A wide range of application

Calibrations	Parameters							
Wheat(granular)	Moisture	Crude protein(Wet)	Crude protein(Dry)	Wet gluten	Hardness	Falling number	Dry gluten	
Wheat(Milled)	Moisture	Crude protein(Dry)	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
Fish meal	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	

We have focused on grain and feed industrie for more than 25 years with NIR instruments for quality control to meet its needs. And customers are free of charge for all 76 calibrations, also they could develop their own calibrations with total autonomy.

Technical specifications

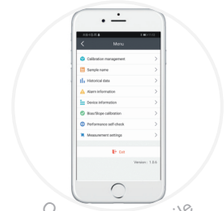
Wavelength range	1000-1800 nm
Light Source	Tungsten halogen lamp with expected lifespan more than 10000 hours, User changeable via specific disassemble tool
Measurement mode	Diffuse reflectance
Detector	High performance ultra-cooled InGaAs (Indium Gallium Arsenide) detector to -20℃, dual stage temperature stabilized
Optical Brandwith	10.95 ± 0.3 nm @ 1395.5 nm
Signal to noise ratio	＞ 10000:1
Sample Volume	200mL
Analysis time	6-10 sec. (30 scans / sample = 6s, scan speed = 5 times / sec.)
Wavelength repeatability	< 0.05 nm
Wavelength accuracy	≤ ±0.2 nm
Stray light	< 0.1%
Communication connection	Bluetooth
Temperature range	(0-40) ℃
Humidity range	(5-85) %
Power supply	(220 ± 20) V~/50Hz
Dimensions (L × W × H)	220 × 310 × 310 mm
Weight	About 10kg (without battery)

HW20190906V2P1

SupNIR Portable Analyzer

Portable

Battery charged



Operated on mobile

User friendly APP

Fast and Reliable Analysis for Grain, Food and Feed

- Portable: Small in size, can be taken to the field
- Battery charged: long lasting up to 24 hours under normal analysis
- Easy operation: analyzer connected to mobile via Bluetooth, user friendly Mobile APP to operate
- Fast: 10-second analysis of all type of samples
- Modern technology and a wide range of calibration available

IDEAL FOR

- Incoming raw material
- Field testing
- Final production release
- Products pricing

High Performance

- Wavelength repeatability < 0.05 nm
- Wavelength accuracy < 0.2 nm
- Signal to noise ratio > 10000:1
- Analysis time < 10s

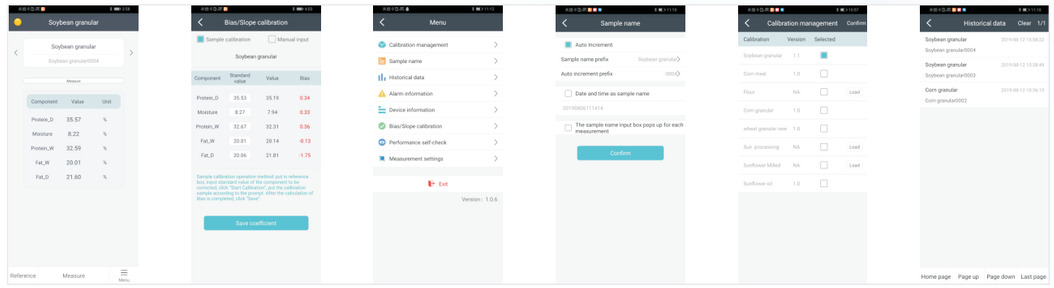
Industries:

Grain, Oilseed, Processing, Flow Milling, Starch Production, Sugar Production, Ethanol Production, Raw Material of Feed, Feed Final Productions

Parameters:

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

Operated on mobile



A user-friendly and professional app for the SupNIR Portable is developed and installed on a mobile phone. Both of Measurement and data processing are integrated in the app. With it, you can also download and manage various calibrations, edit sample names, review historical data, perform bias calibration, etc.

The operation is simple, no special training required, no sample preparation required, no damage to samples. All you require to do is place the sample plate on the analyzer platform, click on the “measurement”, and the instrument will perform the measurement automatically and shows the result immediately.

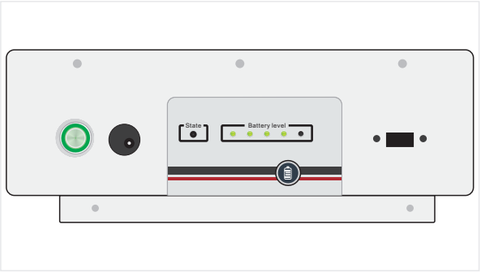
Portable

The SupNIR Portable is a portable instrument that can be taken to the field to support raw material acquisition, production inspection, seed screening, new production evaluation in feed industry, oil processing, grain trade, etc.

Non-destructive rapid detection of physical and chemical components of granules, strips, and powdered samples are realized within less than 10 seconds.

What’s more, it’s small in size and light in mass.

Battery charged



The SupNIR Portable analyzer is battery powered, no external power is required. Compared with analyzers from other competitors which are vehicle-mounted or bench toped, the SupNIR Portable is much more convenient for field testing.

The lifespan of the battery is long, and there is no need to change the battery frequently. With one charge, the analyzer can work for more than 24 hours. Even when the outdoor temperature is -20 °C in winter, the analyzer will still keep stable work for more than 8 hours.