



Unity
Scientific

Olive Analyzer

EQUIPMENT SERIES



- Quality Analysis of Olive Processing Products
- Moisture and Fat Results in Under 30 Seconds
- Ready to Go Pre-Calibrated with Unity Calibrations for the Olive Industry

Process and Quality Control

Fast, accurate analysis is critical for olive oil manufacturers to optimize their process and insure quality. Rapid at-line analysis provides real-time data for oil content and quality, and allows for adjustment of the process to minimize the oil left in the pomace. Near Infrared (NIR) analysis is a proven technique designed to provide fast, accurate, and reliable results for olive processors.



BENEFITS:

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

Incoming olive paste analysis for calculating payment to farmers.

Monitoring of moisture and oil content in olive pomace to optimize the extraction process

Minimize residual oil in pomace to reduce waste

Analyze extracted oil for acidity and other quality parameters



SpectraStar™

The Unity Olive 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 drawer sampling system is simple to use yet handles a variety of sampling options for various sample types including olive paste and oil.

Customized Calibrations

Unity Olive processing calibrations for paste and pomace are included with the Unity Olive Analyzer. These calibrations contain calibrations for oil content and moisture to provide immediate feedback for oil payment to suppliers as well as plant managers for optimizing the oil extraction.

The Olive Analyzer Deluxe also includes sample accessories and a calibration for olive oil and delivers acidity, FFA, peroxide value and other oil quality data.

All Unity calibrations come with free calibration support for the first year to ensure that the calibrations are matched and accurate for your particular process and samples.

Olive Analyzer

Ready to Use

The Unity Olive 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 Olive Analyzer is a valuable tool to control every step in the manufacturing process, from initial crush to extracted oil analysis.



Both Olive Analyzer packages include the following:

- SpectraStar 1400XT Rotating Top Window analyzer, built in touch screen, prediction software, open spout cup with plunger, loading tray, Unity TAS Standards

The **Olive Analyzer Basic** package includes:

- Unity calibrations for crushed olives and olive pomace

The **Olive Analyzer Deluxe** package includes:

- Transflectance sample cell
- Unity calibrations for crushed olives, olive pomace and olive oil

HOW TO ORDER

The Olive Analyzer below contains everything required for the analysis of olive processing products.

OLIVE ANALYZER BASIC

US-14XT-OLV
SpectraStar 1400 RTW
(1400 nm – 2600 nm)

OLIVE ANALYZER DELUXE

US-14XT-OLV2
SpectraStar 1400 RTW
(1400 nm – 2600 nm)

Specifications Table (Full Specifications in SpectraStar XT Brochure)

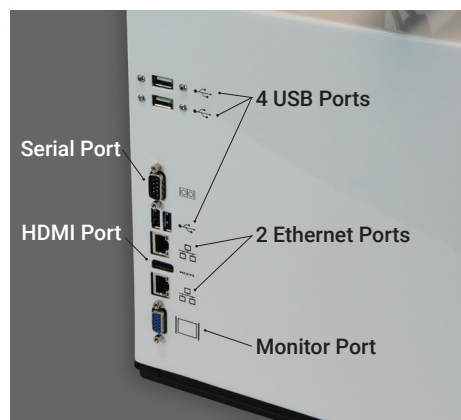
Technology	Pre-dispersive scanning monochromator with nominal bandwidth of 10 nm (FWHM)
Wavelength Range	1400 - 2600 nm
Light Source	Tungsten halogen lamp with MTBF rating of 10,000 hours (User changeable)
Detector	Custom dual cooled, extended InGaAs detectors(2)
Analysis Time	10 - 30 seconds
Data Interval	1.0 nm
Photometric Noise	< 0.02 mAu 1400 - 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



Unity Scientific

113 Cedar St. S-3 | Milford, MA 01757 USA
Phone: 203-740-2999 | Fax: 203-740-2955
www.unityscientific.com | email: info@unityscientific.com

Unity, True Alignment, UScan, UCal, SpectraStar, Infostar and Smartchem are trademarks of Westco Scientific Instruments, Inc., d/b/a Unity Scientific.

All other trademarks are the property of their respective companies.

©Copyright 2017 All rights reserved. Form #ES_012_05.20.16