

## NIR DW-EXPEC1370

### Near-infrared Spectroscopy

#### Introduction

Based on near infrared diffuse reflectance spectroscopy technology, the DW-EXPEC1370 analyzer is particularly suitable for use in laboratories of the grain and oil processing and feed industries for accurate and rapid testing of raw materials, processes and finished product quality thanks to its accuracy and speed, simultaneous detection of multi-component indicators and ease of operation.



#### Measuring accessory

Ø100 sample tray, Ø100 special sample tray (shallow tray for powder samples), sample gland, dustpan, scraper, brush



#### Features

- 1. Suitable for a wide range of sample types, such as granules, flakes, powders, pastes, etc.
- 2. Customized sample trays for special samples, e.g. fertilizer, asphalt
- 3. Easy loading, flattening of granular samples and scraping of powder samples
- 4. Sample tray is easy to clean and can effectively prevent cross contamination
- 5. Rotation of the sample tray to improve the representativeness and accuracy of the measurement of inhomogeneous samples
- 6. Fast analysis of multiple components such as moisture, crude fat, crude protein, crude fiber, crude ash, etc. within 10 seconds
- 7. Advanced grating technology and indium gallium arsenide detector for excellent signal-to-noise ratio
- 8. Instrument built-in standard substance, with automatic diagnosis and fault prompt function
- 9. Auto-collimation module design is adopted for the light source that light source replacement can be achieved easily without the need for adjustment
- 10. Software applicable to different management permissions



Place the sample tray



Change the light

## Specifications

Host size	(403 x 391 x 373.5) mm
Weight	20 kg
Applicable samples	Grain and feed, Fertilizer products
Sample status	Solids such as granules and powders
Assay method	Diffuse reflection
Light source	Tungsten halogen lamp
Light source power	5 V/ 10 W
Detector	TEC refrigerated and temperature-controlled indium gallium arsenide (InGaAs) detector
Wavelength range	( 1000~ 1800) nm & ( 1000~2500nm optional)
Wavelength accuracy	±0.2 nm
Wavelength repeatability	<0.01 nm
Spectral resolution	( 10.95±0.3) nm@1529.5nm
Absorbance noise	<50uA
Stray light	<0.15%
Scanning speed	5 times/s
Analysis time	<30 s
Preheating time	30 min
Power supply	(220±20) V~/50Hz
Communication interface	USB 2.0
Environmental temperature	(5~35)°C
Environmental humidity	(5%~85%) RH, non-condensing