# Flour Analyzer





- Wheat, Flour and By-Products
- Ash, Protein, Moisture, Water Absorption
  and Other Parameters in Under 30 Seconds\*
- Ready to go Pre-Calibrated with Unity or Ingot<sup>®</sup> Calibrations from Aunir™

\* Deluxe Model



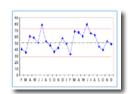


Monitoring incoming wheat quality

Monitoring and controlling the milling process

Monitoring final flour quality

Test quality of milling byproducts





# **Process and Quality Control**

Fast, accurate analysis is critical for flour millers to optimize the milling 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 flour milling industry.

# SpectraStar XL

The Flour Analyzer is based on the SpectraStar XL, a state of the art stand-alone NIR analyzer optimized for the analysis of ground and unground natural products. The SpectraStar XL is calibrated to NIST traceable reference standard materials and utilizes TRUE NIR $^{\text{TM}}$  components for outstanding performance and reliability, providing high uptime, complete confidence and quick payback to the operators.

The Unity Scientific SpectraStar  $^{\!\scriptscriptstyle\mathsf{TM}}$  RTW (Rotating Top Window) system gives the ultimate in sampling flexibility and allows the customer to make measurements throughout the milling process.

### Plug and Go Calibrations

The Flour Analyzer Basic comes ready to use with Unity calibrations for soft and hard wheat flour as well as ground wheat and includes 1 year calibration support. The Flour and Wheat Analyzer Basic adds calibrations for whole wheat kernels. Protein, moisture and ash constituents are included.

The Flour Analyzer Deluxe is powered by the Ingot® calibration package from Aunir™, world leaders in NIR calibrations. This package includes moisture, fat, protein, fiber, ash, starch damage, water absorption and other calibrations for bread, cake and other flours. Calibrations for whole wheat and co-products are also included. All Ingot calibrations are backed by Aunir's 30 years of experience and include 1 year calibration support and quarantee from Aunir.

#### **BENEFITS**

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





# **Flour Analyzer**

#### **How to Order**

Simply choose the analyzer package below for ready to go analysis of all your flour and wheat samples

#### Flour Analyzer Basic

US-1400-FLR1 SpectraStar 1400 XL (Static) (1400 nm – 2500 nm) Unity Calibrations

#### Wheat and Flour Analyzer Basic

US-1400-FLR2 SpectraStar 1400 XL (Rotating) (1400 nm – 2500 nm) Unity Calibrations

#### Flour Analyzer Deluxe

US-2500-CÁN2 SpectraStar 2500 XL (1100 nm – 2500 nm) Aunir™ Ingot® Calibrations



# Unity

#### **Unity Scientific**

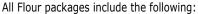
117 Old State Road Brookfield, CT 06804 USA

Phone: 203-740-2999 Fax: 203-740-2955 www.unityscientific.com

Email: info@unityscientific.com

## Ready to Use

The Unity Flour 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.



 SpectraStar XL with built in 17" touch screen, prediction software, multi-cup adapter, powder cup adapter, Unity check cell, Unity R99 standard

#### The Flour Analyzer Basic package includes:

- SpectraStar 1400XL and medium sample cups US-MPCP-0001
- Unity calibrations for hard and soft flours
- 1 year free calibration support

#### The Wheat and Flour Analyzer Basic package includes:

- SpectraStar 1400XL and large sample cups US-LGOP-0001
- Unity calibrations for whole wheat and hard and soft flours
- 1 year free calibration support

#### The Flour Analyzer Deluxe packages include:

- SpectraStar 2500 XL and large sample cups US-LGOP-0001
- Full Ingot Calibration package for wheat and flour milling
- 1 year calibration support and quarantee from Aunir™



Pre-dispersive scanning monochromator with nominal bandwidth of 10 nm (FWHM)				
	Wavelength Range			
	Light Source			
	Detector			
	Analysis Time			
	Data Interval			
	Photometric Noise			
-	Data Interval			

## **User Interface**

<b>Built-in Computer</b>	Windows® 7 Professional, Solid State HDD, 17" high resolution touch screen monitor				
Software	InfoStar™ prediction and data management package				
<b>Network Capabilities</b>	OPC Compliant; LIMS Compatible; 5 USB ports, 2 2 Ethernet (RJ45)				

#### **Dimensions and Power Requirements**

**Local Contact Information:** 

	330 x 381 x 508 mm (with display)
Size	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



