Pet Food Analyzer Package

- Finished Pet Food and Ingredients
- Moisture, Protein, Fat, Fiber, Starch, Ash 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 pet food manufacturers to optimize their process and insure quality to meet labeling requirements. 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 pet food industry.

BENEFITS:

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

Raw material testing to guide proper ration supplementation, to control meal formulation, and to optimize least cost formulation

Monitoring and controlling mixers and optimizing the addition of liquid fat and moisture in extruders and dryers

Verifying production batch values, optimizing fat spraying on kibbles and documenting finished feed label claims

The Unity Pet Food 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 finished pet food and ingredients.

Plug and Go Calibrations

The Basic Pet Food Analyzer comes ready to use with Unity calibrations for protein, moisture and fat in dried pet foods and includes 1 year calibration support.

The Deluxe Pet Food Analyzer is powered by the Ingot® calibration package from Aunir™, world leaders in NIR calibrations. This package includes moisture, fat, protein, fiber, ash, NDF, starch, sugar and other calibrations for most dried pet foods including dog, cat, rodent, ferret, guinea pig and bird feeds as well as over 50 ingredients. All Ingot calibrations are backed by Aunir's 30 years of experience and include 1 year calibration support and guarantee from Aunir.

POWERED by INGOT
Driven by UCal

Pet Food Analyzer

Ready to Use

The Unity Pet Food 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 Pet Food Analyzer is a valuable tool to control every step in the feed manufacturing process, from raw ingredients to finished feed.

4 USB Ports
Serial Port
HDMI Port
2 Ethernet Ports
Monitor Port

All Pet Food Analyzer packages include the following:

- SpectraStar 2600 XT (1100 nm - 2600 nm) with built in 17" touch screen prediction software, multi-cup adapter, US-RTIR-0016 adapter ring, Unity TAS Standards
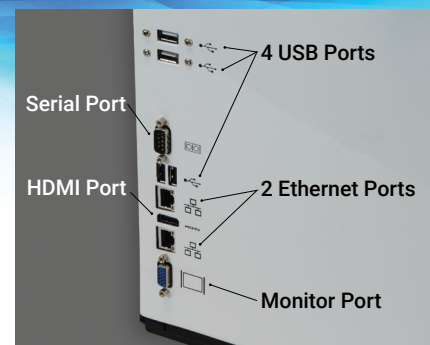- 2 Large cup US-LGOP-0001 for analysis of feed and feed ingredients

The **Pet Food Analyzer Basic** package includes:

- Unity calibrations for dry pet foods
- 1 year free calibration support

The **Pet Food Analyzer Deluxe** packages include:

- Full Ingot Calibration package for dry pet foods and ingredients
- 1 year calibration support and guarantee from Aunir™

The **Pet Food Analyzer Deluxe XLR** package contains the research grade SpectraStar 2600 XT-R analyzer with 680 nm - 2600 nm range

HOW TO ORDER

The Pet Food Analyzer package includes everything you need to start analyzing pet foods right out of the box.

PET FOOD ANALYZER BASIC

US-2600-PET1
SpectraStar 2600 XT
(1100 nm – 2600 nm)
Unity Calibrations

PET FOOD ANALYZER DELUXE

US-2600-PET2
SpectraStar 2600 XT
(1100 nm – 2600 nm)
Aunir™ Ingot® Calibrations

PET FOOD ANALYZER DELUXE XTR

US-2600-PET3
SpectraStar 2600 XT-R
(680 nm – 2600 nm)
Aunir™ Ingot® Calibrations

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; 680 - 2600 nm XTR optional
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