

Nicolet iS5 Spectrometer Fast Facts



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FAQs and Maintenance

Q: Where can I find information about my system?

A: Information is available in print and electronic format. For example, your ISO certificate is in the documentation binder. Safety information is on the documentation disk. Spectrometer information is in Spectrometer Help Topics in the OMNIC software Help menu.

Q: How often should I align my spectrometer?

A: Align if energy throughput decreases or once a month. To align, run Performance Verification (PV) or, from OMNIC software, choose **Collect > Experiment Setup > Diagnostic** and click **Align**.

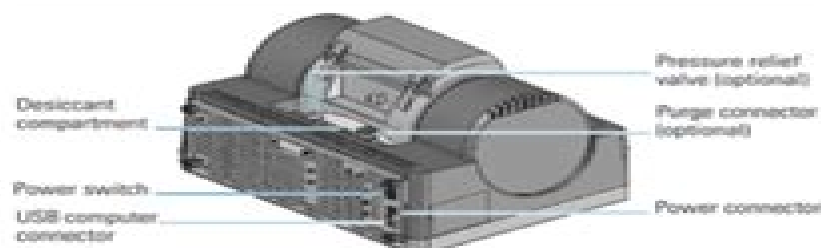
Q: Where can I find information about changing the source, desiccant and power supply for my spectrometer?

A: This information is in Spectrometer Help Topics and in the spectrometer user guide on your documentation disk.

Q: Where can I find information about my ATR Crystal?

A: The packing insert that came with the accessory has information about the crystal. A PDF version is also on your documentation disk.

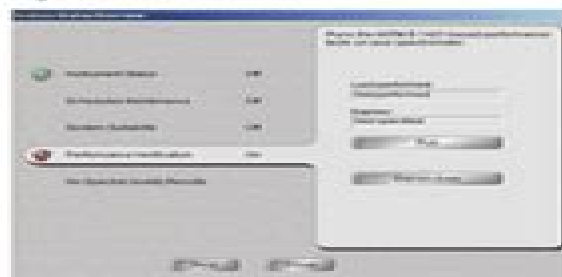
Spectrometer Features



Performance Verification (PV)

We recommend that the Performance Verification test is run once a month. To run the test, click the Green Shield in the OMNIC main window, select **Performance Verification**, and then click **Run**.

Performance Verification checks the system, performs an alignment and checks the laser calibration. This test does not need a sample or any accessories installed.



The System Status icon indicates the current state of the system and the results of any performance tests:



Green Shield indicates that all subsystems are operating within specification and all performance tests passed.



Yellow Shield indicates that the system identified a minor problem, which should be viewed to determine the possible effects on the quality of the data collected.



Red Shield warns that the system is out of specification or a sub-system failed. It can also indicate that the last performance test did not meet specifications.

Nicolet Ir Spectrometer User Guide

TD Snyder



Nicolet Ir Spectrometer User Guide:

Fundamentals of Infrared and Visible Detector Operation and Testing John David Vincent, Steve Hodges, John Vampola, Mark Stegall, Greg Pierce, 2015-11-09 Presents a comprehensive introduction to the selection operation and testing of infrared devices including a description of modern detector assemblies and their operation This book discusses how to use and test infrared and visible detectors The book provides a convenient reference for those entering the field of IR detector design test or use those who work in the peripheral areas and those who teach and train others in the field Chapter 1 contains introductory material Radiometry is covered in Chapter 2 The author examines Thermal detectors in Chapter 3 the Classical photon detectors simple photoconductors and photovoltaics in Chapter 4 and Modern Photon Detectors in Chapter 5 Chapters 6 through 8 consider respectively individual elements and small arrays of elements the readouts ROICs used with large imaging arrays and Electronics for FPA Operation and Testing The Test Set and The Testing Process are analyzed in Chapters 9 and 10 with emphasis on uncertainty and trouble shooting Chapters 11 through 15 discuss related skills such as Uncertainty Cryogenics Vacuum Optics and the use of Fourier Transforms in the detector business Some highlights of this new edition are that it Discusses radiometric nomenclature and calculations detector mechanisms the associated electronics how these devices are tested and real life effects and problems Examines new tools in Infrared detector operations specifically selection and use of ROICs electronics for FPA operation operation of single element and very small FPAs microbolometers and multi color FPAs Contains five chapters with frequently sought after information on related subjects such as uncertainty optics cryogenics vacuum and the use of Fourier mathematics for detector analyses Fundamentals of Infrared and Visible Detector Operation and Testing Second Edition provides the background and vocabulary necessary to help readers understand the selection operation and testing of modern infrared devices *ENVI User's Guide*, 2003

