NIR Spectroscopy Analysis Modeling Software System

Features

- The software supports modeling and various algorithm processing.
- The software can directly measure the concentration of samples and supports multiple concentration units.
- High compatibility, compatible with all of the company's near-infrared quantitative instruments.
- Compatible with near-infrared spectra from other brands.
- Works with the company's online near-infrared instruments to detect substances.
- The software supports customized design.
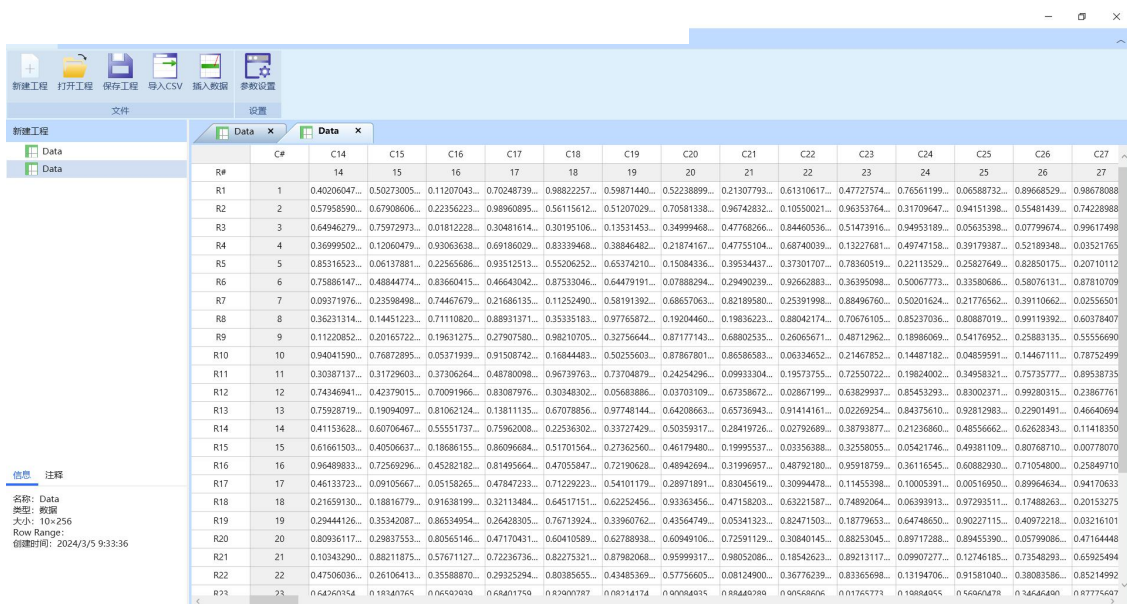- Simple operation and convenient measurement.

Application

- Food industry:Food Safety；food analysis;food quality;beverage
- Chemical industry
- Biomedical field：biopharma
- Life Science：Agriculture sector
- Environmental science ： Environmental Monitoring
- Material science : Textile industry
- Energy：Organic chemical industry
- Biochemical industry
- Petrochemical industry ： Oil, Mining
- Industrial Analysis : Polymer chemical industry

Description

IRMAS is a near-infrared modeling and analysis system designed to facilitate quantitative testing and analysis according to customers' specific needs. The software supports both multivariable and univariable modeling, and offers simple and convenient operation. It is compatible with online near-infrared instruments and all quantitative near-infrared instruments produced by the company, and it also supports customized design.
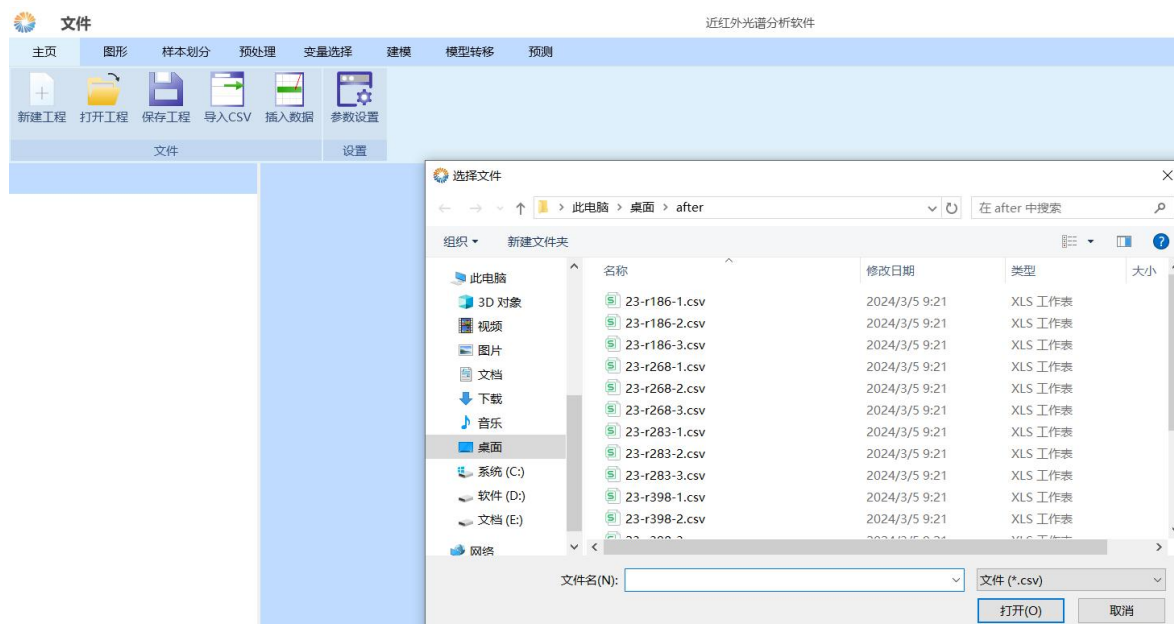
IRMAS features a user-friendly interface and provides measurement results along with various functions such as data storage and export. These capabilities further enhance the range of applications and scenarios for the instruments.

