

Introduction to RESULT Software

for RESULT version 3 software



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Chapter 1 Introduction

Congratulations on your purchase of Thermo Scientific RESULT™ software! RESULT software is a dedicated analysis program for industrial analyzers including the Antaris FT-NIR analyzers, the Antaris Target Series analyzers, and the Antaris IGS (Industrial Gas System).

RESULT software is designed to work hand-in-hand with the Thermo Scientific TQ Analyst™ method development software for seamless method creation and design. RESULT software is also compatible with other method development software packages used in the industry.

This manual is a guide to learning RESULT software. It explains where to find information about each RESULT application, including detailed descriptions of all the software commands and features, as well as information about the administrative features of RESULT software and the links to TQ Analyst and other method development software.

Chapter 2 How to Learn RESULT

This document explains where to go for information about RESULT software.

You can find additional information about RESULT software in the main user guide that came with your analyzer. The analyzer user guide also demonstrates the diagnostic features of RESULT that can be used to evaluate instrument performance.

For basic information about RESULT Integration, the development application for RESULT, read “Getting Started Using RESULT Software” and the “RESULT Integration Software User Guide.” For information about RESULT Operation, the sample analysis application for RESULT, read the “RESULT Operation Software User Guide.” For information about the RESULT Data View application for viewing sequence data files, see the “RESULT Data View Software User Guide.” For reference information about the development tools in RESULT Integration software, see “Workflow Events and Specifications.” To learn about the administrative features of RESULT software, see “RESULT Software Administration.” For information about using RESULT to collect and view calibration standards and build an analytical method, see “Tools for Building Methods and Viewing Spectra” in the “RESULT Integration Software User Guide.”

Manual set content

The documents in this manual set are described briefly below.

- **RESULT Integration Software User Guide.** This manual describes RESULT Integration software, including the sequence module for collecting a series of spectra over a specified period. RESULT Integration is the development application for RESULT software. The manual also covers the software’s integrated features for use with the Thermo Scientific TQ Analyst method development software, and explains how to use RESULT with other compatible method development applications.
- **RESULT Operation Software User Guide.** This manual explains RESULT Operation software. RESULT Operation is the production application for RESULT, featuring an intuitive, easy-to-use graphical interface for routine sample analysis.

- **RESULT Data View Software User Guide.** Read this manual to learn how to use the RESULT Data View application to interact with sequence data collected with RESULT software. The manual provides an overview of the menus and toolbars that appear in the application's main window and a detailed description of each software command and feature.
- **Workflow Events and Specifications.** This manual details the workflow events and workflow specifications available in RESULT Integration software for creating a custom analysis.
- **Software Administration.** This manual describes the administrative and security features of RESULT software.
- **Glossary.** Use the glossary to look up definitions for terms and abbreviations used in your manual set. References to terms defined in the glossary appear in *italic* type.

Conventions used in these documents

The following conventions are used in this manual set to draw your attention to important information.

Note Notes contain helpful supplementary information. ▲

Tip Messages like this contain a list of tips for using the feature being discussed. ▲

Notice Follow instructions labeled "Notice" to avoid damaging the system hardware or losing data. ▲

Chapter 3 **Questions or Concerns**

In case of emergency, follow the procedures established by your facility. If you have questions or concerns about safety or need assistance with operation, repairs or replacement parts, you can contact our sales or service representative in your area or use the information at the beginning of this document to contact us.

Chapter 4 About RESULT Software

RESULT is a dedicated analysis software package for industrial analyzers. RESULT is comprised of the following software applications:

- **RESULT Operation software** is an intuitive, easy-to-use graphical interface for routine sample analysis. The application uses the security features of the Microsoft® Windows® operating system, including user passwords, logons and digital signatures, to secure the system for routine operation. The software is compatible with standard readers and web browsers, allowing easy viewing of spectra, reports and instructions and complies with regulatory and validation requirements for production pharmaceutical, chemical, gas, and polymer analyses.
- **RESULT Integration software** is a sophisticated yet easy-to-use development package for setting up controlled operating environments for routine sample analysis. The application allows an analyst to integrate quantitative, qualitative, and spectral measurement methods with simple data collection, archiving, and reporting routines to create a custom analysis without the use of complicated programming or macro coding. The application includes features for generating custom reports and for attaching instructions or a standard operating procedure (SOP) to an analysis. The software's data simulation features allow the developer to create and test methods on non-production systems. After a process has been defined and tested, it can be secured and then transferred from system to system for accurate, repeatable analysis results.
- **RESULT Data View software** is a tool for viewing sequence data files. It is a companion to the RESULT sequence module, which allows real-time data collection and analysis for time-based experiments. You can use the Data View application to display sequence spectra as well as the measured concentration values or other analysis results. The analytical data are presented on a time axis; selecting a data point displays the corresponding spectrum.

Note RESULT software may be combined with Thermo Scientific Security Administration software, a Windows-based security application, for additional security features. ▲

RESULT software is designed to work hand-in-hand with the Thermo Scientific TQ Analyst™ method development software for seamless method creation and design. TQ Analyst software is a sophisticated yet easy to use package for developing analytical methods for mid-infrared, near-infrared and other spectroscopic applications. The software's extensive on-line help system, including training aids, context-sensitive help, and multiple wizards, helps you learn the software and understand the method applications.

RESULT software is also compatible with other method development software packages used in the industry including:

- Thermo Scientific PLSplus/IQ™ method development software for GRAMS/32® AI.
- The Unscrambler® method development software from Camo Software AS.
- Pirouette® method development software from Infometrix, Inc.

Note Please refer to the release notes for RESULT software (located on your RESULT software disk) for information about the versions numbers for these software packages that are compatible with TQ Analyst and RESULT software. ▲

Chapter 5 For More Information

Additional information about RESULT software is provided elsewhere in this and other documents in your system manual set. A brief summary of this information is provided below.

Installing Your Software – See this guide if you have questions about installing RESULT software and setting up networking services. The document also covers installing optional software modules that can be purchased with RESULT such as the TQ Analyst method development software, the ValPro qualification package, and the sequence module.

Release Notes – Your software disks contain release notes for each software application. The release notes contain late-breaking news and helpful troubleshooting information for each software release. Look for the release note files in the Documents folder on your software disks.

Antaris User Guides – Review the sampling information in your main analyzer user guide for detailed information about using RESULT software to collect data with your instrument. The instrument user guides include tips on creating a custom analysis for your analyzer and explain some common problems with spectral data.

Getting Started using RESULT Software – This document provides an overview of system operation for first time users.

Computer Requirements for Instruments Controlled by RESULT Software – This document defines the computer and software requirements for Antaris instruments controlled by RESULT software.

Technical bulletins, application notes, training classes and newsletters provide more learning opportunities. See one of our technical support representatives for details.

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