Practical Guide to Infrared Microspectroscopy Howard J. Humecki, 1995-01-23 This work represents a sound introduction to the fundamental principles of infrared microspectroscopy IMS It describes how IMS is used to solve specific microanalytical problems in a variety of disciplines including forensic analysis art conservation and geological pharmaceutical and electronics research The book discusses when and how to use special techniques such as line scanning 3 dimensional imaging and attenuated total reflection and grazing angle spectroscopy **A Complete Model of the Infrared Dielectric Function of a Low-density Silica Aerogel** Bobby Wing Shun Lau, 2004 [Coatings Technology Handbook](#) Arthur A. Tracton, 2005-07-28 Serving as an all in one guide to the entire field of coatings technology this encyclopedic reference covers a diverse range of topics including basic concepts coating types materials processes testing and applications summarizing both the latest developments and standard coatings methods Take advantage of the insights and experience of over **Coatings Technology Handbook, Second Edition** D. Satas, Arthur A. Tracton, 2000-11-01 Serving as an all in one guide to the entire field of coatings technology this encyclopedic reference covers a diverse range of topics

including basic concepts coating types materials processes testing and applications and summarizes the latest developments and standard coating methods Helping readers apply the best coatings for their product needs the book provides the insights and experience of over 100 recognized experts in over 100 chapters to select Emphasizing an interdisciplinary exchange of ideas and approaches the book is illustrated with more than 350 drawings and photographs plus early 1400 literature references equations and tables

Vibrational Spectroscopy of Biological and Polymeric Materials Vasilis G. Gregoriou, Mark S. Braiman, 2005-11-14 Used primarily for characterizing polymers and biological systems vibrational spectroscopy continues to uncover structural information pertinent to a growing number of applications Vibrational Spectroscopy of Biological and Polymeric Materials compiles the latest developments in advanced infrared and Raman spectroscopic techniques that are

Fourier Transform Infrared Spectra John R. Ferraro, Louis J. Basile, 2012-12-02 The final and largest volume to complete this four volume treatise is published in response to the intense commercial and research interest in Fourier Transform Interferometry Presenting current information from leading experts in the field Volume 4 introduces new information on for example applications of Diffuse Reflectance Spectroscopy in the Far Infrared Region The editors place emphasis on surface studies and address advances in Capillary Gas Chromatography Fourier Transform Interferometry Volume 4 especially benefits spectroscopists and physicists as well as researchers in physical analytical and surface chemistry

FROM THE PREFACE Several reasons can be cited for the need to publish Volume 4 in this treatise First interest in Fourier transform interferometry FT IR has continued The number of commercial manufacturers of FT IR instrumentation has increased reflecting the increase in demand for such instrumentation The main thrust in FT IR instrumentation has focused on applications and many techniques using FT IR instrumentation have been generated in order to solve problems heretofore unsolvable The interest in surfaces relative to catalysts polymers and electrical conductors has escalated Three chapters in Volume 4 are devoted to surfaces Second the great acceptance of Volumes 1 through 3 and the demand to continue the treatise have induced us to publish Volume 4 The present volume contains nine chapters making it the largest of the four volumes Chapter 1 deals with infrared data processing techniques Chapter 2 concerns itself with circular dichroism b1FT IR Chapter 3 presents an update on GC b1FT IR a rapidly moving field Chapter 4 deals with the combination of FT IR and thermal analysis Advances in coal analyses using FT IR are presented in Chapter 5 Reflectance studies are highlighted in Chapters 6 7 and 8 Chapter 6 deals with structural characterizations made with Langmuir b1Blodgett monolayers Also in Chapter 6 the extension of DRIFT into the far infrared region is shown to be feasible and valuable Reflection b1absorption surface studies FT IRRAS are discussed in Chapter 8 Chapter 9 updates us on photoacoustic spectroscopy b1FT IR All of the contributions are made by working experts in these areas It is the hope that Volume 4 continues in the spirit of the purpose of these volumes namely to keep the scientific communities abreast of new developments in FT IR as applied to chemical systems

Handbook of Near-Infrared Analysis Donald A. Burns, Emil W.

