



MONET-Rf

FT-NIR ANALYZER

Innovative Leading Technology Ensures Precise Analysis

Patented interferometer technology significantly enhances the device's resistance to interference, delivering high-precision test results, reducing the frequency of failures, and ensuring stable performance. The highly sensitive InGaAs detector provides full-spectrum linear response, guaranteeing optimal accuracy and reproducibility.

Full-Spectrum Ultra-Wide Wavelength Range for Comprehensive Feed Industry Sample Coverage

The MONET-Rf Fourier Transform Near-Infrared (FT-NIR) Analyzer, with a wavelength range of 833-2597 nm, fully captures the vibrational absorption information of chemical bonds such as N-H, S-H, C-H, and C=O. It effectively meets the testing needs of diverse samples and parameters in the feed industry.

Professional Software Configuration for Informed Decision-Making

The analysis software is user-friendly yet powerful, enabling one-click testing of multiple parameters with a tiered management design to ensure data security. The modeling software offers robust capabilities for model creation, evaluation, optimization, and maintenance, allowing users to quickly and easily develop professional near-infrared quantitative analysis models.

One Device,
A Professional
Laboratory

Applications

Industry	Testing Category	Testing Parameters
Feed-Related Industry	Feed Raw Materials and Finished Products, Pet Food Raw Materials and Finished Products, Livestock Forage, etc.	Moisture, protein, fat, fiber, ash, calcium, phosphorus, salt, acid detergent fiber (ADF), neutral detergent fiber (NDF), protein solubility (KOH), starch, acid value, freshness (VBN), and 18 types of amino acids.
Grain, oil, and breeding-related industries	Soybeans, rapeseed, wheat, peanuts, and corn, among others.	Moisture, protein, fat, fiber, ash, etc.

Advantages



833-2597 nm Full-Spectrum Range: Offers rapid analysis, detecting multiple component parameters simultaneously in under one minute.



User-Friendly Software Interface: Seamlessly integrates instrument control, data processing, and modeling, enabling efficient data collection, processing, and evaluation.



Integrating Sphere Diffuse Reflection Technology: Features a rotatable and translatable sample stage, significantly expanding the sampling area to ensure representative and reproducible spectral data.



Exceptionally Long Light Source Lifespan: Meets the demands of daily customer use.



Built-In Unique Reference Material: Automatically performs reference calibration and wavelength monitoring, ensuring wavelength accuracy and stable measurement results.



Pre-Aligned Consumables Design: Light sources, desiccant tubes, and other consumables can be quickly replaced.



Versatile Sample Cup Options and Accessories: Accommodates testing of samples in various physical forms.

Product Technical Parameters

Parameter	Description	Parameter	Description
Wavelength range	833-2597nm	Scan Speed	1 minute (adjustable)
Instrument Principle	Fourier Transform(FT)	Protection Rating	IP54
Detector	InGaAs Detector	Dimensions	L:405mm/W:330mm/H:290mm
Spectral Resolution	4 cm ⁻¹	Weight	30kg
Wavenumber Accuracy	Better than 0.05 cm ⁻¹	Power Supply	AC220V 50HZ
Wavenumber Repeatability	Better than 0.006cm ⁻¹	Operating Temperature / Relative Humidity	5-35°C/ < RH80%
Absorbance Accuracy	Better than 0.1% T	Warm-Up Time	None, ready upon startup

*1-year warranty for the entire unit, 10-year warranty for the interferometer and laser source.