

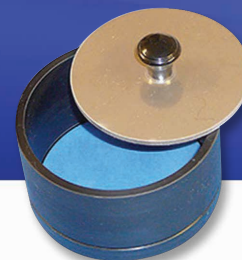


# University Analyzer Package

EQUIPMENT SERIES



- SpectraStar™ XT-R Extended Range Analyzer
- Complete Selection of Sample Accessories for Almost any Sample Type
- UCal™ Chemometric Software Suite



## Complete Research Package

The SpectraStar XT University package is a complete collection of hardware and software needed for investigating and supporting NIR reflectance applications of most sample types. Every component of the package was chosen to provide the maximum versatility and performance for the novice or advanced NIR researcher.

## BENEFITS:

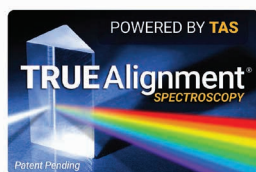
- Complete research suite
- Maximum versatility
- At-line ready
- Simple to use
- Flexible sample handling
- Easy data integration
- Low maintenance
- ISO 12099 Compliant

Available to approved Universities and Research Institutes

SpectraStar XT-R extended range analyzer for full spectrum coverage and maximum versatility.

Analyze powders, slurries and liquid samples with included sample accessories

UCal Chemometric suite for intuitive calibration development and maintenance



## SpectraStar™

The heart of the University package is the SpectraStar XT-R 680-2500 nm full range spectrometer, which covers the entire NIR spectral range for maximum versatility and performance.

SpectraStar XT analyzers are based on predispersive scanning monochromator technology for the highest performance in laboratory and at-line environments.

The Unity University 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 University package includes a complete selection of sample cells for easy analysis of solids, slurries and liquid materials.

## UCal Chemometric Package

The UCal software is a powerful software suite created and designed specifically for supporting NIR calibrations for natural products including food and agricultural applications. UCal includes sample management, calibration transfer, population structuring, regression development and validation programs to provide complete support for calibration development.



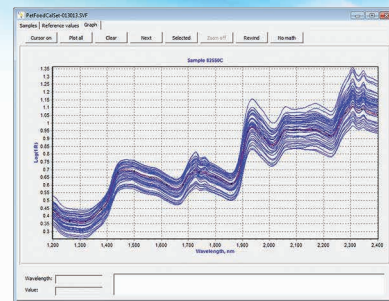
# University Analyzer

## Ready to Use

The Unity University Package is a specially priced collection created in support of the research community. This package is designed to support almost any type of reflectance NIR measurement.

### The University package includes the following:

- SpectraStar 2600 XT-R (680 nm - 2600 nm) with built in 17" touch screen, prediction software, multi-cup adapter, US-RTIR-0016 adapter ring, Unity TAS Standards
- UCal Calibration Software
- US-RTCP-0300 Round forage cup with plunger
- US-LGOP-0001 Large open cup for unground materials
- US-SRCP-0025 Small round cup, 25 mm height
- Ring cup US-ISIH-0307 for analysis ground powders
- US-TSTD-0003 Gold Reflector Standard, 0.3 mm
- US-TSTD-0005 Gold Reflector Standard, 0.5 mm
- Spare lamp



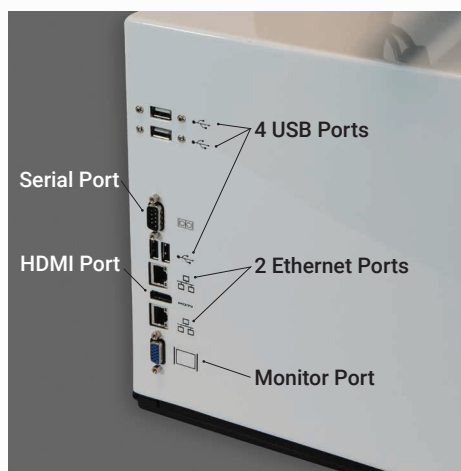
## HOW TO ORDER

The University package is only available to approved university and research institutes. Please contact your Unity Sales Manager to determine if your organization is eligible.

## UNIVERSITY PACKAGE

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

No substitutions are allowed.



## Specifications Table (Full Specifications in SpectraStar XT Brochure)

Technology	Pre-dispersive scanning monochromator with nominal bandwidth of 10 nm (FWHM)
Wavelength Range	680 - 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	< 0.1 mAu 680 - 1100 nm; < 0.02 mAu 1400 - 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

### Unity Scientific

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