

Benchtop NMR

Nanalysis-100

Market-leading benchtop NMR resolution and sensitivity



SEE THE DIFFERENCE.

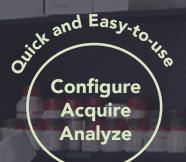
Nanalysis-100

- The highest field strength available on the bench
- Easy-to-site and low-maintenance

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- Customize the use to be as manual or automated as you need for your data acquisition whether it be research or QA/QC
- Advanced features such as phase-sensitive experiments, and pulsed field gradients

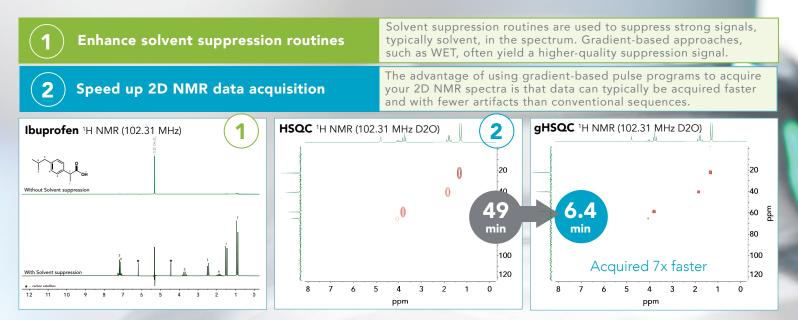
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- > Accurate, precise, repeatable
- > Quick data collection

Pulsed Field Gradients (PFGs)



Example gradient sequences available: WET, 1D-CPMG-filter-WET, gCOSY, gTOCSY, gHSQC, gHSQC-ME, gHMQC, gHMBC

Optional Advanced Software Add-ons

Are you looking for a software package to optimize your analysis? Some examples of optional modules to aid your analysis:

Kinetics – Automatically run scheduled 1D experiments over a set period of time (e.g., reaction monitoring).

Queuing – Set up multiple experiments to be run automatically with or without an autosampler.

Solvent Suppression – A number of optional pulse programs to optimize the suppression of a strong signal (often solvent).

Proton Lock – To allow the user to acquire data without deuterated solvent.

Experiment Designer – Advanced module allowing expert users to design and/or modify their own NMR pulse sequences.

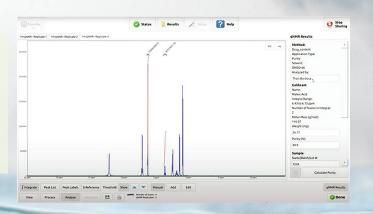
API Access – An application programmatic interface to allow users to create their own applications to interface with the benchtop NMR.

IQ/OQ – Installation Qualification/Operational Qualification to help ensure your instrument is working well and compliant with GxP and regulatory requirements.

qNMR software module

An automated, easy-to-use software

module to allow you to create and edit method to automate routine assays and allow technicians to collect quantitative data effortlessly.



Technical Specifications

Operating Frequency 100 MHz (2.35 T)

Magnet Permanent, no cryogens

User Interface

Built-in touchscreen and optional remote access. Connectable to external computer if desired.

Nuclei

¹H/¹⁹F, ¹H/¹⁹F/¹³C, ¹H/¹⁹F/⁷Li, ¹H/¹⁹F/³¹P Please inquire about custom options

Lock Internal ²H or ¹H

Sample Standard 5 mm NMR tubes

Compatibility

File: JCAMP-DX, and CSV. Software: Mnova, ACD/Labs, Delta, TopSpin, MATLAB, Spinit, NMRFx, etc.

Resolution LW (50%): < 0.5 Hz (0.005 ppm) LW (0.11%): < 20 Hz (0.2 ppm)

Sensitivity > 220:1 dual, > 250:1 single

Stray Field < 2 Gauss line outside the enclosure Operating Temperature 18 – 26 °C

Power Supply 100 – 240 VAC, 50 – 60 Hz

Connectivity Ethernet/WiFi, USB, Serial, HDMI

Dimensions with screen (w x h x d) 17 x 15.25 x 32" 43.2 x 38.74 x 81.28 cm

Screen size and resolution 15.6", 16:9, 1920 x 1080

Weight 243 lbs /110 kg



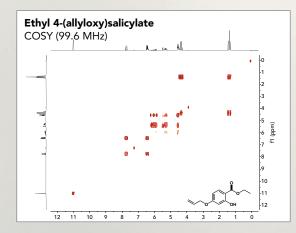
Example Experiments Available

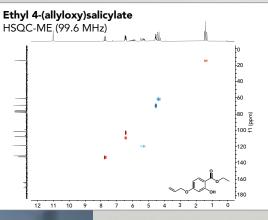
| 1D | HSQC |
|-----------------------|------------------|
| 1D{ ¹ H} | HSQC-ME |
| COSY | НМВС |
| TOCSY | NOESY |
| JRES | ROESY |
| T ₁ | PRESAT |
| T ₂ | NOESY- PRESAT |
| DEPT | DANTE |
| ΑΡΤ | WET |
| HETCOR | Nutation |

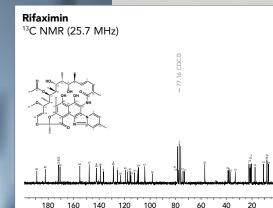
Default experiments are bolded



The flow kit allows easy interconversion of any Nanalysis-100 benchtop NMR spectrometer into an online detector either as a stand-alone tool or in conjunction with other analytical techniques.







* Specifications are subject to change without notice

Connectivity



Quick Access In addition to USB, ethernet, and WiFi connections in the rear; quick access USB ports and the power button are located at front

Innovative Magnet Design Highest field strength available

Sample Access Port 5 mm NMR tubes

Progress Indicator Light to help you monitor the status of your instrument from anywhere within the lab

Ergonomic Display State-of-the-art, external customizable screen for easy data acquisition and processing

nanalysis







Find out more at nanalysis.com I sales@nanalysis.com

Superior Resolution

The highest field on the market, the Nanalysis-100 allows you to extract more information from your spectrum with better peak dispersion and resolution.

Rapid Results

Discover how high-performance benchtop NMR located directly in your lab can improve your productivity!

Low Maintenance

With no required cryogens, these permanent magnet NMR spectrometers can significantly reduce operating expenditures.

Easy-to-Use

The instrument facilitates quick data collection and processing at any level, with an ergonomic display and an easy-to-use software interface.

Configurable

Advanced graphical pulse programming capabilities, the 100 MHz spectrometer allows the user to run experiments exactly as they want.

nanalysis.com