

Deluxe Flour Analyzer Near Infrared Analysis (NIRA™)

POWERED by **INGOT**
Driven by **UCal**



Unity designs at-line analyzers that are easy to operate and provide fast results so you can run your process more efficiently.

BENEFITS

- Complete analysis package
- Calibrations included
- Network ready
- Easy to use and customize
- Low maintenance
- Designed for at-line analysis
- Superior accuracy, precision, and stability
- Easy NIR database transfer from older equipment

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

Unity delivers proven solutions for the food and agricultural markets. The ability to easily gauge incoming wheat and flour quality with the highest level of speed and accuracy allows flour millers to monitor and optimize their process more efficiently. In less than 30 seconds, our NIR systems provide simultaneous results for moisture, protein, fat, ash, and other parameters. Our Deluxe Flour Analyzer is ideal for every step in the milling process, from grain intake, to in-process monitoring, and load out.

The Unity Deluxe Flour Analyzer is fast, allowing for 100% measurement of incoming ingredients and finished flour. This speed, combined with guaranteed accuracy, allows for complete control of the mill, maximizing profits and providing fast payback. It also insures consistent quality for the final end user bakers and food processors.

The Unity Deluxe Flour Analyzer is powered by the Ingot calibration package from Aunir. This package includes a full suite of calibrations for unground wheat, ground wheat, flour, and milling co-products such as midds and wheat bran. With calibrations for all flour grades and types, the Ingot calibration package covers virtually all measurements needed in the flour mill.

All Ingot calibrations are backed by Aunir's 30 years of experience and are guaranteed to be accurate. Calibration experts are on call to specifically tailor the calibrations to our customer's needs.

The Unity Scientific Deluxe Flour Analyzer, powered by Ingot calibrations takes all of the guess work out of NIR analysis. With calibration performance that is guaranteed to be accurate, customers can be confident enough to completely control their mill, providing great financial benefit to the plant.

The Unity Deluxe 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. The Flour Analyzer is a valuable tool to control every step in the flour manufacturing process, from incoming wheat to finished flour load out.



Deluxe Flour Analyzer

Near Infrared Analysis (NIRA™)

How to Order

Deluxe Flour Analyzer US-AFLR-003

The Unity Scientific SpectraStar RTW (Top Window system) gives the ultimate in sampling flexibility and allows the customer to make measurements of all incoming wheat and flour. The SpectraStar's quick analysis time provides real-time feedback that allows the process to be controlled, optimizing the process and providing rapid payback.

The Deluxe Flour Analyzer Package includes the following:

- SpectraStar 2400 RTW (built in touch screen, prediction software, multi cup adapter, Unity check cell)
- Large open cup for analysis of unground wheat and flour
- Powder cup for ground wheat and flour
- Full Ingot Calibration package for unground wheat, ground wheat, and flour

SPECIFICATIONS

Technology

Pre-dispersive Scanning Monochromator with nominal bandwidth of 10 nm (FWHH)

Wavelength Range	1200 - 2400 nm
Light Source	Tungsten halogen lamp with MTBF rating of 10,000 hours (User changeable)
Grating	Halographic NIR for use from 1200-2400nm
Detector	InGaAs (temperature stabilized)
Scan Time	Less than 0.8 seconds/scan
Analysis Time	10-30 seconds
Data Interval	1 nm
Photometric Noise	<20 micro AU at 1640 nm

User Interface

Operating System	Windows 2000 or optional Windows XP
Display	14.5 inch VGA with touch screen
Software	InfoStar prediction and data management package
Optional	Keyboard and mouse

Dimensions and Power Requirements

Size	W 330 mm x H 368 mm x D 381 mm (W 13" x H 14.5" x D 15")
Weight	13.6 kg, 30 lbs.
Power Voltage	100-240 V ac, 50/60 Hz

Network Capabilities

OPC compliant
LIMS compatible
3 USB ports
1 Ethernet (RJ45) connector interfaces



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

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