Snack Food Analyzer
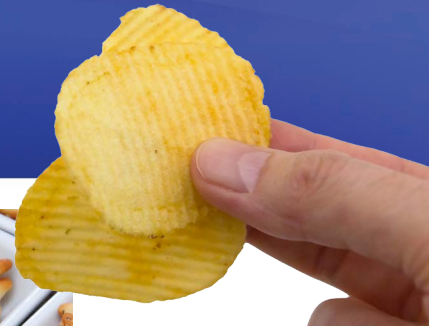
- Fat, Moisture, Sugar, Seasonings and Other Parameters in Under 30 Seconds
- Sealed case and touch screen operation for At-line process control
- Starter calibrations for rapid implementation

BENEFITS:

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

Process and Quality Control

Fast, accurate analysis is critical for snack food manufacturers to optimize their process, minimize discard, and ensure quality. Monitoring 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 many sectors of the food industry.

POWERED BY TAS
TRUE Alignment™ SPECTROSCOPY
Patent Pending

The Unity Snack 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 includes TRUE ALIGNMENT® Spectroscopy technology which precisely monitors the instrument status and automatically 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 rapid measurements of all important processing steps.

Customized Calibrations

Unity Scientific has hundreds of successful instruments placed in food factories around the world. Applications include crackers, chips, pretzels, baked goods, confectionery, cereals and many others. Unity calibration specialists have created hundreds of starter calibrations for many food products that provide new installations with a quick start. Unity calibration experts will help optimize the calibrations to your unique products, ensuring the highest accuracy possible. All calibrations include 1 year of free calibration support
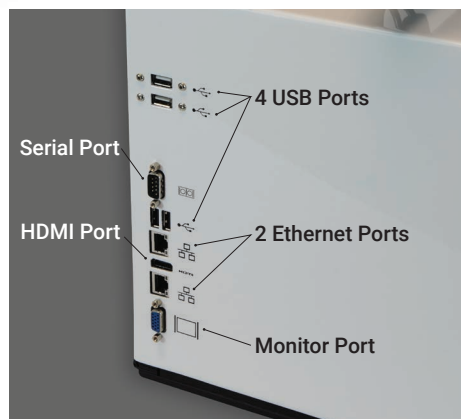
Snack Food Analyzer

Robust and Ready to Use for At-Line or Lab Use

The Unity Snack 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. Sample data can be shown in SPC charts for intuitive process control. The Food Analyzer is a valuable tool to control every step in the food manufacturing process, from incoming ingredients to final product verification.

The Snack Food Analyzer package includes the following:

- SpectraStar 1400XT (1400 – 2600 nm) or 2600 XT (1100 nm - 2600 nm) with built in 17" touch screen, UScan prediction software, multi-cup adapter, US-RTIR-0016 adapter ring, Unity TAS Standards
- 2 Large cup US-LGOP-0001 for analysis of unground samples
- Unity starter calibration selected for your product
- Calibration Development and Support (1 year)

HOW TO ORDER

The Snack Food analyzer package contains everything you need to start analyzing samples right out of the box. Please consult with your Unity account manager for starter calibrations.

SNACK FOOD ANALYZER

US-14XT-SNK1 SpectraStar 1400 XT (1400 – 2600 nm)

US-2600-SNK1 SpectraStar 2600 XT (1100 – 2600 nm)

Specifications Table

Technology	Pre-dispersive scanning monochromator with nominal bandwidth of 10 nm (FWHM)
Wavelength Range	1400 - 2600 nm or 1100 – 2600 nm
Light Source	Tungsten halogen lamp with MTBF rating of 10,000 hours (User changeable)
Detector	Custom dual cooled, extended InGaAs detectors
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)

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

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