

# **Benchtop NMR**

# Nanalysis-100

Market-leading benchtop NMR resolution and sensitivity



SEE THE DIFFERENCE.

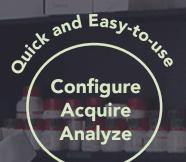
# Nanalysis-100

- 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

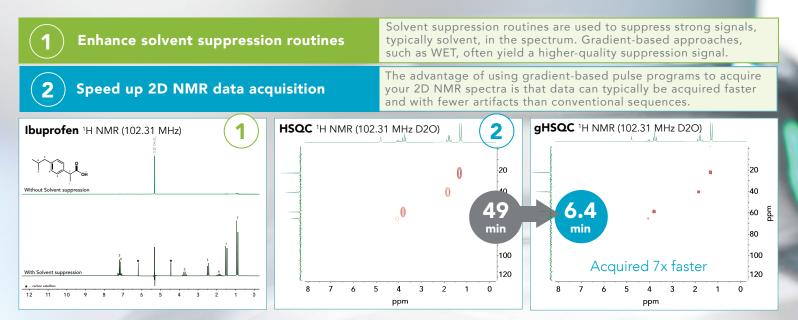
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- > Accurate, precise, repeatable
- > Quick data collection

### **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.

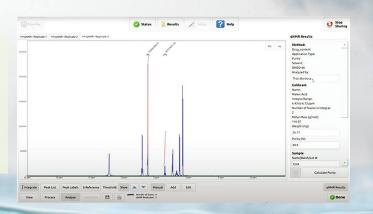
**API Access** – An application programmatic interface to allow users to create their own applications to interface with the benchtop NMR.

**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

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

Lock Internal <sup>2</sup>H or <sup>1</sup>H

**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



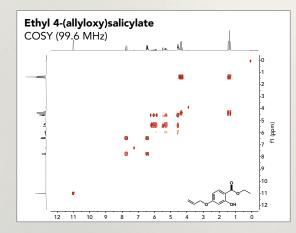
#### Example Experiments Available

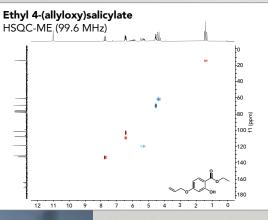
1D	HSQC
1D{ <sup>1</sup> H}	HSQC-ME
COSY	НМВС
TOCSY	NOESY
JRES	ROESY
<b>T</b> <sub>1</sub>	PRESAT
<b>T</b> <sub>2</sub>	NOESY- PRESAT
DEPT	DANTE
ΑΡΤ	WET
HETCOR	Nutation

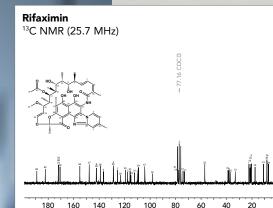
Default experiments are bolded



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.

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