1

1. IRMAS Application Methods

1.1 Importing Data

The instrument supports importing data in various formats, such as CSV. After importing, the data can be processed with sample division, preprocessing, variable selection, and other treatments.

1.2 Preprocessing
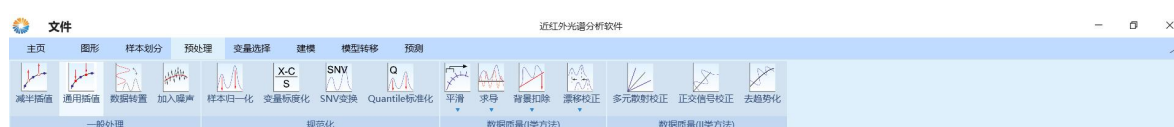
Preprocessing includes various treatments such as halving interpolation, general interpolation, and data transposition. Different sample data require different sample processing methods.

1.3 Variable Selection

Perform variable adjustments on the sample data, such as weighted processing and stepwise regression.

1.4 Modeling

The instrument supports various modeling methods, such as principal component analysis and least squares method.

1.5 Importing Models
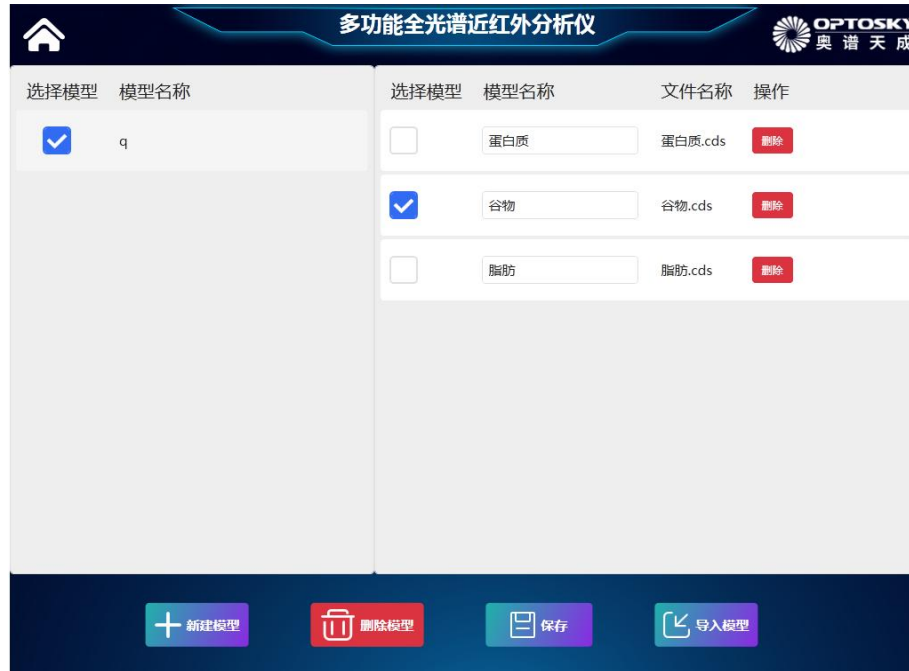
Models built with our modeling software can be imported into our multifunctional full-spectrum near-infrared analyzer for sample measurement.

Product data information is current as of publication data. Products conform to specifications per the terms of Optosky Standard warranty.

3

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After importing the model, the composition of the sample can be predicted.

2.IRMAS Specifications

Detection Probe		
1	Operating System	Windows10、11
2	Modes	Modeling
3	Compatible Instruments	Optosky NIR spectrometer, other company NIR products
4	Others	Supports user customization