

# Grain Analyzer

## ATP3500

### Feature

- High-performance NIR spectrometer with DMD ( Digital Micro-mirror Device ) technology
- Large 25mm-diameter light aperture ensures fast and repeatable measurement
- Bottom-illuminated sample cup suitable for various sample forms-solid, paste, powder, and liquid
- Rich selection of accessories and optional disposable sample cups support various application conditions.
- Built-in lithium battery (optional) enables fast and easy on-site analysis and portable applications.
- Durable full-metal body construction and carry handle

### Application

- Flour, feed,meat and poultry
- Oil extraction by-products analysis
- Biotechnology process control, etc

### Description

ATP3500 is self developed the global best grain analyzer including mature hardware and software. It is a NIR analytical solution to measure moisture, protein, fat/oil, ash and other quality parameters in Grains, Cereals, Oilseeds and Flour.

With highly versatile near-infrared spectrometer capable of analyzing various sample forms ( granular solid, powder, paste, liquid, etc ) with multiple parameters such as moisture, protein, fat, ash, starch and fiber within very short time. The measurement is non-intrusive and requires no sample preparation.

Users have access to a rich set of existing calibrations available from manufacturer or they can easily build own calibration with easy-to-use software tools and technical support.



## 1. Parameters

Item	Description
Sample fons	Small partcle, powder, paste, liqud, plate sample
Wavelength range	950-1650nm
Wavelength accuracy	<1nm
Wavelength repeatability	<0.05nm
S/N ratio	10000:10 Average of 128 times
Light absorbance repeatability	<0.0003AU
Light source	Tungsten halogen lamp. life span 10000h
Light spot diameter	25mm
Sample cup volume	350ml
Operation system	Linux
Additional software	TISO Analysis software, callbration bulding software
Weight	<5kg
Working temperature	5-40°C
Working time on battery	>3H
Power supply	24V/3A