# Rapeseed Processing Analyzer

- Rapeseed, Rapeseed Meal and By-Products

- 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 rapeseed 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 oil seed processing industry.

POWERED BY **TAS**

**TRUE**Alignment™ SPECTROSCOPY
Patent Pending

SpectraStar™

The Unity Rapeseed 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 all important steps in rapeseed processing.

## BENEFITS:

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

Monitoring incoming rapeseed quality whole and expeller

Monitoring and controlling extraction process

Residual oil and protein values in rapeseed meal

Feed value of rapeseed meal

POWERED by **INGOT**
Driven by UCal™

## Plug and Go Calibrations

The Basic Rapeseed Analyzer comes ready to use with Unity calibrations for protein, moisture and fat in rapeseed and meal and includes 1 year calibration support.

The Deluxe Rapeseed Processing Analyzer is powered by the Ingot® calibration package from Aunir™, world leaders in NIR calibrations. This package includes moisture, fat, protein, fiber, ash, starch, sugar and other calibrations for rapeseed, rapeseed expeller, rapeseed meal. All Ingot calibrations are backed by Aunir's 30 years of experience and include 1 year calibration support and guarantee from Aunir.

# Rapeseed Processing Analyzer

## Ready to Use

The Unity Rapeseed 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 Rapeseed Analyzer is a valuable tool to control every step in the rapeseed processing plant from incoming expeller to rapeseed meal feed value analysis.

**Both Rapeseed Processing Analyzer packages include 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 Large open cups US-LGOP-0001 for analysis of rapeseed and rapeseed meal

The **Rapeseed Processing Analyzer Basic** package includes:

- Unity calibrations for rapeseed and rapeseed meal

- 1 year free calibration support

The **Rapeseed Processing Analyzer Deluxe** packages include:

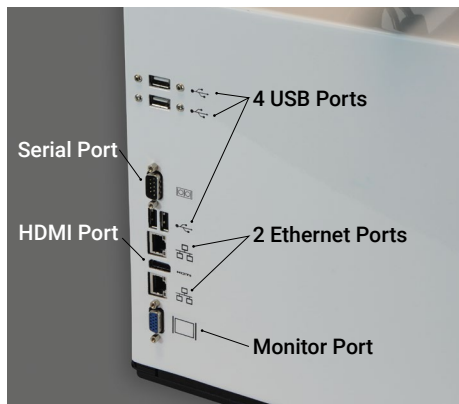- Full Ingot Calibration package for rapeseed and rapeseed meal

## HOW TO ORDER

Simply choose the analyzer package below for ready to go analysis of all your rapeseed processing samples

### RAPESEED PROCESSING ANALYZER BASIC

US-2600-CAN1
SpectraStar 2600 XT
(1100 nm – 2600 nm)
Unity Calibrations

### RAPESEED PROCESSING ANALYZER DELUXE

US-2600-CAN2
SpectraStar 2600 XT
(1100 nm – 2600 nm)
Aunir™ Ingot® Calibrations



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 |
| 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 |