



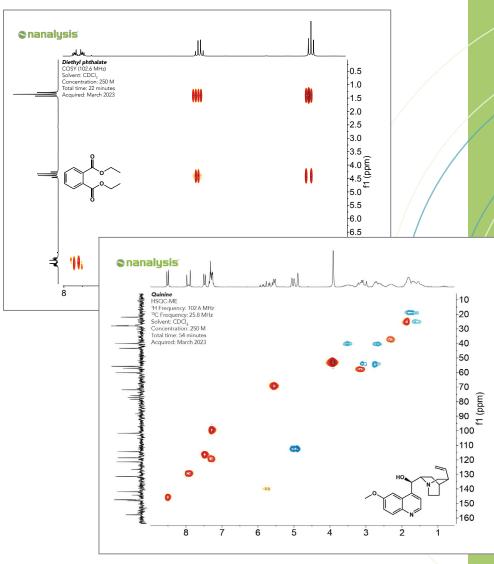
# Powerful Benchtop NMR

# Why Nanalysis 100 MHz?

Easy-to-use, low-maintenance 100 MHz NMR improves productivity with rapid and accurate results. Acquire the NMR experiments you want and receive your results quickly and easily.



Talk to us about your benchtop NMR application I sales@nanalysis.com



**Design Pulse Sequences** 

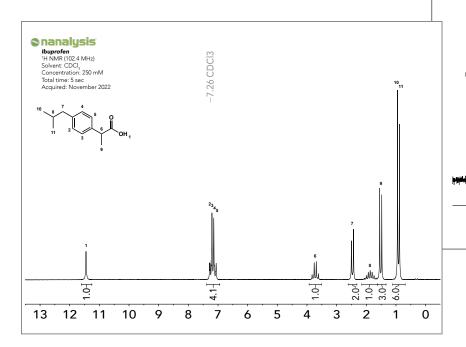
Our advanced SPİNit software allows users to modify existing pulse sequences, or to write their own via an easy-to-use graphical interface that generates pulse programs without requiring the user to learn a coding language.

**Queue Experiments** 

The queuing module allows the user to set up a series of experiments to be acquired automatically (e.g., 1D,  $T_1$ ,  $T_2$ , COSY, TOCSY, JRES, DEPT, HSQC, HMBC, etc.).



Inquire about available nuclei configurations to enhance the utility of the 100 MHz for characterization of a broad range of natural and synthetic complexes. Observe a number of spin active nuclei including: <sup>1</sup>H, <sup>7</sup>Li, <sup>11</sup>B, <sup>13</sup>C, <sup>15</sup>N, <sup>19</sup>F, <sup>23</sup>Na, <sup>31</sup>P, <sup>129</sup>Xe, etc.



#### **Versatile User Interface**

Acquisition parameters are easily modified by the user through the use of the ergonomic touchscree, a keyboard and mouse, or through an external computer.

#### **Load Standard Experiments**

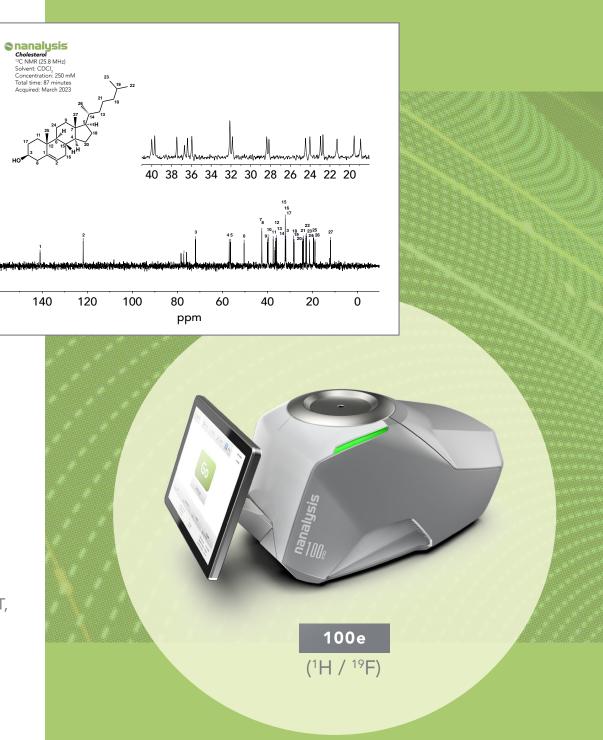
100PRO - e.g., <sup>1</sup>H/<sup>19</sup>F/<sup>13</sup>C, <sup>1</sup>H/<sup>19</sup>F/<sup>31</sup>P

The standard experiments include 1D, 1D $\{^1H\}$ ,  $T_1$ ,  $T_2$ , COSY, JRES, TOCSY, HSQC, DEPT, APT, HETCOR, HMBC, etc.

Please inquire about additional pulse sequences or the experiment designer.

100e - 1H/19F

1D, T<sub>1</sub>, T<sub>2</sub>, COSY, JRES & TOCSY



# **Technical Specifications**







100e





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Operating Frequency 100 MHz (2.35 T)

Magnet

Permanent, no cryogens

User Interface

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

Nuclei

100PRO

e.g., <sup>1</sup>H/<sup>19</sup>F/<sup>13</sup>C, <sup>1</sup>H/<sup>19</sup>F/<sup>31</sup>P
Please inquire about custom options.

100e

<sup>1</sup>H/<sup>19</sup>F

Lock
Internal <sup>2</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%) <0.7 Hz (<0.007 ppm)** 

Sensitivity >220 : 1 (1% Ethylbenzene, 1 scan)

Stray Field

2 Gauss line contained within 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** 

<sup>\*</sup> Specifications are subject to change without notice

### **Available Experiments**

**1D** 

**T**<sub>1</sub>

**T**<sub>2</sub>

COSY

**JRES** 

**HSQC** 

**HSQC-ME** 

**DEPT** 

**APT** 

**HETCOR** 

**TOCSY** 

**NOESY** 

**ROESY** 

**Nutation** 

Add-on packages (kinetics, solvent suppression)

Please inquire about additional pulse sequences or experiment designer.

# Connectivity















Shared Folder Network Printing Remote Control O Live Help O Monitoring O Updates

#### **Innovative Magnet Design**

Highest field available, <2 G outside enclosure

#### **Sample Access Port**

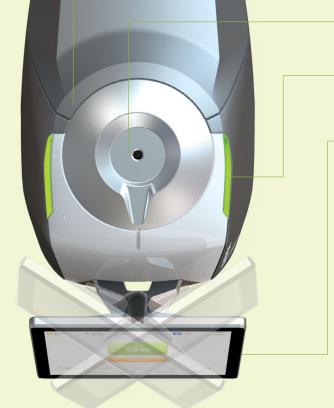
5 mm NMR tubes

#### **Progress Indicator**

Large status light so you know when a scan is finished from across the room

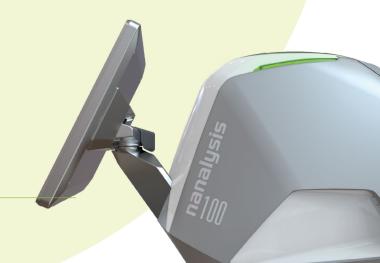
#### **Ergonomic Display**

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



#### **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





### **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.



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



