

NIR DW-EXPEC1330

Near Infrared Spectroscopy Analysis Technology

Introduction

The DW-EXPEC1330 instrument is easy to operate, non-destructive and fast. Just pour the sample into the sample cup and place it on the rotating test table for measurement. After 3 seconds, we can get the multi-component index (such as moisture, crude protein, oil content, etc.) detection data. The analyzer is small size and optional rechargeable battery, which makes it easy to carry around for on-site testing, especially suitable for rapid judgment of sample quality at the acquisition site.

Detection Accessories



Reference box



Sample plate



Features

1. Removable
2. Fast analysis, results within 3 seconds
3. Start Sample detection after 5 minutes of warm-up
4. Optional rechargeable battery, power supply over 8 hours
5. Sample without crushing, direct detection
6. Sample loading is easy and fast, pour the sample into the sample cup, and it can be detected when it exceeds half the height of the cup
7. Simultaneous detection of multiple quality indicators: such as moisture, crude protein, oil content, etc.
8. Daily detection without consumables
9. Low power consumption, power less than 25W
10. Suitable for a variety of sample states, such as granules, strips and powders
11. High accuracy of analysis results
12. Analysis results can be calibrated using standard samples

Applications



wheat



corn



soybeans



paddy

Specifications

Instrument size (L*W*H)	(300x 220x 310) mm
Weight	About 10kg (without batteries)
Analysis sample	Grain
Sample status	Granules, powders and strip solids
Sample capacity	About 200ml
Detection form	Diffuse reflection
Light source	Tungsten halide lamp
Light source power	5V 10W
Detector	TEC refrigerated and temperature-controlled indium gallium arsenide (InGaAs) detector
Preheating time	5 minutes
Power supply	DC 12V adapter or DC 24V adapter (for use with batteries)
Expansion connection	USB2.0 or Bluetooth
Ambient temperature	(5-40)°C
Ambient humidity	(5%-85%) RH, no condensation
Wavelength range	1000-1800nm
Absorbance noise	<50uA
Wavelength accuracy	±0.2nm
Wavelength repeatability	< 0.01 nm
Spectral resolution	(10.95±0.3) nm@1529.5nm
Stray light	< 0.15%