CAEN
Tools for Discovery

Quantus

Quantitative Spectrometry Software

Features

- Data acquisition control via detector-MCA setups
- Spectrum analysis through a powerful collection of calculation engines:
  - ROI computations
  - Continuum calculation methods
  - Peak search engines and Peak fitting algorithms
  - Peak qualification methods and automatic ROI location
  - Energy, FWHM and Efficiency calibration methods
  - Activity calculation algorithms
- Radionuclide identification and quantification:
  - Different quantification methods
  - Complete radionuclide library based on NuDat nuclear database
- Additional funtionalities:
  - Multilanguage support
  - Procedures
  - User's Management
  - File Batch Analysis
  - File Explorer
  - QA/QC
  - Efficiency calculation based on full MonteCarlo method (COMING SOON)

Description

Quantus is CAEN high performance software to make Quantitative Spectrometry with Hexagon digital MCA. It is powerful and flexible enough to support an enormous range of sample types and detector geometries, and can analyze any recorded gamma-ray spectrum for radionuclide identification and quantification.

Thanks to its multi-document design, Quantus can manage simultaneous multi-spectrum analyzation as well as multi-detector data acquisition. The advanced Graphical User Interface (GUI) is highly configurable for user needs: it incorporates tools for a wide range of analytical functions such as peak search, continuum subtraction, peak qualification, automatic ROI location, energy calibration with visual interaction, FWHM calibration, efficiency calibration, nuclide identification, and activity calculation; permits visual distinction and marking of ROIs and peaks in the spectrum as well as multiple peak labelling implementation; provides advanced spectrum cursor showing satellite or spectrum artifacts.
Quantus supports high data management and great traceability. All information is saved into XML-formatted files (*.gxml). A spectrum can be imported from other formats like Ortec (*.chn) and Canberra (*.cnf) files, and N42.42 standard as well. The user can customize analysis reports, including fully colored and HTML-formatted tables.

Quantus is a multi-platform software compatible with Windows® and Linux™ operating systems.

Functions

- Data acquisition control via detector-MCA setups
- Spectrum analysis through a powerful collection of calculation engines:
  - ROI computations
  - Continuum calculation methods
  - Peak search engines and Peak fitting algorithms
  - Peak qualification methods and automatic ROI location
  - Energy, FWHM and Efficiency calibration methods
  - Activity calculation algorithms
- Radionuclide identification and quantification:
  - Different quantification methods
  - Complete radionuclide library based on NuDat nuclear database
- Automatic peak search and peak class identification (singlets, multiplets)
- Advanced ROI management with manual and/or automated settings
- Import of spectra from other file-formats
- Procedures
- User’s Management
- File Batch Analysis
- File Explorer
- QA/QC
- Efficiency calculation based on full MonteCarlo method (COMING SOON)

Graphical User Interface

- Visual distinction and marking of ROIs and peaks in the spectrum
- Multiple peak labelling implementation
- Advanced Graphical User Interface (GUI) highly configurable for user needs
- Advanced spectrum cursor showing satellite or spectrum artifacts
- Multi-document design with full data synchronization
- Multi-language support

Format Support

- Great traceability, saving all information into XML-formatted files (*.gxml)

- Import spectrum from other formats. E.g. Ortec (*.chn) and Canberra (*.cnf) files and N42.42 standard as well
- Customizable analysis reports, including fully colored and HTML-formatted tables
- The software is multi-platform and runs seamlessly under MS Windows® or Linux™

Ordering Options

Code	Description
WSWGQAQCXAAA	QA/QC options (includes Procedure and File Browser option)
WSWGQPRFBXAA	Procedure option, File Browser option and File Batch Analysis option
WSWGQUANTALL	Quantus all AddOn options
WSWGQUANX1AA	GQuantus 1ch general purpose Gamma Ray Quantitative Spectrometry software (1ch dongle)
WSWGQUANX2AA	GQuantus 2ch general purpose Gamma Ray Quantitative Spectrometry software (2ch dongle)
WSWGQUSERMXA	User Management option

Related Products

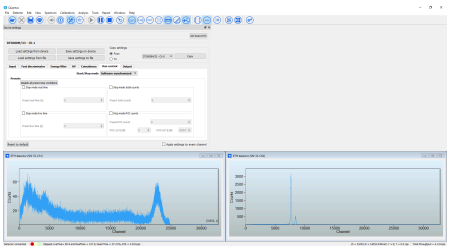
R7795

Unattended Multichannel Analyser (UMCA)

Hexagon

Digital MCA

Gallery



CAEN S.p.A.
Via Vetraia 11
55049 - Viareggio
Italy
Phone +39.0584.388.398
Fax +39.0584.388.959
info@caen.it
www.caen.it

CAEN GmbH
Brunnenweg 9
64331 Weiterstadt, Germany
Phone +49 (0)212.254.4077
Mobile +49 (0)151.16.548.484
info@caen-de.com
www.caen-de.com

CAEN Technologies, Inc.
1 Edgewater Street - Suite 101
Staten Island, NY 10305
USA
Phone +1.718.981.0401
Fax +1.718.556.9185
info@caentechnologies.com
www.caentechnologies.com

CAENspa India Private Limited
B205, BLDG42, B Wing,
Azad Nagar Sangam CHS,
Mhada Layout, Azad Nagar, Andheri West
Mumbai, Maharashtra 400053, India
info@caen-india.in
www.caen-india.in