

IAS-3120 NIR Spectrometer

Introduction



IAS-3120 NIR Spectrometer is suitable for analyzing samples in powder, fine granule, or liquid form. The typical applications include, for example, analysis of crops, animal feed, food and other samples in agriculture, dairy, pharmaceutical and chemical industries. It is capable of measuring composition of protein, fat, moisture, ash content, fiber, etc. The device is compact, portable, and can be used either on-site or in-lab.

Key benefits:

- High stability and signal-to-noise ratio
- Easy to use, no damage to the samples
- LAN port and Wi-Fi connection to PC, LAN or Internet
- Ready for remote maintenance: new model upload, software upgrade and calibration
- Compact and portable
- CE certified

Typical applications

	Applications	Parameters
1	Corn	moisture, protein, fat, starch
2	Soybean Meal	moisture, protein, fiber
3	Dried Distiller Grains with Soluble (DDGS)	moisture, protein, fat, ash content, fiber
4	Cotton Seed Protein	protein, moisture, fat
5	Soy Flour	protein, moisture, fat
6	Rice Bran/Rice Bran Meal	protein, fat, ash content, moisture, acid value
7	Wheat Flour	wet gluten, moisture, protein, sedimentation value, damaged starch, whiteness, water absorption rate, ash content
8	Aquatic Feed	protein, ash content, moisture, calcium, phosphorus fat, TVN

The list above is only for example. Due to the differences in target composition, growing location and season, variety of species, it is often required to adjust or re-build the calibrations for specific customer needs. IAS provides customized modeling (or new calibration adjust and development) services. IAS-3120 is also capable of measuring samples in larger grains but it often requires manual re-loading and mixing to achieve best results after averaging of multiple measurements.

Technical parameters:

Items	Index	Items	Index
Test target	Optimized for samples in powder or fine granule form	Sample cup	350ml
Wavelength Range	850-1650nm	Resolution	10nm
S/N Ratio	5000:1	Wavelength Accuracy	±0.5nm
Light Source Life Time	>10000h	Humidity	5-85%
Temperature	5-45°C	Battery Life	>3h
Power Supply Voltage	DC 24V	Weight (battery excluded)	< 10kg

Sales package contents:

- ① NIR Spectrometer
- ② Power adaptor
- ③ IP65 protection, fully sealed, 1 set of sample cup
- ④ Cleaning tool set 1
- ⑤ Operation manual 1
- ⑥ Wireless network adaptor 1
- ⑦ Setup and configuration tool

Warranty term:

- One year of warranty for the spectrometer after the installation. All repaired or replaced parts are extended to one more year of warranty.