

# **NIR DW-EXPEC1350 Near-infrared Spectroscopy**

### Introduction

DW-EXPEC1350 Analyzer is a universal mobile portable analyzer with a compact size, built-in rechargeable battery, mass storage device and LCD module. Through different measuring accessories, it enables non-destructive rapid testing of some physical and chemical components in particle, powder and liquid samples, which is widely used in inspection of textile fiber and food quality, as well as scientific research.



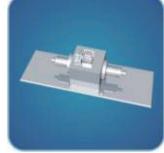
**DW-EXPEC1350** analyzer (with diffuse reflection probe)



Light source plane diffuse reflection probe



**Optical fiber diffuse** reflection probe



**Cuvette rack** 

### Measuring accessories

It provides a variety of measurement methods by connecting different types of probes and accessories.

- The light source plane diffuse reflection probe supports diffuse reflection detection mode, and sample testing of flake, particle, paste and powder, such as the non-destructive testing of cloth, fruits, grains, plastics, papers and tobaccos.
- Optical fiber diffuse reflection probe supports diffuse reflection and transflection detection modes. The former one is applicable to single-grain sample testing, such as non-destructive testing of small fruit products and on-site testing of meat. The other is for transparent liquid sample testing, including on-site testing of edible oil and fuel oil.
- The cuvette rack supports transmission detection mode, which is mainly used in liquid sample testing.

Annex name	Light source plane diffuse reflection probe	Optical fiber diffuse reflection probe		Cuvette rack
Test sample type	Cloth, solid particles or powder	Liquid (such as edible oil)	Single-grain seed, western medicine, plastic particle	Liquid, such as gasoline, wine, etc
Spot diameter	30mm	5mm	5mm	5mm
Optical path	1	2 /5 /10mm	/	2 /5 /10 / 50mm



#### Features

- 1. Stable and reliable portable solution
- 2. Abundant measuring accessories for different samples, ensuring easy probe replacement
- 3. Fast analysis speed, to detect multiple indicators simultaneously within 30 seconds
- 4. High measurement accuracy, close to the laboratory routine analysis
- 5. Completely non-destructive rapid testing of on-site samples
- 6. Built-in standard substance, with automatic diagnosis and fault prompt function

7. accuracy

- 8. Built-in mass storage device, to store analysis data and spectra
- 9. Built-in USB interface, to directly transfer data to the computer
- 10. RIMP software, to upload/download data and output analysis report
- 11. Software applicable to different management permissions
- 12. Easy to operate, even for non-technicians
- 13. Multiple power supply modes: DC 19V and built-in lithium battery
- 14. Small size, light weight (only 6kg)





## Specifications

(355 ×278 × 117) mm		
<6 kg		
Solid and liquid samples, with various probes available		
Diffuse reflection and transflection detection		
Internal light source of 5V/5W; external light source of 5V/10W		
> 5000 hours		
TEC refrigerated and temperature-controlled indium gallium arsenide (InGaAs) detector		
USB2.0		
DC 19V adapter or built-in lithium battery (lifetime: up to 8 hours)		
1000-1800nm		
<50uA		
±0.2nm		
<0.01nm		
(10.95±0.3) nm@1529.5nm		
<0.15%		
< 30 seconds		
Group 16		
6		
Article 320		
4000		

