

Broadening NMR horizons



LapSpec: the laptop sized NMR spectrometer

Mobile NMR is opening a world of new possibilities for NMR, where measurements are being made outside the laboratory and in the field. The LapSpec NMR spectrometer opens those doors with the world's first truly portable, all in one, laptop sized NMR spectrometer. It weighs only 3.6 kg (8 lbs), runs for up to 4 hours on rechargeable batteries, and includes a 150W RF power amplifier inside the box.

LapSpec can be purchased as a package with the NMR-MOUSE™ probe or as a standalone single channel NMR spectrometer.



LapSpec System specifications

System core:

Interface:	USB 1.1
Pulse program timing resolution:	20 ns
Waveform memory:	32k, 24-bit samples
User Interface:	Prospa software
Platform:	Windows 2000 or XP

Digital Receiver:

Input impedance:	50 Ω
Sample rate:	62.5 MHz
Resolution:	14-bit
Input bandwidth:	100 kHz to 30 MHz
Receiver output maximum bandwidth:	2 MHz (quadrature sample rate)
Digital Filtering:	Programmable

Transmitter:

DDS output level:	0 dbm
Output impedance:	50 Ω
Clock rate:	125 MHz
Modulation capabilities:	Frequency, phase and amplitude modulation
Maximum update rate:	1 MHz
Transmitter output power:	150 W

Receiver amplifier:

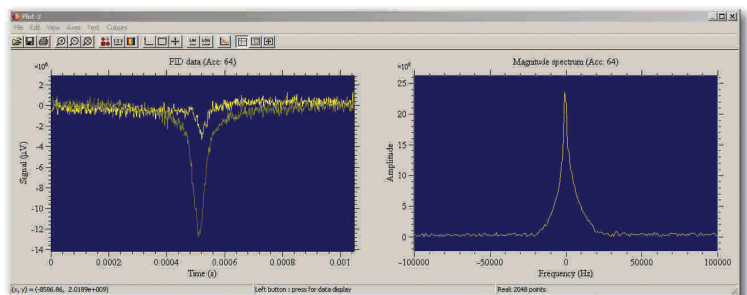
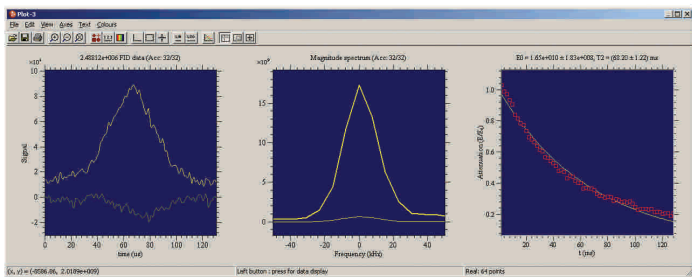
Overall gain:	> 110 dB
Variable gain:	-20 to +70 dB, digitally controlled in 3 dB steps
Input/output impedance:	50 Ω
Bandwidth:	1 kHz to 600 MHz
Analog filter:	100 kHz to 30 MHz
Preamplifier gain:	40 dB
Preamplifier noise figure:	< 1 dB

Power supply:

Voltage:	12 V DC
Current:	2.5 A DC

Dimensions:

Size:	310 x 230 x 55 mm
Weight:	3.6 kg (8 lbs)



For further information or a quote please contact

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