

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 | | |

FPI has focused on grain and feed industries 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°C, dual stage temperature stabilized |
| Optical Bandwidth | 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) °C |
| Humidity range | (5-85) % |
| Power supply | (220 ± 20) V~ / 50Hz |
| Dimensions (L × W × H) | 220 × 310 × 310 mm |
| Weight | About 10kg (without battery) |

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SupNIR Portable Analyzer



Fast and Reliable Analysis for Grain, Food and Feed

bluepoint[®]
TECHNOLOGIES





- 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 available 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:

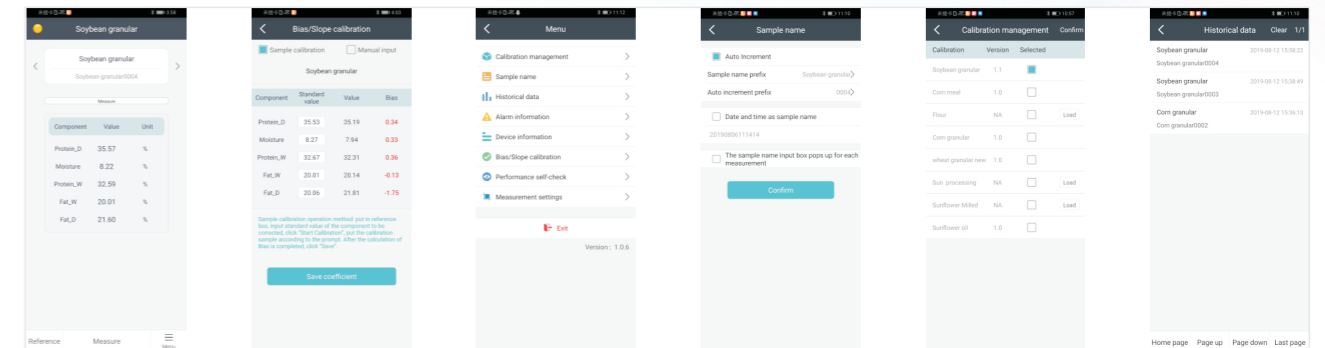
Grain, Oilseed, Processing, Flow Milling, Starch Production, Sugar Production, Ethanol Production, Raw Material of Feed, Feed Final Productions

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

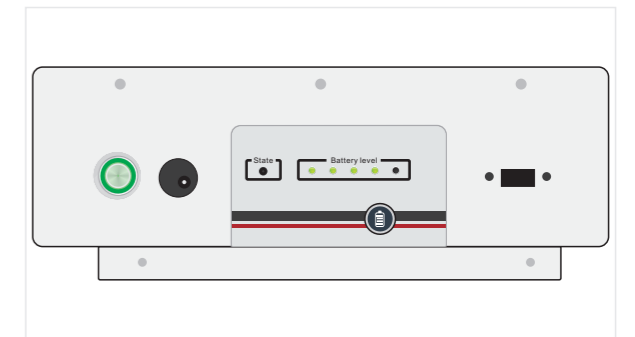


The SupNIR Portable is a portable instrument that can be taken to the field to support raw material acquisition, production inspection, seed screening, new production evaluation in feed industry, oil processing, grain trade, etc.

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 topped, 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.

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TECHNOLOGIES

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