



## A World of Difference

Better Product | Better Calibration | Better Support

# Phoenix Gold Series



## WHY CUSTOMERS CHOOSE PHOENIX GOLD NIR

- ◆ **Consistency you can trust:**  
Automated standardization and instrument-matching routines keep results stable across shifts, operators, and sites - reducing rework and batch variability
- ◆ **Laboratory-grade accuracy:**  
Robust optics, validated calibrations, and intelligent pre-processing ensure measurements are repeatable across solids, liquids & slurries
- ◆ **Designed for ease of use:**  
Guided workflows, touchscreen controls, and one-click methods let technicians start testing immediately - no advanced chemometrics degree required
- ◆ **Low maintenance, high uptime:**  
Modular hardware, self-check diagnostics, and predictive alerts minimize downtime and eliminate surprise service visits



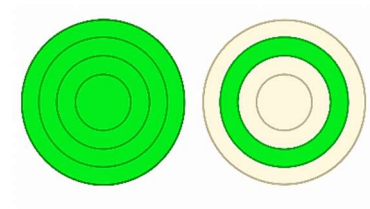
## ELEVATING YOUR EXPERIENCE

For too long the NIR industry for food and feed analysis has been dominated by high price, low service and entry barriers. That changes with the Praha Analytical introducing the Phoenix Gold NIR product line. We're not new to the industry. In fact, Praha is driven by the same people who developed the very foundations of Near Infrared Technology. We are the innovators and inventors who created the software and firmware to make it all work. Behind the algorithms and calibrations is the team at Praha.



## BEST ACCURACY AND REPEATABILITY

- ◆ **Monochromator-Based Design:**  
Most Trusted technology in the industry for consistent results
- ◆ **SYNC (Standardization Yielding NIR Consistency):**  
Sites or production lines are aligned, by combining advanced standardization algorithms with calibration alignment procedures
- ◆ **Internal Drift Prevention (IDP):**  
Embedded wavelength and reference standards eliminate the need for routine bias adjustments
- ◆ **TotalScan:**  
Scan up to 100% of the sample cup compared to around 25% on other NIR brands



## EASIEST TO USE AND MAINTAIN

- ◆ **Flexible Sample Handling:**  
Variety of sample cups designed to measure solids, liquids and slurries
- ◆ **Rugged and Robust:**  
Designed for different environmental conditions including in-lab or at-line
- ◆ **Easiest LampChange:**  
Non-invasive lampchange in under 5 minutes, no special tools required
- ◆ **QuickPulse Diagnostics:**  
3-minute complete procedure provides confidence that your Phoenix is working properly



## AUTOSAMPLER

### HIGHEST THROUGHPUT IN THE INDUSTRY

The Phoenix Gold Autosampler is designed for high-throughput laboratories that demand speed, accuracy, and reliability in NIR analysis. It features a standard 5-cup autosampler, with optional 30-cup and 50-cup extensions available to support increased sample throughput.

This flexible, hands-free design streamlines laboratory workflows while delivering consistent, high-quality results making the Phoenix Gold Autosampler an ideal solution for dependable, high-volume NIR testing.



### NEVER MIX-UP SAMPLES USING RFID

- ◆ **RFID Reader/Writer:**  
Ensures no sample errors as the sample ID and product type are read off the RFID tag and communicated to the instrument
- ◆ **Unattended Operation:**  
Once samples are loaded, hit scan once and walkaway
- ◆ **Integrated Standards:**  
Wavelength and internal standards eliminate the need for routine bias adjustments and provide consistent performance even under changing environmental conditions





Keeps your Phoenix instrument running at its best with our dedicated Repair & Maintenance services. Our goal is to minimize downtime and simplify ownership so you can stay focused on your work - not your equipment.

The Phoenix Protection Program provides you with professional support and proactive care, for a low annual fee. It includes everything below. Of course, you can choose to purchase each individual service listed below, But the Protection program saves you time and lots of money.

- ◆ Quick turnaround times to get your instrument back in operation as fast as possible
- ◆ Minimal user maintenance required, with most work handled by our service team
- ◆ Experienced technicians who understand Phoenix instruments inside & out, ensuring repairs & tune-ups are done right

## SPECIFICATIONS

Dimensions (Gold)	12.5" x 12.5" x 21.5"; 318 mm x 318 mm x 546 mm (L x W x H)
Dimension (Gold Autosampler)	15.5" x 18" x 10.125"; 394 mm x 457 mm x 257 mm (L x W x H)
Weight	Gold: 24 lbs; 11 kg                      Gold Autosampler: 35 lbs; 16 kg
Light Source	Tungsten Quartz Halogen Lamp, MTBF: 5k-10k hours
Measurement Mode	Reflectance or Transflectance
Spectral Resolution	0.5 nm, 1.0 nm or 2.0 nm
Absorbance Range	Up to 4 absorbance units (scan and wavelength dependent)
Analysis Time	10-60 seconds (depending on cup size and number of subscans)
Wavelength Reproducibility	<0.02 nm (based on Praha specific diagnostic test)
Wavelength Accuracy	<0.05 nm matched to an internal reference standard
Photometric Noise (avg)	<15 µAu in standard range
Operating System	Windows 10/11
Data Export Options	LIMS, Modbus, Excel
Ambient Temperature	10-40 °C