Ciurczak,2007-09-07 Fast inexpensive and easy to use near infrared NIR spectroscopy can be used to analyze small samples of virtually any composition The Handbook of Near Infrared Analysis Third Edition explains how to perform accurate as well as time and cost effective analyses across a growing spectrum of disciplines Presenting nearly 50% new and re **Infrared and Raman Characteristic Group Frequencies** George Socrates,2004-06-18 The third edition of this highly successful manual is not only a revised text but has been extended to meet the interpretive needs of Raman users as well as those working in the IR region The result is a uniquely practical comprehensive and detailed source for spectral interpretation Combining in one volume the correlation charts and tables for spectral interpretation for these two complementary techniques this book will be of great benefit to those using or considering either technique In addition to the new Raman coverage the new edition offers new section on macromolecules including synthetic polymers and biomolecules expansion of the section on NIR near infrared region to reflect recent growth in this area extended chapter on inorganic compounds including minerals and glasses redrawn and updated charts plus a number of new charts covering data new to this edition This new edition will be invaluable in every industrial university government and hospital laboratory where infrared FT IR and Raman spectral data need to be analysed **Spectroscopic Methods in Food Analysis** Adriana S. Franca,Leo M.L. Nollet,2017-12-14 Given the inherent complexity of food products most instrumental techniques employed for quality and authenticity evaluation e g chromatographic methods are time demanding expensive and involve a considerable amount of manual labor Therefore there has been an increasing interest in simpler faster and reliable analytical methods for assessing food quality attributes Spectroscopic Methods in Food Analysis presents the basic concepts of spectroscopic methods together with a discussion on the most important applications in food analysis The determination of product quality and authenticity and the detection of adulteration are major issues in the food industry causing concern among consumers and special attention among food manufacturers As such this book explains why spectroscopic methods have been extensively employed to the analysis of food products as they often require minimal or no sample preparation provide rapid and on line analysis and have the potential to run multiple tests on a single sample i e non destructive This book consists of concepts related to food quality and authenticity that are quite broad given the different demands of the manufacturer the consumer the surveillance and the legislative bodies that ultimately provide healthy and safe products *Analytical Instrumentation Handbook, Second Edition* Galen Wood Ewing,1997-08-29 Intended for both the novice and professional this text aims to approach problems with currently available tools and methods in the modern analytical chemistry domain It covers all fields from basic theory and principles of analytical chemistry to instrumentation classification design and purchasing This edition includes information on X ray methods and analysis capillary electrophoresis infrared and Raman technique comparisons and more **A Guide to Undergraduate Science Course and Laboratory Improvements** National Science Foundation (U.S.). Directorate for Science Education,1979 **Florida Scientist** ,1995 *Handbook of Vibrational Spectroscopy* John

M. Chalmers, Peter R. Griffiths, 2002 Coatings Technology Arthur A. Tracton, 2006-11-07 Drawn from the third edition of The Coatings Technology Handbook this book focuses entirely on testing experimental design and strategies for selecting processing techniques in the coatings adhesives paints and inks industries Coatings Technology Fundamentals Testing and Processing Techniques contains the latest coating and processing methods Microscopy and Analysis, 2004 **Research & Development**, 1997 Fourier Transform Infrared Characterization of Polymers H. Ishida, 2013-03-09 This book contains the proceedings of the Symposium on FT IR Characterization of Polymers which was held under the auspices of the Division of Polymer Chemistry American Chemical Society ACS during the annual ACS meeting in Philadelphia August 1984 The content of each paper has been substantially extended from the papers presented during the conference Due to the accidental irrecoverable loss of the entire contents of the book by the computer system used for editorial purposes the publication of this book has been delayed more than one year over the initial scheduled date It has been a continuous frustrating experience for the editor as well as for the authors An extended Murphy's law anything can go wrong goes multiply wrong has been demonstrated in editor's office It necessitated otherwise unnecessary repeated proof reading during which time the editor had valuable experience in familiarizing himself with each paper much more than usual The papers in this book are state of the art even after such a delay It is the authors' pride and integrity toward the quality of each paper that makes the value of this book long lasting while responsibility of the loss of any timeliness rests at the editor's hand For the purpose of official records submission and acceptance dates must be stated All papers had been submitted by September 1984 and had been accepted for publication by November 1984 after the critical review processes **Applied Spectroscopy**, 2008

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