calibrations, Calibration Support and Training



Process and Quality Control

Fast, accurate analysis is critical for processed potato manufacturers 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 a wide range of products in the food industry.

BENEFITS:

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

Incoming raw potato testing for moisture and quality

Monitoring of moisture levels in cook and processing steps

Monitoring and controlling coatings and fat content

Monitoring oil quality

Verifying production batch values against targets



SpectraStar™

The Unity Potato 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 ground potato and potato products.

Customized Calibrations

Unity Processed Potato calibrations are included with the Unity Potato Analyzer, along with free calibration support for the first year to ensure that the calibrations are matched and accurate for your particular products. All stages of potato processing can be monitored including raw, par-fried, before and after the dryer, before blancher, and with batters. Moisture is predicted for all potato products, and some stages include oil results as well. Fryer oil can be monitored for FFAs to ensure quality and freshness. Unity calibration experts will assist you with validating each monitored stage of production to ensure that you obtain accurate results for your products and realize the full value from the Unity Potato Analyzer.

Potato Analyzer

Ready to Use

The Unity Potato 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 Potato Analyzer is a valuable tool to control every step in the manufacturing process, from raw ingredients inspection to finished product quality control.

The Potato Analyzer package 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
- Unity processed potato calibration
- US-RTIR-0016 Ring adapter
- Two large open cups US-LGOP-0001 for analysis of processed potato products
- 1 year calibration support



HOW TO ORDER

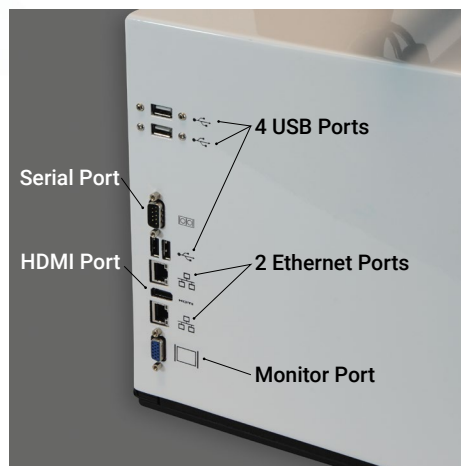
The Potato Analyzer below contains everything required for the analysis of most potato products.

POTATO ANALYZER

US-2600-POT1

SpectraStar 2600 XT

(1100 nm – 2600 nm)



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 XT
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® 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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