60 MHz

Accessible. Affordable. Automatable.

Benchtop NMR
System Validation

Nanalysis offers an optional software package for Installation Qualification (IQ) and Operational Qualification (OQ) to meet GxP requirements. Our IQ/OQ protocol provides data quality and integrity assurance in a simple one-click fashion, giving users quick access to a detailed report of spectrometer performance.

Queue Experiments

Our queueing module allows the user to set up a series of experiments to be acquired automatically (e.g., 1D 1H, COSY, HSQC, 1D 13C(1H))
Nanalysis 60 MHz

With the magnet, electronics and computer in a single enclosure, the 60 MHz is the best all-in-one benchtop NMR spectrometer in its class. Compact and high performance benchtop making it resilient to the rigours of a busy laboratory.

Our Flagship Benchtop NMR

Low Maintenance and Easy-to-use

Build-in touchsceen, convenient automated and standby shimming routines ensure that the instrument is always ready for use.

Load Standard Experiments

60PRO – e.g., $^1$H/$^1$C, $^1$H/$^3$P, $^1$H/$^1$F, $^1$H/$^1$B, $^1$F/$^7$Li
The standard experiments include 1D, $T_1$, $T_2$, COSY, JRES, DEPT, HSQC, etc. Please inquire about additional pulse sequences.

60e – $^1$H or $^19$F
1D, $T_1$, $T_2$, COSY, JRES & TOCSY

Talk to us about your benchtop NMR application  |  sales@nanalysis.com
Technical Specifications

Operating Frequency
60 MHz (1.4 T)

Magnet
Permanent, no cryogens

User Interface
Built-in touchscreen and/or remote accessibility. Can connect to external computer, if desired.

Nuclei

60PRO – Dual Channel
e.g., $^1$H/$^{13}$C, $^1$H/$^{31}$P, $^1$H/$^{19}$F
Please inquire about custom options

60e – Single Channel; $^1$H
Lock
Internal $^1$H and $^2$H options

Sample
Standard 5 mm NMR tubes, flow options

Compatibility
File: JCAMP-DX and CSV
Software: Mnova, ACD/Labs, Delta, TopSpin, MATLAB, SPINit, NMRfx, etc.

Resolution
LW(50%) <1.0 Hz (<0.0017 ppm)

Sensitivity
100 : 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)
11.8 x 11 x 19.2”
30 x 28 x 49 cm

Weight
58 lbs / 26.3 kg

* Specifications are subject to change without notice
The NMReady-flow cell kit allows easy interconversion of any 60e or 60PRO benchtop spectrometer into an NMR online detector either as a stand-alone tool or in conjunction with other analytical techniques.

For more information, visit nanalysis.com/nmready-flow
Robust, Compact, Portable
All-in-one compact benchtop NMR with a light enclosure, easy to site anywhere making hands-on access simple.

Rapid Results
Discover how a high-performance benchtop NMR located directly on your bench can improve your productivity!

Low Maintenance
Reduce operating expenditures with permanent magnet NMR spectrometers that require no cryogens, no preventative maintenance, or weekly servicing.

Configurable
Run standard acquisition parameters from a convenient pop-up menu and modify as desired to get the results you want.

Quick and Easy-to-use
Controlled through the built-in touchscreen, a keyboard and mouse, or through an external computer, the spectrometer setting are easily configured by the user.