

# MultiNIR-3270 Series

NIR Analysis for Grain, Food and Feed



Fast



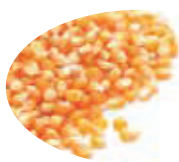
Easy-to-Use



Multi-Parameters



User Friendly Software



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

- Fast: 10-second Analysis of All Type of Samples
- High Performance: High Accuracy, Repeatability, Stability and Reliability
- Easy to Implement, Operate and Maintain
- Modern Technology and a wide range of Available Calibrations Free of Charge
- User-Friendly Software with Multiple Statistics Analysis

►► **Industries:**

Grain, Oilseed Processing, Flour Milling, Starch Production, Sugar Production, Ethanol Production, Raw Material of Feed, Feed Final Products

►► **Parameters:**

Moisture, Protein, Fat/Oil, Ash, Fiber, Starch, Amino Acid, Sugar, Dry Matter and more

►► **IDEAL FOR**

- Incoming raw material
- Laboratory testing
- Final product release
- Products pricing
- Research

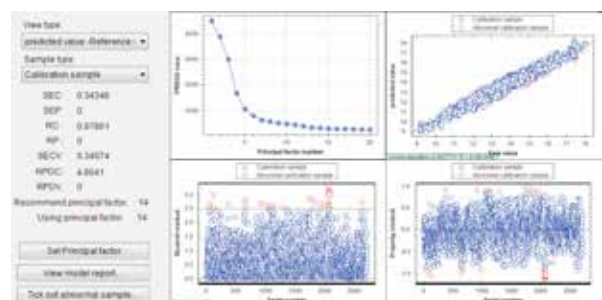
►► **High Performance**

- Wavelength repeatability <0.01nm
- Wavelength accuracy <0.1nm
- Background noise <50μA
- Analysis time <10s

►► **Easy operation with user-friendly software**

Versatile results display with warning and action displays for outlier and product limits.

Easy and reliable software operation ensures stable analysis results.



User can develop their own calibrations with total autonomy under the guidance of engineer.

Online data analysis and multiple statistics functions.



## ►► Hassle-Free maintenance



The MultiNIR-3270 Series analyzer are designed to be easily maintained by the customer, there by decreasing down time and maintenance costs. The lamp has expected >5,000 hours life and can be easily monitored in the program and changed by the user.

The instrument itself is designed for long life and reliability with quality components and no fans, lasers, desiccators or cooling system to fail.

## ►► Installation and training



The NIR is designed for easy setup and configuration. Upon delivery, a factory trained product specialist will perform diagnosis to verify instrument performance and then install calibrations and set up products according to customer requirements.

## ►► A wide range of calibrations

Calibrations	Parameters							
Wheat(granular)	Moisture	Crude protein(Wet)	Crude protein(Dry)	Wet gluten	Hardness	Falling number	Dry gluten	
Wheat(Milled)	Moisture	Crude protein(Wet)	Crude protein(Wet)	Crude ash	Wet gluten			
Millet	Moisture	Lysine_D	Amylose_D	Protein_D	Fat_D	Gel	Vitamin B1	
Rice	Moisture	Crude protein	Amylose	Eating quality				
Flour	Moisture	Crude ash	Wet gluten	Crude protein	Water absorption	Falling number		
Soybean(granular)	Moisture	Crude protein(Wet)	Crude oil(Wet)	crude protein(Dry)	Crude oil(Dry)			
Soybean meal	Moisture	Crude protein	Crude ash	Crude oil	Crude fiber	PS	UA	
Corn(granular)	Moisture	Crude protein	Volume weight	Crude oil	Starch	Crude ash	Crude fiber	
Cottonseed	Moisture	Crude protein	Oil					
Cottonseed meal	Moisture	Crude protein	Crude ash	Crude oil	Crude fiber	PS		
Rapeseed	Moisture	Crude oil	Glucosinolate	Erucic acid	Palmitic acid C16:0	Eicosenoic acid	Crude protein	
Rapeseed cake	Moisture	Crude protein(Wet)	Crude protein(Dry)	Crude ash	Crude fiber	Crude oil(Wet)	Crude oil(Dry)	
Sunflower seeds	Moisture	Oil						
Sunflower meal	Moisture	Crude protein	Residual oil					
DDGS	Moisture	Crude protein	Crude ash	Phosphorus	Crude oil	Crude fiber		
Pig feed	Moisture	Crude protein	Crude ash	Calcium	Phosphorus	Salt	Crude oil	Crude fiber
Cattle feed	Moisture	Crude protein	Crude ash	Calcium	Phosphorus	Salt	Crude oil	Crude fiber
Chicken feed	Moisture	Crude protein	Crude ash	Calcium	Phosphorus	Salt	Crude oil	Crude fiber
Chicken feed	Moisture	Crude protein	Crude ash	Calcium	Phosphorus	Salt	Crude oil	Amoni acid
Meat powder	Moisture	Crude protein	Crude ash	Calcium	Phosphorus	Crude oil		
Sow feed	Crude ash	Moisture	Crude protein	NaCl				
Feather meal	Moisture	RProtein	VBN	Protein	RPratio	Ash	Fat	AV
	Sample number > 400			Sample number > 200			Sample number < 200	

## ►► Technical specifications

Wavelength range	1000-1800 nm, NIR 3272, 1000-2500 nm, NIR 3275
Light Source	Tungsten halogen lamp with expected lifespan more than 5000 hours, User changeable via specific disassemble tool
Measurement mode	Diffuse reflectance
Detector	High Performance ultra-cooled InGaAs (Indium Gallium Arsenide) detector to -25°C, dual stage temperature stabilized
Optical Bandwidth	10.95 ± 0.3 nm @ 1395.5 nm
Background noise	Less than 50 µA
Sample volume	Flexible 50-150 ml, 3 types of sample cup
Analysis time	6-10 sec. (30 scans / sample =6s, scan speed= 5 times/ sec.)
Wavelength accuracy	<0.1 nm to traceable standard reference material
Ambient temperature	5-35 °C
Ambient humidity	<90% RH, < 85% RH recommended
Power Supply	198-242 V, frequency 50 Hz, 0.5 A
Dimensions (L × W × H)	403 × 391 × 374 mm
Weight	18kg, 40 lbs.; 40kg, 88 lbs. with veneer package

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

## Our Products & Technologies



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Liquid Particle  
Counter



Optical Emission  
Spectrophotometer



DSC/TGA



Semi Auto Bio  
Chemistry Analyzer



HEMA 2062  
Hematology  
Analyzer



Micro Plate  
Reader/Washer



URINOVA 2800  
Urine Analyzer



Total Organic  
Carbon 3800



Fully Automated  
CLIA



NOVA-2100  
Chemistry Analyzer



PCR/Gradient PCR/  
RTPCR



TOC  
Analyzer



Laser Particle  
Size Analyzer



Ion Chromatograph



Water purification  
system

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



**Analytical**  
**Foundation**

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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