

XeUS NMR Spectrometer GEN3.2

This single-channel spectrometer (**P/N XET008**) is a *pulse-and-acquire* device which is ideal for low-field NMR Polarimetry and other applications with a spectral range from 1 - 125 kHz, which features USB and RS485 communications, and an SMA external trigger.

Included in this kit:

- LF Single-Channel NMR Spectrometer Gen3.2
- Windows based NMR Software
- USB-C to USB Cable



PC Interface:	Full speed USB 2.0
User interface:	MS Windows based software (included)
Digital I/O:	RS485, 1 TTL trigger input (SMA)
Receiver:	<i>Number of receivers: 1 (SMA)</i> <i>Operating range: 1 to 125 kHz</i> <i>Gain: +74 to +98 dB, digitally controlled in 12 dB steps</i> <i>Input impedance: 1 MΩ</i> <i>Sample rate: 250 ksps</i> <i>Resolution: 24-bit</i> <i>Sweep Width: 124 kHz</i> <i>Filtering: digital post processing</i> <i>Signal averaging: yes</i>
Internal RF amplifier:	<i>Number of amplifiers: 1</i> <i>Output power: up to 180 mW in 100 steps</i> <i>RF pulse duration: up to 2 ms in 256 half-period steps</i> <i>Clock step: 1 Hz</i> <i>Frequency stability: 10 ppm</i> <i>Frequency range: 1 – 125 kHz</i> <i>Modulation capabilities: phase synchronization</i> <i>Phase control: on demand</i>
Power Supply:	Can be powered either by: USB-C connection to PC (included) Or via External 24 VDC (optional)
Data Output	.csv file
Dimensions:	<i>Size: 102 × 98 × 19 mm in full aluminum enclosure</i> <i>Weight: 370 g or 0.8 pound</i>
Notes:	<i>The spectrometer can be supplied with custom high-impedance RF coil tuned to ~40 kHz;</i> <i>other RF coils can be made on demand;</i> <i>custom electromagnet systems can be made on demand;</i>

